July 2011 Area Air and Sub-Slab Air Quarterly Monitoring Report – Buildings 1 and 2

General Services Administration

Bannister Federal Complex

Kansas City, Jackson County, Missouri

December 13, 2011

Terracon Project No. 02107144

Prepared for:

General Services Administration

Kansas City, Missouri

Prepared by:

Terracon Consultants, Inc.

Lenexa, Kansas

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Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

December 13, 2011

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
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Re: July 2011 Area Air and Sub-Slab Air Quarterly Monitoring Report – Building 1 and 2
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 at the General Services Administration (GSA) Bannister Federal Complex (BFC), specifically Buildings 1 and 2, located at 1500 East Bannister Road, Kansas City, Missouri.

Terracon environmental personnel conducted area air and sub-slab air sampling on July 28, 2011 through August 2, 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 Work Plan addenda.

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.

Christopher S. Cast
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Copies to: Addressee (2 copies plus digital copy)
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JULY 2011 AREA AIR AND SUB-SLAB AIR QUARTERLY MONITORING REPORT
BANNISTER FEDERAL COMPLEX – BUILDINGS 1 AND 2

GENERAL SERVICES ADMINISTRATION
1500 EAST BANNISTER ROAD
KANSAS CITY, MISSOURI 64131

Terracon Project Number: 02107144
December 13, 2011

1.0 INTRODUCTION AND BACKGROUND

This report presents the results of the third quarterly area air and sub-slab air sampling event conducted at the General Services Administration (GSA) Bannister Federal Complex (BFC), specifically Buildings 1 and 2, located at 1500 East Bannister Road, Kansas City, Missouri. Sampling activities were performed July 28, 2011 through August 2, 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, and subsequent addenda dated November 24, 2010 and July 19, 2011, and Terracon's proposal dated September 30, 2010. Area air and sub-slab air sampling were conducted in Buildings 1 and 2 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.

1.2 Project Objectives

The finished spaces of Building 1 and 2 include a subbasement, basement, and above grade office and mechanical spaces.

Eight sub-slab, 20 indoor, and 3 outdoor air sampling locations were selected for collection and 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 Buildings 1 and 2.

In addition to sub-slab air and area air sampling, a water sample was collected from the sump located in the freight elevator located at R16 and analyzed for VOCs to assess VOC contaminant concentrations in the groundwater seepage at the bottom of the elevator shaft and to evaluate the potential influence of identified VOC contaminants on indoor air.

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 member exposure concentrations and 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.

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 practices for the services performed. 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 by Terracon.

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 the 3rd Quarter/July 2011 sub-slab air sampling. No additional sub-slab sampling points were installed between the 1st Quarter/January 2011 sampling and the 3rd Quarter/July 2011 sampling.

2.2 Air Sampling for VOCs

Sub-Slab, Indoor, and Outdoor Air Sampling for VOCs

On July 28, 2011 through August 2, 2011, Terracon environmental personnel conducted air sampling for VOCs at Buildings 1 and 2 of the GSA Bannister Federal Complex.

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 screened for helium using a Dielectric MDG-2002 helium detector. Helium was not detected in seven of the eight sub-slab sampling locations; therefore, Terracon determined that no leaks within the sample train existed (i.e., no helium had entered the tubing through a poorly sealed probe, flow regulator, or tubing connectors), and sampling proceeded. Sample location J19 did not pass the leak test, likely due to a tight soil formation around the sub-slab probe; however, sampling proceeded.

In addition, prior to collecting the sub-slab samples, Terracon conducted sub-slab vapor screening at each sampling port using a RAE Systems ppbRAE. 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 with 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, 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 by Environmental Protection Agency (EPA) Method TO-15.

Summa canisters were placed as close as was possible to the predetermined locations as described in the Work Plan/QAPP and Work Plan Addendum dated July 19, 2011. 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 Test America of Austin, Texas, under standard chain-of-custody (COC) protocol, for laboratory analysis by EPA Method TO-15.

Sample/Work Plan Deviations

Three additional air samples and one water sample were added to the scope of work as described in the Work Plan/QAPP. Due to previous VOC detections at sample location B1SB-W8 which is located within the former shower room below the Department of Commerce (DOC) warehouse, indoor air samples were collected from within the DOC warehouse (B1-W8-WH) and women's restroom (B1-W8-RR), both located above the B1SB-W8 sample location.

Due to previous VOC detections at sample location B1SB-R16, which is located within the freight elevator, an additional indoor air sample was collected exterior to the freight elevator (B1SB-R16-EXT). In addition, a water sample was collected from the sump located within the freight elevator to evaluate whether the water was the source of the previously identified VOC detections in air.

A passing leak test could not be demonstrated for sub-slab sample J19, but sampling was still conducted per EPA. Sampling at sample location B1SB-W8-WH was initiated on July 28, 2011; however, due to regulator failure, the summa canister filled prior to 24 hours. Therefore, an additional sample was collected on August 2, 2011 (initiated on August 1, 2011).

Possible Contaminants

The indoor air VOC sample collected at sample location B1-W8-RR was collected near some possible VOC contaminants. A chemical cleanser (Pin-Sol®) was found in the DOC warehouse. Primary ingredients include surfactants and isopropanol. No other potential contaminant sources were noted during sampling activities.

3.0 ANALYTICAL METHODS

3.1 VOC Analysis

Samples were analyzed at the contract laboratory (TestAmerica), according to EPA Method TO-15. 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 site-specific screening levels (see Section 5.2); therefore, some reporting levels for samples collected during the July 2011 sampling event exceed the site-specific screening levels.

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 (SSSLs) 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. In addition, because access is limited and exposure to workers is intermittent and of short duration, samples collected from R10

(Passenger Elevator), R16 (South Freight Elevator), AA17 (North Freight Elevator), W8 (Department of Commerce/DOC Warehouse Shower Room), E23 (GSA Warehouse - Shower Room), and K8 (Former Shower Room) were compared to Short-Term Risk-Based Screening Levels.

The SSSLs 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. Screening levels utilized are provided on the tables presented in Appendix D.

4.1.1 Sub-Slab, Indoor, and Outdoor Air Sampling Results-VOCs

Sub-Slab: The July 2011 sub-slab air monitoring results indicated a concentration of trichloroethene (TCE) above the SSSLs of 24 micrograms per cubic meter (µg/m^3) (cancer risk) and 7 µg/m^3 (non-cancer risk) in sub-slab sample U19 (Fan Room 3B), E23 (GSA Warehouse Former Shower Room), and W8 (DOC Warehouse Former Shower Room). Chloroform was detected at a concentration above the SSSL of 4.3 µg/m^3 (cancer risk) in sub-slab sample A19 (South Utility Room) and its associated duplicate sample (Dup-SS).

Laboratory results are provided in Appendix D, Table 1.

Indoor and Outdoor Air: The July/August 2011 indoor and outdoor air monitoring results indicated the following VOCs at concentrations above the SSSLs:

- TCE was detected above the SSSLs based on cancer risk (4.9 µg/m^3) and/or non-cancer risk (3.5 µg/m^3) in indoor air samples W17 and associated duplicate sample (Former Mail Room), Y18 (FEMA Office Space), U17 (Department of Defense/DOD Office of Inspector General), AA17 (Northern Freight Elevator), OB27 (Unoccupied Office Space), R17 (Veterans Affairs/VA Office Space), R16 (South Freight Elevator), R16-EXT (Outside of South Freight Elevator), R10 (Passenger Elevator), U19 (Fan Room 3B), E23 (GSA Warehouse Former Shower Room), W8 (DOC Warehouse Former Shower Room), W8-RR (DOC Warehouse Rest Room), W8-WH (DOC Warehouse), P25 (Utility Room-Caged Area), R2 (Fan Room 1B), OD8 (Pump Room), J19 (Utility Room – Cafeteria), A19 (Utility Room – South), and K8 (Former Shower Room - Hall).

- Vinyl chloride was detected above the SSSLs based on cancer risk (2.2 µg/m^3) and non-cancer risk (35 µg/m^3) in indoor air sample R16 (South Freight Elevator).

- Methylene chloride was detected at a concentration above the SSSL of 21 µg/m^3 (cancer risk) in indoor air sample AA17 (Northern Freight Elevator).

- Chloroform was detected at concentrations above the SSSL of 0.43 µg/m^3 (cancer risk) in indoor air samples OD8 (Pump Room), E23 (GSA Warehouse Former Shower Room), Y18 (FEMA Office Space) and W8 (DOC Warehouse Former Shower Room).

- Tetrachloroethene (PCE) was detected at a concentration above the SSSL of 1.7 µg/m^3 (cancer risk) in indoor air samples Y18 (FEMA Office Space) and AA17 (Northern Freight Elevator).

- Cis-1,2-dichlorethene (cis-1,2-DCE) was detected at a concentration above the SSSL of 21 µg/m^3 (non-cancer risk) in indoor air sample W17 and associated duplicate sample (Former Mail Room), R16 (South Freight Elevator), AA17 (Northern Freight Elevator), R17 (Veterans Affairs/VA Office Space), U19 (Fan Room 3B) and U17 (Department of Defense/DOD Office of Inspector General).

- Benzene was detected above the SSSL of 1.3 µg/m^3 (cancer risk) in indoor air samples Y18 (FEMA Office Space) and AA17 (Northern Freight Elevator).

- Ethylbenzene was detected above the SSSL of 3.9 µg/m^3 (cancer risk) in indoor air samples P25 (Utility Room-Caged Area) and AA17 (Northern Freight Elevator).

- Naphthalene was detected at a concentration above the SSSLs of 0.29 µg/m^3 (cancer risk) and 1.1 µg/m^3 (non-cancer risk) in indoor air samples OD8 (Pump Room), AA17 (Northern Freight Elevator), Y18 (FEMA Office Space), A19 (Cafeteria Far South Utility Room), E23 (GSA Warehouse Former Shower Room), and K8 (Former Shower Room - Hall).

- Concentrations of 1,3-dichlorobenzene and 1,4-dichlorobenzene were detected in indoor air sample E23 (GSA Warehouse Former Shower Room) at concentrations above the SSSL of 0.89 µg/m^3 (cancer risk).

Although some VOCs were detected at concentrations exceeding screening levels based on carcinogenic risks, these concentrations correspond to cancer risk values within EPA's target cancer risk range of 1.0 x 10^{-6} to 1.0 x 10^{-4} that are generally considered acceptable by the EPA.

The results indicate a non-cancer risk (based on maximum detection) above the non-cancer risk level hazard quotient (HQ) of 0.1 for TCE, vinyl chloride and cis-1,2-DCE; however, the calculated non-cancer risk levels (based on maximum detection) for vinyl chloride and cis-1,2-DCE, are below the non-cancer hazard index (HI) of 1, which is considered acceptable

by the EPA. The identified TCE concentrations, with the exception of those detected at W8 and W8-RR, are below the non-cancer HI of 1, which is considered acceptable by the EPA.

Laboratory results for the July 2011 sampling event are provided in Appendix D, Tables 2A and 2B. Laboratory results for samples collected from January 2011 to July 2011 are provided in Appendix D, Tables 4A and 4B.

Indoor Air - Short-Term Exposure: Because access to sample locations R10 (Passenger Elevator), R16 (South Freight Elevator), AA17 (North Freight Elevator), W8 (Department of Commerce/DOC Warehouse Shower Room), E23 (GSA Warehouse - Shower Room), and K8 (Former Shower Room) 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 indoor air samples collected, with the exception of samples AA17 and E23, did not exhibit VOC concentrations at levels above the detection limit or the Short-Term Risk-Based Screening Levels. Indoor air samples AA17 and E23 exhibited naphthalene concentrations above the Short-Term Risk-Based Screening Level of 2.9 $\mu g/m^{3.}$

Laboratory results are provided in Appendix D, Table 3.

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 exhibited total non-cancer risks greater than the EPA acceptable non-cancer HI of 1 at sample locations W17 (Former Mail Room), R16 (South Freight Elevator), AA17 (Northern Freight Elevator), U19 (Fan Room 3B), E23 (GSA Warehouse Former Shower Room), R17 (Veterans Affairs/VA Office Space), Y18 (FEMA Office Space), W8 (DOC Warehouse Former Shower Room), W8-RR (DOC Warehouse Rest Room), W8-WH (DOC Warehouse), and U17 (Department of Defense/DOD Office of Inspector General).

4.1.3 Freight Elevator Sump Sample

A water sample was collected from the sump pit located in the south freight elevator (indoor air sample location R16) to assess contaminant concentrations in the groundwater seepage at this location and to investigate the potential influence of groundwater seepage on indoor air. A sample (identified as R16 Sump) was collected by submerging a unpreserved polyethylene bottle into the sump followed by pouring the collected sample into a hydrochloric acid (HCl) preserved 40-milliliter (mL) glass sample container. The sample was

shipped, along with a lab-prepared trip blank, to Environmental Science Corp. (ESC), located in Mt. Juliet, Tennessee, for VOC analysis using EPA SW-846 Method 8260B.

Laboratory analysis revealed concentrations of cis-1,2-DCE (1,100 micrograms per liter – µg/L), 1,1-dichloroethene (1,1-DCE, 5.2 µg/L), trans-1,2-DCE (15 µg/L), TCE (6.3 µg/L), and vinyl chloride (540 µg/L). The detected cis-1,2-DCE, TCE, and vinyl chloride concentrations exceeded the Tapwater Regional Screening Levels (RSLs) and/or Maximum Contaminant Levels (MCLs).

Results indicate that groundwater seepage located in the vicinity of the south freight elevator (indoor air sample location R16) is impacted by releases of chlorinated solvents to groundwater from either historical site use or from the adjacent Department of Energy (DOE) facility. Laboratory results are provided in Appendix D, Table 5.

4.2 Vapor Intrusion Pathway Evaluation

In reviewing the tables presented in Appendix D of this report, it can be noted that contaminants analyzed for and identified in sub-slab locations appear to have influence on indoor air. The attenuation factor of 0.1 associated with EPA-prepared "Science Documents" for Buildings 50 and 52 available online at http://www.epa.gov/region7/cleanup/bannister/index.htm, appears to be a conservative approach to the contaminants associated with Buildings 1 and 2, as attenuation factors are generally less than 0.1 (sub-slab to indoor air).

Comparison of sub-slab data to indoor sample data indicates a slight correlation to sub-slab and indoor air concentrations. Generally, the presence of chlorinated solvent-related VOCs detected in sub-slab samples collected are exhibited in the indoor air samples collected; however, no direct correlation of sub-slab to indoor air can be established, as sub-slab contaminant concentrations have been identified at lower concentrations than indoor air (i.e., P25).

The contaminant concentrations identified in the south freight elevator (R16) correlate well to the contaminant concentrations identified in the water sample collected from the freight elevator sump (R16 Sump).

The potential for groundwater impacts from historical site use and the identified chlorinated solvent-impacted groundwater plume located under the adjacent Department of Energy (DOE) facility are likely sources of impact to the GSA BFC sub-slab and indoor air. Chlorinated solvent-related compounds (vinyl chloride, trans-1,2-DCE, cis-1,2-DCE, TCE, and PCE) were detected in multiple sub-slab and indoor air samples collected at concentrations exceeding their respective screening levels. Each of these chemicals is a chlorinated VOC plausibly

associated with a chlorinated solvent groundwater plume. Detection of these chlorinated VOCs suggests a past release of chlorinated solvents into the environment that is likely influencing sub-slab and indoor air conditions within Buildings 1 and 2.

5.0 QUALITY ASSURANCE

Following the QAPP requirements for data validation during sampling, Terracon conducted oversight of all sampling procedures.

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, the subsequent addenda dated November 24, 2010 and July 19, 2011, 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 the 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 was 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 standard operating procedures (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.

5.2.1 Holding Times and Detection Limits

Laboratory analyses were performed within the sample holding times prescribed by the specific analytical methods applied and as described in the QAPP. In addition, laboratory detection limits were at or below applicable SSSLs; however, the following contaminant laboratory detection limits were generally above the SSSLs: acrylonitrile, chloroform, 1,2-dichloroethene, bromodichloromethane, chlorodibromomethane, 1,2-dibromoethane, 1,1,2,2-tetrachloroethane, benzyl chloride, 1,2,4-trichlorobenzene, naphthalene, and hexachlorobutadiene. The laboratory reports in Appendix E outline the laboratory detection and reporting limits for each individual sample analysis.

5.2.2 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 laboratory 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 give additional details regarding laboratory QA/QC results.

5.3 VOC Air Sample Duplicate Results

Terracon collected duplicate indoor air and sub-slab air samples for VOC analyses at sampling locations B1SB-W17 and B1SB-A19-SS. The corresponding duplicate samples are identified as Dup-VOCs and Dup-SS-VOCs, respectively.

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% specified in the

QAPP, except for acetone for the sub-slab sample collected at A19 and benzene and toluene for indoor air sample collected at W17. The value of greater than 20% RPD may be attributed to laboratory contamination as acetone is a common laboratory chemical and the low detection limits. As discussed below, acetone was detected in the internal laboratory blank samples.

Tables 6 in Appendix D provide a summary of calculated RPD results.

5.4 Sample Media Blank Results

Terracon submitted three summa canisters (one with sub-slab air samples and two with indoor air samples) as trip blanks for laboratory analysis. Laboratory analysis of the summa canister trip blanks associated with the indoor air samples did not indicate VOCs at concentrations above the laboratory reporting limits, with the exception of acetone, which was detected in the internal laboratory blank sample (common laboratory contaminant). Butane, heptane, and acetone were detected above the laboratory reporting limits in the trip blank related to sub-slab air samples. As indicated previously, acetone was detected in the internal laboratory blank sample. The sources of the identified butane and heptane are unknown; however, butane and heptane were identified in sub-slab samples collected. The Tables 1 and 2 in Appendix D provide 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 July 2011 sub-slab air monitoring results indicated a concentration of trichloroethene (TCE) above the site-specific screening levels in sub-slab sample U19 (Fan Room 3B). Chloroform was detected at a concentration above the site-specific screening level in sub-slab sample A19 (South Utility Room) and its associated duplicate sample (Dup-SS).

- TCE was detected above the site-specific screening levels in indoor air samples W17 and associated duplicate sample (Former Mail Room), Y18 (FEMA Office Space), U17 (Department of Defense/DOD Office of Inspector General), AA17 (Northern Freight Elevator), R17 (Veterans Affairs/VA Office Space), R16 (South Freight Elevator), R16-EXT (Outside of South Freight Elevator), R10 (Passenger

Elevator), U19 (Fan Room 3B), E23 (GSA Warehouse Former Shower Room), W8 (DOC Warehouse Former Shower Room), W8-RR (DOC Warehouse Rest Room), W8-WH (DOC Warehouse), and P25 (Utility Room-Caged Area).

- Vinyl chloride was detected above the site-specific screening level of in indoor air sample R16 (South Freight Elevator).

- Methylene chloride was detected at concentrations above the site-specific screening level in indoor air sample AA17 (Northern Freight Elevator).

- Chloroform was detected at concentrations above the site-specific screening level in indoor air samples OD8 (Pump Room), E23 (GSA Warehouse Former Shower Room), Y18 (FEMA Office Space) and W8 (DOC Warehouse Former Shower Room).

- PCE was detected at a concentration above the site-specific screening level in indoor air samples Y18 (FEMA Office Space) and AA17 (Northern Freight Elevator).

- Cis-1,2-DCE was detected at a concentration above the site-specific screening level in indoor air sample W17 and associated duplicate sample (Former Mail Room), R16 (South Freight Elevator), AA17 (Northern Freight Elevator), R17 (Veterans Affairs/VA Office Space), U19 (Fan Room 3B) and U17 (Department of Defense/DOD Office of Inspector General).

- Benzene was detected above the site-specific screening level in indoor air samples Y18 (FEMA Office Space) and AA17 (Northern Freight Elevator).

- Ethylbenzene was detected above the site-specific screening level in indoor air samples P25 (Utility Room-Caged Area) and AA17 (Northern Freight Elevator).

- Naphthalene was detected at a concentration above the site-specific screening levels in indoor air samples OD8 (Pump Room), AA17 (Northern Freight Elevator), Y18 (FEMA Office Space), A19 (Cafeteria Far South Utility Room), E23 (GSA Warehouse Former Shower Room), and K8 (Former Shower Room - Hall).

- Concentrations of 1,3-dichlorobenzene and 1,4-dichlorobenzene were detected in indoor air sample E23 (GSA Warehouse Former Shower Room) at concentrations above the site-specific screening level.

- The identified VOC concentrations exceed the cancer risk level of 1.0 x 10^{-6}. However, the calculated cancer risk levels (based on maximum detection), are within the target cancer risk range (1.0 x 10^{-6} to 1.0 x 10^{-4}) that is generally considered acceptable by the EPA.

- The results indicate a non-cancer risk (based on maximum detection) above the non-cancer risk level HQ of 0.1 for TCE, vinyl chloride and cis-1,2-DCE; however, the calculated non-cancer risk levels (based on maximum detection) for vinyl chloride and cis-1,2-DCE, are below the non-cancer hazard index (HI) of 1, which is considered acceptable by the EPA. The identified TCE concentrations, with the exception of those detected at W8 and W8-RR, are below the non-cancer hazard index (HI) of 1, which is considered acceptable by the EPA.

- Because access to sample locations R10 (Passenger Elevator), R16 (South Freight Elevator), AA17 (North Freight Elevator), W8 (Department of Commerce/DOC Warehouse Shower Room), E23 (GSA Warehouse - Shower Room), and K8 (Former Shower Room) 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 indoor air samples collected, with the exception of samples AA17 and E23, did not exhibit VOC concentrations at levels above the detection limit or the Short-Term Risk-Based Screening Levels. Indoor air samples AA17 and E23 exhibited naphthalene concentrations above the Short-Term Risk-Based Screening Level.

- The 3rd quarter calculated cancer cumulative health risk for maximum concentrations for the indoor air and outdoor air VOCs was calculated at 1.32 x 10^{-4} which is outside (exceeds) the EPA acceptable cancer risk range of 1.0 x 10^{-6} to 1.0 x 10^{-4}.

- Without the inclusion of the short-term exposure locations, 3rd quarter calculated cancer cumulative health risk was calculated at 4.24 x 10^{-5} which is within the EPA acceptable cancer risk range of 1.0 x 10^{-6} to 1.0 x 10^{-4}.

- The calculated cumulative non-cancer HQ for all VOCs was calculated at 6.43 x 10^{0} which is above the EPA acceptable HI of 1.

- Without the inclusion of the short-term exposure locations, the calculated cumulative HQ for the indoor air and outdoor air VOCs was calculated at 4.20 x 10^{0} which is above the EPA acceptable HI of 1.

- Laboratory results of the water sample collected from the south freight elevator sump (indoor air sample location R16) indicate that groundwater located in the vicinity of the south freight elevator (indoor air sample location R16) is impacted by releases of chlorinated solvents to groundwater from either historical site use or from the adjacent Department of Energy (DOE) facility.

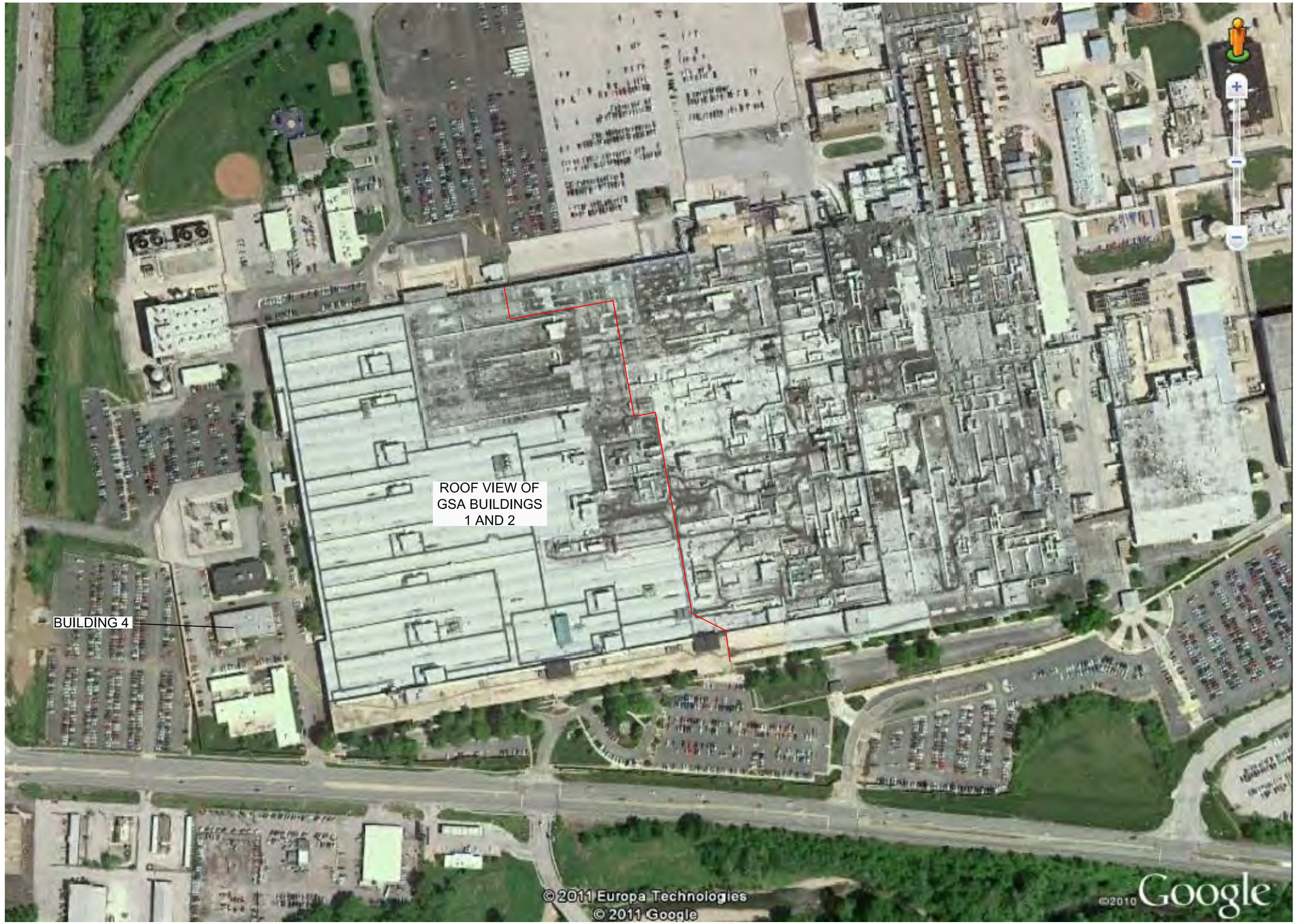
- The potential for groundwater impacts from historical site use and identified chlorinated solvent impacted groundwater plume located under the adjacent Department of Energy (DOE) facility are likely sources of impact to the GSA BFC sub-slab and indoor air.

6.2 Recommendations

Based on the results of the quarterly sub-slab, indoor, and ambient air sampling events performed to-date, Terracon recommends continued quarterly air sampling for VOCs, per the site specific Work Plan/QAPP.

APPENDIX A

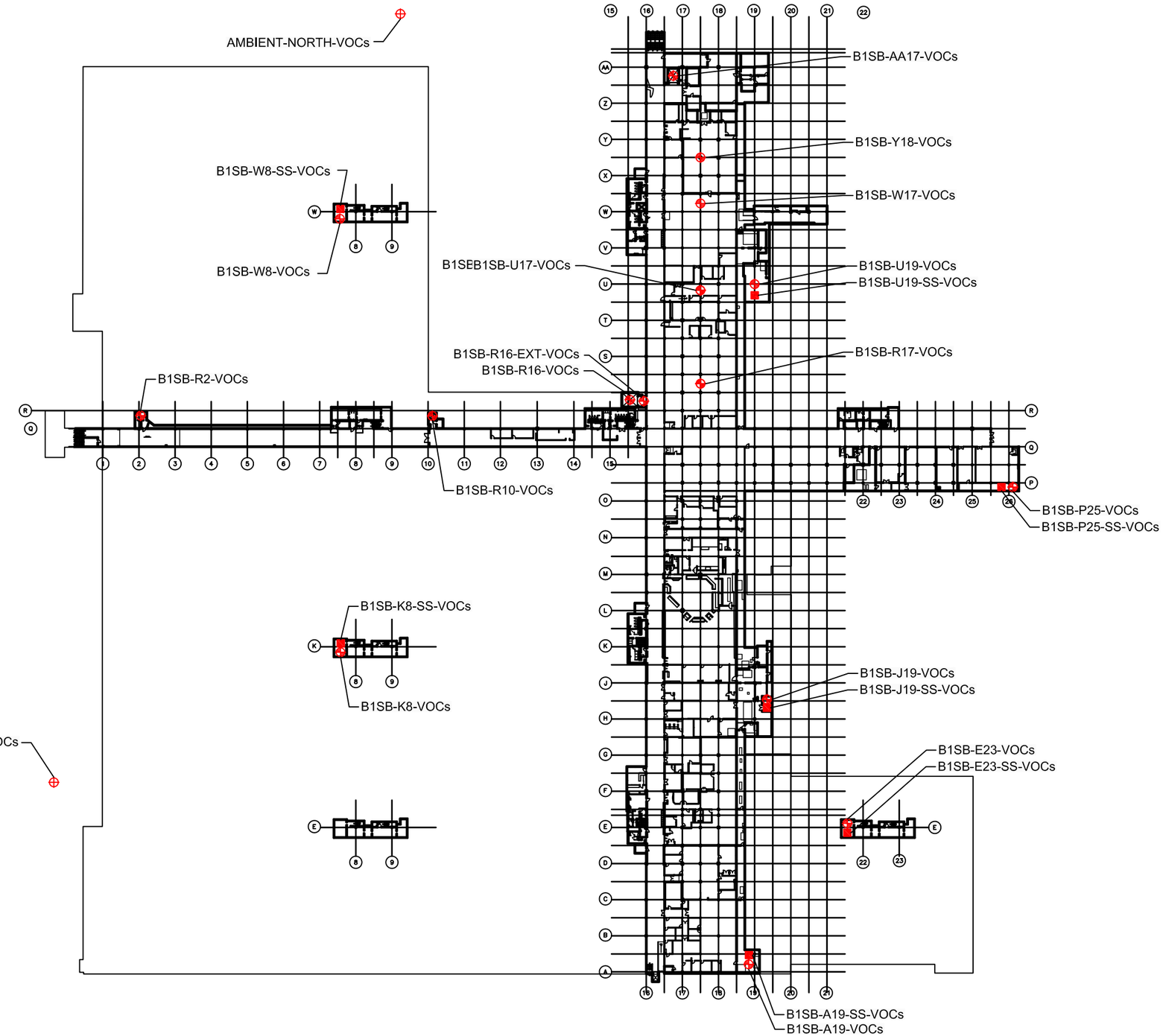
Exhibits



N

Project Mngr: WWK	Project No. 02107144	Terracon Consulting Engineers and Scientists	EXHIBIT 1 - OVERALL SITE MAP
Drawn By: DBM	Scale: NOT TO SCALE	13910 W. 96TH TERRACE KANSAS CITY, KS 66215	BUILDING 1-2 - ROOF
Checked By: WWK	File No. E5	PH. (913) 492-7777 FAX. (913) 492-7443	THIRD QUARTER VOC AIR SAMPLING
Approved By: WWK	Date: 03/04/11		1500 E. BANNISTER ROAD
			KANSAS CITY, MISSOURI

Exhibit # 1



N

LEGEND

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

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BASE FIGURE PROVIDED BY TETRA TECH

Project Mngr:	WWK
Drawn By:	DBM
Checked By:	WWK
Approved By:	WWK
Project No.	02107144
Scale:	NOT TO SCALE
File No.	E2
Date:	4/18/11

Terracon
Consulting Engineers and Scientists
13910 W. 96TH TERRACE KANSAS CITY, KS 66215
PH. (913) 492-7777 FAX. (913) 492-7443

EXHIBIT 2 - SAMPLE LOCATION DIAGRAM

BUILDING 1 SUB-BASEMENT

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

Exhibit # 2

LEGEND

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

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Project Mngr:	WWK
Drawn By:	DBM
Checked By:	WWK
Approved By:	WWK
Project No.	02107144
Scale:	NOT TO SCALE
File No.	E4
Date:	4/18/11

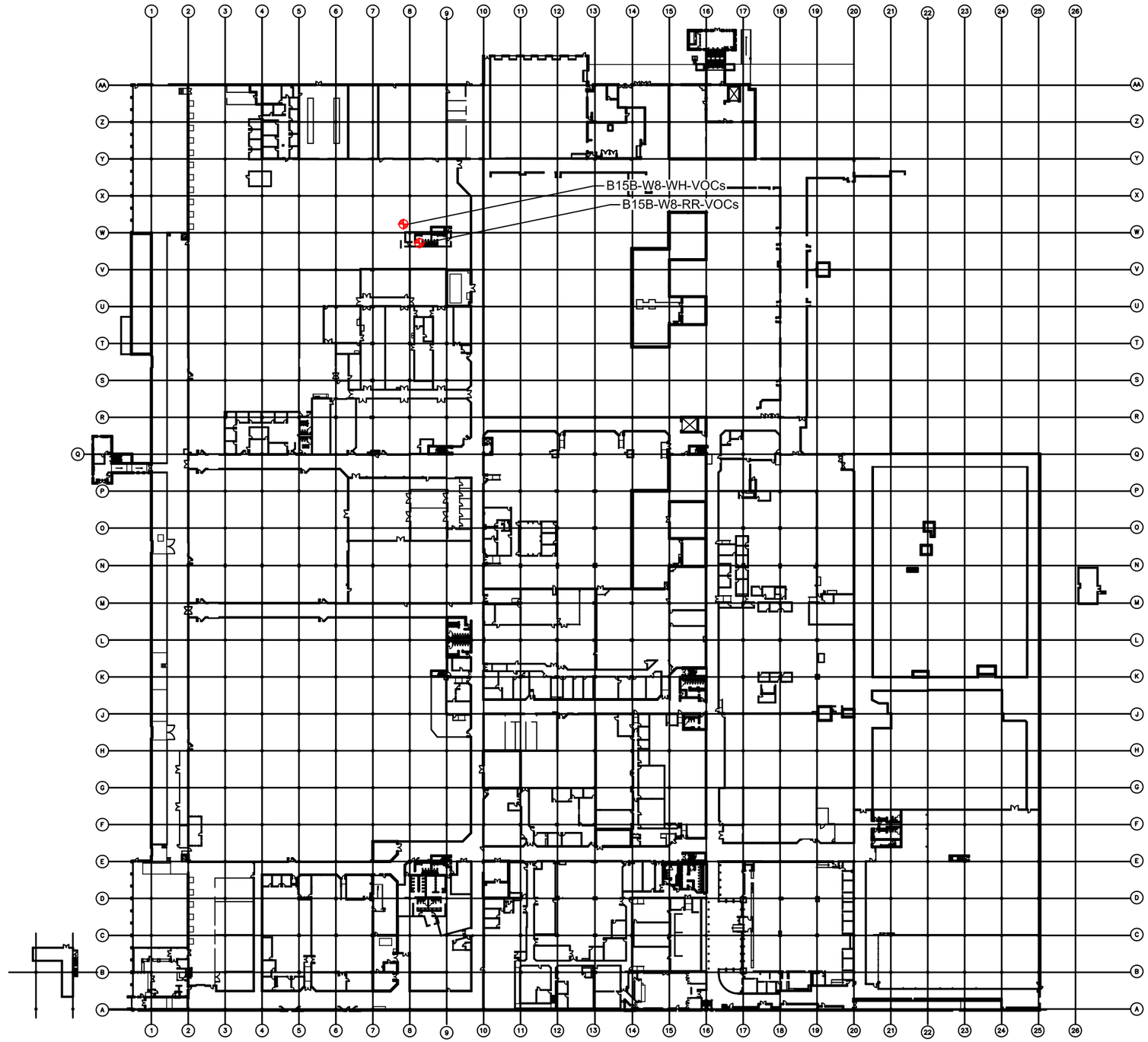
Terracon
Consulting Engineers and Scientists
13910 W. 96TH TERRACE KANSAS CITY, KS 66215
PH. (913) 492-7777 FAX. (913) 492-7443

EXHIBIT 3 - SAMPLE LOCATION DIAGRAM

BUILDING 2 - BASEMENT

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

Exhibit # 3



LEGEND

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

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BASE FIGURE PROVIDED BY TETRA TECH

Project Mngr: WWK	Project No. 02107144	Terracon Consulting Engineers and Scientists	EXHIBIT 4 - SAMPLE LOCATION DIAGRAM
Drawn By: DBM	Scale: NOT TO SCALE	13910 W. 96TH TERRACE KANSAS CITY, KS 66215	BUILDING 1 - FLOOR 1
Checked By: WWK	File No. E4	PH. (913) 492-7777 FAX. (913) 492-7443	THIRD QUARTER VOC SAMPLING
Approved By: WWK	Date: 10/19/11		1500 E. BANNISTER ROAD
			KANSAS CITY, MISSOURI

Exhibit # 4

APPENDIX B

Photographic Documentation

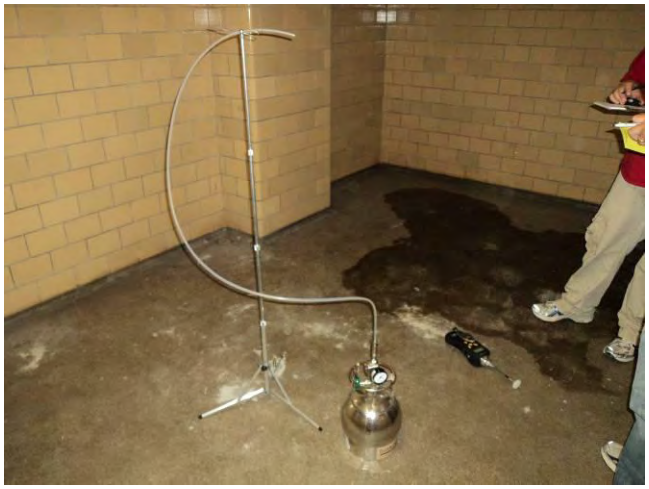
PHOTO #1 Building 1 – Sub-Basement – Department of Commerce Warehouse – Former Shower Room Sample No. B1SB-W8-VOCs	
PHOTO #2 Building 1 – Sub-Basement – Department of Commerce Warehouse – Former Shower Room Sample No. B1SB-W8-SS-VOCs	
PHOTO #3 Building 1 – Sub-Basement – Former Shower Room Sample No. B1SB-K8-VOCs	

PHOTO #4 Building 1 – Sub-Basement – Former Shower Room Sample No. B1SB-K8-SS-VOCs	
PHOTO #5 Building 1 – Sub-Basement – GSA Warehouse – Former Shower Room Sample No. B1SB-E23-VOCs	
PHOTO #6 Building 1 – Sub-Basement – GSA Warehouse – Former Shower Room Sample No. B1SB-E23-SS-VOCs	

PHOTO #7 Building 1 – Sub-Basement – East End of Q-Corridor – Utility Room – Caged Area Sample No. B1SB-P25-VOCs	
PHOTO #8 Building 1 – Sub-Basement – East End of Q-Corridor – Utility Room – Caged Area Sample No. B1SB-W17-SS-VOCs	
PHOTO #9 Building 2 – Basement – Unoccupied Office Space Sample No. B2B-OB27-VOCs	

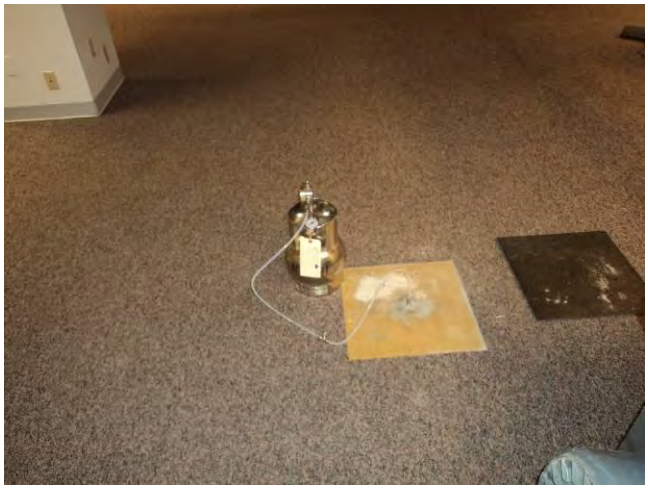
PHOTO #10 Building 1 – Basement – Unoccupied Office Space Sample No. B2B-OB27-SS-VOCs	
PHOTO #11 Building 1 – Sub-Basement – Fan Room 3B Sample No. B1SB-U19-VOCs	
PHOTO #12 Building 1 – Sub-Basement – Fan Room 3B Sample No. B1SB-U19-SS-VOCs	

PHOTO #13 Building 1 – Sub-Basement – Cafeteria Utility – Far South Room Sample No. B1SB-A19-VOCs	
PHOTO #14 Building 1 – Sub-Basement – Cafeteria Utility – Far South Room Sample No. B1SB-A19-SS-VOCs and Location of Duplicate Sub-Slab VOC Sample	
PHOTO #15 Building 1 – Sub-Basement – Cafeteria Utility – North Room Sample No. B1SB-J19-VOCs	

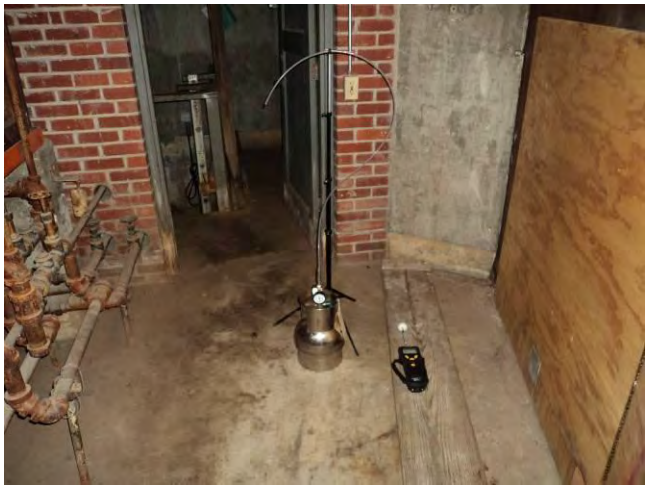
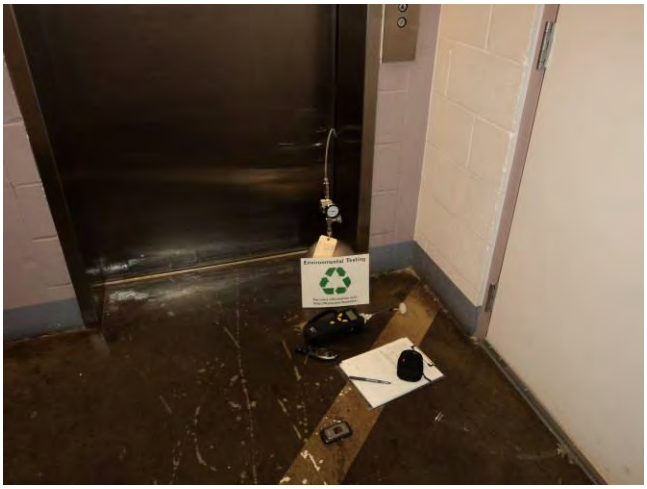
PHOTO #16 Building 2 – Basement – Pump Room #8 Sample No. B1SB-OD8-VOCs	
PHOTO #17 Building 1 – Sub-Basement – West End of Q-Corridor – Fan Room 1B Sample No. B1SB-R2-VOCs	
PHOTO #18 Building 1 – Sub-Basement – West Part of Q-Corridor – Passenger Elevator Sample No. B1SB-R10-VOCs	

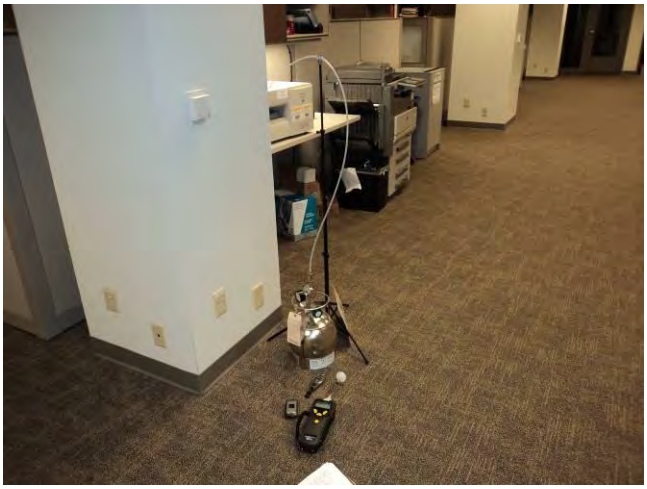
PHOTO #19 Building 1 – Sub-Basement – Main North-South Corridor – Freight Elevator – North Side of Q-Corridor Sample No. B1SB-R16-VOCs	
PHOTO #20 Building 1 – Sub-Basement – Former Mail Room Sample No. B1SB-W17-VOCs and Location of Duplicate VOC Sample	
PHOTO #21 Building 1 – Sub-Basement – VA Space – Southern Office – Before Q-Corridor Sample No. B1SB-R17-VOCs	

PHOTO #22 Building 1 – Sub-Basement – FEMA Office Space – By North Freight Elevator Sample No. B1SB-Y18-VOCs	
PHOTO #23 Building 1 – Sub-Basement – Main North-South Corridor – Freight Elevator – North End Sample No. B1SB-AA17-VOCs	
PHOTO #24 Outside – Building 1 – North Central Loading Dock Sample No. Ambient-North-VOCs	

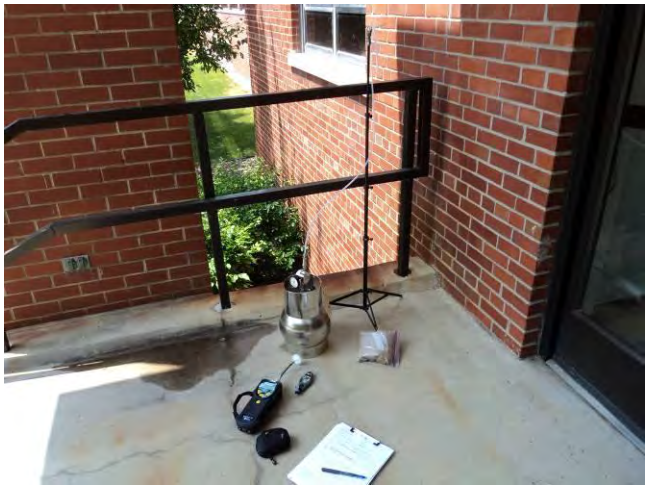
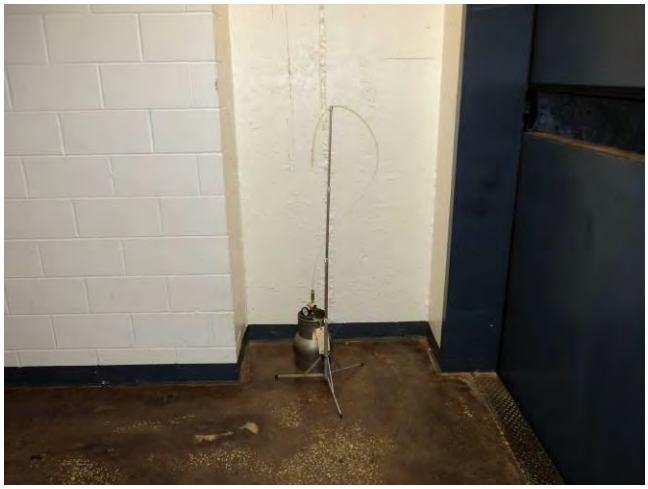
PHOTO #25 Outside – Building 1 – By Former Smoking Shelter Sample No. Ambient-West-VOCs	
PHOTO #26 Outside – Building 2 – West Entry Sample No. Ambient – South - VOCs	
PHOTO #27 Building 1 – Sub-Basement – DOD Office on Inspector General Sample No. B1SB-U17-VOCs	

PHOTO #28 Building 1 – Sub-Basement – East End of Q-Corridor – Utility Room – Cage Area Sample No. B1SB-P25-SS-VOCs	
PHOTO #29 Building 1 – Sub-Basement – Cafeteria Utility – North Room Sample No. B1SB-J19-SS-VOCs	
PHOTO #30 Building 1 – Department of Commerce Warehouse – Women's Restroom Sample No. B1-W8-RR-VOCs	

PHOTO #31 Building 1 – Sub-Basement – Main North/South Corridor – North Side of Q Corridor – Outside Freight Elevator Sample No. B1SB-R16ext-VOCs	
PHOTO #32 Building 1 – Department of Commerce Warehouse Sample No. B1-W8-WH-VOCs	

APPENDIX C

Field Logs

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B1SB-LS-SS-VOCs	B1b1-Sub Basement-Department of Commerce Warehouse-Former Shower Room
Collection Date	
7-29-11	
Collected By	**Facility**
WWK + CEE	Bannister Complex

Sample Type (check one)	Workload (check one)	Building
X Sub-slab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown	1

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 (%)
	12:12 on 7-29-11	13:12 on 7-29-11	60	—	29.22		
	Total Runtime / Volume						

Sampling Equipment: Suma RA 2273 Reg 7301142

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

Factors that Could Modify Results of this Sample

Sample Comments

regulator at 0 in. Hg
leak test at 12:08 on 7-29-11 0 ppm He
0 ppb PID
set canister open valve at 12:12 on 7-29-11 regulator at 27 in Hg
closed valve collected canister at 13:12 on 7-29-11 regulator at 3 in Hg

Photo 158-0546

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B1SB-P25-SS-VOCs	B1b1 - Sub Basement - East End of Q Corridor - Utility Room - Cage Area
Collection Date 7-29-11	
Collected By WLJK + TEE	**Facility** Bannister Complex

Sample Type (check one)	Workload (check one)	Building
X sub-slab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown	1

Exposure Type (check one)	Sample Placement (check one)	Exposure Estimate Method (check one)
X sub slab ☐ 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 (%)
	14:43 on	15:43 on	60	—	29.19 ~~27~~		
	7-29-11	7-29-11					
	Total Runtime / Volume						

Sampling Equipment: Suma RR 2239 Reg 7301138

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

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial 0 in Hg
Leak test
PID : ~~0.00 ppm~~ 0 ppb
He : 75 - 100 ppm
- Redo test
He : 25 ppm

- set canister opened valve at 14:43 on 7-29-11 regulator at 30 in Hg.
- closed valve collected canister at 1543 on 7-29-11 regulator at 4 in Hg

Threads on port could be cross-threaded based on fittings connecting sample train

Photo 158-0547

Field Sample Descriptions

Page ____ of ____

Field Sample ID B2B-OB27-SS-VOCs	General Sample Location Bldg - Basement - Unoccupied Office Space
Collection Date 7-29-11	
Collected By WJK + ESE TEE	Facility Bannister Complex
Sample Type (check one) x subslab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☒ Grab ☐ Peak ☐ STEL ☐ TWA	Sample Placement (check one) x Subslab ☐ 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 (%)
	1508 on 7-29-11	1608 on 7-29-11	60	—	29.18		
	Total Runtime / Volume						

Sampling Equipment: Suma HL2081 Reg 132439

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

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial 0.
Leak test He = 0 ppm
PID = 0 ppb

regulator @ 28"
closed valve collected canister at 16:08 regulator at 11 inHg

Note - Concrete cracked

Photo 158-0548

Field Sample Descriptions

Field Sample ID B1SB-A19-SS-VOCs	General Sample Location B101-SubBasement-Cafeteria-Utility-Far South Room
Collection Date 7-29-11	
Collected By WWK + TEE	Facility Bannister Complex
Sample Type (check one) X sub slab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☒ Grab ☐ Peak ☐ STEL ☐ TWA	Sample Placement (check one) X sub slab ☐ 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 (%)
	1534 on 7-29-11	1634 on 7-29-11	~~1500~~ 60	—	29.18		
	Total Runtime / Volume						
Work shift Information	Shift: ~1 hr	Shift Start	Shift End	Total Minutes ~60			

Sampling Equipment: Suma RA 2160; Reg F-C025

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial ~4
Leak test PID - 0 ppm helium 0 ppm
set canister open valve at 1534 regulator a ≥30
closed valve collected canister at 16:34 regulator at 14 in Hg

Photo 158-0549

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
Dup-SS-VOCs	B101 - SubBasement - Cafeteria Utility - Far South Room
Collection Date	
7-29-11	
Collected By	**Facility**
WLJK + TEE	Bannister Complex

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

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 (%)
	~~15:34~~ 15:34 on 7-29-11	~~16~~ 16:34 on 7-29-11	60	—	29.18		
	Total Runtime / Volume						

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

Sampling Equipment: Suma HL0972 Reg 00520

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial - 0
leak test PID 0ppm He 0ppm
open valve - 26 in Hg
9 in Hg

Photo

Field Sample Descriptions

Page ____ of ____

Field Sample ID B1SB-J19-SS-VOCs	General Sample Location B107-SubBasement-Cafeteria Utility-North
Collection Date 7-29-11	
Collected By WLWK + TEE	Facility Bannister Complex
Sample Type (check one) x subslab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☒ Grab ☐ Peak ☐ STEL ☐ TWA	Sample Placement (check one) x subslab ☐ 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 (%)
	1556 on 7-29-11	1656 on 7-29-11	60	—	29.18		
	Total Runtime / Volume						

Sampling Equipment: Suma RA0971; Reg A168475

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

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial - 0

Leak test

He > 20K ppm pid = 50 ppb

- Did not repeat test, as similar to prev. results

Reg @ 28" start

closed valve collected canister at 16:56 regulator at 11 in Hg.

Very slow fill - tight formation

Photo 158-0550

Field Sample Descriptions

Page ____ of ____

Field Sample ID B1SB-U19-SS-VOCs	General Sample Location B101 - SubBasement Fan Room 3B
Collection Date 7-29-11	
Collected By WWK + TEE	Facility Bannister Complex
Sample Type (check one) x sub slab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☒ Grab ☐ Peak ☐ STEL ☐ TWA	Sample Placement (check one) x sub slab ☐ 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 (%)
	1623 on 7-29-11	1834 on 7-29-11	131	—	29.17		
	Total Runtime / Volume						

Sampling Equipment
Suma 93289
Reg FC029

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

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial -1

Leak test
He = 175 ppm PID = 0.000 ppm

Reg @ >30 @ 1623
validity check at 1723 regulator at 22 in Hg
validity check at 17:57 regulator at 16 in Hg
closed valve - collected sample at 1834 - regulator at 10 in Hg

Photo 158-0551

Field Sample Descriptions

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Field Sample ID	General Sample Location
B1SB-K8-SS-VOCs	B1B1-Sub Basement-Former Shower Room (Hall)
Collection Date	
7-29-11	
Collected By	**Facility**
WWK + TEE	Bannister Complex

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

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 (%)
	1650 on 7-29-11	1750 on 7-29-11	60	—	29.15		
	Total Runtime / Volume						

Sampling Equipment
Suma KR 2385
Reg 7299282

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

Factors that Could Modify Results of this Sample

Sample Comments

initial regulator 2 in Hg
Leak test
He = 0 ppm PID = 0.00 ppm
Reg @ 730"
Closed valve collected canister at 1750 regulator at 6

Photo 168-0553

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B1SB-E23-SS-VOCs	B1d 1 - Sub Basement - GSA Warehouse - Former Shower Room
Collection Date: 7-29-11	
Collected By: WLJK + TEE	Facility: Bannister Complex

Sample Type (check one)	Workload (check one)	Building
x sub slab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown	1

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 (%)
	1719 on 7-29-11	1841 on 7-29-11	82	—	29.17		
	Total Runtime / Volume						

Sampling Equipment: Suma RA2379; Reg A133246

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

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial 0
Leak ck
He = 0ppm ATD = 0.00 ppm

Reg @ 30"
closed valve - collected canister at 1841 regulator at 6 in Hg.

Photo 158-0552

Field Sample Descriptions

Page ____ of ____

Field Sample ID: B1-W8-WH-VOCs ~~B1-W8-VOCs~~	General Sample Location: Bld 1 - Department of Commerce Warehouse –
Collection Date: 7-28-11 + 7-~~30~~ 29-11	
Collected By: LWK + TEE	Facility: Bannister Complex
Sample Type (check one): ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one): ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building: 1
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 (%)
	1219 on 7-28-11	9:53 on 7-~~30~~ 29-11	1294	—	29.08	~~85.2~~	
	Total Runtime / Volume						

Sampling Equipment: Suma 1363 Reg 7299272

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

Factors that Could Modify Results of this Sample

Sample Comments

~30" Hg @ 1219 pid . 0.00 ppm
set canister - open valve at 1219 on 7-28-11 30 in Hg
closed valve collected canister at 9:53 on 7-29-11 regulator at 2 in Hg.

VOID

canister filled early
regulator not properly calibrated

will rerun - sample

Photo 158 - 0544

Field Sample Descriptions

Field Sample ID B1SB-U17-VOCs	General Sample Location B101 - Sub Basement - DOD office of Inspector General
Collection Date 7-28-11	
Collected By LWWK + TEE	Facility Barrister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
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 (%)
	11:56 on 7-28-11	12:43 on 7-29-11	1487	—	29.09		
	Total Runtime / Volume						

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

Sampling Equipment
Suma 7486
Reg 7301111

Factors that Could Modify Results of this Sample

Sample Comments

PID 0.00 ppm
Set cannister open valve at 11:56 on 7-28-11 - regulator at 30 in Hg
validity check on 7-29-11 at 9:44 regulator at 16 in Hg
Closed valve collected canister at 12:43 on 7-29-11
regulator at 14 in Hg

Photo 158-0540, 158-0541

Field Sample Descriptions

Page ____ of ____

Field Sample ID B1 - W8-RRVOCs	General Sample Location Bldg 1 - Dept of Commerce womens Restroom
Collection Date 7-28-11 + 7-29-11	
Collected By WNK + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
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 (%)
	1214 on 7-28-11	12:29 on 7-29-11	1455	—	29.08	~~82.4~~	
	Total Runtime / Volume						

Sampling Equipment

Suma 6626

Reg 7300142

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

Factors that Could Modify Results of this Sample

Sample Comments

>30" Hg @ Start - 1214

pid . 0.00 ppm

set cannister open valve at 12:14 on 7-28-11 regulator at >30" Hg

validity check at 9:55 on 7-29-11 regulator at 16 in Hg

closed valve collected sample at 12:29 on 7-29-11 regulator at 12 in Hg

Photos 158-0542 + 0543

Field Sample Descriptions

Page ____ of ____

Field Sample ID B1SB-LW8-VOCs	General Sample Location Bld 1-Sub Basement-Department of Commerce Warehouse-Former Shower Room
Collection Date 7-28-11 + 7-29-11	
Collected By WWK + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
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 (%)
	1226 on 7-28-11	12:26 on 7-29-11	1440	—	29.10 ~~29.09~~	29.21 7/29	
	Total Runtime / Volume						

Sampling Equipment: Suma 1525 Reg 7343027

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

Factors that Could Modify Results of this Sample

Sample Comments

29" Hg @ 1226

PID = 0ppb 7/28 + 0ppb 7/29

set canister open valve at 12:26 on 7-28-11 regulator at 29 in Hg

validity check at 9:58 on 7-29-11 regulator at 8 in Hg

closed valve collected canister at 12:26 on 7-29-11 regulator at 5 in Hg

Photo 15-8-0545

Field Sample Descriptions

Field Sample ID B1SB-R16-VOCs	General Sample Location B101 - SubBasement - Main North/South Corridor - North Side of Q Corridor - Freight Elevator
Collection Date 7-29-11 + 7-30-11	
Collected By WWK + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
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 (%)
	1814 on 7-29-11	18:14 on 7-30-11	1440	–	29.17		
	Total Runtime / Volume						

Sampling Equipment: Suma HL0618 Reg 7343025

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

Factors that Could Modify Results of this Sample

Sample Comments

Reg @ 27" PID - 0.00 ppm

validity check at 12:42 on 7:30-11 regulator at 10 in Hg
1649 on 7/30/11 reg @ 7" Hg
closed valve - collected sample at 18:14 on 7-30-11 reg. at -4 in Hg

GW Sample collected @ 1813

Photo 15-8-0554

Field Sample Descriptions

Page ____ of ____

Field Sample ID B1SB-R16ext-VOCs	General Sample Location Bld 1 - Sub Basement - Main North/South Corridor - North Side of G Corridor - Outside Freight Elevator
Collection Date 7-29-11 + 7-30-11	
Collected By LWK + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
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 (%)
	1822 on 7-29-11	1822 on 7-30-11	1440	—	29.16		
	Total Runtime / Volume						

Sampling Equipment: Suma 969 Reg 7342987

Work shift Information	Shift: M24 MB	Shift Start	Shift End	Total Minutes 4/440

Factors that Could Modify Results of this Sample

Sample Comments

Reg @ 280 PID 0.00 ppm

validity check at 12:44 on 7-30-11 reg at 12 in Hg
1648 on 7/30/11 reg @ 9" Hg
1822 on 7/30/11 reg @ 6" Hg

158-0555

Field Sample Descriptions

Page ____ of ____

Field Sample ID B1SB-AA17-VOCS	General Sample Location B101 - SubBasement - Main North/ South Hall - Freight Elevator - North End
Collection Date 7-29-11 + 7-30-11	
Collected By LLWK + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 1
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 (%)
	~~29.16~~ 1830 on 7-29-11	17:20 on 7-30-11	1370	—	29.16		
	Total Runtime / Volume						
Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440			

Sampling Equipment: Suma RA2229 Reg 7300149

Factors that Could Modify Results of this Sample

Sample Comments

Reg @ 27" PID 0.00 ppm

validity check at 12:36 on 7-30-11 reg at 9 in Hg
validity check at 16:20 on 7-30-11 reg at 5 in Hg.
closed valve collected canister at 17:20 on 7-30-11 reg. at -4 in Hg

Photo 158 - 0556

Field Sample Descriptions

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Field Sample ID B1SB-R10-VOCs	General Sample Location B101 - SubBasement - West Part of Q Corridor - Passenger Elevator
Collection Date 7-29-11 & 7-30-11	
Collected By WWK + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
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 (%)
	18:30 on 7-29-11	1818 on 7-30-11	1428	—	29.27		
	Total Runtime / Volume						

Sampling Equipment: Suma RA 2303 Reg 7342868

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

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial 0 PID - 0.00 ppm

set canister opened valve at 18:30 on 7-29-11 regulator at -29 in Hg

validity check at 12:47 on 7-30-11 reg at - 12 in Hg

1652 on 7/30/11 reg @ 9" Hg

1818 on 7/30/11 reg @ 7" Hg

- pulled prior to 1830 to turn on elevator

Photo 158 - 0564

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B15B - E23-VOCs	B1 1 - Sub Basement - BSA Warehouse - Former Shower Room
Collection Date	
7-29-11 & 7-30-11	
Collected By	**Facility**
WWK & TEE	Bannister Complex
Sample Type (check one)	**Workload (check one)** / **Building**
☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown / 1
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 (%)
	1901 on 7-29-11	1836 on 7-30-11	1414	—	29.17		
	Total Runtime / Volume						

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

Sampling Equipment: Suma RA2301 Reg 7229273

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial ~4
PID @ 0.00 ppm
Reg @ 30
validity check at 13:27 on 7-30-11 reg. at -13 in Hg
1705 on 7/30/11 reg at ~~9" Hg~~ 10
1836 on 7/30/11 reg @ 8 Hg

- reg @ 8. Started @ 4"; therefore 4" remaining

Photo 158-0569

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B2B-0327-VOCs	Bld 2 - Basement - Unoccupied Office Space
Collection Date	
7-29-11 + 7-30-11	
Collected By	**Facility**
WWK + ~~esc~~ TEE	Bannister Complex

Sample Type (check one)	Workload (check one)	Building
☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown	2

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 (%)
	~~1901~~ 1908 on 7-29-11	1908 on 7-30-11	1440	—	~~29.16~~ 29.19		
	Total Runtime / Volume						

Sampling Equipment: Suma HL 0930 Reg 7343492

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

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial ~4

PID 50.00 ppm

Reg @ 30

validity check at 13:32 on 7-30-11 regulator at -16 in Hg

validity check at 16:30 on 7-30-11 reg. at -13 in Hg

Reg @ 9 (5" from baseline)

Photo 158-0570

Field Sample Descriptions

Page ____ of ____

Field Sample ID: B1SB-P25-VOCs	General Sample Location: BB1 - SubBasement - East End of Q Corridor - Utility Room - Cage Area
Collection Date: 7-29-11 + 7-30-11	
Collected By: LLJK + TEE	Facility: Bannister Complex
Sample Type (check one): ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Building: 1
Workload (check one): ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	
Exposure Type (check one): ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	Exposure Estimate Method (check one): ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)
Sample Placement (check one): ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	1917 on 7-29-11	1917 on 7-30-11	1440	—	29.17		
	Total Runtime / Volume						

Sampling Equipment: Suma RA 2127 Reg 7299277

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

Factors that Could Modify Results of this Sample

Sample Comments

reg initial ~3
Reg @ >30
PID 0.00 ppm
set canister opened value at 1917 on 7-29-11 regulator at >30
validity check at 12:07 on 7-30-11 regulator at 17
validity check at 16:40 on 7-30-11 reg. at 12
closed value collected canister at 1917 on 7-30-11 reg. at ~9 inHg

Photo 158-0559

Field Sample Descriptions

Field Sample ID B1SB-U19-VOCs	General Sample Location B1D1 - SubBasement - FanRoom3B
Collection Date 7-29-11 + 7-30-11	
Collected By WLWK + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
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 (%)
	19:28 on 7-29-11	19:28 on 7-30-11	1440		29.27		
	Total Runtime / Volume						

Sampling Equipment
Suma 260
Reg 7300954

Work shift Information	Shift:	Shift Start	Shift End	Total Minutes

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial - ~1 PID - 0.00 ppm
set canister opened valve at 19 28 on 7 29-11 regulator at 30 in Hg
validity check at 12:13 on 7-30-11 regulator at 14 in Hg
validity check at 16:48 on 7-30-11 reg. at 10 in Hg
closed valve collected canister at 19:28 on 7-30-11 - reg. at -6 in Hg

Photo 158-0860

Field Sample Descriptions

Page ____ of ____

Field Sample ID B2B-OD8-VOCs	General Sample Location Bld2 - Basement - Pump Room #8
Collection Date 7-29-11 + 7-30-11	
Collected By WLWK + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 2
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 (%)
	1930 on 7-29-11	1930 on 7-30-11	1440	—	29.17		
	Total Runtime / Volume						
Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440			

Sampling Equipment
Suma 5424
Reg 7300138

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial 0

PID @ 0.00 ppm
validity check at 13:39 on 7-30-11 - reg - at -10 in Hg
1628 on 7/30/11 - reg @ 8" Hg
1930 on 7/30/11 - reg @ 4" Hg

Photo 158-0571

Field Sample Descriptions

Field Sample ID: B1SB-LW17-VOCs	General Sample Location: B1B1 - SubBasement - Former Mail Room
Collection Date: 7-29-11 + 7-30-11	
Collected By: LWK + TEE	Facility: Bannister Complex
Sample Type (check one): ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one): ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building: 1
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 (%)
	19:32 on 7-29-11	19:32 on 7-30-11	1440	—	29.27		
	Total Runtime / Volume						

Sampling Equipment: Suma #2410; Reg 734 3485

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

Factors that Could Modify Results of this Sample

Sample Comments

regulator in-flow ~2 PID - 0.00 ppm

Set canister opened valve at 1932 on 7-29-11 regulator >30

validity check at 12:17 on 7-30-11 reg at 15 in Hg

Validity check at 16:50 on 7-30-11 reg - at ~10 in Hg

closed valve collected canister at 19:32 on 7-30-11 reg. at 8

Photo 158 - 0561

Field Sample Descriptions

Page ____ of ____

Field Sample ID: Dup-UOCs	General Sample Location: Bld 1 - Sub Basement - Former Mail Room
Collection Date: 7-29-11 & 7-30-11	
Collected By: WWK & TEE	Facility: Bannister Complex
Sample Type (check one): ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one): ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building: 1
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 (%)
	19:32 on 7-29-11	1932 on 7-30-11	~~1610~~ 1440	—	29.27		
	Total Runtime / Volume						
Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440			

Sampling Equipment: Suma HL0961 Reg 7301037

Factors that Could Modify Results of this Sample

Sample Comments

reg initial ~2 PID 0.00ppm
set canister open valve reg. >30
validity check 15 in Hg
validity check 10 in Hg
final reg 8 in Hg

Photo 158-0561

Field Sample Descriptions

Page ____ of ____

Field Sample ID B1SB-KS-VOCs	General Sample Location B101-Sub Basement - Former Shower Room (Hall)
Collection Date 7-29-11 & 7-30-11	
Collected By WLJK & ESTEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 1
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 (%)
	1938 on 7-29-11	1312 on 7-30-11	1054	—	29.15		
	Total Runtime / Volume						

Sampling Equipment
Suma 6588
Reg 7343248

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

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial 0
Reg @ 28"
PID @ 0.00 ppm
closed valve - collected canister at 1312 on 7-30-11 reg at -4 in Hg

Photo 158-0568

Field Sample Descriptions

Page ____ of ____

Field Sample ID B1SB-Y18-VOCs	General Sample Location B101 - SubBasement - FEMA Office Space - By North Freight Elevator
Collection Date 7-29-11 + 7-30-11	
Collected By WWK + TEE	Facility Barrister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
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 (%)
	1941 on 7-29-11	1944 on 7-30-11	1443	—	29.27		
					Sampling Equipment Summa 5477 Reg 7343491		
	Total Runtime / Volume						
Work shift Information	Shift: 24hrs	Shift Start	Shift End	Total Minutes ~1440			

Factors that Could Modify Results of this Sample

Sample Comments

reg initial >0 PID - 0.01 ppm
set canister opened valve at 1941 on 7-29-11 reg at 26 in Hg
validity check at 12:30 on 7-30-11 reg. at 14 in Hg
validity check at 16:53 on 7-30-11 reg. at 9 in Hg
closed valve - collected canister at 1944 on 7-30-11 - reg. at -6 in Hg

Photo 158-0563 ?

Field Sample Descriptions

Page ____ of ____

Field Sample ID B1SB-R17-VOCS	General Sample Location B1D1- SubBasement- UA Space- Southern Office - Before @ Corridor
Collection Date 7-29-11 + 7-30-11	
Collected By WWK + ESTEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 1
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 (%)
	1950 on 7-29-11	1940 on 7-30-11	1430		29.18		
			—				
	Total Runtime / Volume						
Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440			

Sampling Equipment
Suma 7508
Reg 7300952

Factors that Could Modify Results of this Sample

Sample Comments

reg initial 0
Reg @ 28"
PID @ 0.00 ppm
set canister opened valve at 1950 on 7-29-11 regulator at 28
validity check at 12:25 on 7-30-11 regulator at -11 in Hg
validity check at 16:55 on 7-30-11 regulator at 7 in Hg
closed valve - collected canister at 1940 on 7-30-11
reg. at -4 in Hg.

Photo 158-0562 ?

Field Sample Descriptions

Field Sample ID B1SB-A19-VOCs	General Sample Location B1D1-SubBasement-Cafeteria Utility-Far South Room
Collection Date 7-29-11 & 7-30-11	
Collected By LWK & TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
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 (%)
	1951 on 7-29-11	1951 on 7-30-11	1440		29.25		
	Total Runtime / Volume						
Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440			

Sampling Equipment

Suma HL2097

Reg 7289097

Factors that Could Modify Results of this Sample

Sample Comments

regulator inital 0 PID 0.00ppm
set canister opened valve at 1951 on 7-29-11 reg at 29
validity check at 13:04 on 7-30-11 reg. at -12 in Hg
validity check at 17:01 on 7-30-11 reg at -8 in Hg
closed valve - collected canister at 1951 on 7-30-11 reg. at 4

Photo 158-0567

Field Sample Descriptions

Page ____ of ____

Field Sample ID B1SB-J19-VOCs	General Sample Location B1 1- SubBasement- Cafeteria Utility - North
Collection Date 7-29-11 & 7-30-11	
Collected By WWK & TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 1
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 (%)
	1953 on 7-29-11	1703 on 7-30-11	1270	—	29.25		
	Total Runtime / Volume						

Sampling Equipment: Suma HL 0800 Reg 7299278

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

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial less than 0 PID-0.00 ppm
set canister opened valve at 1953 on 7-29-11 reg at -25 in Hg
validity check at 13:00 on 7-30-11 regulator at -8 in Hg
closed valve - collected canister at 1703 on 7-30-11 reg at -4 in Hg

Photo 158-0566

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B1SB-R2-UOCS	B1D1-SubBasement-West End of Q Corridor-Fan Room 1B
Collection Date	
7-29-11 + 7-30-11	
Collected By	**Facility**
LWK + TEE	Bannister Complex

Sample Type (check one)	Workload (check one)	Building
☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown	1

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 (%)
	2000 on 7-29-11	2000 on 7-30-11	1440	—	29.18		
	Total Runtime / Volume						

Sampling Equipment: Suma 252 Reg 549937 ~~5499937~~

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

Factors that Could Modify Results of this Sample

Sample Comments

regulator initial ~4
Reg @ >30
PID 0.00 ppm
validity check at 1252 on 7-30-11 reg - at -16 in Hg
1655 on 7/30/11 reg @ 12" Hg

Reg @ 9" Hg @ 2000
(5" from initial)

Photo 158-0565

Field Sample Descriptions

Field Sample ID: Ambient-North-VOCs	General Sample Location: Outside - Bld 1 - North Central Loading Dock
Collection Date: 7-29-11 + 7-30-11	
Collected By: LWK + TEE	Facility: Barrister Complex
Sample Type (check one): ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one): ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building: 1
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 (%)
	2020 on 7-29-11	1954 on 7-30-11	1414	—	29.21		
	Total Runtime / Volume						
Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440			

Sampling Equipment: Suma 6389; Reg 7300105

Factors that Could Modify Results of this Sample

Sample Comments

reg initial ~2 PID - 0.00 ppm
set canister open valve at 20:20 on 7-29-11 reg. at -30 in Hg
validity check at 1358 on 7-30-11 reg. at -12 in Hg
validity check at 16:00 on 7-30-11 reg at -10 in Hg

Reg @ 6 ~~then~~ when stopped (4")

Photo 158-0574

Field Sample Descriptions

Field Sample ID: Ambient-West-VOCs	General Sample Location: Outside - Bld 1 - By Former Smoking Shelter
Collection Date: 7-29-11 + 7-30-11	
Collected By: LWK + TEE	Facility: Bannister Complex
Sample Type (check one): ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one): ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building: 1
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 (%)
	2023 on 7-29-11	1611 on 7-30-11	1188	—	29.22		
	Total Runtime / Volume						
Work shift Information	Shift: 24hrs	Shift Start	Shift End	Total Minutes ~1440			

Sampling Equipment: Suma 5446

Reg ~~7340605~~ 7340650

Factors that Could Modify Results of this Sample

Sample Comments

reg initial <0 PID. 0.00ppm

set canister open valve at 2023 on 7-29-11 reg. at -28 in Hg

validity check at 17:50 on 7-30-11 reg. at -6 in Hg

closed valve collected sample 1611 on 7-30-11 reg. at -2 in Hg

Photo 158-0573

Field Sample Descriptions

Field Sample ID: Ambient-South-VOCs	General Sample Location: Outside - Bld2 - West Entry
Collection Date: 7-29-11 + 7-30-11	
Collected By: WWK + TEE	Facility: Bannister Complex
Sample Type (check one): ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one): ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building: 2
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 (%)
	2027 on 7-29-11	2011 on 7-30-11	1424	—	29.22		
	Total Runtime / Volume						
Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440			

Sampling Equipment: Suma HL0889 Reg 550289B

Factors that Could Modify Results of this Sample

Sample Comments

reg initial ~1 PID - 0.00ppm
set canister - opened valve at 2027 on 7-29-11 reg. at -30 Hg
validity check at 13:43 on 7-30-11 reg at -13 in Hg
1700 on 7/30/11 reg @ 9" Hg
1845 on 7/30/11 reg @ 7" Hg
1933 on 7/30/11 reg @ 7" Hg
2011 on 7/30/11 reg @ 6" Hg

Photo 158-0572

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
B1-W8-WH-VOCs	Bldg 1 Dept of Commerce warehouse
Collection Date	
8-1-11 + 8-2-11	
Collected By	**Facility**
TEE	Bannister Complex

Sample Type (check one)	Workload (check one)	Building
☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown	1

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 (%)
	11:01 on 8-1-11	11:01 on 8-2-11	1440	—	29.15		
	Total Runtime / Volume						

Sampling Equipment: Suma 5458; Reg 7300971

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

Factors that Could Modify Results of this Sample

Sample Comments: reg initial - 0 PID 0.00 ppm

set canister - opened valve at 11:01 on 8-1-11 reg. at -30 in Hg
validity check at 9:06 on 8-2-11 regulator at -7 in Hg
validity check at 10:12 on 8-2-11 reg at -6 in Hg
closed valve collected canister at 11:01 on 8-2-11 reg at -4 in Hg.

Photo 158-0575

Field Sample Descriptions

Page ____ of ____

Field Sample ID VOCs-Blank	General Sample Location —
Collection Date 7-29-11	
Collected By WWK + TEE	Facility Bannister Complex
Sample Type (check one) ☐ Area ☒ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) X Blank ☐ Light ☐ Normal ☐ Heavy ☐ Unknown
	Building —
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) X Blank ☐ 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 101		
	Total Runtime / Volume						
Work shift Information	Shift: —	Shift Start	Shift End —	Total Minutes			

Factors that Could Modify Results of this Sample

Sample Comments

Field Sample Descriptions

Field Sample ID: VOCs-Blank	General Sample Location: —
Collection Date: 7-30-11	
Collected By: LWK + TEE	Facility: Bannister Complex
Sample Type (check one): ☐ Area ☒ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one): xBlank ☐ Light ☐ Normal ☐ Heavy ☐ Unknown	Building: —
Exposure Type (check one): ☒ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☐ TWA	Sample Placement (check one): xBlank ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☐ General breathing zone	Exposure Estimate Method (check one): xBlank ☐ 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 6666		
	Total Runtime / Volume						
Work shift Information	Shift: —	Shift Start	Shift End	Total Minutes —			

Factors that Could Modify Results of this Sample

Sample Comments

Field Sample Descriptions

Page ____ of ____

Field Sample ID	General Sample Location
VOCs-Blank	—
Collection Date	
8-2-11	
Collected By	**Facility**
LWK + TEE	Bannister Complex

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

Exposure Type (check one)	Sample Placement (check one)	Exposure Estimate Method (check one)
☒ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☐ TWA	x Blank ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☐ General breathing zone	x Blank ☐ 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 239		
	Total Runtime / Volume						

Work shift Information	Shift: —	Shift Start	Shift End	Total Minutes —

Factors that Could Modify Results of this Sample

Sample Comments

Terracon

APPENDIX D

Analytical Tables

Table 1
Analytical Data Summary for Building 1 and 2 - Sub-Slab VOCs
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B1SB-P25-SS-VOCs				Dup-SS-VOCs (B1SB -P25-SS)	B1SB-U19-SS-VOCs			B1SB-K8-SS-VOCs			B2B-OB27-SS-VOCs			B1SB-W8-SS-VOCs			B1SB-J19-SS-VOCs			B1SB-A19-SS-VOCs			Dup-SS-VOCs (B1SB -A19-SS)		B1SB-E23-SS-VOCs			Dup-SS-VOCs (B1SB-E23-SS)	Blank-SS-VOCs	VOCs-Blank			Screening Levels	
	Sub-Slab Air Samples																														Blank Results			Cancer Risk = 1E-06	Non-Cancer HQ = 0.1
Sample Date	1/21/2011	4/22/2011		7/29/2011	1/21/2011	1/21/2011	4/22/2011	7/29/2011	1/21/2011	4/22/2011	7/29/2011	1/21/2011	4/22/2011	7/29/2011	1/26/2011	4/22/2011	7/29/2011	1/28/2011	4/22/2011	7/29/2011	1/28/2011	4/22/2011	7/29/2011	4/22/2011	7/29/2011	1/28/2011	4/22/2011	7/29/2011	1/28/2011	1/28/2011	1/21/2011	4/21/2011	7/29/2011		
Chlorodifluoromethane	2.08 J	1.92 J	2.23 J		2.1 J	2.24 J	2.27 J	36.4	1.18 J	1.59 J	2.33 J	1.14 J	1.82 J	4.3 J	16.3	14.4	13.5	66.5	103	213	27.9	227 RA	31.4	214 RA	31	8.36	16.6	70.8	8.05	ND	ND	ND	ND	NE	175200
Dichlorodifluoromethane	2.23 J	3.16 J	2.34 J		2.27 J	2.27 J	2.8 J	2.89 J	2.23 J	2.94 J	2.57 J	2.16 J	2.86 J	2.92 J	2.41 J	3.5 J	2.4 J	2.62 J	2.78 J	2.88 J	2.16 J	2.91 J	2.84 J	2.75 J	2.83 J	2.34 J	3.15 J	3.66 J	2.39 J	ND	ND	ND	ND	NE	700
Chloromethane	ND	0.407 J	0.892 J		0.757 J	ND	0.79 J	0.39 J	ND	0.619 J	ND	ND	0.37 J	ND	0.345 J	0.828 J	0.407 J	1.11 J	1.95 J	1.12 J	ND	0.375 J	ND	0.236 J	ND	0.521 J	0.32 J	0.252 J	ND	ND	ND	ND	ND	NE	320
1,2-Dichloro-1,1,2,2-tetrafluoroethane*	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	105120
Vinyl chloride	ND	ND	ND		ND	0.877 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.39 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	22	350
1,3-Butadiene	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.148 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3	7
Butane	ND	ND	ND		ND	0.256 J	0.973 J	0.332 J	0.197 J	0.326 J	0.367 J	ND	0.3 J	ND	25	29.8	30.2	13.2	9.34	2.63 J	0.248 J	0.19 J	ND	0.24 J	ND	10.2	14.2	6.67	9.05	0.153 J	ND	ND	0.129 J	NE	2450
Bromomethane	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	17.5
Chloroethane	ND	ND	ND		ND	ND	0.381 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	35040
Acetonitrile	ND	0.188 J	ND		ND	ND	0.576 J	ND	ND	0.2 J	ND	ND	ND	ND	ND	0.233 J	ND	0.302 J	1.09 J	0.579 J	ND	2.15	ND	ND	ND	0.33 J	0.529 J	ND	ND	ND	ND	ND	ND	NE	210
Trichlorofluoromethane	1.45 J	1.73 J	1.46 J		1.43 J	1.51 J	1.65 J	1.8 J	1.51 J	1.54 J	1.45 J	1.47 J	1.82 J	2.38 J	1.7 J	1.83 J	1.84 J	2.27 J	2.09 J	2.02 J	1.5 J	1.64 J	1.58 J	1.62 J	1.6 J	1.77 J	2.03 J	2.21 J	2.82 J	ND	ND	ND	ND	NE	2450
Acetone	5.26 B	14.6 B	6.4		13 B	5.52 B	34.8 B	11.6	3.23 B	15.9 B	12.1 B	2.77 B	14.2 B	4.15	8.55 B	12.7 B	8.78	56.3 B	78.7 B	62.4 B	5.57 B	32.8 B	4.46 B	10.3 B	2.52 J, B	18.2 B	19.9 B	11 B	6.62 B	0.407 J, B	0.105 J, B	0.392 J, B	ND	NE	108620
Acrylonitrile	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	7
n-Pentane	1.58 J	1.25 J	ND		1.76 J	0.539 J	1.51 J	0.684 J	1.18 J	1.08 J	ND	ND	1.76 J	0.706 J	13.5	13.4	10.4	1.34 J	2.84 J	1.25 J	0.607 J	0.454 J	ND	1.12 J	ND	4.29	6.23	1.89 J	3.98	0.892 J	ND	0.139 J	0.186 J	NE	3500
Diethyl ether*	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
1,1-Dichloroethene	ND	ND	ND		ND	ND	ND	0.511 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	8410
Methylene chloride	ND	ND	ND		ND	ND	0.409 J	0.713 J	ND	0.313 J	0.241 J	ND	ND	ND	ND	0.37 J	ND	0.321 J	0.455 J	0.385 J	ND	ND	ND	0.286 J	ND	0.578 J	ND	ND	0.318 J	ND	ND	ND	ND	210	3500
Carbon disulfide	ND	ND	ND		ND	0.63 J	7.19	4.58	0.333 J	ND	0.371 J	ND	0.96 J	ND	2.01 J	2.48 J	1.7 J	3.18 J	4.08	2.21 J	0.916 J	1.06 J	ND	1.9 J	ND	1.55 J	3.58	1.19 J	1.87 J	ND	ND	ND	ND	NE	2450
Allyl chloride*	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
1,1,2-Trichlorotrifluoroethane	ND	0.607 J	ND		ND	ND	0.606 J	ND	ND	ND	ND	ND	0.614 J	ND	ND	0.664 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.661 J	0.99 J	0.847 J	ND	ND	ND	ND	ND	NE	105120
trans-1,2-Dichloroethene	ND	ND	ND		ND	3.13 J	11.3	70.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	210
1,1-Dichloroethane	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	61	70080
Methyl tert-Butyl Ether	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	380	10510
Vinyl acetate	ND	1.29 J	ND		ND	ND	3.4 J	1.3 J	ND	1.13 J	1.18 J	ND	1.16 J	ND	0.61 J	ND	0.839 J	1.02 J	1.8 J	1.66 J	0.57 J	2.69 J	0.566 J	1.13 J	ND	1.94 J	ND	1.46 J	ND	ND	ND	ND	ND	NE	700
2-Butanone (MEK)	0.409 J	1.98 J	0.718 J		1.15 J	0.513 J	7.04	1.98 J	0.419 J	2.03 J	1.11 J	0.369 J	2.16 J	0.591 J	1.15 J	1.97 J	1.16 J	4.49	8.42 B	4.89	0.617 J	6.23 B	0.516 J	1.78 J, B	ND	1.63 J	1.32 J	1.72 J	0.88 J	ND	ND	ND	ND	NE	17520
cis-1,2-Dichloroethene	ND	ND	ND		ND	127	15.6	71.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.17 J	3 J	0.721 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	210
Hexane	ND	ND	ND		ND	ND	0.383 J	ND	ND	ND	ND	ND	ND	ND	1.1 J	0.944 J	1.28 J	ND	ND	ND	ND	ND	ND	ND	ND	0.63 J	0.976 J	ND	0.51 J	ND	ND	ND	ND	NE	2450
Chloroform	ND	ND	ND		ND	ND	0.472 J	3.16 J	ND	ND	ND	1.56 J	5.83	1.15 J	ND	0.441 J	0.405 J	4.05 J	1.94 J	ND	1.91 J	2.28 J	11.5	2.1 J	11.4	ND	0.547 J	0.749 J	ND	ND	ND	ND	ND	4.3	340
1,2-Dichloroethane	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8	NE
1,1,1-Trichloroethane	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.467 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	17520
Benzene	ND	ND	I2	ND	ND	ND	0.737 J	0.645 J	ND	ND	ND	ND	ND	ND	1.28 J	1.47 J	1.86 J	0.738 J	0.807 J	0.479 J	ND	4.78	ND	ND	ND	0.81 J	1.2 J	0.895 J	0.853 J	ND	ND	ND	ND	13	110
Carbon tetrachloride	0.776 J	0.809 I2, J	ND		0.758 J	0.727 J	0.539 J	ND	0.82 J	0.652 J	1.1 J	ND	ND	ND	0.613 J	0.569 J	ND	0.823 J	0.615 J	ND	0.668 J	0.576 J	1.05 J	0.618 J	1.01 J	0.723 J	0.606 J	1.06 J	0.744 J	ND	ND	ND	ND	61	70080
Cyclohexane	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.711 J	0.872 J	1.71 J	ND	0.601 J	ND	ND	ND	ND	ND	ND	ND	0.276 J	ND	ND	ND	ND	ND	ND	NE	21020
1,2-Dichloropropane	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8	14
Bromodichloromethane	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.767 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7	NE
Trichloroethene	0.416 J	0.464 I2, J	0.526 J		0.381 J	***49.3***	***30.5***	***1100*** RA, H2	ND	ND	ND	ND	ND	ND	***13.4***	***21.7***	***28.2***	0.748 J	1.25 J	1.81 J	2.45 J	3.68 J	4.76 J	3.45 J	4.83 J	***22.2***	***19.8***	***30.1***	***22.3***	ND	ND	ND	ND	24	7
Heptane	ND	ND I2	ND		ND	ND	0.299 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.486 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17 J	NE	2450
cis-1,3-Dichloropropene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	70
4-Methyl-2-pentanone (MIBK)	ND	ND I2	ND		ND	ND	0.635 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.74 J	1.06 J, B	0.72 J	ND	0.589 J, B	ND	0.384 J, B	ND	ND	1 J	ND	ND	ND	ND	ND	ND	NE	10510
trans-1,3-Dichloropropene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	70
1,1,2-Trichloroethane	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1	NE
Toluene	0.937 J	0.736 I2, J	ND		0.902 J	0.53 J	0.471 J	0.376 J	0.536 J	0.921 J	ND	0.344 J	1.37 J	ND	2.95 J	3.53 J	3.72 J	3.76 J	3.59 J	5.3 J	0.905 J	0.526 J	ND	0.819 J	ND	1.72 J	3.35 J	3 J	1.52 J	0.139 J	ND	0.169 J	ND	NE	17520
2-Hexanone	ND	0.692 I2, J	ND		ND	ND	2.09 J	ND	ND	0.302 J	ND	ND	0.548 J	ND	ND	0.694 J	ND	ND	3.18 J, B	2.61 J	ND	1.02 J, B	ND	0.326 J, B	ND	ND	0.86 J	ND	ND	ND	ND	ND	ND	NE	110
Chlorodibromomethane	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7	NE
1,2-Dibromoethane (EDB)	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	32
n-Octane	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.509 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	2450
Tetrachloroethene	ND	ND I2	ND		ND	ND	ND	1.28 J	ND	ND	ND	0.362 J	0.533 J	ND	2.04 J	2.28 J	3.35 J	ND	ND	ND	1.24 J	1.83 J	1.68 J	1.89 J	1.71 J	0.566 J	0.643 J	0.69 J	0.452 J	ND	ND	ND	ND	17	950
Chlorobenzene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	180
Ethylbenzene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.446 J	ND	1.3 J	1.78 J	1.81 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39	3500
m-Xylene & p-Xylene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.13 J	1.71 J	2.3 J	3.8 J	4.87 J	3.94 J	ND	ND	ND	ND	ND	ND	0.817 J	ND	ND	ND	ND	ND	ND	NE	350
Bromoform	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	89	NE
Styrene	1.8 J	ND I2	ND		1.83 J	ND	ND	ND	0.96 J	ND	ND	0.629 J	ND	ND	2.18 J	0.616 J	ND	16.3	7.84	6.73	1.6 J	ND	ND	ND	ND	0.991 J	0.64 J	ND	ND	ND	ND	ND	ND	NE	3500
1,1,2,2-Tetrachloroethane	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	NE
o-Xylene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	1.49 J	2.56 J	1.48 J	1.6 J	1.36 J	ND	ND	ND	ND	ND	ND	0.55 J	0.545 J	ND	ND	ND	ND	ND	NE	350
n-Nonane	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.474 J	2.96 J	ND	0.95 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	700
Isopropylbenzene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.736 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1400
n-Propylbenzene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	3500
1,3,5-Trimethylbenzene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.44 J	3.61 J	4.88 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.424 J	ND	ND	ND	ND	ND	ND	NE	25
1,2,4-Trimethylbenzene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.98 J	3.01 J	3.41 J	3.24 J	1.21 J	1.45 J	ND	ND	ND	ND	ND	ND	0.637 J	0.315 J	0.335 J	ND	ND	ND	ND	NE	25
Benzyl chloride	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	3.5
1,3-Dichlorobenzene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.622 J	ND	ND	ND	ND	ND	ND	8.9	700
n-Decane	ND	ND I2	ND		ND	ND	0.566 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.3	8.35	5.67 J	ND	ND	ND	ND	ND	ND	0.784 J	ND	ND	ND	ND	ND	ND	NE	2450
1,4-Dichlorobenzene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.951 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.31 J	6.74	6.31	ND	ND	ND	ND	ND	8.9	2800
1,2-Dichlorobenzene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.995 J	ND	ND	ND	ND	ND	ND	NE	700
n-Undecane	ND	ND I2	ND		ND	ND	0.306 J	ND	ND	ND	ND	ND	ND	ND	1.58 J	0.667 J	ND	22.5	6.88	5.91 J	ND	ND	ND	ND	ND	ND	0.561 J	ND	ND	ND	ND	ND	ND	NE	2450
1,2,4-Trichlorobenzene	ND	0.655 I2, J, B	ND		ND	ND	0.792 J, B	ND	ND	ND	ND	ND	0.686 J, B	ND	ND	1.21 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1 J, B	ND	ND	ND	ND	ND	ND	NE	7
Naphthalene	ND	0.809 I2, J, B	ND		ND	ND	0.95 J, B	ND	ND	ND	ND	ND	0.793 J, B	ND	ND	1.75 J, B	ND	3.04 J	ND	ND	ND	ND	ND	ND	ND	ND	4.86 J, B	ND	ND	ND	ND	ND	ND	2.9	11
Hexachlorobutadiene	ND	ND I2	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.971 J, B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04 J, B	ND	ND	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.

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 reporting or method detection limit.
B = Method Blank Contamination. The associated method blank contains the target analyte at a reportable level.
RA = Results are from a second analysis of the sample.
R4= Due to the low levels of analyte in sample, the duplicate RPD calculation does not provide useful information
H2= Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
I2= Internal standard chlorobenzene-d5 was recovered low in the initial analysis potentially adding positive bias. Affected samples were re-analyzed with comparable results.
* = Site Specific Risk-Based Screening Levels Are Not Available for These Compounds
Concentration = Indicates identified concentration is greater than Cancer SSSL
Concentration = Indicates identified concentration is greater than Non-Cancer SSSL
Concentration = Indicates identified concentration is greater than Cancer SSSL and Non-Cancer SSSL

Table 2A
Analytical Data Summary for Building 1 and 2 - Indoor and Outdoor Air VOCs
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B1SB-W17-VOCs	Dup-VOCs (B1SB-W17)	B1SB-R10-VOCs (1)	B1SB-R16-VOCs (1)	B1SB-AA17-VOCs (1)	B2B-OB27-VOCs	B1SB-U19-VOCs	B1SB-P25-VOCs	B1SB-R2-VOCs	Ambient-South-VOCs	Ambient-North-VOCs	Ambient-West-VOCs	VOCs-Blank	Screening Levels		Maximum Detection	Cancer Risk (Based On Max Detection)	Non-Cancer Risk (Based On Max Detection)
	Indoor Air									Outdoor Air			Blank	Cancer Risk = 1E-06	Non-Cancer HQ = 0.1			
Sample Date	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011					
Chlorodifluoromethane	124	124	40.6	146	9570 RA, H2	13.3	303 RA, H2	80	34	4.15	4.56	3.85	ND	NE	17520	9570	NE	5.46E-02
Dichlorodifluoromethane	2.85 J	2.75 J	3.38 J	3.17 J	9.56	8.51	2.92 J	7.42	2.85 J	2.3 J	2.74 J	2.53 J	ND	NE	70	9.56	NE	1.37E-02
Chloromethane	1.02 J	0.981 J	1.36 J	1.05 J	1.76 J	0.997 J	1.18 J	0.981 J	1.07 J	1.39 J	1.71 J	1.45 J	ND	NE	32	1.76	NE	5.50E-03
1,2-Dichloro-1,1,2,2-tetrafluoroethane*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	10512	ND	ND	ND
Vinyl chloride	1.1 J	1.14 J	ND	47.2	1.67 J	ND	1.94 J	ND	ND	ND	ND	ND	ND	2.2	35	47.2	2.15E-05	1.35E-01
1,3-Butadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	0.7	ND	ND	ND
Butane	1.67 J	1.52 J	3.82	1.66 J	17.6	1.81 J	3.31	1.35 J	2.49 J	0.509 J	0.61 J	0.504 J	ND	NE	245	17.6	NE	7.18E-03
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1.75	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	3504	ND	ND	ND
Acetonitrile	0.198 J	0.164 J	0.206 J	ND	ND	0.176 J	0.255 J	0.183 J	0.284 J	0.234 J	0.37 J	0.277 J	ND	NE	21	0.37	NE	1.76E-03
Trichlorofluoromethane	2.31 J	2.27 J	2.52 J	1.92 J	3.79 J	2.2 J	3.38 J	3.96 J	2.21 J	1.43 J	1.6 J	1.43 J	ND	NE	245	3.96	NE	1.62E-03
Acetone	25.2 B	25.3	30.7	21.7	99.6 B	34.6 B	42 B	37.1 B	28.2	30.2 B	24	29.2	ND	NE	10862	99.6	NE	9.17E-04
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	0.7	ND	ND	ND
n-Pentane	1.44 J	1.2 J	1.41 J	1.24 J	7.57	5.29	2.45 J	2 J	1.28 J	0.573 J	0.547 J	0.407 J	ND	NE	350	7.57	NE	2.16E-03
Diethyl ether*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	0.388 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	841	0.388	NE	4.61E-05
Methylene chloride	0.919 J	0.883 J	1.06 J	0.381 J	24.5	ND	1.85 J	0.456 J	0.538 J	ND	ND	ND	ND	21	350	24.5	1.17E-06	7.00E-03
Carbon disulfide	ND	ND	0.89 J	1.25 J	ND	ND	0.943 J	ND	ND	ND	ND	ND	ND	NE	245	1.25	NE	5.10E-04
Allyl chloride*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	10512	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	1.32 J	1.61 J	ND	0.758 J	ND	ND	ND	ND	ND	ND	NE	21	1.61	NE	7.67E-03
1,1-Dichloroethane	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	38	1051	ND	ND	ND
Vinyl acetate	0.709 J	ND	0.887 J	0.782 J	3.22 J	1.06 J	1.21 J	0.745 J	1.21 J	0.961 J	2.68 J	1.38 J	ND	NE	70	3.22	NE	4.60E-03
2-Butanone (MEK)	1.8 J	1.79 J	3.28	2.05 J	24.6	2.77 J	3.59	3.67	2.6 J	1.94 J	2.52 J	3.17	ND	NE	1752	24.6	NE	1.40E-03
cis-1,2-Dichloroethene	***28.4***	***30.9***	ND	***89.7***	***153***	ND	***50.9***	2.26 J	0.418 J	ND	ND	ND	ND	NE	21	153	NE	7.29E-01
Hexane	ND	ND	ND	ND	7.99	ND	0.876 J	ND	ND	ND	ND	ND	ND	NE	245	7.99	NE	3.26E-03
Chloroform	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	0.38	NE	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1752	ND	ND	ND
Benzene	0.629 J	0.454 J	ND	ND	5.79	0.368 J	1.02 J	ND	0.386 J	ND	0.706 J	ND	ND	1.3	11	5.79	4.45E-06	5.26E-02
Carbon tetrachloride	ND	ND	ND	ND	1.36 J	ND	ND	ND	ND	ND	ND	ND	ND	1.6	35	1.36	8.50E-07	3.89E-03
Cyclohexane	ND	ND	ND	ND	1.83 J	ND	0.645 J	ND	ND	ND	ND	ND	ND	NE	2102	1.83	NE	8.71E-05
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	1.4	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	NE	ND	ND	ND
Trichloroethene	***13.8***	***25.7***	***4.97*** J	***4.42*** J	***13.6***	***2.11*** J	***25.3***	***3.58*** J	***2.87*** J	ND	ND	ND	ND	2.4	0.7	25.3	1.05E-05	3.61E+00
Heptane	ND	ND	ND	ND	5.25	ND	0.639 J	ND	ND	ND	ND	ND	ND	NE	245	5.25	NE	2.14E-03
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	7	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	1.56 J	ND	ND	ND	ND	ND	ND	ND	ND	NE	1051	1.56	NE	1.48E-04
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	0.61	NE	ND	ND	ND
Toluene	4.42	2.63 J	2.15 J	1.8 J	90	2.95 J	4.61	7.26	2.81 J	0.783 J	0.612 J	0.735 J	ND	NE	1752	90	NE	5.14E-03
2-Hexanone	ND	ND	ND	ND	3.21 J	ND	1.8 J	ND	ND	ND	ND	ND	ND	NE	11	3.21	NE	2.92E-02
Chlorodibromomethane	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	0.016	3.2	ND	ND	ND
n-Octane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	11.7	ND	ND	ND	ND	ND	ND	ND	ND	1.7	95	11.7	6.88E-06	1.23E-02
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	18	ND	ND	ND
Ethylbenzene	ND	ND	1.05 J	0.957 J	5.27	ND	0.772 J	5.34	3.29 J	ND	ND	ND	ND	3.9	350	5.34	1.37E-06	1.53E-03
m-Xylene & p-Xylene	1.71 J	1.5 J	2.63 J	2.75 J	16.4	1.84 J	2.52 J	16.3	12.6	ND	ND	ND	ND	NE	35	16.4	NE	4.69E-02
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.9	NE	ND	ND	ND
Styrene	ND	ND	ND	ND	1.57 J	ND	ND	ND	ND	ND	ND	ND	ND	NE	350	1.57	NE	4.49E-04
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	NE	ND	ND	ND
o-Xylene	ND	ND	0.78 J	0.835 J	5.66	ND	0.819 J	4.4 J	3.11 J	ND	ND	ND	ND	NE	35	5.66	NE	1.62E-02
n-Nonane	ND	ND	ND	ND	4.2 J	ND	ND	0.996 J	ND	ND	ND	ND	ND	NE	70	4.2	NE	6.00E-03
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	140	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	NE	2.5	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	2.5 J	ND	ND	ND	ND	ND	ND	ND	ND	NE	2.5	2.5	NE	1.00E-01
Benzyl chloride	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	0.89	70	ND	ND	ND
n-Decane	1.27 J	1.39 J	ND	ND	6.4 J	1.54 J	1.39 J	1.52 J	ND	1.12 J	ND	ND	ND	NE	245	6.4	NE	2.61E-03
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	NE	70	ND	ND	ND
n-Undecane	ND	ND	1.04 J	ND	2.67 J	0.966 J	ND	1.01 J	ND	ND	ND	ND	ND	NE	245	2.67	NE	1.09E-03
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	0.7	ND	ND	ND
Naphthalene	ND	ND	ND	ND	***3.35*** J	ND	ND	ND	ND	ND	ND	ND	ND	0.29	1.1	3.35	1.16E-05	3.05E-01
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45	NE	ND	ND	ND
Calculated Total Cancer Risk (unitless - sum of all VOC risk per sample location)	6.78E-06	7.45E-06	2.39E-06	2.36E-05	3.27E-05	1.16E-06	1.25E-05	2.88E-06	2.36E-06	0.00E+00	5.43E-07	0.00E+00	NA					
Calculated Total Non-Cancer Risk (unitless - sum of all VOC risk per sample location)	2.13E+00	2.41E+00	7.36E-01	1.22E+00	3.37E+00	3.33E-01	3.92E+00	6.05E-01	4.75E-01	1.20E-02	2.28E-02	1.29E-02	NA					

Source: Test America, 2011
Sceening levels 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 reporting or method detection limit.
B = Method Blank Contamination. The associated method blank contains the target analyte at a reportable level.
RA = Results are from a second analysis of the sample.
R4= Due to the low levels of analyte in sample, the duplicate RPD calculation does not provide useful information
H2= Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
I2= Internal standard chlorobenzene-d5 was recovered low in the initial analysis potentially adding positive bias. Affected samples were re-analyzed with comparable results.
* = Site Specific Risk-Based Screening Levels Are Not Available for These Compounds
(1) = Access to sample location is limited and exposure to workers is intermittent and of short duration; therefore, cancer and non-cancer risk may be scewed high.
Concentration = Indicates identified concentration is greater than Cancer SSSL
Concentration = Indicates identified concentration is greater than Non-Cancer SSSL
Concentration = Indicates identified concentration is greater than Cancer SSSL and Non-Cancer SSSL
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 2B
Analytical Data Summary for Building 1 and 2 - Indoor and Outdoor Air VOCs
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B2B-OD8-VOCs	B1SB-J19-VOCs	B1SB-A19-VOCs	B1SB-E23-VOCs (1)	B1SB-R17-VOCs	B1SB-Y18-VOCs	B1SB-K8-VOCs (1)	B1SB-W8-VOCS (1)	B1-W8-RR-VOCS	B1-W8-WH-VOCS	B1SB-R16-EXT-VOCS	B1SB-U17-VOCs	Blank-VOCs	Screening Levels		Maximum Detection	Cancer Risk (Based On Max Detection)	Non-Cancer Risk (Based on Max Detection)
	Indoor Air												Blank	Cancer Risk = 1E-06	Non-Cancer HQ = 0.1			
Sample Date	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/29/2011	7/29/2011	8/2/2011	7/30/2011	7/29/2011	8/2/2011					
Chlorodifluoromethane	22.7	90.3	181	29.2	122	1100 RA, H2	18	33	30.7	56.3	167	34.8	ND	NE	17520	1100	NE	6.28E-03
Dichlorodifluoromethane	2.53 J	2.69 J	2.52 J	2.59 J	2.76 J	3.21 J	2.53 J	3.37 J	3.39 J	2.42 J	3.3 J	2.82 J	ND	NE	70	3.39	NE	4.84E-03
Chloromethane	0.932 J	1.31 J	1.05 J	1.05 J	1.1 J	1.12 J	1.06 J	2.05 J	1.02 J	1.14 J	1.08 J	1.13 J	ND	NE	32	2.05	NE	6.41E-03
1,2-Dichloro-1,1,2,2-tetrafluoroethane*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	10512	ND	ND	ND
Vinyl chloride	ND	0.565 J	ND	ND	1.22 J	0.6 J	ND	ND	ND	ND	1.05 J	1.23 J	ND	2.2	35	1.23	5.59E-07	3.51E-03
1,3-Butadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	0.7	ND	ND	ND
Butane	3.16	3.32	1.23 J	1.48 J	1.53 J	8.74	1.3 J	7.88	9.77	5.88	1.38 J	2.07 J	ND	NE	245	9.77	NE	3.99E-03
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1.75	ND	ND	ND
Chloroethane	ND	ND	ND	0.394 J	ND	ND	ND	0.535 J	ND	ND	ND	ND	ND	NE	3504	0.535	NE	1.53E-05
Acetonitrile	0.155 J	0.25 J	0.198 J	0.275 J	0.213 J	0.314 J	0.255 J	ND	0.231 J	0.147 J	ND	0.275 J	ND	NE	21	0.314	NE	1.50E-03
Trichlorofluoromethane	1.8 J	2 J	1.7 J	1.71 J	2.3 J	7.62	1.95 J	2.25 J	2.07 J	1.94 J	1.98 J	1.84 J	ND	NE	245	7.62	NE	3.11E-03
Acetone	25.5 B	35	29.1 B	64.6 B	29 B	55.7	39.6	43.8 B	33.9 B	22.2	23.9	32.4	0.156 J, B	NE	10862	64.6	NE	5.95E-04
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	0.7	ND	ND	ND
n-Pentane	2.26 J	1.78 J	1.36 J	1.99 J	1.23 J	6.28	1.42 J	1.85 J	1.59 J	2.83 J	1.21 J	1.18 J	ND	NE	350	6.28	NE	1.79E-03
Diethyl ether*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	841	ND	ND	ND
Methylene chloride	0.496 J	ND	0.347 J	0.46 J	0.897 J	5.6	0.465 J	1.52 J	0.672 J	0.511 J	0.408 J	2.47 J	ND	21	350	5.6	2.67E-07	1.60E-03
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	2.17 J	1.75 J	2.49 J	ND	ND	ND	NE	245	2.49	NE	1.02E-03
Allyl chloride*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	10512	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	21	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	38	1051	ND	ND	ND
Vinyl acetate	0.794 J	ND	1 J	0.999 J	1.49 J	1.39 J	3.14 J	1.76 J	1.98 J	1.05 J	ND	2.07 J	ND	NE	70	3.14	NE	4.49E-03
2-Butanone (MEK)	3 J	2.76 J	2.86 J	9.51	2.5 J	4.62	3.97	3.73	2.62 J	2.29 J	2.21 J	2.72 J	ND	NE	1752	9.51	NE	5.43E-04
cis-1,2-Dichloroethene	ND	1.34 J	ND	ND	***31.3***	14.3	ND	ND	ND	ND	6.54	***30.8***	ND	NE	21	31.3	NE	1.49E-01
Hexane	ND	ND	ND	ND	ND	2.56 J	ND	0.576 J	ND	ND	ND	ND	ND	NE	245	2.56	NE	1.04E-03
Chloroform	1.07 J	ND	ND	0.485 J	ND	1.23 J	ND	1.42 J	ND	ND	ND	ND	ND	0.43	34	1.42	3.30E-06	4.18E-03
1,2-Dichloroethane	ND	ND	0.345 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38	NE	0.345	9.08E-07	NE
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1752	ND	ND	ND
Benzene	ND	ND	0.371 J	0.547 J	0.423 J	2.25 J	0.426 J	0.633 J	0.529 J	0.494 J	0.394 J	ND	ND	1.3	11	2.25	1.73E-06	2.05E-02
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	1.33 J	1.1 J	ND	ND	ND	ND	1.6	35	1.33	8.31E-07	3.80E-03
Cyclohexane	ND	ND	ND	ND	ND	1.77 J	ND	0.582 J	0.354 J	ND	ND	ND	ND	NE	2102	1.77	NE	8.42E-05
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	0.353 J	ND	0.408 J	ND	ND	ND	0.98	1.4	0.408	4.16E-07	2.91E-02
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	NE	ND	ND	ND
Trichloroethene	***1.65*** J	***0.838*** J	***1.1*** J	***11.4*** J	***14.5***	***8.34***	***1.07*** J	***100***	***89.9***	***26.8***	***4.14*** J	***14.5***	ND	2.4	0.7	100	4.17E-05	1.43E+01
Heptane	ND	ND	ND	ND	ND	2.19 J	ND	ND	ND	ND	ND	ND	ND	NE	245	2.19	NE	8.94E-04
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	7	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND	ND	0.959 J	1.2 J	ND	ND	ND	0.513 J	0.504 J	ND	ND	ND	ND	NE	1051	1.2	NE	1.14E-04
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	0.61	NE	ND	ND	ND
Toluene	3.49 J	2.11 J	3.23 J	39.9	2.44 J	16.4	2.01 J	3.97 J	4.15	3.4 J	2.21 J	2.41 J	ND	NE	1752	39.9	NE	2.28E-03
2-Hexanone	ND	ND	ND	1.33 J	ND	ND	ND	0.471 J	0.261 J	ND	ND	ND	ND	NE	11	1.33	NE	1.21E-02
Chlorodibromomethane	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	0.016	3.2	ND	ND	ND
n-Octane	ND	ND	ND	ND	ND	1.15 J	ND	0.501 J	0.564 J	ND	ND	ND	ND	NE	245	1.15	NE	4.69E-04
Tetrachloroethene	ND	ND	ND	ND	ND	2.86 J	ND	ND	ND	ND	ND	ND	ND	1.7	95	2.86	1.68E-06	3.01E-03
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	18	ND	ND	ND
Ethylbenzene	1.27 J	ND	0.827 J	1.92 J	ND	3.16 J	0.694 J	0.921 J	0.932 J	0.689 J	1.23 J	ND	ND	3.9	350	3.16	8.10E-07	9.03E-04
m-Xylene & p-Xylene	3.33 J	ND	2.08 J	6.45 J	1.52 J	12	1.89 J	1.97 J	2.03 J	1.93 J	3.51 J	ND	ND	NE	35	12	NE	3.43E-02
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.9	NE	ND	ND	ND
Styrene	ND	ND	ND	1.46 J	ND	1.4 J	2.92 J	ND	0.691 J	ND	ND	ND	ND	NE	350	2.92	NE	8.34E-04
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	NE	ND	ND	ND
o-Xylene	0.882 J	ND	ND	2.2 J	ND	4.06 J	ND	0.763 J	0.747 J	ND	1.05 J	ND	ND	NE	35	4.06	NE	1.16E-02
n-Nonane	ND	ND	ND	1.35 J	ND	1.06 J	1.01 J	ND	ND	ND	ND	ND	ND	NE	70	1.35	NE	1.93E-03
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	140	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	NE	2.5	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	1.16 J	ND	1.88 J	ND	0.384 J	0.541 J	ND	ND	ND	ND	NE	2.5	1.88	NE	7.52E-02
Benzyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.35	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	6.29 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	70	6.29	7.07E-06	8.99E-03
n-Decane	1.18 J	ND	ND	3.09 J	1.33 J	8.06	1.59 J	0.964 J	1.62 J	ND	ND	ND	ND	NE	245	8.06	NE	3.29E-03
1,4-Dichlorobenzene	ND	ND	ND	6.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	280	6.56	7.37E-06	2.34E-03
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	70	ND	ND	ND
n-Undecane	1.22 J	ND	1.46 J	4.43 J	ND	2.08 J	1 J	ND	ND	1 J	0.969 J	ND	ND	NE	245	4.43	NE	1.81E-03
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	0.7	ND	ND	ND
Naphthalene	1.35 J	ND	1.7 J	9.74	ND	1.4 J	1.33 J	ND	ND	ND	ND	ND	ND	0.29	1.1	9.74	3.36E-05	8.85E-01
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45	NE	ND	ND	ND
Calculated Total Cancer Risk (unitless - sum of all VOC risk per sample location)	8.18E-06	6.06E-07	7.74E-06	5.48E-05	6.96E-06	1.59E-05	5.56E-06	4.70E-05	3.88E-05	1.22E-05	2.84E-06	6.72E-06	NA					
Calculated Total Non-Cancer Risk (unitless - sum of all VOC risk per sample location)	3.87E-01	1.41E-01	3.35E-01	2.64E+00	2.25E+00	1.58E+00	3.02E-01	1.44E+01	1.29E+01	3.88E+00	6.54E-01	2.24E+00	NA					

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 reporting or method detection limit.
B = Method Blank Contamination. The associated method blank contains the target analyte at a reportable level.
RA = Results are from a second analysis of the sample.
R4= Due to the low levels of analyte in sample, the duplicate RPD calculation does not provide useful information
H2= Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
I2= Internal standard chlorobenzene-d5 was recovered low in the initial analysis potentially adding positive bias. Affected samples were re-analyzed with comparable results.
* = Site Specific Risk-Based Screening Levels Are Not Available for These Compounds
(1) = Access to sample location is limited and exposure to workers is intermittent and of short duration; therefore, cancer and non-cancer risk may be scewed high.
Concentration = Indicates identified concentration is greater than Cancer SSSL
Concentration = Indicates identified concentration is greater than Non-Cancer SSSL
Concentration = Indicates identified concentration is greater than Cancer SSSL and Non-Cancer SSSL
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 for Building 1 and 2 - Indoor Air VOCs - Short-Term Exposure
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B1SB-R10-VOCs			B1SB-R16-VOCs			B1SB-AA17-VOCs			B1SB-W8-VOCs			B1SB-E23-VOCs			B1SB-K8-VOCs			Short-Term Exposure Screening Levels
	Indoor Air Samples - Elevators and Former Shower Rooms																		(1-30 days)
Sample Date	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/29/2011	4/22/2011	7/29/2011	1/29/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	
Chlorodifluoromethane	4.86	3.72 J	40.6	6.15	7.45	146	77.7	396 RA, H2	9570 RA, H2	47.8	37.6	33	20.5	48.5	29.2	29.2	4.27	18	175200
Dichlorodifluoromethane	2.39 J	2.79 J	3.38 J	2.55 J	3.37 J	3.17 J	5.07 J	3.45 J	9.56	2.41 J	3.04 J	3.37 J	2.35 J	2.83 J	2.59 J	2.53 J	2.38 J	2.53 J	700
Chloromethane	0.926 J	1.65 J	1.36 J	0.925 J	2.6	1.05 J	1.1 J	1.55 J	1.76 J	0.812 J	1.58 J	2.05 J	1.6 J	1.63 J	1.05 J	0.973 J	1.29 J	1.06 J	414
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	105120
Vinyl chloride	ND	ND	ND	23	126	47.2	ND	0.372 J	1.67 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	77
1,3-Butadiene	ND	0.255 J	ND	ND	0.29 J	ND	ND	0.139 J	ND	ND	ND	ND	0.187 J	0.133 J	ND	ND	0.121 J	ND	221
Butane	5.05	9	3.82	5.26	9.1	1.66 J	20.5	23.4	17.6	14.2	23.7	7.88	11.4	4.72	1.48 J	7.71	5.6	1.3 J	2000
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Chloroethane	ND	ND	ND	ND	0.464 J	ND	ND	ND	ND	ND	ND	0.535 J	ND	ND	0.394 J	ND	ND	ND	4000
Acetonitrile	ND	0.178 J	0.206 J	ND	0.582 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.275 J	ND	ND	0.255 J	210
Trichlorofluoromethane	1.77 J	2.23 J	2.52 J	1.86 J	2.2 J	1.92 J	12.5	2.89 J	3.79 J	1.88 J	2.03 J	2.25 J	2.07 J	1.92 J	1.71 J	1.85 J	1.73 J	1.95 J	2450
Acetone	11.4 B	14.7 B	30.7	11.6 B	27.3 B	21.7	33.7 B	39.6 B	99.6 B	18.2 B	29.7 B	43.8 B	21.4 B	41.8 B	64.6 B	12.5 B	17.9 B	39.6	30940
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	217
n-Pentane	76	4.02	1.41 J	35.9	3.63	1.24 J	94.1	8.56	7.57	7.47	1.87 J	1.85 J	3.04 J	2.4 J	1.99 J	96.4	2.18 J	1.42 J	10000
Diethyl ether*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
1,1-Dichloroethene	ND	ND	ND	ND	0.685 J	0.388 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70800
Methylene chloride	0.696 J	0.616 J	1.06 J	0.814 J	0.866 J	0.381 J	16	11.5	24.5	1.25 J	1.1 J	1.52 J	17	0.916 J	0.46 J	0.769 J	0.698 J	0.465 J	1041
Carbon disulfide	ND	ND	0.89 J	ND	1.08 J	1.25 J	ND	ND	ND	ND	ND	2.17 J	ND	ND	ND	ND	ND	ND	2450
Allyl chloride*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
1,1,2-Trichlorotrifluoroethane*	ND	0.733 J	ND	ND	0.841 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
trans-1,2-Dichloroethene	ND	ND	ND	ND	1.91 J	1.32 J	ND	ND	1.61 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	794
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1
Methyl tert-Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2555
Vinyl acetate	ND	ND	0.887 J	ND	1.71 J	0.782 J	ND	1.39 J	3.22 J	ND	0.552 J	1.76 J	0.536 J	0.802 J	0.999 J	ND	0.484 J	3.14 J	35.2
2-Butanone (MEK)	1.41 J	1.28 J	3.28	1.21 J	4.18	2.05 J	12.3	14.7	24.6	1.57 J	3.8 B	3.73	1.76 J	3.5	9.51	1.44 J	1.69 J	3.97	17520
cis-1,2-Dichloroethene	0.354 J	ND	ND	48.8	219 H2, RA	89.7	9.92	20	153	ND	ND	ND	ND	ND	ND	ND	ND	ND	794
Hexane	3.25 J	0.868 J	ND	1.9 J	0.836 J	ND	8.27	5.94	7.99	0.914 J	ND	0.576 J	0.722 J	0.624 J	ND	4.01	0.668 J	ND	2000
Chloroform	ND	ND	ND	ND	ND	ND	2.26 J	ND	ND	ND	ND	1.42 J	ND	1.05 J	0.485 J	ND	ND	ND	244
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000
Benzene	0.862 J	1.26 J	ND	0.689 J	1.15 I2, J	ND	3.32 J	5.7	5.79	0.945 J	0.69 J	0.633 J	1.58 J	1.05 J	0.547 J	0.948 J	1.3 J	0.426 J	80
Carbon tetrachloride	0.596 J	0.625 J	ND	0.804 J	0.717 I2, J	ND	0.592 J	0.652 J	1.36 J	0.675 J	0.684 J	1.33 J	0.762 J	0.7 J	ND	0.579 J	0.661 J	ND	189
Cyclohexane	ND	0.464 J	ND	ND	0.385 I2, J	ND	0.807 J	3.18 J	1.83 J	ND	0.297 J	0.582 J	0.356 J	ND	ND	ND	ND	ND	21020
1,2-Dichloropropane	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	0.353 J	ND	ND	ND	ND	ND	ND	32
Bromodichloromethane	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Trichloroethene	3.25 J	ND	4.97 J	4.61 J	1.89 I2, J	4.42 J	4.51 J	5.98	13.6	71.9	25	100	0.422 J	2.29 J	11.4	3.78 J	0.476 J	1.07 J	537
Heptane	ND	0.273 J	ND	ND	0.29 I2, J	ND	1.49 J	3.36 J	5.25	0.41 J	ND	ND	0.512 J	0.335 J	ND	ND	0.431 J	ND	2000
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND I2	ND	ND	1.11 J	1.56 J	ND	0.455 J, B	0.513 J	ND	0.464 J	1.2 J	ND	ND	ND	10510
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36
1,1,2-Trichloroethane	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.61
Toluene	12.4	6.04	2.15 J	7.15	2.9 I2, J	1.8 J	38.7	37.8	90	6.84	3.94 J	3.97 J	9.14	13.7	39.9	12.9	3.7 J	2.01 J	5000
2-Hexanone	ND	0.294 J	ND	ND	0.516 I2, J	ND	ND	0.56 J	3.21 J	ND	ND	0.471 J	ND	0.539 J	1.33 J	ND	ND	ND	110
Chlorodibromomethane	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.016
n-Octane	ND	ND	ND	ND	ND I2	ND	0.99 J	4.62 J	ND	ND	ND	0.501 J	ND	1.14 J	ND	ND	0.56 J	ND	2000
Tetrachloroethene	ND	ND	ND	0.586 J	ND I2	ND	ND	ND	11.7	ND	0.764 J	ND	ND	ND	ND	ND	ND	ND	17
Chlorobenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	500
Ethylbenzene	1.05 J	0.679 J	1.05 J	0.611 J	0.515 I2, J	0.957 J	3.66 J	2.94 J	5.27	0.773 J	0.638 J	0.921 J	0.725 J	1.32 J	1.92 J	1.07 J	0.656 J	0.694 J	4340
m-Xylene & p-Xylene	1.31 J	1.85 J	2.63 J	ND	1.17 I2, J	2.75 J	12	9.94	16.4	1.36 J	1.65 J	1.97 J	1.85 J	3.79 J	6.45 J	1.33 J	1.64 J	1.89 J	2604
Bromoform	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.9
Styrene	16.2	0.378 J	ND	8.02	ND I2	ND	12.8	ND	1.57 J	6.26	ND	ND	ND	0.693 J	1.46 J	16	1.74 J	2.92 J	8520
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17
o-Xylene	ND	0.759 J	0.78 J	ND	0.469 I2, J	0.835 J	4.17 J	3.31 J	5.66	0.559 J	0.581 J	0.763 J	0.839 J	1.33 J	2.2 J	ND	0.692 J	ND	2604
n-Nonane	ND	ND	ND	ND	ND I2	ND	20.1	3.06 J	4.2 J	22.4	1.27 J	ND	11.1	0.832 J	1.35 J	18.7	ND	1.01 J	2000
Isopropylbenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1400
n-Propylbenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3500
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
1,2,4-Trimethylbenzene	ND	0.737 J	ND	ND	0.392 I2, J	ND	1.52 J	2.67 J	2.5 J	0.503 J	0.344 J	0.384 J	0.48 J	0.747 J	1.16 J	ND	0.544 J	ND	100
Benzyl chloride	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4
1,3-Dichlorobenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.29 J	ND	ND	ND	240
n-Decane	ND	0.587 J	ND	ND	ND I2	ND	7.84	7.23	6.4 J	1.24 J	2.15 J	0.964 J	0.652 J	1.83 J	3.09 J	ND	1.01 J	1.59 J	2000
1,4-Dichlorobenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	1.63 J	6.56	ND	ND	ND	240
1,2-Dichlorobenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
n-Undecane	ND	0.405 J	1.04 J	ND	ND I2	ND	ND	1.74 J	2.67 J	ND	1.08 J	ND	ND	1.37 J	4.43 J	ND	ND	1 J	2000
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Naphthalene	ND	ND	ND	ND	ND I2	ND	ND	ND	3.39 J	ND	ND	ND	ND	2.48 J	9.74	ND	ND	1.33 J	2.9
Hexachlorobutadiene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45

Source: Test America, 2011
Sceening levels 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 reporting or method detection limit.
B = Method Blank Contamination. The associated method blank contains the target analyte at a reportable level.
RA = Results are from a second analysis of the sample.
R4= Due to the low levels of analyte in sample, the duplicate RPD calculation does not provide useful information
H2= Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
I2= Internal standard chlorobenzene-d5 was recovered low in the initial analysis potentially adding positive bias. Affected samples were re-analyzed with comparable results.
* = Site Specific Risk-Based Screening Levels Are Not Available for These Compounds
Concentration = Indicates identified concentration is greater than site specific short-term exposure screening level
Cancer Risk = Indicates identified maximum concentration is greater than the cancer risk of $1x10^{-6}$

Table 4A
Analytical Data Summary for Building 1 and 2 - Indoor and Outdoor Air VOCs
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B1SB-W17-VOCs			Dup-VOCs (B1SB-W17)			B1SB-R10-VOCs (1)			B1SB-R16-VOCs (1)			B1SB-AA17-VOCs (1)			B2B-OB27-VOCs			B1SB-U19-VOCs			B1SB-P25-VOCs			B1SB-R2-VOCs			Ambient-South-VOCs			Ambient-North-VOCs			Ambient-West-VOCs			VOCs-Blank			Screening Levels	
	Indoor Air Samples																											Outdoor Air Samples													
Sample Date	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/21/2011	4/22/2011	7/30/2011	Cancer Risk = 1E-06	Non-Cancer HQ = 0.1
Chlorodifluoromethane	1.34 J	4.27	124	1.35 J	4.88	124	4.86	3.72 J	40.6	6.15	7.45	146	77.7	396 RA, H2	9570 RA, H2	10.5	24.6	13.3	NA	6.04	303 RA, H2	14.7	15.3	80	1.28 J	2.7 J	34	1.12 J	1.92 J	4.15	1.14 J	2.22 J	4.56	1.17 J	2.35 J	3.85	ND	ND	ND	NE	17520
Dichlorodifluoromethane	2.31 J	2.88 J	2.85 J	2.34 J	2.86 J	2.75 J	2.39 J	2.79 J	3.38 J	2.55 J	3.37 J	3.17 J	5.07 J	3.45 J	9.56	2.46 J	2.83 J	8.51	NA	3.4 J	2.92 J	3.8 J	3.71 J	7.42	2.32 J	2.75 J	2.85 J	2.38 J	2.62 J	2.3 J	2.35 J	2.48 J	2.74 J	2.37 J	2.67 J	2.53 J	ND	ND	ND	NE	70
Chloromethane	0.872 J	1.39 J	1.02 J	0.899 J	1.56 J	0.981 J	0.926 J	1.65 J	1.36 J	0.925 J	2.6	1.05 J	1.1 J	1.55 J	1.76 J	0.95 J	1.35 J	0.997 J	NA	1.76 J	1.18 J	0.887 J	1.36 J	0.981 J	0.921 J	1.63 J	1.07 J	1.3 J	1.59 J	1.39 J	0.912 J	1.19 J	1.71 J	1.45 J	1.45 J	1.45 J	ND	ND	ND	NE	32
1,2-Dichloro-1,1,2,2-tetrafluoroethane*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	10512
Vinyl chloride	0.542 J	0.724 J	1.1 J	0.535 J	0.749 J	1.14 J	ND	ND	ND	23	126	47.2	ND	0.372 J	1.67 J	ND	ND	ND	NA	0.844 J	1.94 J	ND	0.39 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	35
1,3-Butadiene	ND	0.151 J	ND	ND	0.236 J	ND	ND	0.255 J	ND	ND	0.29 J	ND	ND	0.139 J	ND	ND	0.134 J	ND	NA	0.304 J	ND	ND	ND	ND	ND	ND	ND	ND	0.146 J	ND	ND	0.122 J	ND	ND	0.166 J	ND	ND	ND	ND	0.33	0.7
Butane	3.97	6.38	1.67 J	4.04	6.95	1.52 J	5.05	9	3.82	5.26	9.1	1.66 J	20.5	23.4	17.6	17.3	12.8	1.81 J	NA	8.4	3.31	32.2	6.02	1.35 J	4.57	1.62 J	2.49 J	5.87	7.31	0.509 J	3.33	4.17	0.61 J	4.96	6.81	0.504 J	ND	ND	ND	NE	245
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1.75
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.464 J	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	3504
Acetonitrile	ND	ND	0.198 J	ND	0.198 J	0.164 J	ND	0.178 J	0.206 J	ND	0.582 J	ND	ND	ND	ND	ND	ND	0.176 J	NA	0.263 J	0.255 J	ND	ND	0.183 J	ND	0.605 J	0.284 J	ND	ND	0.234 J	ND	ND	0.37 J	ND	ND	0.277 J	ND	ND	ND	NE	21
Trichlorofluoromethane	1.6 J	1.85 J	2.31 J	1.57 J	1.77 J	2.27 J	1.77 J	2.23 J	2.52 J	1.86 J	2.2 J	1.92 J	12.5	2.89 J	3.79 J	1.83 J	1.95 J	2.2 J	NA	2.13 J	3.38 J	3.56 J	2.61 J	3.96 J	1.54 J	2.15 J	2.21 J	1.8 J	1.82 J	1.43 J	1.51 J	1.59 J	1.6 J	1.71 J	1.7 J	1.43 J	ND	ND	ND	NE	245
Acetone	7.34 B	10.3 B	25.2 B	7.49 B	24.4 B	25.3 B	11.4 B	14.7 B	30.7	11.6 B	27.3 B	21.7	33.7 B	39.6 B	99.6 B	71.2 B	76.2 B	34.6 B	NA	15.5 B	42 B	22.8 B	27.9 B	37.1 B	7.58 B	27.6 B	28.2	5.55 B	12.8 B	30.2 B	4.6 B	15.4 B	24	6.24 B	10.8 B	29.2	0.105 J, B	0.345 J, B	ND	NE	10862
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND U	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	0.7
n-Pentane	45.7	2.44 J	1.44 J	44.9	2.76 J	1.2 J	76	4.02	1.41 J	35.9	3.63	1.24 J	94.1	8.56	7.57	96.3	4.83	5.29	NA	3.69	2.45 J	2.93 J	2.47 J	2 J	65.4	0.797 J	1.28 J	1.65 J	2.62 J	0.573 J	26.1	1.66 J	0.547 J	1.46 J	2.58 J	0.407 J	ND	ND	ND	NE	350
Diethyl ether*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND U	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.685 J	0.388 J	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	841
Methylene chloride	0.439 J	0.528 J	0.919 J	0.441 J	0.548 J	0.883 J	0.696 J	0.616 J	1.06 J	0.814 J	0.866 J	0.381 J	16	11.5	43.5	0.549 J	0.449 J	ND	NA	0.797 J	1.85 J	25.3	0.592 J	0.456 J	0.662 J	0.609 J	0.538 J	7.17	0.653 J	ND	0.276 J	0.445 J	ND	8.32	0.435 J	ND	ND	ND	ND	21	350
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	0.89 J	ND	1.08 J	1.25 J	ND	ND	ND	ND	ND	ND	NA	ND	0.943 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245
Allyl chloride*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
1,1,2-Trichlorotrifluoroethane	ND	ND	ND	ND	0.62 J	ND	ND	0.733 J	ND	ND	0.841 J	ND	ND	ND	ND	ND	ND	ND	NA	0.836 J	ND	2.12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	10512
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.91 J	1.32 J	ND	ND	1.61 J	ND	ND	ND	NA	ND	0.758 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	21
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1	7008
Methyl tert-Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38	1051
Vinyl acetate	ND	ND	0.709 J	ND	2.28 J	ND	ND	ND	0.887 J	ND	1.71 J	0.782 J	ND	1.39 J	3.22 J	ND	0.833 J	1.06 J	NA	ND	1.21 J	ND	0.728 J	0.745 J	ND	1.88 J	1.21 J	ND	0.593 J	0.961 J	ND	1.75 J	2.68 J	ND	0.988 J	1.38 J	ND	ND	ND	NE	70
2-Butanone (MEK)	0.876 J	1.01 J, B	1.8 J	0.89 J	3.15	1.79 J	1.41 J	1.28 J	3.28	1.21 J	4.18	2.05 J	12.3	14.7	24.6	1.22 J	1.71 J	2.77 J	NA	1.07 J	3.59	1.32 J	1.9 J	3.67	1.06 J	4.09	2.6	ND	1.57 J	1.94 J	0.621 J	2.66 J	2.52 J	0.723 J	1.7 J	3.17	ND	ND	ND	NE	1752
cis-1,2-Dichloroethene	18.1	22.5	28.4	17.6	19.4	30.9	0.354 J	ND	1	48.8	219	89.7	9.92	20	153	ND	0.524 J	ND	NA	2.41	50.9	3.14 J	5.84	2.26 J	ND	ND	0.418 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	21
Hexane	2.32 J	0.799 J	ND	2.04 J	0.562 J	ND	3.25 J	0.868 J	ND	1.9 J	0.836 J	ND	8.27	5.94	7.99	4.11	0.769 J	ND	NA	0.667 J	0.876 J	1.28 J	0.782 J	ND	2.84 J	ND	ND	0.699 J	ND	0.811 J	0.62 J	ND	ND	0.765 J	ND	ND	ND	ND	ND	NE	245
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.26 J	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43	34
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38	NE
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1752
Benzene	0.677 J	1.26 J	0.629 J	0.627 J	1.21 I2, J	0.454 J	0.862 J	1.26 J	ND	0.689 J	1.15 I2, J	ND	3.32 J	5.7	5.79	0.915 J	1.17 J	0.368 J	NA	1.33 I2, J	1.02 J	1.49 J	1.28 J	ND	0.866 J	0.721 J	0.386 J	0.78 J	1.45 J	ND	0.572 J	1.3 J	0.706 J	0.801 J	1.4 J	ND	ND	ND	ND	1.3	11
Carbon tetrachloride	0.591 J	0.64 J	ND	0.506 J	0.696 I2, J	ND	0.596 J	0.625 J	ND	0.804 J	0.717 I2, J	ND	0.592 J	0.652 J	1.36 J	ND	0.685 J	ND	NA	0.711 I2, J	ND	0.668 J	0.716 J	ND	0.656 J	0.748 J	ND	0.708 J	0.59 J	ND	0.693 J	0.681 J	ND	0.708 J	0.665 J	ND	ND	ND	ND	1.6	35
Cyclohexane	ND	0.375 J	ND	ND	0.372 I2, J	ND	ND	0.464 J	ND	ND	0.385 I2, J	ND	0.807 J	3.18 J	1.83 J	ND	ND	ND	NA	0.467 I2, J	0.645 J	0.298 J	ND	ND	ND	ND	ND	ND	0.287 J	ND	ND	0.316 J	ND	ND	0.354 J	ND	ND	ND	ND	NE	2102
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	1.4
Bromodichloromethane	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	NE
Trichloroethene	6.53	6.96	13.8	6.54	6.05 I2	15.7	3.25 J	ND	4.97 J	4.61 J	1.89 I2, J	4.42 J	4.51 J	5.98	13.6	ND	ND	2.11 J	NA	6.49 I2	25.3	3.93 J	5.09 J	3.58 J	ND	0.517 J	2.87 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	0.7
Heptane	ND	ND	ND	ND	ND I2	ND	ND	0.273 J	ND	ND	0.29 I2, J	ND	1.49 J	3.36 J	5.25	ND	0.399 J	ND	NA	ND I2	0.639 J	ND	0.372 J	ND	ND	ND	ND	ND	0.402 J	ND	ND	0.309 J	ND	ND	0.433 J	ND	ND	ND	ND	NE	245
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	7
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	1.11 J	1.56 J	ND	0.315 J	ND	NA	ND I2	ND	0.669 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1051
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	7
1,1,2-Trichloroethane	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.61	NE
Toluene	6.99	3.55 J	4.42	6.83	3.35 I2, J	2.63 J	12.4	6.04	2.15 J	7.15	2.9 I2, J	1.8 J	38.7	37.8	90	13.1	3.78 J	2.95 J	NA	3.93 I2, J	4.61	2.27 J	4.67	7.26	8.87	1.69 J	2.81 J	1.42 J	3.39 J	0.783 J	2.93 J	3.22 J	0.612 J	1.25 J	4.02	0.735 J	ND	ND	ND	NE	1752
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	0.294 J	ND	ND	0.516 I2, J	ND	ND	0.56 J	3.21 J	ND	ND	ND	NA	ND I2	1.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	11
Chlorodibromomethane	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	NE
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.016	3.2
n-Octane	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	0.99 J	4.62 J	ND	ND	0.625 J	ND	NA	ND I2	ND	ND	ND	ND	ND	0.628 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245
Tetrachloroethene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	0.586 J	ND I2	ND	ND	ND	1.3 J	ND	0.603 J	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	95
Chlorobenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	18
Ethylbenzene	0.536 J	ND	ND	0.518 J	0.382 I2, J	ND	1.05 J	0.679 J	1.05 J	0.611 J	0.515 I2, J	0.957 J	3.66 J	2.94 J	5.27	0.909 J	0.792 J	ND	NA	0.442 I2, J	0.772 J	2.18 J	4.07 J	5.34	0.724 J	ND	3.29 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	350
m-Xylene & p-Xylene	ND	1.12 J	1.71 J	ND	0.889 I2, J	1.5 J	1.31 J	1.85 J	2.63 J	ND	1.17 I2, J	2.75 J	12	9.94	16.4	1.06 J	1.75 J	1.84 J	NA	1.09 I2, J	2.52 J	6.03 J	11.9	16.3	ND	ND	12.6	ND	0.973 J	ND	ND	0.992 J	ND	ND	1.2 J	ND	ND	ND	ND	NE	35
Bromoform	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.9	NE
Styrene	7	ND	ND	7.32	ND I2	ND	16.2	0.378 J	ND	ND	ND I2	ND	12.8	ND	1.57 J	13.1	1.12 J	ND	NA	ND I2	ND	ND	ND	ND	10.4	ND	ND	ND	ND	ND	0.892 J	ND	ND	ND	ND	ND	ND	ND	ND	NE	350
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	NE
o-Xylene	ND	0.501 J	ND	ND	0.472 I2, J	ND	ND	0.759 J	0.78 J	ND	0.469 I2, J	0.835 J	4.17 J	3.31 J	5.66	ND	0.71 J	ND	NA	0.517 I2, J	0.819 J	1.63 J	3.14 J	4.4 J	ND	ND	3.11 J	ND	0.439 J	ND	ND	0.444 J	ND	ND	0.538 J	ND	ND	ND	ND	NE	35
n-Nonane	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	20.1	3.06 J	4.2 J	4.09 J	0.67 J	ND	NA	ND I2	ND	27.2	ND	0.996 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	70
Isopropylbenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	140
n-Propylbenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	350
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	2.5
1,2,4-Trimethylbenzene	ND	0.58 J	ND	ND	0.598 I2, J	ND	ND	0.737 J	ND	ND	0.392 I2, J	ND	1.52 J	2.67 J	2.5 J	ND	0.456 J	ND	NA	0.728 I2, J	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	0.369 J	ND	ND	0.53 J	ND	ND	ND	ND	NE	2.5
Benzyl chloride	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.35
1,3-Dichlorobenzene	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	70
n-Decane	ND	ND	1.27 J	ND	0.486 I2, J	1.39 J	ND	0.587 J	ND	ND	ND I2	ND	7.84	7.23	6.4 J	ND	1.05 J	1.54 J	NA	0.693 I2, J	1.39 J	ND	1.61 J	1.52 J	ND	ND	ND	ND	ND	1.12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	280
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	70
n-Undecane	ND	ND	ND	ND	ND	ND I2	ND	ND	0.405 J	1.04 J	ND	ND I2	ND	1.74 J	2.67 J	ND	ND	0.966 J	NA	0.445 I2, J	ND	0.652 J	1.36 J	1.01 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	0.7
Naphthalene	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	3.3 J	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	1.1
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	NA	ND I2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45	NE

Source: Test America, 2011
Sceening levels 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 reporting or method detection limit.
B = Method Blank Contamination. The associated method blank contains the target analyte at a reportable level.
RA = Results are from a second analysis of the sample.
R4= Due to the low levels of analyte in sample, the duplicate RPD calculation does not provide useful information
H2= Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
I2= Internal standard chlorobenzene-d5 was recovered low in the initial analysis potentially adding positive bias. Affected samples were re-analyzed with comparable results.
* = Site Specific Risk-Based Screening Levels Are Not Available for These Compounds
(1) = Access to sample location is limited and exposure to workers is intermittent and of short duration.
Concentration = Indicates identified concentration is greater than Cancer SSSL
Concentration = Indicates identified concentration is greater than Non-Cancer SSSL
Concentration = Indicates identified concentration is greater than Cancer SSSL and Non-Cancer SSSL

Table 4B
Analytical Data Summary for Building 1 and 2 - Indoor and Outdoor Air VOCs
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Indoor Air Sample

Sample I.D.	B2B-OD8-VOCs			B1SB-J19-VOCs			B1SB-A19-VOCs			B1SB-E23-VOCS (1)		
Sample Date	1/29/2011	4/23/2011	7/30/2011	1/29/2011	4/23/2011	7/30/2011	1/29/2011	4/23/2011	7/30/2011	1/29/2011	4/23/2011	7/30/2011
Chlorodifluoromethane	11.5	3.67	22.7	93.1	64.1	90.3	172	333 RA, H2	181	20.5	48.5	29.2
Dichlorodifluoromethane	2.18 J	2.59 J	2.53 J	2.4 J	2.66 J	2.69 J	2.38 J	2.4 J	2.52 J	2.35 J	2.83 J	2.59 J
Chloromethane	1.54 J	1.56 J	0.932 J	1.76 J	1.46 J	1.31 J	1.63 J	1.29 J	1.05 J	1.6 J	1.63 J	1.05 J
1,2-Dichloro-1,1,2,2-tetrafluoroethane*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	0.565 J	ND	ND	ND	ND	ND	ND
1,3-Butadiene	0.232 J	0.155 J	ND	0.252 J	0.164 J	ND	0.236 J	0.392 J	ND	0.187 J	0.133 J	ND
Butane	12.6	9	3.16	16.1	7.65	3.32	12.6	2.22	1.23 J	11.4	4.72	1.48 J
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.394 J
Acetonitrile	ND	ND	0.155 J	ND	ND	0.25 J	ND	ND	0.198 J	ND	ND	0.275 J
Trichlorofluoromethane	1.86 J	1.77 J	1.8 J	2.59 J	2.02 J	2 J	1.95 J	1.45 J	1.7 J	2.07 J	1.92 J	1.71 J
Acetone	12.7 B	12.4 B	25.5 B	17.5 B	20 B	35	13.5 B	28.1 B	29.1 B	21.4 B	41.8 B	64.6 B
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Pentane	3.04 J	3.07	2.26 J	3.15 J	2.52 J	1.78 J	2.84 J	0.957 J	1.36 J	3.04 J	2.4 J	1.99 J
Diethyl ether*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	10.7	0.89 J	0.496 J	15.5	0.554 J	ND	13.8	0.364 J	0.347 J	17	0.916 J	0.46 J
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Allyl chloride*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	0.61 J	0.794 J	0.681 J	1.07 J	ND	0.506 J	0.925 J	1 J	0.536 J	0.802 J	0.999 J
2-Butanone (MEK)	0.838 J	1.12 J	3 J	1.6 J	2.18 J	2.76 J	0.932 J	2.13 J	2.86 J	1.76 J	3.5	9.51
cis-1,2-Dichloroethene	ND	ND	ND	0.338 J	1.67 J	1.34 J	ND	ND	ND	ND	ND	ND
Hexane	1.1 J	0.842 J	ND	5.45	0.744 J	ND	0.826 J	ND	ND	0.722 J	0.624 J	ND
Chloroform	ND	1.11 J	1.07 J	1.01 J	ND	ND	ND	ND	ND	ND	1.05 J	0.485 J
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	0.511 J	0.345 J	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1.86 J	1.6 J	ND	1.73 J	1.3 J	ND	1.63 J	0.722 J	0.371 J	1.58 J	1.05 J	0.547 J
Carbon tetrachloride	0.695 J	0.687 J	ND	0.771 J	0.67 J	ND	0.741 J	0.659 J	ND	0.762 J	0.7 J	ND
Cyclohexane	0.428 J	0.593 J	ND	0.455 J	0.827 J	ND	0.348 J	ND	ND	0.356 J	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	***1.65*** J	0.424 J	0.536 J	***0.838*** J	0.606 J	ND	***1.1*** J	0.422 J	***2.29*** J	***11.4***
Heptane	0.73 J	0.428 J	ND	0.513 J	0.411 J	ND	0.493 J	0.415 J	ND	0.512 J	0.335 J	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND 0	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	0.459 J	0.959 J	ND	0.464 J	1.2 J
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	4.29	4.67	3.49 J	3.74 J	4.08	2.11 J	3.76 J	2.51 J	3.23 J	9.14	13.7	39.9
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	0.632 J	ND	ND	0.539 J	1.33 J
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Octane	ND	ND	ND	ND	0.711 J	ND	ND	1.87 J	ND	ND	1.14 J	ND
Tetrachloroethene	2.97 J	0.456 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.514 J	0.651 J	1.27 J	0.851 J	1.39 J	ND	ND	0.476 J	0.827 J	0.725 J	1.32 J	1.92 J
m-Xylene & p-Xylene	1.17 J	1.61 J	3.33 J	2.05 J	3.54 J	ND	0.942 J	1.13 J	2.08 J	1.85 J	3.79 J	6.45 J
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	0.77 J	ND	ND	ND	ND	ND	0.693 J	1.46 J
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.54 J	0.611 J	0.882 J	0.788 J	1.04 J	ND	0.479 J	0.403 J	ND	0.839 J	1.33 J	2.2 J
n-Nonane	ND	ND	ND	6.07	ND	ND	2.37 J	0.572 J	ND	11.1	0.832 J	1.35 J
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.409 J	0.585 J	ND	0.401 J	0.542 J	ND	0.389 J	0.398 J	ND	0.48 J	0.747 J	1.16 J
Benzyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.29 J
n-Decane	0.667 J	0.599 J	1.18 J	ND	0.654 J	ND	ND	1.14 J	ND	0.652 J	1.83 J	3.09 J
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63 J	6.56
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Undecane	ND	ND	1.22 J	ND	ND	ND	ND	0.879 J	1.46 J	ND	1.37 J	4.43 J
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	***1.35*** J	ND	ND	ND	ND	ND	***1.7*** J	ND	***2.48*** J	***9.74***
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Sample I.D.	B1SB-R17-VOCs			B1SB-Y18-VOCs			B1SB-K8-VOCs (1)			B1SB-W8-VOCS (1)		
Sample Date	1/29/2011	4/23/2011	7/30/2011	1/29/2011	4/23/2011	7/30/2011	1/22/2011	4/23/2011	7/30/2011	1/28/2011	4/22/2011	7/29/2011
Chlorodifluoromethane	13.6	5.51	122	8.72	5.01	1100 RA, H2	29.2	4.27	18	47.8	37.6	33
Dichlorodifluoromethane	2.52 J	3.62 J	2.76 J	2.7 J	2.74 J	3.21 J	2.53 J	2.38 J	2.53 J	2.41 J	3.04 J	3.37 J
Chloromethane	1.91 J	2 J	1.1 J	1.68 J	1.91 J	1.12 J	0.973 J	1.29 J	1.06 J	0.812 J	1.58 J	2.05 J
1,2-Dichloro-1,1,2,2-tetrafluoroethane*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.858 J	0.89 J	1.22 J	0.322 J	0.378 J	0.6 J	ND	ND	ND	ND	ND	ND
1,3-Butadiene	0.214 J	0.241 J	ND	0.231 J	0.238 J	ND	ND	0.121 J	ND	ND	ND	ND
Butane	12.2	8.18	1.53 J	14.8	8.04	8.74	7.71	5.6	1.3 J	14.2	23.7	7.88
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.535 J
Acetonitrile	ND	0.224 J	0.213 J	ND	0.388 J	0.314 J	ND	ND	0.255 J	ND	ND	ND
Trichlorofluoromethane	2.38 J	2.21 J	2.3 J	4.03 J	2.05 J	7.62	1.85 J	1.73 J	1.95 J	1.88 J	2.03 J	2.25 J
Acetone	17 B	13.8 B	29 B	10.1 B	27.9 B	55.7	12.5 B	17.9 B	39.6	18.2 B	29.7 B	43.8 B
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Pentane	2.91 J	3.27	1.23 J	4.3	4.34	6.28	96.4	2.18 J	1.42 J	7.47	1.87 J	1.85 J
Diethyl ether*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	11.9	0.878 J	0.897 J	22.4	0.841 J	5.6	0.769 J	0.698 J	0.465 J	1.25 J	1.1 J	1.52 J
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.17 J
Allyl chloride*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ND	0.971 J	ND	ND	0.796 J	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	0.829 J	ND	1.49 J	0.939 J	1.43 J	1.39 J	ND	0.484 J	3.14 J	ND	0.552 J	1.76 J
2-Butanone (MEK)	1.33 J	0.865 J	2.5 J	0.353 J	3.04 J	4.62	1.44 J	1.69 J	3.97	1.57 J	3.8 B	3.73
cis-1,2-Dichloroethene	***26.3***	***21.9***	***31.3***	7.32	7.51	14.3	ND	ND	ND	ND	ND	ND
Hexane	3.4 J	0.698 J	ND	11.3	0.969 J	2.56 J	4.01	0.668 J	ND	0.914 J	ND	0.576 J
Chloroform	ND	ND	ND	5.32	ND	1.23 J	ND	ND	ND	ND	ND	1.42 J
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1.82 J	1.25 I2, J	0.423 J	2.29 J	1.25 I2, J	2.25 J	0.948 J	1.3 J	0.426 J	0.945 J	0.69 J	0.633 J
Carbon tetrachloride	0.78 J	0.743 I2, J	ND	0.667 J	0.626 I2, J	ND	0.579 J	0.661 J	ND	0.675 J	0.684 J	1.33 J
Cyclohexane	0.667 J	0.367 I2, J	ND	1.41 J	0.407 I2, J	1.77 J	ND	ND	ND	ND	0.297 J	0.582 J
1,2-Dichloropropane	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	0.353 J
Bromodichloromethane	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	***9.91***	***6.38*** I2	***14.5***	***3.29*** J	***2.33*** I2, J	***8.34***	***3.78*** J	0.476 J	***1.07*** J	***71.9***	***25***	***100***
Heptane	0.436 J	ND I2	ND	1.14 J	0.423 I2, J	2.19 J	ND	0.431 J	ND	0.41 J	ND	ND
cis-1,3-Dichloropropene	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	0.455 J, B	0.513 J
trans-1,3-Dichloropropene	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
Toluene	4.11	3.43 I2, J	2.44 J	12.7	4.17 I2	16.4	12.9	3.7 J	2.01 J	6.84	3.94 J	3.97 J
2-Hexanone	ND	ND I2	ND	ND	0.28 I2, J	ND	ND	ND	ND	ND	ND	0.471 J
Chlorodibromomethane	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
n-Octane	ND	ND I2	ND	ND	ND I2	1.15 J	ND	0.56 J	ND	ND	ND	0.501 J
Tetrachloroethene	ND	ND I2	ND	ND	ND I2	2.86 J	ND	ND	ND	ND	0.764 J	ND
Chlorobenzene	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	0.393 I2, J	ND	0.634 J	0.558 I2, J	3.16 J	1.07 J	0.656 J	0.694 J	0.773 J	0.638 J	0.921 J
m-Xylene & p-Xylene	ND	0.961 I2, J	1.52 J	1.76 J	1.59 I2, J	12	1.33 J	1.64 J	1.89 J	1.36 J	1.65 J	1.97 J
Bromoform	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND I2	ND	ND	ND I2	1.4 J	16	1.74 J	2.92 J	6.26	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ND	0.456 I2, J	ND	0.768 J	0.673 I2, J	4.06 J	ND	0.692 J	ND	0.559 J	0.581 J	0.763 J
n-Nonane	ND	ND I2	ND	0.933 J	ND I2	1.06 J	18.7	ND	1.01 J	22.4	1.27 J	ND
Isopropylbenzene	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	0.649 I2, J	ND	0.795 J	0.754 I2, J	1.88 J	ND	0.544 J	ND	0.503 J	0.344 J	0.384 J
Benzyl chloride	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
n-Decane	ND	0.561 I2, J	1.33 J	5.36 J	1.7 I2, J	8.06	ND	1.01 J	1.59 J	1.24 J	2.15 J	0.964 J
1,4-Dichlorobenzene	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
n-Undecane	ND	0.318 I2, J	ND	1.64 J	0.402 I2, J	2.08 J	ND	ND	1 J	ND	1.08 J	ND
1,2,4-Trichlorobenzene	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND I2	ND	ND	ND I2	***1.4*** J	ND	ND	***1.33*** J	ND	ND	ND
Hexachlorobutadiene	ND	ND I2	ND	ND	ND I2	ND	ND	ND	ND	ND	ND	ND

Sample I.D.	B1-W8-RR-VOCS	B1-W8-WH-VOCS	B1SB-R16-EXT-VOCS	B1SB-U17-VOCs			Dup-VOCs (B1SB-R17)	Ambient-South-VOCs	Ambient-West-VOCs	Ambient-North-VOCs	Blank-VOCs				Screening Levels	
								Outdoor Air Samples			Blanks				Cancer Risk = 1E-06	Non-Cancer HQ = 0.1
Sample Date	7/29/2011	8/2/2011	7/30/2011	2/12/2011	4/30/2011	7/29/2011	1/29/2011	1/29/2011	1/29/2011	1/29/2011	1/28/2011	2/12/2011	4/29/2011	8/2/2011		
Chlorodifluoromethane	30.7	56.3	167	19.6	1.51 J	34.8	13.8	1.46 J	1.74 J	1.48 J	ND	ND	ND	ND	NE	17520
Dichlorodifluoromethane	3.39 J	2.42 J	3.3 J	2.42 J	2.73 J	2.82 J	2.53	2.28 J	2.31 J	2.25 J	ND	ND	ND	ND	NE	70
Chloromethane	1.02 J	1.14 J	1.08 J	1.06 J	1.39 J	1.13 J	1.69	0.977 J	0.945 J	1.05 J	ND	ND	ND	ND	NE	32
1,2-Dichloro-1,1,2,2-tetrafluoroethane*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	10512
Vinyl chloride	ND	ND	1.05 J	0.723 J	0.905 J	1.23 J	0.864	ND	ND	ND	ND	ND	ND	ND	2.2	35
1,3-Butadiene	ND	ND	ND	ND	ND	ND	0.215	0.215 J	0.199 J	0.177 J	ND	ND	ND	ND	0.33	0.7
Butane	9.77	5.88	1.38 J	3.78	2.33 J	2.07 J	12.2	14.5	16.6	8.92	0.0822 J	ND	ND	ND	NE	245
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1.75
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	3504
Acetonitrile	0.231 J	0.147 J	ND	ND	ND	0.275 J	ND	ND	ND	ND	ND	ND	ND	ND	NE	21
Trichlorofluoromethane	2.07 J	1.94 J	1.98 J	1.87 J	1.8 J	1.84 J	2.34 J	1.65 J	1.67 J	1.82 J	ND	ND	ND	ND	NE	245
Acetone	33.9 B	22.2	23.9	11 B	18.5 B	32.4	16.1 B	6.98 B	7.29 B	8.13 B	0.224 J, B	0.301 J, B	0.428 J, B	0.156 J, B	NE	10862
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	0.7
n-Pentane	1.59 J	2.83 J	1.21 J	1.23 J	0.646 J	1.18 J	2.87 J	3.35	3.66	2.22 J	0.482 J	ND	ND	ND	NE	350
Diethyl ether*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	841
Methylene chloride	0.672 J	0.511 J	0.408 J	1.63 J	0.414 J	2.47 J	10.9	3 J	1.57 J	5.42	ND	ND	ND	ND	21	350
Carbon disulfide	1.75 J	2.49 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245
Allyl chloride*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
1,1,2-Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	10512
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	21
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1	7008
Methyl tert-Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38	1051
Vinyl acetate	1.98 J	1.05 J	ND	ND	ND	2.07 J	0.575 J	ND	ND	ND	ND	ND	ND	ND	NE	70
2-Butanone (MEK)	2.62 J	2.29 J	2.21 J	0.89 J	1.46 J	2.72 J	1.16 J	0.788 J	0.677 J	0.94 J	ND	ND	ND	ND	NE	1752
cis-1,2-Dichloroethene	ND	ND	6.54	***26.7***	***25.6***	***30.8***	***25.4***	ND	ND	ND	ND	ND	ND	ND	NE	21
Hexane	ND	ND	ND	ND	ND	ND	2.83 J	0.839 J	0.908 J	0.662 J	ND	ND	ND	ND	NE	245
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43	34
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38	NE
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1752
Benzene	0.529 J	0.494 J	0.394 J	0.521 J	0.479 J	ND	1.68 J	1.81 J	1.69 J	1.29 J	ND	ND	ND	ND	1.3	11
Carbon tetrachloride	1.1 J	ND	ND	0.715 J	1.76 J	ND	0.674 J	0.729 J	0.791 J	0.735 J	ND	ND	3.09	ND	1.6	35
Cyclohexane	0.354 J	ND	ND	ND	ND	ND	0.591 J	0.397 J	0.349 J	ND	ND	ND	ND	ND	NE	2102
1,2-Dichloropropane	ND	0.408 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	1.4
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	NE
Trichloroethene	***89.9***	***26.8***	***4.14*** J	***9.94***	***8.68***	***14.5***	***9.7***	ND	ND	ND	ND	ND	ND	ND	2.4	0.7
Heptane	ND	ND	ND	ND	ND	ND	0.478 J	0.514 J	0.526 J	0.314 J	ND	ND	ND	ND	NE	245
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	7
4-Methyl-2-pentanone (MIBK)	0.504 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1051
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	7
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.61	NE
Toluene	4.15	3.4 J	2.21 J	1.46 J	0.95 J	2.41 J	4.1	5.16	5.45	3.21 J	ND	ND	ND	ND	NE	1752
2-Hexanone	0.261 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	11
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	NE
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.016	3.2
n-Octane	0.564 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	95
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	18
Ethylbenzene	0.932 J	0.689 J	1.23 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	350
m-Xylene & p-Xylene	2.03 J	1.93 J	3.51 J	ND	ND	ND	ND	1.06 J	1.04 J	ND	ND	ND	ND	ND	NE	35
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.9	NE
Styrene	0.691 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	350
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	NE
o-Xylene	0.747 J	ND	1.05 J	ND	ND	ND	ND	0.571 J	0.577 J	ND	ND	ND	ND	ND	NE	35
n-Nonane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	70
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	140
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	350
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	2.5
1,2,4-Trimethylbenzene	0.541 J	ND	ND	ND	ND	ND	0.586 J	0.515 J	0.521 J	0.343 J	ND	ND	ND	ND	NE	2.5
Benzyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.35
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	70
n-Decane	1.62 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	280
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	70
n-Undecane	ND	1 J	0.969 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	245
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	0.7
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	1.1
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45	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.

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 reporting or method detection limit.
B = Method Blank Contamination. The associated method blank contains the target analyte at a reportable level.
RA = Results are from a second analysis of the sample.
R4= Due to the low levels of analyte in sample, the duplicate RPD calculation does not provide useful information
H2= Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
I2= Internal standard chlorobenzene-d5 was recovered low in the initial analysis potentially adding positive bias. Affected samples were re-analyzed with comparable results.
* = Site Specific Screening Levels Are Not Available for These Compounds
(1) = Access to sample location is limited and exposure to workers is intermittent and of short duration; therefore, cancer and non-cancer risk may be scewed high.
Concentration = Indicates identified concentration is greater than Cancer SSSL
Concentration = Indicates identified concentration is greater than Non-Cancer SSSL
Concentration = Indicates identified concentration is greater than Cancer SSSL and Non-Cancer SSSL

Table 5
Analytical Data Summary for Freight Elevator Sump - VOCs
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.		R16 SUMP	TRIP BLANK	Tapwater RSL (ug/L)	MCL (ug/L)
Sample Date		7/29/2011	7/29/2011		
Units	CAS Number	All concentrations provided in milligrams per liter (µg/L)			
Acetone	67-64-1	ND	ND	22000	NE
Acrolein	107-02-8	ND	ND	0.042	NE
Acrylonitrile	107-13-1	ND	ND	0.045	NE
Benzene	71-43-2	ND	ND	0.41	5
Bromobenzene	108-86-1	ND	ND	88	NE
Bromodichloromethane	75-27-4	ND	ND	0.12	80
Bromoform	75-25-2	ND	ND	8.5	80
Bromomethane	74-83-9	ND	ND	8.7	NE
n-Butylbenzene	104-51-8	ND	ND	NE	NE
sec-Butylbenzene	135-98-8	ND	ND	NE	NE
tert-Butylbenzene	98-06-6	ND	ND	NE	NE
Carbon tetrachloride	56-23-5	ND	ND	0.44	5
Chlorobenzene	108-90-7	ND	ND	91	100
Chlorodibromomethane	124-48-1	ND	ND	0.15	80
Chloroethane	75-00-3	ND	ND	21000	NE
2-Chloroethyl vinyl ether	110-75-8	ND	ND	NE	NE
Chloroform	67-66-3	ND	ND	0.19	80
Chloromethane	74-87-3	ND	ND	190	NE
2-Chlorotoluene	95-49-8	ND	ND	730	NE
4-Chlorotoluene	106-43-4	ND	ND	2600	NE
1,2-Dibromo-3-Chloropropane	96-12-8	ND	ND	0.00032	0.00000014
1,2-Dibromoethane	106-93-4	ND	ND	0.0065	0.05
Dibromomethane	74-95-3	ND	ND	8.2	NE
1,2-Dichlorobenzene	95-50-1	ND	ND	370	600
1,3-Dichlorobenzene	541-73-1	ND	ND	NE	NE
1,4-Dichlorobenzene	106-46-7	ND	ND	0.43	75
Dichlorodifluoromethane	75-71-8	ND	ND	390	NE
1,1-Dichloroethane	75-34-3	ND	ND	2.4	NE
1,2-Dichloroethane	107-06-2	ND	ND	0.15	5
1,1-Dichloroethene	75-35-4	5.2	ND	340	7
cis-1,2-Dichloroethene	156-59-2	1100	ND	73	70
trans-1,2-Dichloroethene	156-60-5	15	ND	110	100
1,2-Dichloropropane	78-87-5	ND	ND	0.39	5
1,1-Dichloropropene	563-58-6	ND	ND	NE	NE
1,3-Dichloropropane	142-28-9	ND	ND	730	NE
cis-1,3-Dichloropropene	10061-01-5	ND	ND	NE	NE
trans-1,3-Dichloropropene	10061-02-6	ND	ND	NE	NE
2,2-Dichloropropane	594-20-7	ND	ND	NE	NE
Di-isopropyl ether	108-20-3	ND	ND	830	NE
Ethylbenzene	100-41-4	ND	ND	1.5	700
Hexachloro-1,3-butadiene	87-68-3	ND	ND	0.86	NE
Isopropylbenzene	98-82-8	ND	ND	680	NE
p-Isopropyltoluene	99-87-6	ND	ND	NE	NE
2-Butanone (MEK)	78-93-3	ND	ND	7100	NE
Methylene Chloride	75-09-2	ND	ND	4.8	5
4-Methyl-2-pentanone (MIBK)	108-10-1	ND	ND	2000	NE
Methyl tert-butyl ether	1634-04-4	ND	ND	12	NE
Naphthalene	91-20-3	ND	ND	0.14	NE
n-Propylbenzene	103-65-1	ND	ND	NE	NE
Styrene	100-42-5	ND	ND	1600	100
1,1,1,2-Tetrachloroethane	630-20-6	ND	ND	0.52	NE
1,1,2,2-Tetrachloroethane	79-34-5	ND	ND	0.067	NE
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	ND	59000	NE
Tetrachloroethene	127-18-4	ND	ND	0.11	5
Toluene	108-88-3	ND	ND	2300	1000
1,2,3-Trichlorobenzene	87-61-6	ND	ND	29	NE
1,2,4-Trichlorobenzene	120-82-1	ND	ND	2.3	70
1,1,1-Trichloroethane	71-55-6	ND	ND	9100	200
1,1,2-Trichloroethane	79-00-5	ND	ND	0.24	5
Trichloroethene	79-01-6	6.3	ND	2	5
Trichlorofluoromethane	75-69-4	ND	ND	1300	NE
1,2,3-Trichloropropane	96-18-4	ND	ND	0.00072	NE
1,2,4-Trimethylbenzene	95-63-6	ND	ND	15	NE
1,2,3-Trimethylbenzene	526-73-8	ND	ND	NE	NE
1,3,5-Trimethylbenzene	108-67-8	ND	ND	370	NE
Vinyl chloride	75-01-4	540	ND	0.016	2
Xylenes, Total	1330-20-7	ND	ND	200	10000

Source: Environmental Science Corp., 2011

Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) and Maximum Concentration Levels (MCLs) derived from the EPA Regional Screening Levels document dated November 2010

Notes:

ug/L = Groundwater concentrations reported in micrograms per liter
RSL = Regional Screening Level
MCL = Maximum Contaminant Level
" J " = Laboratory detection reported below reporting limit but above sample-specific detection limit.
ND = Chemical was not detected above the laboratory reporting or method detection limit.
NE = Not Established by the EPA
Bold = Indicates analyte reported above laboratory analytical detection limits
Bold = Indicates analyte reported above the EPA Tapwater RSL and/or MCL

Table 6
Quality Control Data - Duplicate Air Sample Comparison - VOCs
Bannister Complex - Buildings 1 and 2
Terron Project No. 02107144

Sample I.D.	B1SB-W17-VOCs	Dup-VOCs (B1SB-W17-VOCs)	RPD (%)	B1SB-A19-SS-VOCs	Dup-SS-VOCs (B1SB -A19-SS)	RPD (%)
Sample Date	7/30/2011	7/30/2011		7/29/2011	7/29/2011	
Chlorodifluoromethane	124	124	0.00%	31.4	31	1.28%
Dichlorodifluoromethane	2.85	2.75	3.57%	2.84	2.83	0.35%
Chloromethane	1.02	0.981	3.90%	ND	ND	NC
1,2-Dichloro-1,1,2,2-tetrafluoroethane*	ND	ND	NC	ND	ND	NC
Vinyl chloride	1.1	1.14	3.57%	ND	ND	NC
1,3-Butadiene	ND	ND	NC	ND	ND	NC
Butane	1.67	1.52	9.40%	ND	ND	NC
Bromomethane	ND	ND	NC	ND	ND	NC
Chloroethane	ND	ND	NC	ND	ND	NC
Acetonitrile	0.198	0.164	18.78%	ND	ND	NC
Trichlorofluoromethane	2.31	2.27	1.75%	1.58	1.6	1.26%
Acetone	25.2	25.3	0.40%	4.46	2.52	**55.59%**
Acrylonitrile	ND	ND	NC	ND	ND	NC
n-Pentane	1.44	1.2	18.18%	ND	ND	NC
Diethyl ether*	ND	ND	NC	ND	ND	NC
1,1-Dichloroethene	ND	ND	NC	ND	ND	NC
Methylene chloride	0.919	0.883	4.00%	ND	ND	NC
Carbon disulfide	ND	ND	NC	ND	ND	NC
Allyl chloride*	ND	ND	NC	ND	ND	NC
1,1,2-Trichlorotrifluoroethane	ND	ND	NC	ND	ND	NC
trans-1,2-Dichloroethene	ND	ND	NC	ND	ND	NC
1,1-Dichloroethane	ND	ND	NC	ND	ND	NC
Methyl tert-Butyl Ether	ND	ND	NC	ND	ND	NC
Vinyl acetate	0.709	ND	NC	0.566	ND	NC
2-Butanone (MEK)	1.8	1.79	0.56%	0.516	ND	NC
cis-1,2-Dichloroethene	28.4	30.9	8.43%	ND	ND	NC
Hexane	ND	ND	NC	ND	ND	NC
Chloroform	ND	ND	NC	11.5	11.4	0.87%
1,2-Dichloroethane	ND	ND	NC	ND	ND	NC
1,1,1-Trichloroethane	ND	ND	NC	ND	ND	NC
Benzene	0.629	0.454	**32.32%**	ND	ND	NC
Carbon tetrachloride	ND	ND	NC	1.05	1.01	3.88%
Cyclohexane	ND	ND	NC	ND	ND	NC
1,2-Dichloropropane	ND	ND	NC	ND	ND	NC
Bromodichloromethane	ND	ND	NC	ND	ND	NC
Trichloroethene	13.8	15.7	12.88%	4.76	4.83	1.46%
Heptane	ND	ND	NC	ND	ND	NC
cis-1,3-Dichloropropene	ND	ND	NC	ND	ND	NC
4-Methyl-2-pentanone (MIBK)	ND	ND	NC	ND	ND	NC
trans-1,3-Dichloropropene	ND	ND	NC	ND	ND	NC
1,1,2-Trichloroethane	ND	ND	NC	ND	ND	NC
Toluene	4.42	2.63	**50.78%**	ND	ND	NC
2-Hexanone	ND	ND	NC	ND	ND	NC
Chlorodibromomethane	ND	ND	NC	ND	ND	NC
1,2-Dibromoethane (EDB)	ND	ND	NC	ND	ND	NC
n-Octane	ND	ND	NC	ND	ND	NC
Tetrachloroethene	ND	ND	NC	1.68	1.71	1.77%
Chlorobenzene	ND	ND	NC	ND	ND	NC
Ethylbenzene	ND	ND	NC	ND	ND	NC
m-Xylene & p-Xylene	1.71	1.5	13.08%	ND	ND	NC
Bromoform	ND	ND	NC	ND	ND	NC
Styrene	ND	ND	NC	ND	ND	NC
1,1,2,2-Tetrachloroethane	ND	ND	NC	ND	ND	NC
o-Xylene	ND	ND	NC	ND	ND	NC
n-Nonane	ND	ND	NC	ND	ND	NC
Isopropylbenzene	ND	ND	NC	ND	ND	NC
n-Propylbenzene	ND	ND	NC	ND	ND	NC
1,3,5-Trimethylbenzene	ND	ND	NC	ND	ND	NC
1,2,4-Trimethylbenzene	ND	ND	NC	ND	ND	NC
Benzyl chloride	ND	ND	NC	ND	ND	NC
1,3-Dichlorobenzene	ND	ND	NC	ND	ND	NC
n-Decane	1.27	1.39	9.02%	ND	ND	NC
1,4-Dichlorobenzene	ND	ND	NC	ND	ND	NC
1,2-Dichlorobenzene	ND	ND	NC	ND	ND	NC
n-Undecane	ND	ND	NC	ND	ND	NC
1,2,4-Trichlorobenzene	ND	ND	NC	ND	ND	NC
Naphthalene	ND	ND	NC	ND	ND	NC
Hexachlorobutadiene	ND	ND	NC	ND	ND	NC

All concentrations provided in micrograms per cubic meter

RPD = Relative percent difference

NC = RPD not calculable due to concentrations be

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** **AUH0042**

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)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Analytical Report

Work Order: AUH0042

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

Wednesday, August 31, 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.

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: Project: Project Number:	AUH0042 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 20:56

August 31, 2011

LABORATORY REPORT

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

Work Order:	AUH0042
Project Name:	Bannister Complex
Project Number:	[none]
Date Received:	08/03/11

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, 5 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. 8/3/2011.

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.

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:	AUH0042 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 20:56

Approved By:

Dane Wacasey
Project Manager

NELAP Certification # T104704217-10-6

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 20:56

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION	MATRIX	CONTAINER TYPE
B1SB-AA17-VOCS	AUH0042-01	07/30/11 17:20	Air	Passivated Canister
B1SB-A19-SS-VOCS	AUH0042-02	07/29/11 16:34	Air	Passivated Canister
B1SB-W8-VOCS	AUH0042-03	07/29/11 12:26	Air	Passivated Canister
B1SB-J19-SS-VOCS	AUH0042-04	07/29/11 16:56	Air	Passivated Canister
B1SB-K8-SS-VOCS	AUH0042-05	07/29/11 17:50	Air	Passivated Canister
B1SB-E23-SS-VOCS	AUH0042-06	07/29/11 18:41	Air	Passivated Canister
DUP-SS-VOCS	AUH0042-07	07/29/11 16:34	Air	Passivated Canister
B1-W8-RR-VOCS	AUH0042-08	07/29/11 12:29	Air	Passivated Canister

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:56

ANALYTICAL REPORT

Sample ID: AUH0042-01 (B1SB-AA17-VOCS - Air) **Sampled: 07/30/11 17:20**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**9570**	RA, H2	ug/m³ Air	26.8	306	433	08/30/11 03:07	GCMSR1	KRW	11H0404
Dichlorodifluoromethane	**9.56**		ug/m³ Air	0.402	5.47	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Chloromethane	**1.76**	J	ug/m³ Air	0.258	2.28	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0.722	7.73	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Vinyl chloride	**1.67**	J	ug/m³ Air	0.332	2.82	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,3-Butadiene	ND		ug/m³ Air	0.130	2.44	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Butane	**17.6**		ug/m³ Air	0.169	2.63	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Bromomethane	ND		ug/m³ Air	0.472	4.29	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Chloroethane	ND		ug/m³ Air	0.385	2.92	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Acetonitrile	ND		ug/m³ Air	0.224	1.86	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Trichlorofluoromethane	**3.79**	J	ug/m³ Air	0.456	6.21	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Acetone	**99.6**	B	ug/m³ Air	0.176	2.63	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Acrylonitrile	ND		ug/m³ Air	0.181	2.40	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
n-Pentane	**7.57**		ug/m³ Air	0.377	3.26	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Diethyl ether	ND		ug/m³ Air	0.410	3.35	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,1-Dichloroethene	ND		ug/m³ Air	0.425	4.38	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Methylene chloride	**24.5**		ug/m³ Air	0.261	3.84	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Carbon disulfide	ND		ug/m³ Air	0.367	3.44	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Allyl chloride	ND		ug/m³ Air	0.526	3.46	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.766	8.47	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
trans-1,2-Dichloroethene	**1.61**	J	ug/m³ Air	0.646	4.38	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,1-Dichloroethane	ND		ug/m³ Air	0.577	4.47	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.512	3.98	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Vinyl acetate	**3.22**	J	ug/m³ Air	0.481	3.89	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
2-Butanone (MEK)	**24.6**		ug/m³ Air	0.329	3.26	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
cis-1,2-Dichloroethene	**153**		ug/m³ Air	0.324	4.38	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Hexane	**7.99**		ug/m³ Air	0.493	3.90	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Chloroform	ND		ug/m³ Air	0.704	5.40	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,2-Dichloroethane	ND		ug/m³ Air	0.472	4.47	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,1,1-Trichloroethane	ND		ug/m³ Air	0.748	6.03	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Benzene	**5.79**		ug/m³ Air	0.261	3.53	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Carbon tetrachloride	**1.36**	J	ug/m³ Air	0.514	6.95	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Cyclohexane	**1.83**	J	ug/m³ Air	0.285	3.80	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,2-Dichloropropane	ND		ug/m³ Air	0.306	5.11	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Bromodichloromethane	ND		ug/m³ Air	0.566	7.40	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Trichloroethene	**13.6**		ug/m³ Air	0.368	5.94	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Heptane	**5.25**		ug/m³ Air	0.333	4.53	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.258	5.02	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
4-Methyl-2-pentanone (MIBK)	**1.56**	J	ug/m³ Air	0.281	4.53	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.311	5.02	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297

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ANALYTICAL REPORT

Sample ID: AUH0042-01 (B1SB-AA17-VOCS - Air) - cont. **Sampled: 07/30/11 17:20**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.443	6.03	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Toluene	**90.0**		ug/m³ Air	0.308	4.16	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
2-Hexanone	**3.21**	J	ug/m³ Air	0.235	4.53	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Chlorodibromomethane	ND		ug/m³ Air	0.720	9.41	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.955	8.49	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
n-Octane	ND		ug/m³ Air	0.490	5.16	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Tetrachloroethene	**11.7**		ug/m³ Air	0.405	7.50	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Chlorobenzene	ND		ug/m³ Air	0.382	5.09	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Ethylbenzene	**5.27**		ug/m³ Air	0.535	4.80	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
m-Xylene & p-Xylene	**16.4**		ug/m³ Air	1.01	9.60	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Bromoform	ND		ug/m³ Air	1.48	11.4	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Styrene	**1.57**	J	ug/m³ Air	0.690	4.71	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.835	7.59	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
o-Xylene	**5.66**		ug/m³ Air	0.480	4.80	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
n-Nonane	**4.20**	J	ug/m³ Air	0.617	5.80	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Isopropylbenzene	ND		ug/m³ Air	0.701	5.43	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
n-Propylbenzene	ND		ug/m³ Air	0.820	5.43	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.915	5.43	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,2,4-Trimethylbenzene	**2.50**	J	ug/m³ Air	0.334	5.43	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Benzyl chloride	ND		ug/m³ Air	1.35	5.72	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,3-Dichlorobenzene	ND		ug/m³ Air	0.522	6.64	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
n-Decane	**6.40**	J	ug/m³ Air	0.617	6.43	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,4-Dichlorobenzene	ND		ug/m³ Air	0.841	6.64	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,2-Dichlorobenzene	ND		ug/m³ Air	0.738	6.64	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
n-Undecane	**2.67**	J	ug/m³ Air	0.653	7.06	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
1,2,4-Trichlorobenzene	ND		ug/m³ Air	3.66	8.20	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Naphthalene	**3.35**	J	ug/m³ Air	2.28	5.79	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Hexachlorobutadiene	ND		ug/m³ Air	4.19	11.8	5.53	08/22/11 17:48	GCMSQ2	KRW	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*77 %*						08/22/11 17:48	GCMSQ2	KRW	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*79 %*	*RA, H2*					08/30/11 03:07	GCMSR1	KRW	11H0404
Surr: Fluorobenzene (39-111%)	*78 %*						08/22/11 17:48	GCMSQ2	KRW	11H0297
Surr: Fluorobenzene (39-111%)	*54 %*	*RA, H2*					08/30/11 03:07	GCMSR1	KRW	11H0404
Surr: Toluene-d8 (79-118%)	*93 %*						08/22/11 17:48	GCMSQ2	KRW	11H0297
Surr: Toluene-d8 (79-118%)	*101 %*	*RA, H2*					08/30/11 03:07	GCMSR1	KRW	11H0404
Surr: 1,4-Dichlorobutane (80-130%)	*91 %*						08/22/11 17:48	GCMSQ2	KRW	11H0297
Surr: 1,4-Dichlorobutane (80-130%)	*98 %*	*RA, H2*					08/30/11 03:07	GCMSR1	KRW	11H0404
Surr: 4-Bromofluorobenzene (81-131%)	*114 %*						08/22/11 17:48	GCMSQ2	KRW	11H0297
Surr: 4-Bromofluorobenzene (81-131%)	*102 %*	*RA, H2*					08/30/11 03:07	GCMSR1	KRW	11H0404

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ANALYTICAL REPORT

Sample ID: AUH0042-02 (B1SB-A19-SS-VOCS - Air) **Sampled: 07/29/11 16:34**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**31.4**		ug/m³ Air	0.321	4.59	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Dichlorodifluoromethane	**2.84**	J	ug/m³ Air	0.471	6.41	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Chloromethane	ND		ug/m³ Air	0.303	2.68	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0.848	9.07	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Vinyl chloride	ND		ug/m³ Air	0.390	3.32	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,3-Butadiene	ND		ug/m³ Air	0.152	2.87	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Butane	ND		ug/m³ Air	0.199	3.08	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Bromomethane	ND		ug/m³ Air	0.554	5.04	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Chloroethane	ND		ug/m³ Air	0.452	3.42	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Acetonitrile	ND		ug/m³ Air	0.262	2.18	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Trichlorofluoromethane	**1.58**	J	ug/m³ Air	0.536	7.29	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Acetone	**4.46**	B	ug/m³ Air	0.206	3.08	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Acrylonitrile	ND		ug/m³ Air	0.212	2.81	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
n-Pentane	ND		ug/m³ Air	0.442	3.83	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Diethyl ether	ND		ug/m³ Air	0.482	3.93	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,1-Dichloroethene	ND		ug/m³ Air	0.499	5.14	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Methylene chloride	ND		ug/m³ Air	0.306	4.50	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Carbon disulfide	ND		ug/m³ Air	0.430	4.04	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Allyl chloride	ND		ug/m³ Air	0.617	4.06	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.899	9.94	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.758	5.14	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,1-Dichloroethane	ND		ug/m³ Air	0.677	5.25	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.601	4.68	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Vinyl acetate	**0.566**	J	ug/m³ Air	0.564	4.57	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
2-Butanone (MEK)	**0.516**	J	ug/m³ Air	0.386	3.82	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.381	5.14	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Hexane	ND		ug/m³ Air	0.578	4.57	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Chloroform	**11.5**		ug/m³ Air	0.826	6.33	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,2-Dichloroethane	ND		ug/m³ Air	0.554	5.25	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,1,1-Trichloroethane	ND		ug/m³ Air	0.877	7.08	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Benzene	ND		ug/m³ Air	0.307	4.14	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Carbon tetrachloride	**1.05**	J	ug/m³ Air	0.604	8.16	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Cyclohexane	ND		ug/m³ Air	0.335	4.46	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,2-Dichloropropane	ND		ug/m³ Air	0.360	5.99	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Bromodichloromethane	ND		ug/m³ Air	0.665	8.69	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Trichloroethene	**4.76**	J	ug/m³ Air	0.432	6.97	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Heptane	ND		ug/m³ Air	0.391	5.31	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.303	5.89	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.329	5.31	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.365	5.89	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297

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ANALYTICAL REPORT

Sample ID: AUH0042-02 (B1SB-A19-SS-VOCS - Air) - cont. **Sampled: 07/29/11 16:34**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.520	7.08	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Toluene	ND		ug/m³ Air	0.362	4.89	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
2-Hexanone	ND		ug/m³ Air	0.276	5.31	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Chlorodibromomethane	ND		ug/m³ Air	0.845	11.0	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	1.12	9.96	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
n-Octane	ND		ug/m³ Air	0.576	6.06	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Tetrachloroethene	**1.68**	J	ug/m³ Air	0.475	8.80	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Chlorobenzene	ND		ug/m³ Air	0.448	5.97	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Ethylbenzene	ND		ug/m³ Air	0.628	5.63	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
m-Xylene & p-Xylene	ND		ug/m³ Air	1.19	11.3	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Bromoform	ND		ug/m³ Air	1.74	13.4	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Styrene	ND		ug/m³ Air	0.809	5.52	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.979	8.90	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
o-Xylene	ND		ug/m³ Air	0.563	5.63	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
n-Nonane	ND		ug/m³ Air	0.725	6.80	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Isopropylbenzene	ND		ug/m³ Air	0.822	6.38	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
n-Propylbenzene	ND		ug/m³ Air	0.963	6.38	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,3,5-Trimethylbenzene	ND		ug/m³ Air	1.07	6.38	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.392	6.38	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Benzyl chloride	ND		ug/m³ Air	1.58	6.71	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,3-Dichlorobenzene	ND		ug/m³ Air	0.612	7.80	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
n-Decane	ND		ug/m³ Air	0.724	7.55	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,4-Dichlorobenzene	ND		ug/m³ Air	0.986	7.80	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,2-Dichlorobenzene	ND		ug/m³ Air	0.865	7.80	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
n-Undecane	ND		ug/m³ Air	0.767	8.29	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
1,2,4-Trichlorobenzene	ND		ug/m³ Air	4.30	9.62	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Naphthalene	ND		ug/m³ Air	2.68	6.80	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Hexachlorobutadiene	ND		ug/m³ Air	4.92	13.8	6.48	08/22/11 18:46	GCMSQ2	KRW	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*73 %*						08/22/11 18:46	GCMSQ2	KRW	11H0297
Surr: Fluorobenzene (39-111%)	*56 %*						08/22/11 18:46	GCMSQ2	KRW	11H0297
Surr: Toluene-d8 (79-118%)	*89 %*						08/22/11 18:46	GCMSQ2	KRW	11H0297
Surr: 1,4-Dichlorobutane (80-130%)	*86 %*						08/22/11 18:46	GCMSQ2	KRW	11H0297
Surr: 4-Bromofluorobenzene (81-131%)	*112 %*						08/22/11 18:46	GCMSQ2	KRW	11H0297

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ANALYTICAL REPORT

Sample ID: AUH0042-03 (B1SB-W8-VOCS - Air) **Sampled: 07/29/11 12:26**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**33.0**		ug/m³ Air	0.278	3.97	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Dichlorodifluoromethane	**3.37**	J	ug/m³ Air	0.408	5.55	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Chloromethane	**2.05**	J	ug/m³ Air	0.262	2.32	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0.734	7.85	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Vinyl chloride	ND		ug/m³ Air	0.337	2.87	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,3-Butadiene	ND		ug/m³ Air	0.132	2.48	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Butane	**7.88**		ug/m³ Air	0.172	2.67	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Bromomethane	ND		ug/m³ Air	0.480	4.36	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Chloroethane	**0.535**	J	ug/m³ Air	0.391	2.96	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Acetonitrile	ND		ug/m³ Air	0.227	1.89	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Trichlorofluoromethane	**2.25**	J	ug/m³ Air	0.464	6.31	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Acetone	**43.8**	B	ug/m³ Air	0.179	2.67	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Acrylonitrile	ND		ug/m³ Air	0.184	2.44	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
n-Pentane	**1.85**	J	ug/m³ Air	0.383	3.31	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Diethyl ether	ND		ug/m³ Air	0.417	3.40	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,1-Dichloroethene	ND		ug/m³ Air	0.432	4.45	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Methylene chloride	**1.52**	J	ug/m³ Air	0.265	3.90	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Carbon disulfide	**2.17**	J	ug/m³ Air	0.372	3.50	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Allyl chloride	ND		ug/m³ Air	0.534	3.51	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.779	8.60	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.657	4.45	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,1-Dichloroethane	ND		ug/m³ Air	0.586	4.54	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.520	4.05	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Vinyl acetate	**1.76**	J	ug/m³ Air	0.488	3.95	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
2-Butanone (MEK)	**3.73**		ug/m³ Air	0.334	3.31	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.329	4.45	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Hexane	**0.576**	J	ug/m³ Air	0.501	3.96	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Chloroform	**1.42**	J	ug/m³ Air	0.715	5.48	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,2-Dichloroethane	ND		ug/m³ Air	0.479	4.54	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,1,1-Trichloroethane	ND		ug/m³ Air	0.760	6.13	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Benzene	**0.633**	J	ug/m³ Air	0.265	3.59	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Carbon tetrachloride	**1.33**	J	ug/m³ Air	0.523	7.06	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Cyclohexane	**0.582**	J	ug/m³ Air	0.290	3.86	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,2-Dichloropropane	**0.353**	J	ug/m³ Air	0.311	5.19	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Bromodichloromethane	ND		ug/m³ Air	0.576	7.52	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Trichloroethene	**100**		ug/m³ Air	0.374	6.03	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Heptane	ND		ug/m³ Air	0.338	4.60	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.262	5.10	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
4-Methyl-2-pentanone (MIBK)	**0.513**	J	ug/m³ Air	0.285	4.60	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.316	5.10	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:56

ANALYTICAL REPORT

Sample ID: AUH0042-03 (B1SB-W8-VOCS - Air) - cont. **Sampled: 07/29/11 12:26**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.450	6.13	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Toluene	**3.97**	J	ug/m³ Air	0.313	4.23	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
2-Hexanone	**0.471**	J	ug/m³ Air	0.239	4.60	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Chlorodibromomethane	ND		ug/m³ Air	0.732	9.56	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.971	8.63	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
n-Octane	**0.501**	J	ug/m³ Air	0.498	5.25	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Tetrachloroethene	ND		ug/m³ Air	0.411	7.62	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Chlorobenzene	ND		ug/m³ Air	0.388	5.17	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Ethylbenzene	**0.921**	J	ug/m³ Air	0.544	4.88	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
m-Xylene & p-Xylene	**1.97**	J	ug/m³ Air	1.03	9.75	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Bromoform	ND		ug/m³ Air	1.50	11.6	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Styrene	ND		ug/m³ Air	0.701	4.78	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.848	7.71	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
o-Xylene	**0.763**	J	ug/m³ Air	0.488	4.88	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
n-Nonane	ND		ug/m³ Air	0.627	5.89	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Isopropylbenzene	ND		ug/m³ Air	0.712	5.52	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
n-Propylbenzene	ND		ug/m³ Air	0.833	5.52	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.930	5.52	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,2,4-Trimethylbenzene	**0.384**	J	ug/m³ Air	0.339	5.52	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Benzyl chloride	ND		ug/m³ Air	1.37	5.81	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,3-Dichlorobenzene	ND		ug/m³ Air	0.530	6.75	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
n-Decane	**0.964**	J	ug/m³ Air	0.627	6.53	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,4-Dichlorobenzene	ND		ug/m³ Air	0.854	6.75	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,2-Dichlorobenzene	ND		ug/m³ Air	0.749	6.75	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
n-Undecane	ND		ug/m³ Air	0.664	7.18	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
1,2,4-Trichlorobenzene	ND		ug/m³ Air	3.72	8.33	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Naphthalene	ND		ug/m³ Air	2.32	5.89	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Hexachlorobutadiene	ND		ug/m³ Air	4.26	12.0	5.61	08/22/11 19:43	GCMSQ2	KRW	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*74 %*						08/22/11 19:43	GCMSQ2	KRW	11H0297
Surr: Fluorobenzene (39-111%)	*61 %*						08/22/11 19:43	GCMSQ2	KRW	11H0297
Surr: Toluene-d8 (79-118%)	*89 %*						08/22/11 19:43	GCMSQ2	KRW	11H0297
Surr: 1,4-Dichlorobutane (80-130%)	*88 %*						08/22/11 19:43	GCMSQ2	KRW	11H0297
Surr: 4-Bromofluorobenzene (81-131%)	*113 %*						08/22/11 19:43	GCMSQ2	KRW	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0042 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:56	

ANALYTICAL REPORT

Sample ID: AUH0042-04 (B1SB-J19-SS-VOCS - Air) **Sampled: 07/29/11 16:56**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**213**		ug/m³ Air	0.366	5.23	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Dichlorodifluoromethane	**2.88**	J	ug/m³ Air	0.537	7.31	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Chloromethane	**1.12**	J	ug/m³ Air	0.345	3.05	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0.966	10.3	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Vinyl chloride	ND		ug/m³ Air	0.444	3.78	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,3-Butadiene	ND		ug/m³ Air	0.173	3.27	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Butane	**2.63**	J	ug/m³ Air	0.227	3.51	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Bromomethane	ND		ug/m³ Air	0.631	5.74	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Chloroethane	ND		ug/m³ Air	0.515	3.90	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Acetonitrile	**0.579**	J	ug/m³ Air	0.299	2.48	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Trichlorofluoromethane	**2.02**	J	ug/m³ Air	0.610	8.30	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Acetone	**62.4**	B	ug/m³ Air	0.235	3.51	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Acrylonitrile	ND		ug/m³ Air	0.242	3.21	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
n-Pentane	**1.25**	J	ug/m³ Air	0.504	4.36	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Diethyl ether	ND		ug/m³ Air	0.549	4.48	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,1-Dichloroethene	ND		ug/m³ Air	0.568	5.86	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Methylene chloride	**0.385**	J	ug/m³ Air	0.349	5.13	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Carbon disulfide	**2.21**	J	ug/m³ Air	0.490	4.60	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Allyl chloride	ND		ug/m³ Air	0.703	4.63	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.02	11.3	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.864	5.86	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,1-Dichloroethane	ND		ug/m³ Air	0.772	5.98	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.685	5.33	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Vinyl acetate	**1.66**	J	ug/m³ Air	0.643	5.20	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
2-Butanone (MEK)	**4.89**		ug/m³ Air	0.440	4.36	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
cis-1,2-Dichloroethene	**0.721**	J	ug/m³ Air	0.434	5.86	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Hexane	ND		ug/m³ Air	0.659	5.21	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Chloroform	ND		ug/m³ Air	0.942	7.22	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,2-Dichloroethane	ND		ug/m³ Air	0.631	5.98	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,1,1-Trichloroethane	ND		ug/m³ Air	1.00	8.06	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Benzene	**0.479**	J	ug/m³ Air	0.349	4.72	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Carbon tetrachloride	ND		ug/m³ Air	0.688	9.30	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Cyclohexane	ND		ug/m³ Air	0.382	5.09	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,2-Dichloropropane	ND		ug/m³ Air	0.410	6.83	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Bromodichloromethane	ND		ug/m³ Air	0.758	9.90	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Trichloroethene	**1.81**	J	ug/m³ Air	0.492	7.94	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Heptane	ND		ug/m³ Air	0.445	6.06	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.345	6.71	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
4-Methyl-2-pentanone (MIBK)	**0.720**	J	ug/m³ Air	0.375	6.05	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.416	6.71	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297

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ANALYTICAL REPORT

Sample ID: AUH0042-04 (B1SB-J19-SS-VOCS - Air) - cont. **Sampled: 07/29/11 16:56**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.593	8.06	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Toluene	**5.30**	J	ug/m³ Air	0.412	5.57	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
2-Hexanone	**2.61**	J	ug/m³ Air	0.315	6.05	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Chlorodibromomethane	ND		ug/m³ Air	0.963	12.6	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	1.28	11.4	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
n-Octane	ND		ug/m³ Air	0.656	6.90	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Tetrachloroethene	ND		ug/m³ Air	0.541	10.0	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Chlorobenzene	ND		ug/m³ Air	0.510	6.80	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Ethylbenzene	**1.81**	J	ug/m³ Air	0.715	6.42	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
m-Xylene & p-Xylene	**3.94**	J	ug/m³ Air	1.36	12.8	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Bromoform	ND		ug/m³ Air	1.98	15.3	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Styrene	**6.73**		ug/m³ Air	0.922	6.30	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	1.12	10.1	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
o-Xylene	**1.36**	J	ug/m³ Air	0.642	6.42	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
n-Nonane	ND		ug/m³ Air	0.826	7.75	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Isopropylbenzene	ND		ug/m³ Air	0.937	7.27	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
n-Propylbenzene	ND		ug/m³ Air	1.10	7.27	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,3,5-Trimethylbenzene	ND		ug/m³ Air	1.22	7.27	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,2,4-Trimethylbenzene	**1.45**	J	ug/m³ Air	0.447	7.27	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Benzyl chloride	ND		ug/m³ Air	1.81	7.65	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,3-Dichlorobenzene	ND		ug/m³ Air	0.698	8.89	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
n-Decane	**5.67**	J	ug/m³ Air	0.826	8.60	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,4-Dichlorobenzene	ND		ug/m³ Air	1.12	8.89	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,2-Dichlorobenzene	ND		ug/m³ Air	0.986	8.89	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
n-Undecane	**5.91**	J	ug/m³ Air	0.874	9.45	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
1,2,4-Trichlorobenzene	ND		ug/m³ Air	4.90	11.0	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Naphthalene	ND		ug/m³ Air	3.05	7.75	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Hexachlorobutadiene	ND		ug/m³ Air	5.60	15.8	7.39	08/22/11 20:41	GCMSQ2	KRW	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*77 %*						08/22/11 20:41	GCMSQ2	KRW	11H0297
Surr: Fluorobenzene (39-111%)	*60 %*						08/22/11 20:41	GCMSQ2	KRW	11H0297
Surr: Toluene-d8 (79-118%)	*90 %*						08/22/11 20:41	GCMSQ2	KRW	11H0297
Surr: 1,4-Dichlorobutane (80-130%)	*91 %*						08/22/11 20:41	GCMSQ2	KRW	11H0297
Surr: 4-Bromofluorobenzene (81-131%)	*115 %*						08/22/11 20:41	GCMSQ2	KRW	11H0297

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ANALYTICAL REPORT

Sample ID: AUH0042-05 (B1SB-K8-SS-VOCS - Air) **Sampled: 07/29/11 17:50**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**2.33**	J	ug/m³ Air	0.242	3.46	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Dichlorodifluoromethane	**2.57**	J	ug/m³ Air	0.355	4.83	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Chloromethane	ND		ug/m³ Air	0.228	2.02	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0.639	6.83	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Vinyl chloride	ND		ug/m³ Air	0.294	2.50	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,3-Butadiene	ND		ug/m³ Air	0.115	2.16	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Butane	**0.367**	J	ug/m³ Air	0.150	2.32	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Bromomethane	ND		ug/m³ Air	0.418	3.80	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Chloroethane	ND		ug/m³ Air	0.340	2.58	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Acetonitrile	ND		ug/m³ Air	0.198	1.64	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Trichlorofluoromethane	**1.45**	J	ug/m³ Air	0.404	5.49	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Acetone	**12.1**	B	ug/m³ Air	0.156	2.32	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Acrylonitrile	ND		ug/m³ Air	0.160	2.12	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
n-Pentane	ND		ug/m³ Air	0.333	2.88	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Diethyl ether	ND		ug/m³ Air	0.363	2.96	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,1-Dichloroethene	ND		ug/m³ Air	0.376	3.88	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Methylene chloride	**0.241**	J	ug/m³ Air	0.231	3.40	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Carbon disulfide	**0.371**	J	ug/m³ Air	0.324	3.04	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Allyl chloride	ND		ug/m³ Air	0.465	3.06	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.678	7.49	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.572	3.88	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,1-Dichloroethane	ND		ug/m³ Air	0.510	3.96	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.453	3.52	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Vinyl acetate	**1.18**	J	ug/m³ Air	0.425	3.44	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
2-Butanone (MEK)	**1.11**	J	ug/m³ Air	0.291	2.88	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.287	3.88	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Hexane	ND		ug/m³ Air	0.436	3.45	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Chloroform	ND		ug/m³ Air	0.623	4.77	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,2-Dichloroethane	ND		ug/m³ Air	0.417	3.96	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,1,1-Trichloroethane	ND		ug/m³ Air	0.661	5.33	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Benzene	ND		ug/m³ Air	0.231	3.12	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Carbon tetrachloride	**1.10**	J	ug/m³ Air	0.455	6.15	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Cyclohexane	ND		ug/m³ Air	0.252	3.36	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,2-Dichloropropane	ND		ug/m³ Air	0.271	4.52	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Bromodichloromethane	ND		ug/m³ Air	0.501	6.55	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Trichloroethene	ND		ug/m³ Air	0.326	5.25	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Heptane	ND		ug/m³ Air	0.294	4.01	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.228	4.44	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.248	4.00	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.275	4.44	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:56

ANALYTICAL REPORT

Sample ID: AUH0042-05 (B1SB-K8-SS-VOCS - Air) - cont. **Sampled: 07/29/11 17:50**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.392	5.33	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Toluene	ND		ug/m³ Air	0.273	3.68	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
2-Hexanone	ND		ug/m³ Air	0.208	4.00	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Chlorodibromomethane	ND		ug/m³ Air	0.637	8.33	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.845	7.51	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
n-Octane	ND		ug/m³ Air	0.434	4.57	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Tetrachloroethene	ND		ug/m³ Air	0.358	6.63	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Chlorobenzene	ND		ug/m³ Air	0.338	4.50	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Ethylbenzene	ND		ug/m³ Air	0.473	4.24	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
m-Xylene & p-Xylene	ND		ug/m³ Air	0.898	8.49	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Bromoform	ND		ug/m³ Air	1.31	10.1	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Styrene	ND		ug/m³ Air	0.610	4.16	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.738	6.71	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
o-Xylene	ND		ug/m³ Air	0.424	4.24	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
n-Nonane	ND		ug/m³ Air	0.546	5.13	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Isopropylbenzene	ND		ug/m³ Air	0.620	4.81	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
n-Propylbenzene	ND		ug/m³ Air	0.726	4.81	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.810	4.81	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.296	4.81	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Benzyl chloride	ND		ug/m³ Air	1.19	5.06	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,3-Dichlorobenzene	ND		ug/m³ Air	0.461	5.88	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
n-Decane	ND		ug/m³ Air	0.546	5.69	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,4-Dichlorobenzene	ND		ug/m³ Air	0.743	5.88	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,2-Dichlorobenzene	ND		ug/m³ Air	0.652	5.88	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
n-Undecane	ND		ug/m³ Air	0.578	6.25	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
1,2,4-Trichlorobenzene	ND		ug/m³ Air	3.24	7.25	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Naphthalene	ND		ug/m³ Air	2.02	5.12	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Hexachlorobutadiene	ND		ug/m³ Air	3.71	10.4	4.89	08/22/11 21:39	GCMSQ2	KRW	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*75 %*						08/22/11 21:39	GCMSQ2	KRW	11H0297
Surr: Fluorobenzene (39-111%)	*58 %*						08/22/11 21:39	GCMSQ2	KRW	11H0297
Surr: Toluene-d8 (79-118%)	*89 %*						08/22/11 21:39	GCMSQ2	KRW	11H0297
Surr: 1,4-Dichlorobutane (80-130%)	*89 %*						08/22/11 21:39	GCMSQ2	KRW	11H0297
Surr: 4-Bromofluorobenzene (81-131%)	*113 %*						08/22/11 21:39	GCMSQ2	KRW	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0042 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:56	

ANALYTICAL REPORT

Sample ID: AUH0042-06 (B1SB-E23-SS-VOCS - Air) **Sampled: 07/29/11 18:41**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**70.8**		ug/m³ Air	0.256	3.65	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Dichlorodifluoromethane	**3.66**	J	ug/m³ Air	0.376	5.11	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Chloromethane	**0.252**	J	ug/m³ Air	0.241	2.13	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0.675	7.22	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Vinyl chloride	ND		ug/m³ Air	0.310	2.64	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,3-Butadiene	ND		ug/m³ Air	0.121	2.29	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Butane	**6.67**		ug/m³ Air	0.158	2.46	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Bromomethane	ND		ug/m³ Air	0.441	4.01	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Chloroethane	ND		ug/m³ Air	0.360	2.73	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Acetonitrile	ND		ug/m³ Air	0.209	1.73	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Trichlorofluoromethane	**2.21**	J	ug/m³ Air	0.427	5.80	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Acetone	**11.0**	B	ug/m³ Air	0.164	2.45	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Acrylonitrile	ND		ug/m³ Air	0.169	2.24	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
n-Pentane	**1.89**	J	ug/m³ Air	0.352	3.05	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Diethyl ether	ND		ug/m³ Air	0.384	3.13	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,1-Dichloroethene	ND		ug/m³ Air	0.397	4.10	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Methylene chloride	ND		ug/m³ Air	0.244	3.59	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Carbon disulfide	**1.19**	J	ug/m³ Air	0.343	3.22	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Allyl chloride	ND		ug/m³ Air	0.492	3.23	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,1,2-Trichlorotrifluoroethane	**0.847**	J	ug/m³ Air	0.717	7.92	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.604	4.10	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,1-Dichloroethane	ND		ug/m³ Air	0.539	4.18	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.479	3.73	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Vinyl acetate	**1.46**	J	ug/m³ Air	0.449	3.64	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
2-Butanone (MEK)	**1.72**	J	ug/m³ Air	0.308	3.05	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.303	4.10	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Hexane	ND		ug/m³ Air	0.461	3.64	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Chloroform	**0.749**	J	ug/m³ Air	0.658	5.04	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,2-Dichloroethane	ND		ug/m³ Air	0.441	4.18	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,1,1-Trichloroethane	ND		ug/m³ Air	0.699	5.64	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Benzene	**0.895**	J	ug/m³ Air	0.244	3.30	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Carbon tetrachloride	**1.06**	J	ug/m³ Air	0.481	6.50	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Cyclohexane	ND		ug/m³ Air	0.267	3.56	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,2-Dichloropropane	ND		ug/m³ Air	0.286	4.77	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Bromodichloromethane	ND		ug/m³ Air	0.530	6.92	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Trichloroethene	**30.1**		ug/m³ Air	0.344	5.55	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Heptane	ND		ug/m³ Air	0.311	4.23	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.242	4.69	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.262	4.23	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.291	4.69	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0042 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:56	

ANALYTICAL REPORT

Sample ID: AUH0042-06 (B1SB-E23-SS-VOCS - Air) - cont. **Sampled: 07/29/11 18:41**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.414	5.64	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Toluene	**3.00**	J	ug/m³ Air	0.288	3.89	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
2-Hexanone	ND		ug/m³ Air	0.220	4.23	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Chlorodibromomethane	ND		ug/m³ Air	0.673	8.80	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.893	7.94	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
n-Octane	ND		ug/m³ Air	0.459	4.83	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Tetrachloroethene	**0.690**	J	ug/m³ Air	0.378	7.01	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Chlorobenzene	ND		ug/m³ Air	0.357	4.76	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Ethylbenzene	ND		ug/m³ Air	0.500	4.49	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
m-Xylene & p-Xylene	ND		ug/m³ Air	0.949	8.97	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Bromoform	ND		ug/m³ Air	1.38	10.7	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Styrene	ND		ug/m³ Air	0.645	4.40	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.780	7.09	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
o-Xylene	**0.545**	J	ug/m³ Air	0.449	4.49	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
n-Nonane	ND		ug/m³ Air	0.577	5.42	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Isopropylbenzene	ND		ug/m³ Air	0.655	5.08	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
n-Propylbenzene	ND		ug/m³ Air	0.767	5.08	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.856	5.08	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,2,4-Trimethylbenzene	**0.315**	J	ug/m³ Air	0.312	5.08	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Benzyl chloride	ND		ug/m³ Air	1.26	5.35	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,3-Dichlorobenzene	ND		ug/m³ Air	0.488	6.21	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
n-Decane	ND		ug/m³ Air	0.577	6.01	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,4-Dichlorobenzene	**6.31**		ug/m³ Air	0.786	6.21	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,2-Dichlorobenzene	ND		ug/m³ Air	0.690	6.21	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
n-Undecane	ND		ug/m³ Air	0.611	6.60	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
1,2,4-Trichlorobenzene	ND		ug/m³ Air	3.42	7.67	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Naphthalene	ND		ug/m³ Air	2.13	5.42	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Hexachlorobutadiene	ND		ug/m³ Air	3.92	11.0	5.17	08/22/11 22:36	GCMSQ2	KRW	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*89 %*						08/22/11 22:36	GCMSQ2	KRW	11H0297
Surr: Fluorobenzene (39-111%)	*72 %*						08/22/11 22:36	GCMSQ2	KRW	11H0297
Surr: Toluene-d8 (79-118%)	*91 %*						08/22/11 22:36	GCMSQ2	KRW	11H0297
Surr: 1,4-Dichlorobutane (80-130%)	*88 %*						08/22/11 22:36	GCMSQ2	KRW	11H0297
Surr: 4-Bromofluorobenzene (81-131%)	*114 %*						08/22/11 22:36	GCMSQ2	KRW	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0042 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:56	

ANALYTICAL REPORT

Sample ID: AUH0042-07 (DUP-SS-VOCS - Air) **Sampled: 07/29/11 16:34**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**31.0**		ug/m³ Air	0.321	4.59	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Dichlorodifluoromethane	**2.83**	J	ug/m³ Air	0.471	6.41	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Chloromethane	ND		ug/m³ Air	0.303	2.68	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0.848	9.07	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Vinyl chloride	ND		ug/m³ Air	0.390	3.32	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,3-Butadiene	ND		ug/m³ Air	0.152	2.87	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Butane	ND		ug/m³ Air	0.199	3.08	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Bromomethane	ND		ug/m³ Air	0.554	5.04	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Chloroethane	ND		ug/m³ Air	0.452	3.42	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Acetonitrile	ND		ug/m³ Air	0.262	2.18	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Trichlorofluoromethane	**1.60**	J	ug/m³ Air	0.536	7.29	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Acetone	**2.52**	J, B	ug/m³ Air	0.206	3.08	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Acrylonitrile	ND		ug/m³ Air	0.212	2.81	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
n-Pentane	ND		ug/m³ Air	0.442	3.83	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Diethyl ether	ND		ug/m³ Air	0.482	3.93	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,1-Dichloroethene	ND		ug/m³ Air	0.499	5.14	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Methylene chloride	ND		ug/m³ Air	0.306	4.50	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Carbon disulfide	ND		ug/m³ Air	0.430	4.04	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Allyl chloride	ND		ug/m³ Air	0.617	4.06	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.899	9.94	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.758	5.14	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,1-Dichloroethane	ND		ug/m³ Air	0.677	5.25	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.601	4.68	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Vinyl acetate	ND		ug/m³ Air	0.564	4.57	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
2-Butanone (MEK)	ND		ug/m³ Air	0.386	3.82	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.381	5.14	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Hexane	ND		ug/m³ Air	0.578	4.57	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Chloroform	**11.4**		ug/m³ Air	0.826	6.33	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,2-Dichloroethane	ND		ug/m³ Air	0.554	5.25	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,1,1-Trichloroethane	ND		ug/m³ Air	0.877	7.08	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Benzene	ND		ug/m³ Air	0.307	4.14	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Carbon tetrachloride	**1.01**	J	ug/m³ Air	0.604	8.16	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Cyclohexane	ND		ug/m³ Air	0.335	4.46	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,2-Dichloropropane	ND		ug/m³ Air	0.360	5.99	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Bromodichloromethane	ND		ug/m³ Air	0.665	8.69	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Trichloroethene	**4.83**	J	ug/m³ Air	0.432	6.97	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Heptane	ND		ug/m³ Air	0.391	5.31	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.303	5.89	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.329	5.31	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.365	5.89	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297

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ANALYTICAL REPORT

Sample ID: AUH0042-07 (DUP-SS-VOCS - Air) - cont. **Sampled: 07/29/11 16:34**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.520	7.08	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Toluene	ND		ug/m³ Air	0.362	4.89	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
2-Hexanone	ND		ug/m³ Air	0.276	5.31	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Chlorodibromomethane	ND		ug/m³ Air	0.845	11.0	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	1.12	9.96	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
n-Octane	ND		ug/m³ Air	0.576	6.06	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Tetrachloroethene	**1.71**	J	ug/m³ Air	0.475	8.80	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Chlorobenzene	ND		ug/m³ Air	0.448	5.97	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Ethylbenzene	ND		ug/m³ Air	0.628	5.63	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
m-Xylene & p-Xylene	ND		ug/m³ Air	1.19	11.3	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Bromoform	ND		ug/m³ Air	1.74	13.4	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Styrene	ND		ug/m³ Air	0.809	5.52	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.979	8.90	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
o-Xylene	ND		ug/m³ Air	0.563	5.63	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
n-Nonane	ND		ug/m³ Air	0.725	6.80	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Isopropylbenzene	ND		ug/m³ Air	0.822	6.38	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
n-Propylbenzene	ND		ug/m³ Air	0.963	6.38	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,3,5-Trimethylbenzene	ND		ug/m³ Air	1.07	6.38	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.392	6.38	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Benzyl chloride	ND		ug/m³ Air	1.58	6.71	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,3-Dichlorobenzene	ND		ug/m³ Air	0.612	7.80	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
n-Decane	ND		ug/m³ Air	0.724	7.55	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,4-Dichlorobenzene	ND		ug/m³ Air	0.986	7.80	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,2-Dichlorobenzene	ND		ug/m³ Air	0.865	7.80	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
n-Undecane	ND		ug/m³ Air	0.767	8.29	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
1,2,4-Trichlorobenzene	ND		ug/m³ Air	4.30	9.62	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Naphthalene	ND		ug/m³ Air	2.68	6.80	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Hexachlorobutadiene	ND		ug/m³ Air	4.92	13.8	6.48	08/22/11 23:34	GCMSQ2	KRW	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*73 %*						08/22/11 23:34	GCMSQ2	KRW	11H0297
Surr: Fluorobenzene (39-111%)	*56 %*						08/22/11 23:34	GCMSQ2	KRW	11H0297
Surr: Toluene-d8 (79-118%)	*92 %*						08/22/11 23:34	GCMSQ2	KRW	11H0297
Surr: 1,4-Dichlorobutane (80-130%)	*90 %*						08/22/11 23:34	GCMSQ2	KRW	11H0297
Surr: 4-Bromofluorobenzene (81-131%)	*115 %*						08/22/11 23:34	GCMSQ2	KRW	11H0297

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ANALYTICAL REPORT

Sample ID: AUH0042-08 (B1-W8-RR-VOCS - Air) **Sampled: 07/29/11 12:29**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**30.7**		ug/m³ Air	0.267	3.81	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Dichlorodifluoromethane	**3.39**	J	ug/m³ Air	0.392	5.33	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Chloromethane	**1.02**	J	ug/m³ Air	0.252	2.23	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0.705	7.54	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Vinyl chloride	ND		ug/m³ Air	0.324	2.76	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,3-Butadiene	ND		ug/m³ Air	0.126	2.39	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Butane	**9.77**		ug/m³ Air	0.165	2.56	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Bromomethane	ND		ug/m³ Air	0.461	4.19	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Chloroethane	ND		ug/m³ Air	0.376	2.84	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Acetonitrile	**0.231**	J	ug/m³ Air	0.218	1.81	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Trichlorofluoromethane	**2.07**	J	ug/m³ Air	0.445	6.06	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Acetone	**33.9**	B	ug/m³ Air	0.172	2.56	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Acrylonitrile	ND		ug/m³ Air	0.177	2.34	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
n-Pentane	**1.59**	J	ug/m³ Air	0.367	3.18	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Diethyl ether	ND		ug/m³ Air	0.400	3.27	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,1-Dichloroethene	ND		ug/m³ Air	0.415	4.27	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Methylene chloride	**0.672**	J	ug/m³ Air	0.255	3.75	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Carbon disulfide	**1.75**	J	ug/m³ Air	0.358	3.36	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Allyl chloride	ND		ug/m³ Air	0.513	3.37	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.748	8.26	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.631	4.27	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,1-Dichloroethane	ND		ug/m³ Air	0.563	4.36	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.500	3.89	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Vinyl acetate	**1.98**	J	ug/m³ Air	0.469	3.80	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
2-Butanone (MEK)	**2.62**	J	ug/m³ Air	0.321	3.18	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.316	4.27	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Hexane	ND		ug/m³ Air	0.481	3.80	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Chloroform	ND		ug/m³ Air	0.687	5.26	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,2-Dichloroethane	ND		ug/m³ Air	0.460	4.36	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,1,1-Trichloroethane	ND		ug/m³ Air	0.729	5.88	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Benzene	**0.529**	J	ug/m³ Air	0.255	3.44	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Carbon tetrachloride	**1.10**	J	ug/m³ Air	0.502	6.78	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Cyclohexane	**0.354**	J	ug/m³ Air	0.278	3.71	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,2-Dichloropropane	ND		ug/m³ Air	0.299	4.98	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Bromodichloromethane	ND		ug/m³ Air	0.553	7.22	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Trichloroethene	**89.9**		ug/m³ Air	0.359	5.79	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Heptane	ND		ug/m³ Air	0.325	4.42	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.252	4.89	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
4-Methyl-2-pentanone (MIBK)	**0.504**	J	ug/m³ Air	0.274	4.42	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.303	4.89	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297

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ANALYTICAL REPORT

Sample ID: AUH0042-08 (B1-W8-RR-VOCS - Air) - cont. **Sampled: 07/29/11 12:29**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.432	5.88	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Toluene	**4.15**		ug/m³ Air	0.301	4.06	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
2-Hexanone	**0.261**	J	ug/m³ Air	0.230	4.42	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Chlorodibromomethane	ND		ug/m³ Air	0.703	9.18	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.932	8.28	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
n-Octane	**0.564**	J	ug/m³ Air	0.479	5.04	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Tetrachloroethene	ND		ug/m³ Air	0.395	7.31	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Chlorobenzene	ND		ug/m³ Air	0.372	4.96	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Ethylbenzene	**0.932**	J	ug/m³ Air	0.522	4.68	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
m-Xylene & p-Xylene	**2.03**	J	ug/m³ Air	0.990	9.36	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Bromoform	ND		ug/m³ Air	1.44	11.1	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Styrene	**0.691**	J	ug/m³ Air	0.673	4.59	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.814	7.40	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
o-Xylene	**0.747**	J	ug/m³ Air	0.468	4.68	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
n-Nonane	ND		ug/m³ Air	0.602	5.66	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Isopropylbenzene	ND		ug/m³ Air	0.684	5.30	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
n-Propylbenzene	ND		ug/m³ Air	0.800	5.30	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.893	5.30	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,2,4-Trimethylbenzene	**0.541**	J	ug/m³ Air	0.326	5.30	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Benzyl chloride	ND		ug/m³ Air	1.32	5.58	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,3-Dichlorobenzene	ND		ug/m³ Air	0.509	6.48	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
n-Decane	**1.62**	J	ug/m³ Air	0.602	6.27	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,4-Dichlorobenzene	ND		ug/m³ Air	0.820	6.48	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,2-Dichlorobenzene	ND		ug/m³ Air	0.720	6.48	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
n-Undecane	ND		ug/m³ Air	0.638	6.89	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
1,2,4-Trichlorobenzene	ND		ug/m³ Air	3.57	8.00	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Naphthalene	ND		ug/m³ Air	2.22	5.65	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Hexachlorobutadiene	ND		ug/m³ Air	4.09	11.5	5.39	08/23/11 00:32	GCMSQ2	KRW	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*73 %*						08/23/11 00:32	GCMSQ2	KRW	11H0297
Surr: Fluorobenzene (39-111%)	*59 %*						08/23/11 00:32	GCMSQ2	KRW	11H0297
Surr: Toluene-d8 (79-118%)	*93 %*						08/23/11 00:32	GCMSQ2	KRW	11H0297
Surr: 1,4-Dichlorobutane (80-130%)	*92 %*						08/23/11 00:32	GCMSQ2	KRW	11H0297
Surr: 4-Bromofluorobenzene (81-131%)	*115 %*						08/23/11 00:32	GCMSQ2	KRW	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa	Work Order:	AUH0042		Received:	08/03/11 09:15
13910 W 96th Terrace				Reported:	08/31/11 20:56
Lenexa, KS 66215	Project:	Bannister Complex			
Wil W. King	Project Number:	[none]			

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0297-BLK1 (Blank - Air)										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0.0990	1.41	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Dichlorodifluoromethane	ND		ug/m³ Air	0.145	1.98	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Chloromethane	ND		ug/m³ Air	0.0933	0.826	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	0.261	2.80	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Vinyl chloride	ND		ug/m³ Air	0.120	1.02	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,3-Butadiene	ND		ug/m³ Air	0.0469	0.885	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Butane	ND		ug/m³ Air	0.0613	0.951	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Bromomethane	ND		ug/m³ Air	0.171	1.55	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Chloroethane	ND		ug/m³ Air	0.139	1.06	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Acetonitrile	ND		ug/m³ Air	0.0809	0.672	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Trichlorofluoromethane	ND		ug/m³ Air	0.165	2.25	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Acetone	**0.295**	J	ug/m³ Air	0.0637	0.950	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Acrylonitrile	ND		ug/m³ Air	0.0655	0.868	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
n-Pentane	ND		ug/m³ Air	0.136	1.18	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Diethyl ether	ND		ug/m³ Air	0.149	1.21	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,1-Dichloroethene	ND		ug/m³ Air	0.154	1.59	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Methylene chloride	ND		ug/m³ Air	0.0945	1.39	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Carbon disulfide	ND		ug/m³ Air	0.133	1.25	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Allyl chloride	ND		ug/m³ Air	0.190	1.25	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.277	3.07	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.234	1.59	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,1-Dichloroethane	ND		ug/m³ Air	0.209	1.62	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.185	1.44	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Vinyl acetate	ND		ug/m³ Air	0.174	1.41	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
2-Butanone (MEK)	ND		ug/m³ Air	0.119	1.18	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.117	1.59	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Hexane	ND		ug/m³ Air	0.178	1.41	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Chloroform	ND		ug/m³ Air	0.255	1.95	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,2-Dichloroethane	ND		ug/m³ Air	0.171	1.62	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,1,1-Trichloroethane	ND		ug/m³ Air	0.271	2.18	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Benzene	ND		ug/m³ Air	0.0946	1.28	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Carbon tetrachloride	ND		ug/m³ Air	0.186	2.52	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Cyclohexane	ND		ug/m³ Air	0.103	1.38	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,2-Dichloropropane	ND		ug/m³ Air	0.111	1.85	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Bromodichloromethane	ND		ug/m³ Air	0.205	2.68	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Trichloroethene	ND		ug/m³ Air	0.133	2.15	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0297-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Heptane	ND		ug/m³ Air	0.120	1.64	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.0935	1.82	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.102	1.64	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.113	1.82	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,1,2-Trichloroethane	ND		ug/m³ Air	0.160	2.18	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Toluene	ND		ug/m³ Air	0.112	1.51	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
2-Hexanone	ND		ug/m³ Air	0.0852	1.64	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Chlorodibromomethane	ND		ug/m³ Air	0.261	3.41	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.346	3.07	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
n-Octane	ND		ug/m³ Air	0.178	1.87	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Tetrachloroethene	ND		ug/m³ Air	0.147	2.71	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Chlorobenzene	ND		ug/m³ Air	0.138	1.84	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Ethylbenzene	ND		ug/m³ Air	0.194	1.74	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
m-Xylene & p-Xylene	ND		ug/m³ Air	0.367	3.47	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Bromoform	ND		ug/m³ Air	0.535	4.13	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Styrene	ND		ug/m³ Air	0.250	1.70	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.302	2.75	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
o-Xylene	ND		ug/m³ Air	0.174	1.74	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
n-Nonane	ND		ug/m³ Air	0.223	2.10	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Isopropylbenzene	ND		ug/m³ Air	0.254	1.97	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
n-Propylbenzene	ND		ug/m³ Air	0.297	1.97	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.331	1.97	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.121	1.97	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Benzyl chloride	ND		ug/m³ Air	0.489	2.07	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,3-Dichlorobenzene	ND		ug/m³ Air	0.189	2.40	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
n-Decane	ND		ug/m³ Air	0.223	2.33	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,4-Dichlorobenzene	ND		ug/m³ Air	0.304	2.40	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,2-Dichlorobenzene	ND		ug/m³ Air	0.267	2.40	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
n-Undecane	ND		ug/m³ Air	0.237	2.56	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
1,2,4-Trichlorobenzene	ND		ug/m³ Air	1.33	2.97	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Naphthalene	ND		ug/m³ Air	0.825	2.10	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Hexachlorobutadiene	ND		ug/m³ Air	1.52	4.27	2.00	08/22/11 16:50	GCMSQ2	KRW	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*89%*						08/22/11 16:50	GCMSQ2	KRW	11H0297
Surr: Fluorobenzene (39-111%)	*66%*						08/22/11 16:50	GCMSQ2	KRW	11H0297
Surr: Toluene-d8 (79-118%)	*90%*						08/22/11 16:50	GCMSQ2	KRW	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0297-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Surr: 1,4-Dichlorobutane (80-130%)	*89%*						08/22/11 16:50	GCMSQ2	KRW	11H0297
Surr: 4-Bromofluorobenzene (81-131%)	*115%*						08/22/11 16:50	GCMSQ2	KRW	11H0297
Sample ID: 11H0404-BLK1 (Blank - Air)										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0.124	1.41	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Dichlorodifluoromethane	ND		ug/m³ Air	0.231	1.98	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Chloromethane	ND		ug/m³ Air	0.0595	0.826	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	1.03	2.80	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Vinyl chloride	ND		ug/m³ Air	0.148	1.02	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,3-Butadiene	ND		ug/m³ Air	0.0841	0.885	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Butane	ND		ug/m³ Air	0.0870	0.951	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Bromomethane	ND		ug/m³ Air	0.246	1.55	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Chloroethane	ND		ug/m³ Air	0.131	1.06	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Acetonitrile	ND		ug/m³ Air	0.0433	0.672	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Trichlorofluoromethane	ND		ug/m³ Air	0.160	2.25	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Acetone	**0.0907**	J	ug/m³ Air	0.0703	0.950	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Acrylonitrile	ND		ug/m³ Air	0.111	0.868	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
n-Pentane	ND		ug/m³ Air	0.0791	1.18	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Diethyl ether	ND		ug/m³ Air	0.0964	1.21	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,1-Dichloroethene	ND		ug/m³ Air	0.0952	1.59	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Methylene chloride	ND		ug/m³ Air	0.127	1.39	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Carbon disulfide	ND		ug/m³ Air	0.280	1.25	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Allyl chloride	ND		ug/m³ Air	0.191	1.25	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.403	3.07	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.204	1.59	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,1-Dichloroethane	ND		ug/m³ Air	0.160	1.62	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.158	1.44	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Vinyl acetate	ND		ug/m³ Air	0.276	1.41	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
2-Butanone (MEK)	ND		ug/m³ Air	0.157	1.18	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.144	1.59	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Hexane	ND		ug/m³ Air	0.154	1.41	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Chloroform	ND		ug/m³ Air	0.161	1.95	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,2-Dichloroethane	ND		ug/m³ Air	0.113	1.62	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0404-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
1,1,1-Trichloroethane	ND		ug/m³ Air	0.212	2.18	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Benzene	ND		ug/m³ Air	0.134	1.28	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Carbon tetrachloride	ND		ug/m³ Air	0.684	2.52	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Cyclohexane	ND		ug/m³ Air	0.171	1.38	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,2-Dichloropropane	ND		ug/m³ Air	0.147	1.85	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Bromodichloromethane	ND		ug/m³ Air	0.629	2.68	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Trichloroethene	ND		ug/m³ Air	0.145	2.15	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Heptane	ND		ug/m³ Air	0.134	1.64	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.192	1.82	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.311	1.64	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.273	1.82	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,1,2-Trichloroethane	ND		ug/m³ Air	0.220	2.18	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Toluene	ND		ug/m³ Air	0.116	1.51	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
2-Hexanone	ND		ug/m³ Air	0.418	1.64	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Chlorodibromomethane	ND		ug/m³ Air	0.833	3.41	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.307	3.07	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
n-Octane	ND		ug/m³ Air	0.192	1.87	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Tetrachloroethene	ND		ug/m³ Air	0.227	2.71	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Chlorobenzene	ND		ug/m³ Air	0.134	1.84	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Ethylbenzene	ND		ug/m³ Air	0.243	1.74	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
m-Xylene & p-Xylene	ND		ug/m³ Air	0.533	3.47	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Bromoform	ND		ug/m³ Air	0.602	4.13	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Styrene	ND		ug/m³ Air	0.199	1.70	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.888	2.75	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
o-Xylene	ND		ug/m³ Air	0.267	1.74	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
n-Nonane	ND		ug/m³ Air	0.299	2.10	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Isopropylbenzene	ND		ug/m³ Air	0.254	1.97	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
n-Propylbenzene	ND		ug/m³ Air	0.396	1.97	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.323	1.97	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.363	1.97	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Benzyl chloride	ND		ug/m³ Air	0.303	2.07	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,3-Dichlorobenzene	ND		ug/m³ Air	0.630	2.40	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
n-Decane	ND		ug/m³ Air	0.398	2.33	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,4-Dichlorobenzene	ND		ug/m³ Air	0.513	2.40	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,2-Dichlorobenzene	ND		ug/m³ Air	0.801	2.40	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
n-Undecane	ND		ug/m³ Air	0.321	2.56	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0404-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.344	2.97	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Naphthalene	ND		ug/m³ Air	0.440	2.10	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Hexachlorobutadiene	ND		ug/m³ Air	0.661	4.27	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*92%*						08/29/11 18:08	GCMSR1	KRW	11H0404
Surr: Fluorobenzene (39-111%)	*65%*						08/29/11 18:08	GCMSR1	KRW	11H0404
Surr: Toluene-d8 (79-118%)	*102%*						08/29/11 18:08	GCMSR1	KRW	11H0404
Surr: 1,4-Dichlorobutane (80-130%)	*111%*						08/29/11 18:08	GCMSR1	KRW	11H0404
Surr: 4-Bromofluorobenzene (81-131%)	*106%*						08/29/11 18:08	GCMSR1	KRW	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

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: 11H0297-CCV1 (Calibration Check - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Dichlorodifluoromethane	53.4		ug/m³ Air	3.96	4.00	51.4	104%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Chloromethane	18.4		ug/m³ Air	1.65	4.00	21.7	85%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,2-Dichloro-1,1,2,2-tetrafluoroethane	71.0		ug/m³ Air	5.59	4.00	72.0	99%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Vinyl chloride	24.0		ug/m³ Air	2.04	4.00	26.6	90%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,3-Butadiene	22.6		ug/m³ Air	1.77	4.00	24.4	92%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Butane	21.3		ug/m³ Air	1.90	4.00	24.2	88%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Bromomethane	39.0		ug/m³ Air	3.11	4.00	40.4	97%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Chloroethane	27.4		ug/m³ Air	2.11	4.00	27.4	100%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Acetonitrile	16.2		ug/m³ Air	1.34	4.00	18.2	89%	50 - 150	GCMSQ2	08/22/11 12:35	11H0297
Trichlorofluoromethane	68.4		ug/m³ Air	4.49	4.00	60.9	112%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Acetone	28.7	B	ug/m³ Air	1.90	4.00	27.5	105%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Acrylonitrile	23.5		ug/m³ Air	1.74	4.00	24.0	98%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
n-Pentane	31.1		ug/m³ Air	2.36	4.00	32.0	97%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,1-Dichloroethene	45.1		ug/m³ Air	3.17	4.00	43.3	104%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Methylene chloride	37.5		ug/m³ Air	2.78	4.00	37.2	101%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Carbon disulfide	34.4		ug/m³ Air	2.49	4.00	33.7	102%	50 - 150	GCMSQ2	08/22/11 12:35	11H0297
Allyl chloride	**46.7**	**C8**	**ug/m³ Air**	**2.50**	**4.00**	**34.9**	**134%**	**70 - 130**	**GCMSQ2**	**08/22/11 12:35**	**11H0297**
1,1,2-Trichlorotrifluoroethane	88.4		ug/m³ Air	6.13	4.00	83.0	106%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
trans-1,2-Dichloroethene	44.0		ug/m³ Air	3.17	4.00	43.3	102%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,1-Dichloroethane	46.4		ug/m³ Air	3.24	4.00	45.1	103%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Methyl tert-Butyl Ether	**50.8**	**C8**	**ug/m³ Air**	**2.88**	**4.00**	**38.7**	**131%**	**70 - 130**	**GCMSQ2**	**08/22/11 12:35**	**11H0297**
Vinyl acetate	48.9		ug/m³ Air	2.82	4.00	40.7	120%	50 - 150	GCMSQ2	08/22/11 12:35	11H0297
2-Butanone (MEK)	40.0		ug/m³ Air	2.36	4.00	33.8	118%	50 - 150	GCMSQ2	08/22/11 12:35	11H0297
cis-1,2-Dichloroethene	47.7		ug/m³ Air	3.17	4.00	43.8	109%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Hexane	46.9		ug/m³ Air	2.82	4.00	39.3	119%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Chloroform	56.6		ug/m³ Air	3.91	4.00	53.4	106%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,2-Dichloroethane	50.0		ug/m³ Air	3.24	4.00	45.1	111%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,1,1-Trichloroethane	73.9		ug/m³ Air	4.36	4.00	60.8	122%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Benzene	35.1		ug/m³ Air	2.56	4.00	35.9	98%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Carbon tetrachloride	84.9		ug/m³ Air	5.03	4.00	69.5	122%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Cyclohexane	41.9		ug/m³ Air	2.75	4.00	38.4	109%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,2-Dichloropropane	48.2		ug/m³ Air	3.70	4.00	51.5	94%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Bromodichloromethane	75.5		ug/m³ Air	5.36	4.00	71.2	106%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Trichloroethene	61.8		ug/m³ Air	4.30	4.00	57.1	108%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Heptane	41.6		ug/m³ Air	3.28	4.00	44.4	94%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
cis-1,3-Dichloropropene	58.8		ug/m³ Air	3.63	4.00	49.6	119%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

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: 11H0297-CCV1 (Calibration Check - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
4-Methyl-2-pentanone (MIBK)	44.7		ug/m³ Air	3.28	4.00	47.0	95%	50 - 150	GCMSQ2	08/22/11 12:35	11H0297
trans-1,3-Dichloropropene	59.9		ug/m³ Air	3.63	4.00	52.5	114%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,1,2-Trichloroethane	62.0		ug/m³ Air	4.36	4.00	61.4	101%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Toluene	42.9		ug/m³ Air	3.01	4.00	43.2	99%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Chlorodibromomethane	103		ug/m³ Air	6.81	4.00	93.1	110%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,2-Dibromoethane (EDB)	90.6		ug/m³ Air	6.15	4.00	87.2	104%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
n-Octane	48.1		ug/m³ Air	3.74	4.00	50.6	95%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Tetrachloroethene	82.1		ug/m³ Air	5.43	4.00	75.6	109%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Chlorobenzene	52.7		ug/m³ Air	3.68	4.00	52.3	101%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Ethylbenzene	60.7		ug/m³ Air	3.47	4.00	49.3	123%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
m-Xylene & p-Xylene	102		ug/m³ Air	6.95	4.00	96.7	105%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Bromoform	125		ug/m³ Air	8.27	4.00	115	109%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Styrene	53.5		ug/m³ Air	3.41	4.00	48.8	110%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,1,2,2-Tetrachloroethane	75.2		ug/m³ Air	5.49	4.00	77.2	97%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
o-Xylene	52.9		ug/m³ Air	3.47	4.00	48.9	108%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
n-Nonane	51.1		ug/m³ Air	4.20	4.00	56.2	91%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Isopropylbenzene	59.4		ug/m³ Air	3.93	4.00	51.1	116%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
n-Propylbenzene	54.3		ug/m³ Air	3.93	4.00	51.7	105%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,3,5-Trimethylbenzene	63.8		ug/m³ Air	3.93	4.00	56.3	113%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,2,4-Trimethylbenzene	65.3		ug/m³ Air	3.93	4.00	56.3	116%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
Benzyl chloride	68.2		ug/m³ Air	4.14	4.00	59.3	115%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,3-Dichlorobenzene	83.9		ug/m³ Air	4.81	4.00	68.9	122%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
n-Decane	56.1		ug/m³ Air	4.66	4.00	63.0	89%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,4-Dichlorobenzene	83.3		ug/m³ Air	4.81	4.00	68.2	122%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
1,2-Dichlorobenzene	83.6		ug/m³ Air	4.81	4.00	68.2	123%	70 - 130	GCMSQ2	08/22/11 12:35	11H0297
n-Undecane	68.7		ug/m³ Air	5.11	4.00	68.5	100%	50 - 150	GCMSQ2	08/22/11 12:35	11H0297
1,2,4-Trichlorobenzene	114		ug/m³ Air	5.94	4.00	85.1	134%	50 - 150	GCMSQ2	08/22/11 12:35	11H0297
Naphthalene	69.3		ug/m³ Air	4.19	4.00	60.1	115%	50 - 150	GCMSQ2	08/22/11 12:35	11H0297
Hexachlorobutadiene	181		ug/m³ Air	8.53	4.00	121	150%	50 - 150	GCMSQ2	08/22/11 12:35	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*105%*								GCMSQ2	08/22/11 12:35	11H0297
Surr: Fluorobenzene (70-130%)	*99%*								GCMSQ2	08/22/11 12:35	11H0297
Surr: Toluene-d8 (70-130%)	*97%*								GCMSQ2	08/22/11 12:35	11H0297
Surr: 1,4-Dichlorobutane (70-130%)	*91%*								GCMSQ2	08/22/11 12:35	11H0297
Surr: 4-Bromofluorobenzene (70-130%)	*102%*								GCMSQ2	08/22/11 12:35	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

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: 11H0404-CCV1 (Calibration Check - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Dichlorodifluoromethane	45.2		ug/m³ Air	1.98	2.00	51.1	88%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Chloromethane	19.1		ug/m³ Air	0.826	2.00	21.5	89%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,2-Dichloro-1,1,2,2-tetrafluoroethane	61.4		ug/m³ Air	2.80	2.00	71.4	86%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Vinyl chloride	22.7		ug/m³ Air	1.02	2.00	26.4	86%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,3-Butadiene	21.9		ug/m³ Air	0.885	2.00	24.2	90%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Butane	21.1		ug/m³ Air	0.951	2.00	24.1	88%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Bromomethane	33.9		ug/m³ Air	1.55	2.00	40.1	85%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Chloroethane	23.3		ug/m³ Air	1.06	2.00	27.3	85%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Acetonitrile	17.3		ug/m³ Air	0.672	2.00	18.0	96%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
Trichlorofluoromethane	54.5		ug/m³ Air	2.25	2.00	60.3	90%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Acetone	27.0	B	ug/m³ Air	0.950	2.00	27.3	99%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Acrylonitrile	24.6		ug/m³ Air	0.868	2.00	23.8	103%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
n-Pentane	29.5		ug/m³ Air	1.18	2.00	31.7	93%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,1-Dichloroethene	39.6		ug/m³ Air	1.59	2.00	43.0	92%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Methylene chloride	34.2		ug/m³ Air	1.39	2.00	37.0	93%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Carbon disulfide	32.1		ug/m³ Air	1.25	2.00	33.5	96%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
Allyl chloride	31.1		ug/m³ Air	1.25	2.00	34.6	90%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,1,2-Trichlorotrifluoroethane	74.0		ug/m³ Air	3.07	2.00	82.3	90%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
trans-1,2-Dichloroethene	39.2		ug/m³ Air	1.59	2.00	43.0	91%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,1-Dichloroethane	36.3		ug/m³ Air	1.62	2.00	44.8	81%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Methyl tert-Butyl Ether	31.3		ug/m³ Air	1.44	2.00	38.4	82%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Vinyl acetate	38.7		ug/m³ Air	1.41	2.00	40.4	96%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
2-Butanone (MEK)	30.0		ug/m³ Air	1.18	2.00	33.5	89%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
cis-1,2-Dichloroethene	36.7		ug/m³ Air	1.59	2.00	43.4	85%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Hexane	33.0		ug/m³ Air	1.41	2.00	39.0	85%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Chloroform	43.4		ug/m³ Air	1.95	2.00	53.0	82%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,2-Dichloroethane	39.9		ug/m³ Air	1.62	2.00	44.8	89%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,1,1-Trichloroethane	51.2		ug/m³ Air	2.18	2.00	60.3	85%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Benzene	32.3		ug/m³ Air	1.28	2.00	35.7	91%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Carbon tetrachloride	66.0		ug/m³ Air	2.52	2.00	68.9	96%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Cyclohexane	35.3		ug/m³ Air	1.38	2.00	38.1	93%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,2-Dichloropropane	47.9		ug/m³ Air	1.85	2.00	51.1	94%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Bromodichloromethane	67.3		ug/m³ Air	2.68	2.00	70.6	95%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Trichloroethene	51.9		ug/m³ Air	2.15	2.00	56.6	92%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Heptane	42.0		ug/m³ Air	1.64	2.00	44.0	95%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
cis-1,3-Dichloropropene	46.1		ug/m³ Air	1.82	2.00	49.2	94%	70 - 130	GCMSR1	08/29/11 15:06	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

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: 11H0404-CCV1 (Calibration Check - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
4-Methyl-2-pentanone (MIBK)	48.4		ug/m³ Air	1.64	2.00	46.6	104%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
trans-1,3-Dichloropropene	49.0		ug/m³ Air	1.82	2.00	52.1	94%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,1,2-Trichloroethane	56.8		ug/m³ Air	2.18	2.00	60.9	93%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Toluene	41.6		ug/m³ Air	1.51	2.00	42.9	97%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Chlorodibromomethane	88.3		ug/m³ Air	3.41	2.00	92.4	96%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,2-Dibromoethane (EDB)	76.7		ug/m³ Air	3.07	2.00	86.5	89%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
n-Octane	53.4		ug/m³ Air	1.87	2.00	50.2	106%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Tetrachloroethene	72.9		ug/m³ Air	2.71	2.00	75.0	97%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Chlorobenzene	49.5		ug/m³ Air	1.84	2.00	51.8	95%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Ethylbenzene	50.7		ug/m³ Air	1.74	2.00	48.9	104%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
m-Xylene & p-Xylene	99.7		ug/m³ Air	3.47	2.00	96.0	104%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Bromoform	110		ug/m³ Air	4.13	2.00	114	96%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Styrene	48.9		ug/m³ Air	1.70	2.00	48.4	101%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,1,2,2-Tetrachloroethane	63.4		ug/m³ Air	2.75	2.00	76.6	83%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
o-Xylene	50.9		ug/m³ Air	1.74	2.00	48.5	105%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
n-Nonane	62.0		ug/m³ Air	2.10	2.00	55.8	111%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Isopropylbenzene	52.7		ug/m³ Air	1.97	2.00	50.8	104%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
n-Propylbenzene	48.1		ug/m³ Air	1.97	2.00	51.3	94%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,3,5-Trimethylbenzene	48.4		ug/m³ Air	1.97	2.00	55.9	87%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,2,4-Trimethylbenzene	49.9		ug/m³ Air	1.97	2.00	55.9	89%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Benzyl chloride	**83.6**	**C8**	**ug/m³ Air**	**2.07**	**2.00**	**58.9**	**142%**	**70 - 130**	**GCMSR1**	**08/29/11 15:06**	**11H0404**
1,3-Dichlorobenzene	56.7		ug/m³ Air	2.40	2.00	68.4	83%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
n-Decane	68.8		ug/m³ Air	2.33	2.00	62.5	110%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,4-Dichlorobenzene	66.2		ug/m³ Air	2.40	2.00	67.7	98%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,2-Dichlorobenzene	73.9		ug/m³ Air	2.40	2.00	67.7	109%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
n-Undecane	76.8		ug/m³ Air	2.56	2.00	68.0	113%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
1,2,4-Trichlorobenzene	104		ug/m³ Air	2.97	2.00	84.4	123%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
Naphthalene	61.8		ug/m³ Air	2.10	2.00	59.6	104%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
Hexachlorobutadiene	148		ug/m³ Air	4.27	2.00	120	123%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*97%*								GCMSR1	08/29/11 15:06	11H0404
Surr: Fluorobenzene (70-130%)	*89%*								GCMSR1	08/29/11 15:06	11H0404
Surr: Toluene-d8 (70-130%)	*103%*								GCMSR1	08/29/11 15:06	11H0404
Surr: 1,4-Dichlorobutane (70-130%)	*102%*								GCMSR1	08/29/11 15:06	11H0404
Surr: 4-Bromofluorobenzene (70-130%)	*103%*								GCMSR1	08/29/11 15:06	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 20:56

PROJECT QUALITY CONTROL DATA

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0404-DUP1 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	**22.7**		**22.4**	ug/m³ Air	1	25	11H0404	AUH0047-05	08/29/11 21:09
Dichlorodifluoromethane	**2.53**	J	**2.55**	ug/m³ Air	0.7	25	11H0404	AUH0047-05	08/29/11 21:09
Chloromethane	**0.932**	J	**0.919**	ug/m³ Air	1	25	11H0404	AUH0047-05	08/29/11 21:09
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Vinyl chloride	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,3-Butadiene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Butane	**3.16**		**3.05**	ug/m³ Air	3	25	11H0404	AUH0047-05	08/29/11 21:09
Bromomethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Chloroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Acetouitrile	**0.155**	J	**0.158**	ug/m³ Air	2	25	11H0404	AUH0047-05	08/29/11 21:09
Trichlorofluoromethane	**1.80**	J	**1.83**	ug/m³ Air	2	25	11H0404	AUH0047-05	08/29/11 21:09
Acetone	**25.5**	B	**25.0**	ug/m³ Air	2	25	11H0404	AUH0047-05	08/29/11 21:09
Acrylonitrile	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
n-Pentane	**2.26**	J	**2.39**	ug/m³ Air	5	25	11H0404	AUH0047-05	08/29/11 21:09
Diethyl ether	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Methylene chloride	**0.496**	J	**0.476**	ug/m³ Air	4	25	11H0404	AUH0047-05	08/29/11 21:09
Carbon disulfide	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Allyl chloride	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,1,2-Trichlorotrifluoroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Methyl tert-Butyl Ether	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Vinyl acetate	**0.794**	J	**0.931**	ug/m³ Air	16	50	11H0404	AUH0047-05	08/29/11 21:09
2-Butanone (MEK)	**3.00**	J	**2.96**	ug/m³ Air	1	25	11H0404	AUH0047-05	08/29/11 21:09
cis-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Hexane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Chloroform	**1.07**	J	0.989	ug/m³ Air	8	25	11H0404	AUH0047-05	08/29/11 21:09
1,2-Dichloroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Benzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Carbon tetrachloride	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Cyclohexane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0404-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Bromodichloromethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Trichloroethene	**1.65**	J	**1.78**	ug/m³ Air	8	25	11H0404	AUH0047-05	08/29/11 21:09
Heptane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Toluene	**3.49**	J	**3.32**	ug/m³ Air	5	25	11H0404	AUH0047-05	08/29/11 21:09
2-Hexanone	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
n-Octane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Tetrachloroethene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Chlorobenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Ethylbenzene	**1.27**	J	**1.16**	ug/m³ Air	8	25	11H0404	AUH0047-05	08/29/11 21:09
m-Xylene & p-Xylene	**3.33**	J	**3.36**	ug/m³ Air	0.8	25	11H0404	AUH0047-05	08/29/11 21:09
Bromoform	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Styrene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
o-Xylene	**0.882**	J	0.990	ug/m³ Air	12	25	11H0404	AUH0047-05	08/29/11 21:09
n-Nonane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Isopropylbenzene	ND		ND	ug/m³ Air		50	11H0404	AUH0047-05	08/29/11 21:09
n-Propylbenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Benzyl chloride	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
n-Decane	**1.18**	J	1.09	ug/m³ Air	7	25	11H0404	AUH0047-05	08/29/11 21:09
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
n-Undecane	**1.22**	J	1.13	ug/m³ Air	8	25	11H0404	AUH0047-05	08/29/11 21:09
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Naphthalene	1.35		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09

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Terracon Consulting Eng. & Scientists-Lenexa	Work Order:	AUH0042		Received:	08/03/11 09:15
13910 W 96th Terrace				Reported:	08/31/11 20:56
Lenexa, KS 66215	Project:	Bannister Complex			
Wil W. King	Project Number:	[none]			

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0404-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*78%*						11H0404		08/29/11 21:09
Surr: Fluorobenzene (39-111%)	*55%*						11H0404		08/29/11 21:09
Surr: Toluene-d8 (79-118%)	*98%*						11H0404		08/29/11 21:09
Surr: 1,4-Dichlorobutane (80-130%)	*99%*						11H0404		08/29/11 21:09
Surr: 4-Bromofluorobenzene (81-131%)	*108%*						11H0404		08/29/11 21:09

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

PROJECT QUALITY CONTROL DATA

LCS

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11H0297-BS1 (LCS - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Chlorodifluoromethane	33.3		ug/m³ Air	2.83	4.00	38.1	87%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Dichlorodifluoromethane	47.4		ug/m³ Air	3.96	4.00	51.7	92%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Chloromethane	16.3		ug/m³ Air	1.65	4.00	21.8	75%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,2-Dichloro-1,1,2,2-tetrafluoroethane	56.4		ug/m³ Air	5.59	4.00	73.1	77%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Vinyl chloride	20.8		ug/m³ Air	2.04	4.00	27.0	77%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,3-Butadiene	19.5		ug/m³ Air	1.77	4.00	23.8	82%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Butane	17.6		ug/m³ Air	1.90	4.00	24.1	73%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Bromomethane	36.0		ug/m³ Air	3.11	4.00	40.6	89%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Chloroethane	24.3		ug/m³ Air	2.11	4.00	27.3	89%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Acetonitrile	13.4		ug/m³ Air	1.34	4.00	17.6	77%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Trichlorofluoromethane	61.1		ug/m³ Air	4.49	4.00	60.0	102%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Acetone	21.4	B	ug/m³ Air	1.90	4.00	25.6	84%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Acrylonitrile	18.0		ug/m³ Air	1.74	4.00	23.4	77%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
n-Pentane	27.0		ug/m³ Air	2.36	4.00	31.8	85%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Diethyl ether	28.3		ug/m³ Air	2.43	4.00	32.7	87%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,1-Dichloroethene	42.2		ug/m³ Air	3.17	4.00	43.1	98%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Methylene chloride	33.4		ug/m³ Air	2.78	4.00	37.1	90%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Carbon disulfide	24.4		ug/m³ Air	2.49	4.00	33.9	72%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Allyl chloride	39.3		ug/m³ Air	2.50	4.00	33.4	118%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,1,2-Trichlorotrifluoroethane	82.0		ug/m³ Air	6.13	4.00	84.1	97%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
trans-1,2-Dichloroethene	35.8		ug/m³ Air	3.17	4.00	41.9	86%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,1-Dichloroethane	38.2		ug/m³ Air	3.24	4.00	44.0	87%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Methyl tert-Butyl Ether	45.7		ug/m³ Air	2.88	4.00	39.6	115%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Vinyl acetate	28.6		ug/m³ Air	2.82	4.00	39.8	72%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
2-Butanone (MEK)	23.2		ug/m³ Air	2.36	4.00	33.3	70%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
cis-1,2-Dichloroethene	39.9		ug/m³ Air	3.17	4.00	44.0	91%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Hexane	37.8		ug/m³ Air	2.82	4.00	40.6	93%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Chloroform	49.4		ug/m³ Air	3.91	4.00	52.1	95%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,2-Dichloroethane	41.1		ug/m³ Air	3.24	4.00	44.0	93%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,1,1-Trichloroethane	63.3		ug/m³ Air	4.36	4.00	58.8	108%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Benzene	36.3		ug/m³ Air	2.56	4.00	34.8	104%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Carbon tetrachloride	89.0		ug/m³ Air	5.03	4.00	71.1	125%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Cyclohexane	38.3		ug/m³ Air	2.75	4.00	38.2	100%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,2-Dichloropropane	50.4		ug/m³ Air	3.70	4.00	50.7	99%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Bromodichloromethane	85.2		ug/m³ Air	5.36	4.00	74.3	115%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Trichloroethene	64.8		ug/m³ Air	4.30	4.00	59.6	109%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

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: 11H0297-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Heptane	42.1		ug/m³ Air	3.28	4.00	45.5	93%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
cis-1,3-Dichloropropene	65.0		ug/m³ Air	3.63	4.00	51.3	127%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
4-Methyl-2-pentanone (MIBK)	41.6		ug/m³ Air	3.28	4.00	46.7	89%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
trans-1,3-Dichloropropene	56.9		ug/m³ Air	3.63	4.00	47.0	121%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,1,2-Trichloroethane	63.7		ug/m³ Air	4.36	4.00	59.9	106%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Toluene	43.4		ug/m³ Air	3.01	4.00	41.8	104%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
2-Hexanone	46.1		ug/m³ Air	3.28	4.00	46.3	100%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Chlorodibromomethane	109		ug/m³ Air	6.81	4.00	95.3	115%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,2-Dibromoethane (EDB)	92.8		ug/m³ Air	6.15	4.00	84.4	110%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
n-Octane	47.9		ug/m³ Air	3.74	4.00	49.9	96%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Tetrachloroethene	81.7		ug/m³ Air	5.43	4.00	70.3	116%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Chlorobenzene	54.1		ug/m³ Air	3.68	4.00	51.5	105%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Ethylbenzene	62.1		ug/m³ Air	3.47	4.00	48.2	129%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
m-Xylene & p-Xylene	104		ug/m³ Air	6.95	4.00	94.5	110%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Bromoform	140		ug/m³ Air	8.27	4.00	113	124%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Styrene	54.5		ug/m³ Air	3.41	4.00	47.7	114%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,1,2,2-Tetrachloroethane	77.3		ug/m³ Air	5.49	4.00	77.6	100%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
o-Xylene	54.2		ug/m³ Air	3.47	4.00	49.1	110%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
n-Nonane	52.9		ug/m³ Air	4.20	4.00	56.0	94%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Isopropylbenzene	59.6		ug/m³ Air	3.93	4.00	51.9	115%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
n-Propylbenzene	55.4		ug/m³ Air	3.93	4.00	51.4	108%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,3,5-Trimethylbenzene	61.7		ug/m³ Air	3.93	4.00	54.0	114%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,2,4-Trimethylbenzene	65.2		ug/m³ Air	3.93	4.00	53.5	122%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Benzyl chloride	76.3		ug/m³ Air	4.14	4.00	57.9	132%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,3-Dichlorobenzene	81.4		ug/m³ Air	4.81	4.00	67.3	121%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
n-Decane	55.8		ug/m³ Air	4.66	4.00	63.3	88%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,4-Dichlorobenzene	80.9		ug/m³ Air	4.81	4.00	65.4	124%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,2-Dichlorobenzene	81.6		ug/m³ Air	4.81	4.00	67.3	121%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
n-Undecane	66.0		ug/m³ Air	5.11	4.00	69.6	95%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
1,2,4-Trichlorobenzene	111		ug/m³ Air	5.94	4.00	84.6	132%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Naphthalene	61.5		ug/m³ Air	4.19	4.00	56.5	109%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Hexachlorobutadiene	172		ug/m³ Air	8.53	4.00	118	145%	50 - 150	GCMSQ2	08/22/11 13:57	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*92%*								GCMSQ2	08/22/11 13:57	11H0297
Surr: Fluorobenzene (39-111%)	*85%*								GCMSQ2	08/22/11 13:57	11H0297
Surr: Toluene-d8 (79-118%)	*98%*								GCMSQ2	08/22/11 13:57	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

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: 11H0297-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Surr: 1,4-Dichlorobutane (80-130%)	*93%*								GCMSQ2	08/22/11 13:57	11H0297
Surr: 4-Bromofluorobenzene (81-131%)	*104%*								GCMSQ2	08/22/11 13:57	11H0297
Sample ID: 11H0404-BS1 (LCS - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Chlorodifluoromethane	37.2		ug/m³ Air	1.41	2.00	38.1	98%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Dichlorodifluoromethane	47.1		ug/m³ Air	1.98	2.00	51.7	91%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Chloromethane	20.2		ug/m³ Air	0.826	2.00	21.8	93%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,2-Dichloro-1,1,2,2-tetrafluoroethane	57.0		ug/m³ Air	2.80	2.00	73.1	78%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Vinyl chloride	24.1		ug/m³ Air	1.02	2.00	27.0	89%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,3-Butadiene	22.8		ug/m³ Air	0.885	2.00	23.8	96%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Butane	21.2		ug/m³ Air	0.951	2.00	24.1	88%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Bromomethane	36.2		ug/m³ Air	1.55	2.00	40.6	89%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Chloroethane	24.6		ug/m³ Air	1.06	2.00	27.3	90%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Acetonitrile	15.7		ug/m³ Air	0.672	2.00	17.6	89%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Trichlorofluoromethane	56.6		ug/m³ Air	2.25	2.00	60.0	94%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Acetone	24.9	B	ug/m³ Air	0.950	2.00	25.6	97%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Acrylonitrile	22.1		ug/m³ Air	0.868	2.00	23.4	95%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
n-Pentane	30.0		ug/m³ Air	1.18	2.00	31.8	94%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Diethyl ether	32.8		ug/m³ Air	1.21	2.00	32.7	101%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,1-Dichloroethene	41.7		ug/m³ Air	1.59	2.00	43.1	97%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Methylene chloride	36.0		ug/m³ Air	1.39	2.00	37.1	97%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Carbon disulfide	25.4		ug/m³ Air	1.25	2.00	33.9	75%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Allyl chloride	30.1		ug/m³ Air	1.25	2.00	33.4	90%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,1,2-Trichlorotrifluoroethane	79.0		ug/m³ Air	3.07	2.00	84.1	94%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
trans-1,2-Dichloroethene	38.3		ug/m³ Air	1.59	2.00	41.9	91%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,1-Dichloroethane	36.1		ug/m³ Air	1.62	2.00	44.0	82%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Methyl tert-Butyl Ether	33.5		ug/m³ Air	1.44	2.00	39.6	85%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Vinyl acetate	31.4		ug/m³ Air	1.41	2.00	39.8	79%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
2-Butanone (MEK)	27.1		ug/m³ Air	1.18	2.00	33.3	81%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
cis-1,2-Dichloroethene	37.5		ug/m³ Air	1.59	2.00	44.0	85%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Hexane	30.8		ug/m³ Air	1.41	2.00	40.6	76%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Chloroform	44.4		ug/m³ Air	1.95	2.00	52.1	85%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,2-Dichloroethane	40.1		ug/m³ Air	1.62	2.00	44.0	91%	50 - 150	GCMSR1	08/29/11 16:07	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

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: 11H0404-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
1,1,1-Trichloroethane	51.7		ug/m³ Air	2.18	2.00	58.8	88%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Benzene	33.0		ug/m³ Air	1.28	2.00	34.8	95%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Carbon tetrachloride	61.2		ug/m³ Air	2.52	2.00	71.1	86%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Cyclohexane	34.1		ug/m³ Air	1.38	2.00	38.2	89%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,2-Dichloropropane	48.9		ug/m³ Air	1.85	2.00	50.7	96%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Bromodichloromethane	73.2		ug/m³ Air	2.68	2.00	74.3	99%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Trichloroethene	53.2		ug/m³ Air	2.15	2.00	59.6	89%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Heptane	40.9		ug/m³ Air	1.64	2.00	45.5	90%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
cis-1,3-Dichloropropene	49.3		ug/m³ Air	1.82	2.00	51.3	96%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
4-Methyl-2-pentanone (MIBK)	42.9		ug/m³ Air	1.64	2.00	46.7	92%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
trans-1,3-Dichloropropene	45.1		ug/m³ Air	1.82	2.00	47.0	96%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,1,2-Trichloroethane	57.7		ug/m³ Air	2.18	2.00	59.9	96%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Toluene	41.7		ug/m³ Air	1.51	2.00	41.8	100%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
2-Hexanone	45.3		ug/m³ Air	1.64	2.00	46.3	98%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Chlorodibromomethane	93.4		ug/m³ Air	3.41	2.00	95.3	98%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,2-Dibromoethane (EDB)	74.6		ug/m³ Air	3.07	2.00	84.4	88%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
n-Octane	52.0		ug/m³ Air	1.87	2.00	49.9	104%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Tetrachloroethene	73.9		ug/m³ Air	2.71	2.00	70.3	105%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Chlorobenzene	50.3		ug/m³ Air	1.84	2.00	51.5	98%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Ethylbenzene	51.9		ug/m³ Air	1.74	2.00	48.2	108%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
m-Xylene & p-Xylene	102		ug/m³ Air	3.47	2.00	94.5	108%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Bromoform	115		ug/m³ Air	4.13	2.00	113	102%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Styrene	50.1		ug/m³ Air	1.70	2.00	47.7	105%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,1,2,2-Tetrachloroethane	66.1		ug/m³ Air	2.75	2.00	77.6	85%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
o-Xylene	52.6		ug/m³ Air	1.74	2.00	49.1	107%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
n-Nonane	63.2		ug/m³ Air	2.10	2.00	56.0	113%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Isopropylbenzene	54.7		ug/m³ Air	1.97	2.00	51.9	105%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
n-Propylbenzene	49.7		ug/m³ Air	1.97	2.00	51.4	97%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,3,5-Trimethylbenzene	49.0		ug/m³ Air	1.97	2.00	54.0	91%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,2,4-Trimethylbenzene	47.8		ug/m³ Air	1.97	2.00	53.5	89%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Benzyl chloride	77.0		ug/m³ Air	2.07	2.00	57.9	133%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,3-Dichlorobenzene	50.3		ug/m³ Air	2.40	2.00	67.3	75%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
n-Decane	59.2		ug/m³ Air	2.33	2.00	63.3	94%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,4-Dichlorobenzene	52.7		ug/m³ Air	2.40	2.00	65.4	81%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,2-Dichlorobenzene	58.6		ug/m³ Air	2.40	2.00	67.3	87%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
n-Undecane	70.6		ug/m³ Air	2.56	2.00	69.6	102%	50 - 150	GCMSR1	08/29/11 16:07	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

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: 11H0404-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
1,2,4-Trichlorobenzene	99.9		ug/m³ Air	2.97	2.00	84.6	118%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Naphthalene	51.5		ug/m³ Air	2.10	2.00	56.5	91%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Hexachlorobutadiene	149		ug/m³ Air	4.27	2.00	118	126%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*98%*								GCMSR1	08/29/11 16:07	11H0404
Surr: Fluorobenzene (39-111%)	*88%*								GCMSR1	08/29/11 16:07	11H0404
Surr: Toluene-d8 (79-118%)	*100%*								GCMSR1	08/29/11 16:07	11H0404
Surr: 1,4-Dichlorobutane (80-130%)	*104%*								GCMSR1	08/29/11 16:07	11H0404
Surr: 4-Bromofluorobenzene (81-131%)	*105%*								GCMSR1	08/29/11 16:07	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

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: 11H0297-BSD1 (LCS Dup - Air)												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Chlorodifluoromethane	32.5		ug/m³ Air	2.83	4.00	38.1	85%	50 - 150	2	25	08/22/11 14:53	11H0297
Dichlorodifluoromethane	46.8		ug/m³ Air	3.96	4.00	51.7	90%	50 - 150	1	25	08/22/11 14:53	11H0297
Chloromethane	16.5		ug/m³ Air	1.65	4.00	21.8	76%	50 - 150	1	25	08/22/11 14:53	11H0297
1,2-Dichloro-1,1,2,2-tetrafluoroethane	55.8		ug/m³ Air	5.59	4.00	73.1	76%	50 - 150	1	25	08/22/11 14:53	11H0297
Vinyl chloride	20.8		ug/m³ Air	2.04	4.00	27.0	77%	50 - 150	0.1	25	08/22/11 14:53	11H0297
1,3-Butadiene	19.7		ug/m³ Air	1.77	4.00	23.8	83%	50 - 150	1	25	08/22/11 14:53	11H0297
Butane	17.8		ug/m³ Air	1.90	4.00	24.1	74%	50 - 150	0.9	25	08/22/11 14:53	11H0297
Bromomethane	34.9		ug/m³ Air	3.11	4.00	40.6	86%	50 - 150	3	25	08/22/11 14:53	11H0297
Chloroethane	24.0		ug/m³ Air	2.11	4.00	27.3	88%	50 - 150	1	25	08/22/11 14:53	11H0297
Acetonitrile	12.9		ug/m³ Air	1.34	4.00	17.6	74%	50 - 150	4	25	08/22/11 14:53	11H0297
Trichlorofluoromethane	60.6		ug/m³ Air	4.49	4.00	60.0	101%	50 - 150	0.8	25	08/22/11 14:53	11H0297
Acetone	20.5	B	ug/m³ Air	1.90	4.00	25.6	80%	50 - 150	4	25	08/22/11 14:53	11H0297
Acrylonitrile	17.7		ug/m³ Air	1.74	4.00	23.4	76%	50 - 150	1	25	08/22/11 14:53	11H0297
n-Pentane	27.8		ug/m³ Air	2.36	4.00	31.8	87%	50 - 150	3	25	08/22/11 14:53	11H0297
Diethyl ether	27.6		ug/m³ Air	2.43	4.00	32.7	84%	50 - 150	3	25	08/22/11 14:53	11H0297
1,1-Dichloroethene	42.7		ug/m³ Air	3.17	4.00	43.1	99%	50 - 150	1	25	08/22/11 14:53	11H0297
Methylene chloride	32.3		ug/m³ Air	2.78	4.00	37.1	87%	50 - 150	3	25	08/22/11 14:53	11H0297
Carbon disulfide	24.0		ug/m³ Air	2.49	4.00	33.9	71%	50 - 150	2	25	08/22/11 14:53	11H0297
Allyl chloride	38.7		ug/m³ Air	2.50	4.00	33.4	116%	50 - 150	2	25	08/22/11 14:53	11H0297
1,1,2-Trichlorotrifluoroethane	79.7		ug/m³ Air	6.13	4.00	84.1	95%	50 - 150	3	25	08/22/11 14:53	11H0297
trans-1,2-Dichloroethene	35.3		ug/m³ Air	3.17	4.00	41.9	84%	50 - 150	2	25	08/22/11 14:53	11H0297
1,1-Dichloroethane	37.3		ug/m³ Air	3.24	4.00	44.0	85%	50 - 150	2	25	08/22/11 14:53	11H0297
Methyl tert-Butyl Ether	44.5		ug/m³ Air	2.88	4.00	39.6	112%	50 - 150	3	25	08/22/11 14:53	11H0297
Vinyl acetate	28.1		ug/m³ Air	2.82	4.00	39.8	71%	50 - 150	2	50	08/22/11 14:53	11H0297
2-Butanone (MEK)	22.8		ug/m³ Air	2.36	4.00	33.3	68%	50 - 150	2	25	08/22/11 14:53	11H0297
cis-1,2-Dichloroethene	39.2		ug/m³ Air	3.17	4.00	44.0	89%	50 - 150	2	25	08/22/11 14:53	11H0297
Hexane	37.3		ug/m³ Air	2.82	4.00	40.6	92%	50 - 150	1	25	08/22/11 14:53	11H0297
Chloroform	48.4		ug/m³ Air	3.91	4.00	52.1	93%	50 - 150	2	25	08/22/11 14:53	11H0297
1,2-Dichloroethane	40.8		ug/m³ Air	3.24	4.00	44.0	93%	50 - 150	0.9	25	08/22/11 14:53	11H0297
1,1,1-Trichloroethane	60.6		ug/m³ Air	4.36	4.00	58.8	103%	50 - 150	4	25	08/22/11 14:53	11H0297
Benzene	34.6		ug/m³ Air	2.56	4.00	34.8	100%	50 - 150	5	25	08/22/11 14:53	11H0297
Carbon tetrachloride	83.7		ug/m³ Air	5.03	4.00	71.1	118%	50 - 150	6	25	08/22/11 14:53	11H0297
Cyclohexane	36.4		ug/m³ Air	2.75	4.00	38.2	95%	50 - 150	5	25	08/22/11 14:53	11H0297
1,2-Dichloropropane	48.6		ug/m³ Air	3.70	4.00	50.7	96%	50 - 150	4	25	08/22/11 14:53	11H0297
Bromodichloromethane	82.6		ug/m³ Air	5.36	4.00	74.3	111%	50 - 150	3	25	08/22/11 14:53	11H0297
Trichloroethene	61.9		ug/m³ Air	4.30	4.00	59.6	104%	50 - 150	5	25	08/22/11 14:53	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:56

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: 11H0297-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Heptane	40.4		ug/m³ Air	3.28	4.00	45.5	89%	50 - 150	4	25	08/22/11 14:53	11H0297
cis-1,3-Dichloropropene	63.2		ug/m³ Air	3.63	4.00	51.3	123%	50 - 150	3	25	08/22/11 14:53	11H0297
4-Methyl-2-pentanone (MIBK)	40.0		ug/m³ Air	3.28	4.00	46.7	86%	50 - 150	4	25	08/22/11 14:53	11H0297
trans-1,3-Dichloropropene	55.2		ug/m³ Air	3.63	4.00	47.0	117%	50 - 150	3	25	08/22/11 14:53	11H0297
1,1,2-Trichloroethane	61.6		ug/m³ Air	4.36	4.00	59.9	103%	50 - 150	3	25	08/22/11 14:53	11H0297
Toluene	41.4		ug/m³ Air	3.01	4.00	41.8	99%	50 - 150	5	25	08/22/11 14:53	11H0297
2-Hexanone	45.2		ug/m³ Air	3.28	4.00	46.3	98%	50 - 150	2	25	08/22/11 14:53	11H0297
Chlorodibromomethane	106		ug/m³ Air	6.81	4.00	95.3	111%	50 - 150	4	25	08/22/11 14:53	11H0297
1,2-Dibromoethane (EDB)	90.1		ug/m³ Air	6.15	4.00	84.4	107%	50 - 150	3	25	08/22/11 14:53	11H0297
n-Octane	46.8		ug/m³ Air	3.74	4.00	49.9	94%	50 - 150	2	25	08/22/11 14:53	11H0297
Tetrachloroethene	78.4		ug/m³ Air	5.43	4.00	70.3	112%	50 - 150	4	25	08/22/11 14:53	11H0297
Chlorobenzene	52.9		ug/m³ Air	3.68	4.00	51.5	103%	50 - 150	2	25	08/22/11 14:53	11H0297
Ethylbenzene	60.0		ug/m³ Air	3.47	4.00	48.2	125%	50 - 150	3	25	08/22/11 14:53	11H0297
m-Xylene & p-Xylene	101		ug/m³ Air	6.95	4.00	94.5	107%	50 - 150	3	25	08/22/11 14:53	11H0297
Bromoform	137		ug/m³ Air	8.27	4.00	113	122%	50 - 150	2	25	08/22/11 14:53	11H0297
Styrene	53.0		ug/m³ Air	3.41	4.00	47.7	111%	50 - 150	3	25	08/22/11 14:53	11H0297
1,1,2,2-Tetrachloroethane	76.4		ug/m³ Air	5.49	4.00	77.6	98%	50 - 150	1	25	08/22/11 14:53	11H0297
o-Xylene	53.3		ug/m³ Air	3.47	4.00	49.1	109%	50 - 150	2	25	08/22/11 14:53	11H0297
n-Nonane	52.3		ug/m³ Air	4.20	4.00	56.0	93%	50 - 150	1	25	08/22/11 14:53	11H0297
Isopropylbenzene	59.0		ug/m³ Air	3.93	4.00	51.9	114%	50 - 150	0.9	50	08/22/11 14:53	11H0297
n-Propylbenzene	54.5		ug/m³ Air	3.93	4.00	51.4	106%	50 - 150	2	25	08/22/11 14:53	11H0297
1,3,5-Trimethylbenzene	60.8		ug/m³ Air	3.93	4.00	54.0	113%	50 - 150	2	25	08/22/11 14:53	11H0297
1,2,4-Trimethylbenzene	64.3		ug/m³ Air	3.93	4.00	53.5	120%	50 - 150	1	25	08/22/11 14:53	11H0297
Benzyl chloride	75.1		ug/m³ Air	4.14	4.00	57.9	130%	50 - 150	2	25	08/22/11 14:53	11H0297
1,3-Dichlorobenzene	79.5		ug/m³ Air	4.81	4.00	67.3	118%	50 - 150	2	25	08/22/11 14:53	11H0297
n-Decane	54.8		ug/m³ Air	4.66	4.00	63.3	87%	50 - 150	2	25	08/22/11 14:53	11H0297
1,4-Dichlorobenzene	78.5		ug/m³ Air	4.81	4.00	65.4	120%	50 - 150	3	25	08/22/11 14:53	11H0297
1,2-Dichlorobenzene	80.9		ug/m³ Air	4.81	4.00	67.3	120%	50 - 150	0.9	25	08/22/11 14:53	11H0297
n-Undecane	63.3		ug/m³ Air	5.11	4.00	69.6	91%	50 - 150	4	25	08/22/11 14:53	11H0297
1,2,4-Trichlorobenzene	102		ug/m³ Air	5.94	4.00	84.6	120%	50 - 150	9	25	08/22/11 14:53	11H0297
Naphthalene	55.4		ng/m³ Air	4.19	4.00	56.5	98%	50 - 150	10	25	08/22/11 14:53	11H0297
Hexachlorobutadiene	168		ug/m³ Air	8.53	4.00	118	142%	50 - 150	3	25	08/22/11 14:53	11H0297
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*89%*										08/22/11 14:53	11H0297
Surr: Fluorobenzene (39-111%)	*85%*										08/22/11 14:53	11H0297
Surr: Toluene-d8 (79-118%)	*96%*										08/22/11 14:53	11H0297

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0042 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:56	

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: 11H0297-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Surr: 1,4-Dichlorobutane (80-130%)	*93%*										08/22/11 14:53	11H0297
Surr: 4-Bromofluorobenzene (81-131%)	*104%*										08/22/11 14:53	11H0297
Sample ID: 11H0404-BSD1 (LCS Dup - Air)												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Chlorodifluoromethane	36.7		ug/m³ Air	1.41	2.00	38.1	96%	50 - 150	1	25	08/29/11 17:08	11H0404
Dichlorodifluoromethane	46.6		ug/m³ Air	1.98	2.00	51.7	90%	50 - 150	1	25	08/29/11 17:08	11H0404
Chloromethane	19.5		ug/m³ Air	0.826	2.00	21.8	90%	50 - 150	3	25	08/29/11 17:08	11H0404
1,2-Dichloro-1,1,2,2-tetrafluoroethane	55.9		ug/m³ Air	2.80	2.00	73.1	76%	50 - 150	2	25	08/29/11 17:08	11H0404
Vinyl chloride	23.2		ug/m³ Air	1.02	2.00	27.0	86%	50 - 150	4	25	08/29/11 17:08	11H0404
1,3-Butadiene	22.1		ug/m³ Air	0.885	2.00	23.8	93%	50 - 150	3	25	08/29/11 17:08	11H0404
Butane	20.4		ug/m³ Air	0.951	2.00	24.1	85%	50 - 150	4	25	08/29/11 17:08	11H0404
Bromomethane	35.0		ug/m³ Air	1.55	2.00	40.6	86%	50 - 150	3	25	08/29/11 17:08	11H0404
Chloroethane	23.6		ug/m³ Air	1.06	2.00	27.3	86%	50 - 150	4	25	08/29/11 17:08	11H0404
Acetonitrile	15.5		ug/m³ Air	0.672	2.00	17.6	88%	50 - 150	1	25	08/29/11 17:08	11H0404
Trichlorofluoromethane	56.9		ug/m³ Air	2.25	2.00	60.0	95%	50 - 150	0.5	25	08/29/11 17:08	11H0404
Acetone	24.7	B	ug/m³ Air	0.950	2.00	25.6	97%	50 - 150	0.5	25	08/29/11 17:08	11H0404
Acrylonitrile	22.2		ug/m³ Air	0.868	2.00	23.4	95%	50 - 150	0.6	25	08/29/11 17:08	11H0404
n-Pentane	29.4		ug/m³ Air	1.18	2.00	31.8	92%	50 - 150	2	25	08/29/11 17:08	11H0404
Diethyl ether	32.8		ug/m³ Air	1.21	2.00	32.7	100%	50 - 150	0.2	25	08/29/11 17:08	11H0404
1,1-Dichloroethene	41.8		ug/m³ Air	1.59	2.00	43.1	97%	50 - 150	0.1	25	08/29/11 17:08	11H0404
Methylene chloride	36.1		ug/m³ Air	1.39	2.00	37.1	98%	50 - 150	0.3	25	08/29/11 17:08	11H0404
Carbon disulfide	25.5		ug/m³ Air	1.25	2.00	33.9	75%	50 - 150	0.5	25	08/29/11 17:08	11H0404
Allyl chloride	30.1		ug/m³ Air	1.25	2.00	33.4	90%	50 - 150	0.02	25	08/29/11 17:08	11H0404
1,1,2-Trichlorotrifluoroethane	79.6		ug/m³ Air	3.07	2.00	84.1	95%	50 - 150	0.7	25	08/29/11 17:08	11H0404
trans-1,2-Dichloroethene	39.0		ug/m³ Air	1.59	2.00	41.9	93%	50 - 150	2	25	08/29/11 17:08	11H0404
1,1-Dichloroethane	36.0		ug/m³ Air	1.62	2.00	44.0	82%	50 - 150	0.1	25	08/29/11 17:08	11H0404
Methyl tert-Butyl Ether	33.2		ug/m³ Air	1.44	2.00	39.6	84%	50 - 150	0.9	25	08/29/11 17:08	11H0404
Vinyl acetate	31.8		ug/m³ Air	1.41	2.00	39.8	80%	50 - 150	1	50	08/29/11 17:08	11H0404
2-Butanone (MEK)	27.0		ug/m³ Air	1.18	2.00	33.3	81%	50 - 150	0.1	25	08/29/11 17:08	11H0404
cis-1,2-Dichloroethene	37.2		ug/m³ Air	1.59	2.00	44.0	85%	50 - 150	1	25	08/29/11 17:08	11H0404
Hexane	30.3		ug/m³ Air	1.41	2.00	40.6	75%	50 - 150	2	25	08/29/11 17:08	11H0404
Chloroform	44.5		ug/m³ Air	1.95	2.00	52.1	85%	50 - 150	0.3	25	08/29/11 17:08	11H0404
1,2-Dichloroethane	40.8		ug/m³ Air	1.62	2.00	44.0	93%	50 - 150	2	25	08/29/11 17:08	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa	Work Order:	AUH0042		Received:	08/03/11 09:15
13910 W 96th Terrace				Reported:	08/31/11 20:56
Lenexa, KS 66215	Project:	Bannister Complex			
Wil W. King	Project Number:	[none]			

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: 11H0404-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
1,1,1-Trichloroethane	51.8		ug/m³ Air	2.18	2.00	58.8	88%	50 - 150	0.2	25	08/29/11 17:08	11H0404
Benzene	32.8		ug/m³ Air	1.28	2.00	34.8	94%	50 - 150	0.6	25	08/29/11 17:08	11H0404
Carbon tetrachloride	61.4		ug/m³ Air	2.52	2.00	71.1	86%	50 - 150	0.4	25	08/29/11 17:08	11H0404
Cyclohexane	33.5		ug/m³ Air	1.38	2.00	38.2	88%	50 - 150	2	25	08/29/11 17:08	11H0404
1,2-Dichloropropane	49.0		ug/m³ Air	1.85	2.00	50.7	97%	50 - 150	0.3	25	08/29/11 17:08	11H0404
Bromodichloromethane	75.6		ug/m³ Air	2.68	2.00	74.3	102%	50 - 150	3	25	08/29/11 17:08	11H0404
Trichloroethene	54.4		ug/m³ Air	2.15	2.00	59.6	91%	50 - 150	2	25	08/29/11 17:08	11H0404
Heptane	40.6		ug/m³ Air	1.64	2.00	45.5	89%	50 - 150	0.9	25	08/29/11 17:08	11H0404
cis-1,3-Dichloropropene	52.2		ug/m³ Air	1.82	2.00	51.3	102%	50 - 150	6	25	08/29/11 17:08	11H0404
4-Methyl-2-pentanone (MIBK)	42.7		ug/m³ Air	1.64	2.00	46.7	91%	50 - 150	0.3	25	08/29/11 17:08	11H0404
trans-1,3-Dichloropropene	49.0		ug/m³ Air	1.82	2.00	47.0	104%	50 - 150	8	25	08/29/11 17:08	11H0404
1,1,2-Trichloroethane	59.7		ug/m³ Air	2.18	2.00	59.9	100%	50 - 150	3	25	08/29/11 17:08	11H0404
Toluene	42.3		ug/m³ Air	1.51	2.00	41.8	101%	50 - 150	1	25	08/29/11 17:08	11H0404
2-Hexanone	46.6		ug/m³ Air	1.64	2.00	46.3	101%	50 - 150	3	25	08/29/11 17:08	11H0404
Chlorodibromomethane	97.3		ug/m³ Air	3.41	2.00	95.3	102%	50 - 150	4	25	08/29/11 17:08	11H0404
1,2-Dibromoethane (EDB)	81.8		ug/m³ Air	3.07	2.00	84.4	97%	50 - 150	9	25	08/29/11 17:08	11H0404
n-Octane	51.7		ug/m³ Air	1.87	2.00	49.9	104%	50 - 150	0.5	25	08/29/11 17:08	11H0404
Tetrachloroethene	75.1		ug/m³ Air	2.71	2.00	70.3	107%	50 - 150	2	25	08/29/11 17:08	11H0404
Chlorobenzene	51.2		ug/m³ Air	1.84	2.00	51.5	99%	50 - 150	2	25	08/29/11 17:08	11H0404
Ethylbenzene	51.6		ug/m³ Air	1.74	2.00	48.2	107%	50 - 150	0.7	25	08/29/11 17:08	11H0404
m-Xylene & p-Xylene	103		ug/m³ Air	3.47	2.00	94.5	109%	50 - 150	0.9	25	08/29/11 17:08	11H0404
Bromoform	119		ug/m³ Air	4.13	2.00	113	106%	50 - 150	3	25	08/29/11 17:08	11H0404
Styrene	50.7		ug/m³ Air	1.70	2.00	47.7	106%	50 - 150	1	25	08/29/11 17:08	11H0404
1,1,2,2-Tetrachloroethane	65.8		ug/m³ Air	2.75	2.00	77.6	85%	50 - 150	0.4	25	08/29/11 17:08	11H0404
o-Xylene	53.0		ug/m³ Air	1.74	2.00	49.1	108%	50 - 150	0.6	25	08/29/11 17:08	11H0404
n-Nonane	62.7		ug/m³ Air	2.10	2.00	56.0	112%	50 - 150	0.8	25	08/29/11 17:08	11H0404
Isopropylbenzene	54.5		ug/m³ Air	1.97	2.00	51.9	105%	50 - 150	0.4	50	08/29/11 17:08	11H0404
n-Propylbenzene	49.2		ug/m³ Air	1.97	2.00	51.4	96%	50 - 150	0.9	25	08/29/11 17:08	11H0404
1,3,5-Trimethylbenzene	48.8		ug/m³ Air	1.97	2.00	54.0	90%	50 - 150	0.5	25	08/29/11 17:08	11H0404
1,2,4-Trimethylbenzene	46.9		ug/m³ Air	1.97	2.00	53.5	88%	50 - 150	2	25	08/29/11 17:08	11H0404
Benzyl chloride	71.7		ug/m³ Air	2.07	2.00	57.9	124%	50 - 150	7	25	08/29/11 17:08	11H0404
1,3-Dichlorobenzene	49.8		ug/m³ Air	2.40	2.00	67.3	74%	50 - 150	0.9	25	08/29/11 17:08	11H0404
n-Decane	57.6		ug/m³ Air	2.33	2.00	63.3	91%	50 - 150	3	25	08/29/11 17:08	11H0404
1,4-Dichlorobenzene	50.8		ug/m³ Air	2.40	2.00	65.4	78%	50 - 150	4	25	08/29/11 17:08	11H0404
1,2-Dichlorobenzene	54.2		ug/m³ Air	2.40	2.00	67.3	81%	50 - 150	8	25	08/29/11 17:08	11H0404
n-Undecane	70.8		ug/m³ Air	2.56	2.00	69.6	102%	50 - 150	0.3	25	08/29/11 17:08	11H0404

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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: Project: Project Number:	AUH0042 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:56

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: 11H0404-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
1,2,4-Trichlorobenzene	99.9		ug/m³ Air	2.97	2.00	84.6	118%	50 - 150	0.006	25	08/29/11 17:08	11H0404
Naphthalene	51.5		ug/m³ Air	2.10	2.00	56.5	91%	50 - 150	0.05	25	08/29/11 17:08	11H0404
Hexachlorobutadiene	152		ug/m³ Air	4.27	2.00	118	129%	50 - 150	3	25	08/29/11 17:08	11H0404
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*94%*										08/29/11 17:08	11H0404
Surr: Fluorobenzene (39-111%)	*87%*										08/29/11 17:08	11H0404
Surr: Toluene-d8 (79-118%)	*100%*										08/29/11 17:08	11H0404
Surr: 1,4-Dichlorobutane (80-130%)	*107%*										08/29/11 17:08	11H0404
Surr: 4-Bromofluorobenzene (81-131%)	*107%*										08/29/11 17:08	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0042 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 20:56

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.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
RA	Results are from a second analysis of the sample.
ND	Not detected.

5499937	Terracon	Good	24 hr - 70%	DTW 07/26/11	DTW 08/11/11	good	07/11/11
7343491					DTW 08/10/11	good	
7342868					DTW 08/12/11	good	
7300138					DTW 08/09/11	good	
7229273					DTW 08/12/11	good	
7299278					DTW 08/09/11	good	
7300952					DTW 08/10/11	good	Busted gauge
5502898					DTW 08/09/11	good	
7300954					DTW 08/11/11	good	

VOC EQUIPMENT SIGN-OUT LOGBOOK

EQUIPMENT NUMBER	CLIENT	CONDITION SHIPPED OUT	CALIBRATED	INITIALS/DATE OUT	INITIALS/DATE RETURNED	CONDITION ON RETURN	COMMENTS
7300105	TERRACON	GOOD	24HR -70%	DTW 07/26/11	DTW 08/11/11	good	
7289097					DTW 08/09/11	good	
7340650					DTW 08/09/11	good	
7300971					DTW 08/11/11	good	
7300947					DTW 08/08/11	good	
7343248					DTW 08/10/11	good	
7299272					DTW 08/09/11	good	
7301111					DTW 08/11/11	good	
7343485					DTW 08/09/11	good	
7343492					DTW 08/11/11	good	
7298377					DTW 08/09/11	good	
7343027					DTW 08/10/11	good	
7342987					DTW 08/12/11	good	
7299277					DTW 08/11/11	good	
7300149					DTW 08/12/11	good	
7301037					DTW 08/11/11	good	
7343025					DTW 08/11/11	good	
7300142					DTW 08/11/11	good	
00001			1HR - 70%		DTW 08/12/11	good	
A168475					DTW 08/12/11	good	
00520					DTW 08/12/11	good	
FC023					DTW 08/12/11	good	
A133246					DTW 08/12/11	good	

TestAmerica Austin

VOC EQUIPMENT SIGN-OUT LOGBOOK

EQUIPMENT NUMBER	CLIENT	CONDITION SHIPPED OUT	CALIBRATED	INITIALS/DATE OUT	INITIALS/DATE RETURNED	CONDITION ON RETURN	COMMENTS
FC025	Terracon	Good	1HR-70%	DTW 07/26/11	DTW 08/12/11	Bad gauge	
FC029					DTW 08/12/11	good	
7301138					DTW 08/09/11	good	
7299282					DTW 08/08/11	good	
7301142					DTW 08/08/11	good	

TestAmerica – Austin Laboratory Chain of Custody Addendum **Work Order Number** A11t0042

RECEIVED BY: MJ CLIENT: Terracon - Lenexa

DATE/TIME RECEIVED: 8/3/11 09:15 PROJECT: Bannister Complex

UNPACKED DATE/TIME: 8/3/11 12:30 LOGIN BY: [illegible] LOGIN REVIEWED BY: MJ

Number of Shipping Containers Received with COC: 1

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

1.0 CONTAINERS EXAMINED UPON RECEIPT:

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: MJ

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

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 approx. amt. of headspace (>6mm) 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: Received 24 Flow Controls

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: [signature] Date: 8/17/11

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE Revised 07/26/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

AU40042

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	Samples Collected By: WWK TEE
Company: Terracon Consultants		Phone: 913-492-7777	
Address: 13910 W 96TH Terr		Email: wwking@terracon.com	
City/State/Zip Lenexa KS 66215		Site Contact:	
Phone: 913-492-7777		LAB Contact:	
FAX: 913-492-7443		Analysis Turnaround Time	
Project Name: GSA		Standard (Specify) X	
Site: Bannister Complex		Rush (Specity)	
PO # 02107144			

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)
BISB-AA17-VOCs	7/29+30 2011	18:30	17:20	-27	-4	7300149	RA2229	✓							X				
BISB-A19-SS-VOCs	7/29/11	15:34	16:34	>-30	-14	FC025	RA 2160	✓			8/3/11								☆
BISB-W8-VOCs	7/28+29 2011	12:26	12:26	-29	-5	7343027	1525	✓				Good			X				
BISB-J19-SS-VOCs	7/29/11	15:56	16:56	-28	-11	A168475	RA0971	✓											☆
BISB-K8-SS-VOCs	7/29/11	16:50	17:50	>-30	-6	7299282	RR2385	✓											☆
BISB-E23-SS-VOCs	7/29/11	17:19	18:41	-30	-6	A133246	RA2379	✓											☆
Dup-SS-VOCs	7/29/11	15:34	16:34	-26	-9	00520	HL0972	✓											☆
BI-W8-RR-VOCs	7/28+29 2011	12:14	12:29	>-30	-12	7300142	6626	✓							X				

Special Instructions/QC Requirements & Comments:
☆ Sub Slab

Samples Shipped by: Tim Easley	Date/Time:	Samples Received by: Melanie J. Leary 8/3/11 09:15
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

TAL-4143 (0608)

Lab Use Only Shipper Name: Opened by: Condition:

51/251

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
AUH0042-01	RA2229	8/29/2011 6:20:04 PM	0	3.9	0	59.1	10.91808	3.967742	43.32012
AUH0042-01	RA2229	8/29/2011 6:20:00 PM	0	4	0	59.2	2.762762	3.951872	10.91808
AUH0042-01	RA2229	8/22/2011 4:54:11 PM	-14.24	-2.946955	6	16.5	1	2.762762	2.762762
AUH0042-02	RA2160	8/22/2011 4:54:12 PM	-14.24	-4.616896	9.4	16.5	1	3.242197	3.242197
AUH0042-03	1525	8/23/2011 12:00:39 PM	-14.24	-2.946955	6	17	1	2.807037	2.807037
AUH0042-04	RA0971	8/22/2011 4:54:50 PM	-14.24	-5.795678	11.8	16.5	1	3.69479	3.69479
AUH0042-05	RA2385	8/22/2011 4:55:06 PM	-14.24	-1.473477	3	16.5	1	2.443892	2.443892
AUH0042-06	RA2379	8/22/2011 4:55:51 PM	-14.24	-2.1611	4.4	16.5	1	2.583017	2.583017
AUH0042-07	HL0972	8/22/2011 4:56:15 PM	-14.24	-4.616896	9.4	16.5	1	3.242197	3.242197
AUH0042-08	6626	8/22/2011 4:56:46 PM	-14.24	-2.554027	5.2	16.8	1	2.695539	2.695539

PEER REVIEWED BY vw.

Initial Calibration

Response Factor Report GCMSQ2

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration

Calibration Files
20 =QA072918.D 50 =QA072919.D 100 =QA072920.D
250 =QA072921.D 500 =QA072922.D 750 =QA072923.D

1000 =QA072924.D 20A =QA072909.D 50A =QA072910.D 100A =QA072911.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	0.442	0.437	0.434	0.444	0.460	0.498	0.483	0.452	0.442	0.438	0.46032	6.23
3)	t	Ethylene	0.026	0.022	0.021	0.022	0.023	0.025	0.034				0.02472	18.87
4)	t	Acetylene	0.051	0.043	0.042	0.045	0.046	0.050	0.068				0.04917	17.73
5)	t	Ethane	0.028	0.024	0.023	0.022	0.021	0.021	0.026				0.02335	10.85
6)	t	Halocarbon 134A								0.232	0.202	0.188	0.20485	8.43
7)	t	Propylene	0.119	0.101	0.104	0.112	0.113	0.126	0.161				0.11951	16.90
8)	t	Chlorodifluorometha								0.404	0.355	0.325	0.34574	8.51
9)	t	Propane	0.066	0.054	0.054	0.054	0.053	0.057	0.073				0.05850	13.16
10)	t	Dichlorodifluoromet	0.941	0.787	0.730	0.715	0.717	0.797	0.865				0.79320	10.66
11)	t	Chloromethane	0.204	0.171	0.159	0.158	0.156	0.172	0.213				0.17612	13.21
12)	t	Isobutane	0.362	0.313	0.311	0.326	0.324	0.347	0.413				0.34245	10.58
13)	t	Halocarbon 114	0.914	0.750	0.699	0.682	0.695	0.775	0.855				0.76713	11.53
14)	t	Acetaldehyde								0.052	0.069	0.062	0.07037	15.96
15)	t	Vinyl chloride	0.234	0.203	0.205	0.210	0.215	0.239	0.284				0.22712	12.54
16)	t	1-Butene/Isobutene	0.259	0.231	0.230	0.234	0.232	0.245	0.282				0.24478	7.92
17)	t	1,3-Butadiene	0.154	0.143	0.138	0.140	0.138	0.146	0.164				0.14627	6.67
18)	t	n-Butane	0.382	0.325	0.311	0.311	0.303	0.313	0.358				0.32901	8.97
19)	t	Methanol								0.053	0.052	0.046	0.03852	34.47
20)	t	trans-2-Butene	0.234	0.198	0.209	0.214	0.209	0.220	0.247				0.21872	7.71
21)	t	Neopentane								0.797	0.697	0.662	0.71663	7.19
22)	t	Dichlorofluorometha								0.389	0.404	0.406	0.47041	15.95
23)	t	Bromomethane	0.281	0.232	0.219	0.220	0.235	0.275	0.308				0.25282	13.80
24)	t	cis-2-Butene	0.236	0.203	0.203	0.211	0.209	0.214	0.233				0.21558	6.35
25)	t	Chloroethane	0.114	0.093	0.096	0.100	0.111	0.127	0.144				0.11220	16.33
26)	t	Vinyl bromide								0.272	0.224	0.235	0.27055	14.77
27)	t	3-Methyl-1-butene	0.476	0.413	0.421	0.440	0.446	0.466	0.456				0.44531	5.13
28)	t	Ethanol								0.058	0.059	0.053	0.05073	21.18
29)	t	Acetonitrile								0.078	0.078	0.084	0.10537	25.18
30)	t	Acrolein								0.030	0.031	0.033	0.04843	38.31
31)	t	Isopentane	0.307	0.247	0.227	0.219	0.215	0.222	0.216				0.23628	13.98
32)	t	Trichlorofluorometh	1.073	0.896	0.845	0.821	0.826	0.898	0.877				0.89080	9.69
33)	t	1-Pentene	0.175	0.135	0.157	0.156	0.168	0.217	0.224				0.17605	18.77
34)	t	Acetone								0.188	0.180	0.183	0.23898	25.93
35)	T	2-Propanol								0.147	0.131	0.142	0.13711	19.33
36)	t	Acrylonitrile								0.048	0.045	0.049	0.07700	42.94
37)	t	n-Pentane	0.321	0.262	0.265	0.282	0.292	0.318	0.317				0.29387	8.57
38)	T	Diethyl ether								0.035	0.033	0.039	0.06223	48.28
39)	t	Isoprene	0.135	0.115	0.127	0.157	0.190						0.14487	20.29

40)	t	trans-2-Pentene	0.201	0.159	0.178	0.230	0.272	0.344					0.23065	29.58
41)	t	1,1-Dichloroethene	0.348	0.272	0.275	0.292	0.315	0.367	0.383				0.32170	13.93
42)	t	cis-2-Pentene	0.186	0.155	0.176	0.228	0.271						0.20324	22.67
43)	t	Methylene chloride	0.168	0.128	0.132	0.150	0.166	0.196	0.211				0.16443	18.80
44)	t	2-Methyl-2-butene	0.180	0.161	0.187	0.241	0.284						0.21067	24.08
45)	t	Carbon Disulfide								0.839	0.727	0.673	0.75183	9.55
46)	t	3-Chloropropene	0.075	0.065	0.074	0.096	0.112	0.135					0.09277	29.05
47)	t	Halocarbon 113	0.409	0.355	0.348	0.360	0.399	0.487	0.520				0.41083	16.48
48)	t	Neohexane	0.277	0.263	0.271	0.284	0.288	0.303	0.309				0.28487	5.81
49)	t	Cyclopentene	0.267	0.223	0.258	0.319	0.373	0.473					0.31900	28.84
50)	t	trans-1,2-Dichloroe	0.211	0.167	0.172	0.205	0.233	0.285	0.309				0.22589	24.00
51)	t	4-Methyl-1-pentene	0.142	0.142	0.168	0.208	0.233	0.263	0.278				0.20484	27.32
52)	T	1-Propanol								0.013	0.013	0.014	0.01296	20.10
53)	t	1,1-Dichloroethane	0.235	0.195	0.198	0.242	0.279	0.342	0.373				0.26624	25.90
54)	t	Cyclopentane	0.310	0.267	0.282	0.299	0.304	0.322	0.329				0.30171	7.20
55)	t	2,3-Dimethylbutane	0.379	0.371	0.396	0.425	0.441	0.466	0.480				0.42249	10.06
56)	T	Methyl tert-butyl e	0.316	0.357	0.438	0.532	0.613						0.45103	27.16
57)	t	Isohexane	0.152	0.136	0.150	0.172	0.205	0.216	0.222				0.17911	19.61
58)	t	Vinyl acetate								0.153	0.171	0.206	0.33036	49.60
59)	t	cis-4-Methyl-2-pent								0.142	0.178	0.216	0.30711	43.99
60)	t	trans-4-Methyl-2-pe								0.174	0.201	0.233	0.34262	43.84
61)	T	Butyraldehyde								0.012	0.015	0.016	0.01916	38.75
62)	t	2-Butanone								0.181	0.185	0.192	0.28087	36.71
63)	t	Chloroprene	0.164	0.143	0.159	0.222	0.253						0.18797	25.01
64)	t	3-Methylpentane	0.263	0.253	0.304	0.357	0.372	0.421	0.450				0.34596	21.93
65)	s	Fluorobenzene	1.028	1.016	1.049	1.082	1.180	1.400	1.554	1.049	1.000	1.024	1.15907	15.49
66)	t	2-Methyl-1-pentene	0.143	0.130	0.152	0.209	0.238						0.17420	26.76
67)	t	1-Hexene	0.082	0.090	0.093	0.115	0.125	0.162	0.168				0.11936	28.84
68)	t	cis-1,2-Dichloroeth	0.161	0.127	0.136	0.175	0.207	0.262					0.17793	28.08
69)	t	Bromochloromethane	0.107	0.085	0.086	0.108	0.135						0.10432	19.47
70)	t	2-Ethyl-1-butene								0.069	0.076	0.097	0.12028	47.39
71)	t	n-Hexane	0.158	0.137	0.158	0.202	0.238						0.17871	22.87
72)	t	Chloroform	0.298	0.238	0.245	0.301	0.350	0.446	0.501				0.33974	29.43
73)	t	cis-3-Hexene								0.081	0.095	0.115	0.17779	48.72
74)	t	trans-2-Hexene	0.142	0.129	0.156	0.221	0.264	0.333	0.381				0.23222	42.44
75)	t	2-Methyl-2-pentene								0.099	0.114	0.139	0.20492	44.28
76)	t	cis-3-Methyl-2-pent								0.103	0.120	0.142	0.21362	45.89
77)	t	cis-2-Hexene	0.116	0.107	0.131	0.193	0.234	0.296	0.341				0.20255	45.38
78)	t	Methylcyclopentane	0.221	0.212	0.247	0.303	0.348	0.408					0.29016	26.79
79)	t	1,2-Dichloroethane	0.202	0.164	0.171	0.213	0.244	0.302	0.333				0.23276	27.58
80)	t	2,4-Dimethylpentane	0.229	0.218	0.262	0.320	0.366	0.403	0.438				0.31936	27.12
81)	t	1,1,1-Trichloroetha	0.366	0.323	0.355	0.416	0.479	0.582	0.631				0.45049	26.34
82)	i	Chlorobenzene-d5	----------ISTD----------											
83)	T	Methylcyclopentene								0.202	0.225	0.288	0.38725	37.65
84)	t	Benzene	0.377	0.312	0.327	0.424	0.485	0.527	0.556				0.42958	22.38
85)	t	Carbon tetrachlorid	0.533	0.458	0.471	0.522	0.559	0.560	0.534				0.51944	7.78
86)	T	1-Butanol								0.085	0.099	0.097	0.08041	30.72
87)	t	Cyclohexane	0.339	0.359	0.399	0.445	0.381	0.361	0.339				0.37477	10.07
88)	t	Isoheptane	0.280	0.253	0.268	0.330	0.353	0.340	0.341				0.30911	13.28
89)	t	2,3-Dimethylpentane	0.308	0.276	0.305	0.360	0.396	0.377	0.376				0.34265	13.33
90)	T	Cyclohexene								0.175	0.185	0.220	0.27837	29.81
91)	t	3-Methylhexane	0.211	0.191	0.213	0.266	0.286	0.280	0.283				0.24731	16.34
92)	t	1,2-Dichloropropane	0.146	0.124	0.126	0.156	0.171	0.182	0.193				0.15689	17.01
93)	t	Bromodichloromethan	0.387	0.312	0.309	0.375	0.410	0.432	0.441				0.38092	14.01

94)	t	Trichloroethene	0.196	0.156	0.164	0.211	0.251	0.286	0.298				0.22310	25.38
95)	T	1,4-Dioxane								0.116	0.105	0.105	0.08572	36.33
96)	T	1-Heptene								0.070	0.079	0.096	0.12219	32.34
97)	t	2,2,4-Trimethylpent	0.619	0.616	0.710	0.882	1.016	0.964	0.953				0.82289	20.72
98)	t	2-Chloropentane	0.181	0.177	0.193	0.247	0.281	0.303	0.317				0.24266	24.57
99)	T	trans-3-Heptene								0.137	0.150	0.167	0.20036	23.80
100)	t	n-Heptane	0.142	0.122	0.128	0.165	0.191	0.206	0.219				0.16768	23.05
101)	T	cis-3-Heptene								0.137	0.150	0.172	0.20478	24.49
102)	T	trans-2-Heptene								0.127	0.136	0.159	0.19904	28.66
103)	T	2,4,4-Trimethyl-1-p								0.292	0.343	0.409	0.51752	31.57
104)	t	cis-1,3-Dichloropro	0.179	0.151	0.166	0.238	0.284						0.20391	27.26
105)	T	Methylisobutylketon								0.288	0.318	0.313	0.37542	17.70
106)	t	Methylcyclohexane	0.245	0.232	0.266	0.334	0.400	0.426	0.440				0.33471	26.43
107)	T	2,4,4-Trimethyl-2-p								0.239	0.250	0.280	0.35576	26.93
108)	T	2,5-Dimethylhexane								0.267	0.279	0.307	0.37028	22.40
109)	T	2,2,3-Trimethylpent								0.513	0.542	0.581	0.68704	19.59
110)	t	trans-1,3-Dichlorop	0.177	0.156	0.171	0.240	0.287	0.314					0.22415	29.62
111)	t	1,1,2-Trichloroetha	0.177	0.144	0.145	0.179	0.202	0.225	0.240				0.18739	19.77
112)	t	2,3,4-Trimethylpent	0.322	0.318	0.339	0.422	0.458	0.450	0.458				0.39526	16.76
113)	s	Toluene-d8	1.200	1.207	1.215	1.217	1.233	1.218	1.207	1.185	1.173	1.181	1.18900	2.53
114)	t	Toluene	0.422	0.356	0.377	0.490	0.572	0.647	0.689				0.50751	25.96
115)	s	1,4-Dichlorobutane	0.155	0.159	0.162	0.162	0.153	0.148	0.147	0.161	0.162	0.158	0.15414	4.37
116)	t	2-Hexanone								0.239	0.253	0.271	0.31332	18.83
117)	t	2-Methylheptane	0.229	0.215	0.229	0.287	0.318	0.322	0.333				0.27613	18.35
118)	T	1-Methylcyclohexene								0.155	0.170	0.211	0.28682	37.84
119)	t	Dibromochloromethan	0.334	0.278	0.274	0.342	0.394	0.439	0.452				0.35886	20.05
120)	t	3-Methylheptane	0.161	0.151	0.163	0.217	0.259	0.292	0.307				0.22136	29.60
121)	T	Hexanal								0.032	0.028	0.035	0.04843	34.01
122)	t	1,2-Dibromoethane	0.276	0.224	0.220	0.278	0.322	0.359	0.385				0.29500	21.57
123)	T	2,2,5-Trimethylhexa								0.530	0.560	0.612	0.72897	21.41
124)	T	1-Octene								0.111	0.117	0.130	0.16795	28.55
125)	t	n-Octane	0.221	0.217	0.238	0.309	0.334	0.341	0.362				0.28873	21.37
126)	t	Tetrachloroethene	0.192	0.161	0.156	0.196	0.236	0.278	0.292				0.21563	25.15
127)	T	cis-2-Octene								0.127	0.141	0.169	0.21795	32.70
128)	t	Chlorobenzene	0.377	0.304	0.304	0.372	0.429	0.490	0.532				0.40129	21.84
129)	t	Ethylbenzene	0.395	0.376	0.428	0.591	0.689						0.49589	27.72
130)	t	m/p-Xylene	0.377	0.359	0.395	0.524	0.607	0.678	0.717				0.52245	28.55
131)	t	Bromoform	0.263	0.217	0.213	0.261	0.302	0.354	0.369				0.28277	21.93
132)	T	Butyl acrylate								0.084	0.160	0.341	0.31552	49.51
133)	T	Heptanal								0.071	0.069	0.073	0.09575	26.23
134)	t	Styrene	0.244	0.218	0.233	0.326	0.384	0.445					0.30828	29.93
135)	t	1,1,2,2-Tetrachloro	0.392	0.333	0.312	0.363	0.376	0.393	0.421				0.37007	10.09
136)	t	o-Xylene	0.358	0.334	0.369	0.505	0.567	0.624	0.652				0.48700	27.37
137)	T	1-Nonene								0.109	0.119	0.132	0.17649	32.01
138)	t	cis-4-Nonene								0.205	0.229	0.251	0.32940	30.37
139)	t	trans-4-Nonene								0.215	0.220	0.246	0.31670	28.51
140)	t	n-Nonane	0.251	0.237	0.255	0.317	0.319	0.337	0.369				0.29781	16.87
141)	s	1,4-Bromofluorobenz	0.783	0.799	0.785	0.784	0.733	0.702	0.682	0.790	0.804	0.788	0.75797	5.29
142)	t	Isopropylbenzene	0.503	0.472	0.522	0.724	0.830	0.949					0.66644	29.63
143)	T	Benzaldehyde								0.131	0.112	0.111	0.15286	23.06
144)	t	alpha-Pinene	0.356	0.342	0.381	0.521	0.633						0.44662	28.24
145)	T	o/m-Chlorotoluene								0.367	0.367	0.377	0.50917	27.88
146)	T	p-Chlorotoluene								0.360	0.357	0.376	0.51959	30.38
147)	t	n-Propylbenzene	0.615	0.574	0.625	0.840	0.927	1.045	1.119				0.82070	26.90
148)	t	m-Ethyltoluene	0.415	0.397	0.446	0.630	0.710						0.51971	27.16

149)	t	p-Ethyltoluene	0.444	0.420	0.455	0.634	0.701	0.800	0.831				0.61220	28.43
150)	t	1,3,5-Trimethylbenz	0.375	0.367	0.399	0.559	0.613	0.692	0.707				0.53021	28.12
151)	t	o-Ethyltoluene	0.435	0.409	0.452	0.647	0.704	0.796	0.809				0.60751	28.55
152)	t	beta-Pinene	0.355	0.341	0.391	0.566	0.676	0.765	0.771				0.55211	34.53
153)	t	1,2,4-Trimethylbenz	0.358	0.355	0.389	0.557	0.595	0.666	0.665				0.51210	27.53
154)	T	tert-Butylbenzene								0.335	0.343	0.372	0.56316	39.68
155)	T	1-Decene								0.122	0.140	0.142	0.16462	17.77
156)	t	Benzyl chloride	0.334	0.308	0.334	0.469	0.507	0.553	0.587				0.44175	26.06
157)	t	m-Dichlorobenzene	0.335	0.291	0.294	0.392	0.416	0.442	0.425				0.37073	17.11
158)	t	n-Decane	0.307	0.313	0.332	0.399	0.407	0.469	0.567				0.39912	23.63
159)	t	p-Dichlorobenzene	0.332	0.281	0.282	0.381	0.404	0.422	0.400				0.35744	16.53
160)	T	Isobutylbenzene								0.429	0.448	0.470	0.63735	30.28
161)	t	1,2,3-Trimethylbenz	0.374	0.359	0.391	0.567	0.601	0.651	0.698				0.52011	27.38
162)	T	p-Isopropyltoluene								0.368	0.384	0.414	0.61797	38.82
163)	t	o-Dichlorobenzene	0.297	0.259	0.257	0.353	0.368	0.364	0.385				0.32621	16.57
164)	T	Limonene								0.160	0.178	0.191	0.25618	31.12
165)	T	Indan								0.377	0.374	0.371	0.51144	28.38
166)	T	Indene								0.284	0.287	0.308	0.44137	33.78
167)	t	m-Diethylbenzene	0.305	0.312	0.359	0.511	0.523	0.535	0.647				0.45614	28.75
168)	t	p-Diethylbenzene	0.276	0.289	0.337	0.500	0.513	0.508					0.40387	28.42
169)	T	n-Butylbenzene								0.401	0.441	0.469	0.62295	29.27
170)	T	1-Undecene								0.098	0.121	0.128	0.16471	28.93
171)	T	n-Undecane								0.286	0.332	0.355	0.44409	26.28
172)	t	1,2,4-Trichlorobenz	0.175	0.146	0.136	0.185	0.230	0.161	0.233				0.18073	21.17
173)	T	Naphthalene								0.398	0.315	0.281	0.43265	28.25
174)	t	Hexachloro-1,3-buta	0.264	0.229	0.223	0.296	0.331	0.222	0.292				0.26513	16.06

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

QA110729.M Tue Aug 02 10:50:05 2011 DAH

Calibration Table Report
Method: QA110729.M
Title:
Last Calibration: Mon Aug 01 13:22:07 2011

Calibration Files

Compound	20	50	100	250	500	750	1000	20A	50A	100A	250A	500A	750A	999A	Avg	%RSD
	QA072918.	QA072919.	QA072920.	QA072921.	QA072922.	QA072923.	QA072924.	QA072909.	QA072910.	QA072911.	QA072912.	QA072913.1	QA072914.	QA072915.D		
1,1-Dichloro-1-Fluoroethane	ISTD															
2-Bromo-1,1,1-trifluoroethane	0.442	0.437	0.434	0.444	0.460	0.498	0.483	0.452	0.442	0.438	0.440	0.449	0.516	0.509	0.46032	6.23
Ethylene	0.026	0.022	0.021	0.022	0.023	0.025	0.034								0.02472	18.87
Acetylene	0.051	0.043	0.042	0.045	0.046	0.050	0.068								0.04917	17.73
Ethane	0.028	0.024	0.023	0.022	0.021	0.021	0.026								0.02335	10.85
Halocarbon 134A								0.232	0.202	0.188	0.190	0.189	0.215	0.218	0.20485	8.43
Propylene	0.119	0.101	0.104	0.112	0.113	0.126	0.161								0.11951	16.90
Chlorodifluoromethane								0.404	0.355	0.325	0.324	0.318	0.352	0.343	0.34574	8.51
Propane	0.066	0.054	0.054	0.054	0.053	0.057	0.073					0.218			0.05850	13.16
Dichlorodifluoromethane	0.941	0.787	0.730	0.715	0.717	0.797	0.865								0.79320	10.66
Chloromethane	0.204	0.171	0.159	0.158	0.156	0.172	0.213								0.17612	13.21
Isobutane	0.362	0.313	0.311	0.326	0.324	0.347	0.413								0.34245	10.58
Halocarbon 114	0.914	0.750	0.699	0.682	0.695	0.775	0.855								0.76713	11.53
Acetaldehyde								0.052	0.069	0.062	0.069	0.075	0.083	0.083	0.07037	15.96
Vinyl chloride	0.234	0.203	0.205	0.210	0.215	0.239	0.284								0.22712	12.54
1-Butene/Isobutene	0.259	0.231	0.230	0.234	0.232	0.245	0.282								0.24479	7.92
1,3-Butadiene	0.154	0.143	0.138	0.140	0.138	0.146	0.164								0.14627	6.67
n-Butane	0.382	0.325	0.311	0.311	0.303	0.313	0.358								0.32901	8.97
Methanol					0.303			0.053	0.052	0.046	0.042	0.031	0.024	0.021	0.03852	34.47
trans-2-Butene	0.234	0.198	0.209	0.214	0.209	0.220	0.247								0.21872	7.71
Neopentane								0.797	0.697	0.662	0.673	0.682	0.769	0.737	0.71663	7.19
Dichlorofluoromethane								0.389	0.404	0.406	0.469	0.494	0.571	0.559	0.47041	15.95
Bromomethane	0.281	0.232	0.219	0.220	0.235	0.275	0.308								0.25282	13.80
cis-2-Butene	0.236	0.203	0.203	0.211	0.209	0.214	0.233								0.21559	6.35
Chloroethane	0.114	0.093	0.096	0.100	0.111	0.127	0.144								0.11220	16.33
Vinyl bromide								0.272	0.224	0.235	0.249	0.266	0.322	0.326	0.27055	14.77
3-Methyl-1-butene	0.476	0.413	0.421	0.440	0.446	0.466	0.456								0.44531	5.13
Ethanol								0.058	0.059	0.053	0.052	0.032			0.05073	21.18
Acetonitrile								0.078	0.078	0.084	0.104	0.118	0.140	0.136	0.10537	25.18
Acrolein								0.030	0.031	0.033	0.045	0.054	0.072	0.073	0.04843	38.31
Isopentane	0.307	0.247	0.227	0.219	0.215	0.222	0.216								0.23628	13.98
Trichlorofluoromethane	1.073	0.896	0.845	0.821	0.826	0.898	0.877								0.89080	9.69
1-Pentene	0.175	0.135	0.157	0.156	0.168	0.217	0.224								0.17605	18.77
Acetone								0.188	0.180	0.183	0.228	0.254	0.326	0.315	0.23898	25.93
2-Propanol								0.147	0.131	0.142	0.169	0.097			0.13711	19.33
Acrylonitrile								0.048	0.045	0.049	0.072	0.085	0.117	0.123	0.07700	42.94
n-Pentane	0.321	0.262	0.265	0.282	0.292	0.318	0.317								0.29387	8.57
Diethyl ether								0.035	0.033	0.039	0.055	0.068	0.098	0.106	0.06223	48.28
Isoprene	0.135	0.115	0.127	0.157	0.190										0.14487	20.29
trans-2-Pentene	0.201	0.159	0.178	0.230	0.272	0.344									0.23065	29.58
1,1-Dichloroethene	0.348	0.272	0.275	0.292	0.315	0.367	0.383								0.32171	13.93
cis-2-Pentene	0.186	0.155	0.176	0.228	0.271										0.20324	22.67
Methylene chloride	0.168	0.128	0.132	0.150	0.166	0.196	0.211								0.16443	18.80
2-Methyl-2-butene	0.180	0.161	0.187	0.241	0.284										0.21067	24.08
Carbon Disulfide								0.839	0.727	0.673	0.686	0.698	0.822	0.818	0.75183	9.55
3-Chloropropene	0.075	0.065	0.074	0.096	0.112	0.135									0.09277	29.05
Halocarbon 113	0.409	0.355	0.348	0.360	0.399	0.487	0.520								0.41083	16.48
Neohexane	0.277	0.263	0.271	0.284	0.288	0.303	0.309								0.28487	5.81
Cyclopentene	0.267	0.223	0.258	0.319	0.373	0.473									0.31900	28.84
trans-1,2-Dichloroethene	0.211	0.167	0.172	0.205	0.233	0.285	0.309								0.22589	24.00
4-Methyl-1-pentene	0.142	0.142	0.168	0.208	0.233	0.263	0.278								0.20484	27.32
1-Propanol								0.013	0.013	0.014	0.016	0.009			0.01296	20.10
1,1-Dichloroethane	0.235	0.195	0.198	0.242	0.279	0.342	0.373								0.26624	25.90
Cyclopentane	0.310	0.267	0.282	0.299	0.304	0.322	0.329								0.30171	7.20
2,3-Dimethylbutane	0.379	0.371	0.396	0.425	0.441	0.466	0.480								0.42249	10.06
Methyl tert-butyl ether	0.316	0.357	0.438	0.532	0.613										0.45103	27.16
Isohexane	0.152	0.136	0.150	0.172	0.205	0.216	0.222								0.17911	19.61

	Vinyl acetate								0.153	0.171	0.206	0.307	0.410	0.539	0.526	0.33036	49.60
	cis-4-Methyl-2-pentene								0.142	0.178	0.216	0.307	0.362	0.464	0.480	0.30711	43.99
	trans-4-Methyl-2-pentene								0.174	0.201	0.233	0.330	0.398	0.524	0.539	0.34262	43.84
	Butyraldehyde								0.012	0.015	0.016	0.024	0.030	0.524	0.539	0.01916	38.75
	2-Butanone								0.181	0.185	0.192	0.263	0.318	0.416	0.411	0.28087	36.71
	Chloroprene	0.164	0.143	0.159	0.222	0.253										0.18797	25.01
	3-Methylpentane	0.263	0.253	0.304	0.357	0.372	0.421	0.450								0.34596	21.93
	Fluorobenzene	1.028	1.016	1.049	1.082	1.180	1.400	1.554	1.049	1.000	1.024	1.050	1.088	1.326	1.380	1.15907	15.49
	2-Methyl-1-pentene	0.143	0.130	0.152	0.209	0.238										0.17420	26.76
	1-Hexene	0.082	0.090	0.093	0.115	0.125	0.162	0.168								0.11936	28.84
	cis-1,2-Dichloroethene	0.161	0.127	0.136	0.175	0.207	0.262									0.17793	28.08
	Bromochloromethane	0.107	0.085	0.086	0.108	0.135										0.10432	19.47
	2-Ethyl-1-butene								0.069	0.076	0.097	0.159	0.200			0.12028	47.39
	n-Hexane	0.158	0.137	0.158	0.202	0.238										0.17871	22.87
	Chloroform	0.298	0.238	0.245	0.301	0.350	0.446	0.501								0.33974	29.43
	cis-3-Hexene								0.081	0.095	0.115	0.171	0.210	0.284	0.289	0.17779	48.72
	trans-2-Hexene	0.142	0.129	0.156	0.221	0.264	0.333	0.381								0.23222	42.44
	2-Methyl-2-pentene								0.099	0.114	0.139	0.205	0.248	0.318	0.310	0.20492	44.28
	cis-3-Methyl-2-pentene								0.103	0.120	0.142	0.206	0.251	0.33	0.342	0.21362	45.89
	cis-2-Hexene	0.116	0.107	0.131	0.193	0.234	0.296	0.341								0.20255	45.38
	Methylcyclopentane	0.221	0.212	0.247	0.303	0.348	0.408									0.29016	26.79
	1,2-Dichloroethane	0.202	0.164	0.171	0.213	0.244	0.302	0.333								0.23276	27.58
	2,4-Dimethylpentane	0.229	0.218	0.262	0.320	0.366	0.403	0.438								0.31936	27.12
	1,1,1-Trichloroethane	0.366	0.323	0.355	0.416	0.479	0.582	0.631								0.45049	26.34
	Chlorobenzene-d5	ISTD	0.439	0.383	0.499	0.606	0.607	0.756								0.54399	22.78
	Methylcyclopentene								0.202	0.225	0.288	0.434	0.489	0.539	0.534	0.38725	37.65
	Benzene	0.377	0.312	0.327	0.424	0.485	0.527	0.556								0.42958	22.38
	Carbon tetrachloride	0.533	0.458	0.471	0.522	0.559	0.560	0.534								0.51944	7.78
	1-Butanol								0.085	0.099	0.097	0.083	0.038			0.08041	30.72
	Cyclohexane	0.339	0.359	0.399	0.445	0.381	0.361	0.339								0.37477	10.07
	Isoheptane	0.280	0.253	0.268	0.330	0.353	0.340	0.341								0.30911	13.28
	2,3-Dimethylpentane	0.308	0.276	0.305	0.360	0.396	0.377	0.376								0.34265	13.33
	Cyclohexene								0.175	0.185	0.220	0.308	0.336	0.363	0.362	0.27837	29.81
	3-Methylhexane	0.211	0.191	0.213	0.266	0.286	0.280	0.283								0.24731	16.34
	1,2-Dichloropropane	0.146	0.124	0.126	0.156	0.171	0.182	0.193								0.15689	17.01
	Bromodichloromethane	0.387	0.312	0.309	0.375	0.410	0.432	0.441								0.38092	14.01
	Trichloroethene	0.196	0.156	0.164	0.211	0.251	0.286	0.298								0.22310	25.38
	1,4-Dioxane								0.116	0.105	0.105	0.111	0.074	0.048	0.042	0.08572	36.33
	1-Heptene								0.070	0.079	0.096	0.136	0.151	0.163	0.160	0.12219	32.34
	2,2,4-Trimethylpentane	0.619	0.616	0.710	0.882	1.016	0.964	0.953								0.82289	20.72
	2-Chloropentane	0.181	0.177	0.193	0.247	0.281	0.303	0.317								0.24266	24.57
	trans-3-Heptene								0.137	0.150	0.167	0.222	0.240	0.25	0.238	0.20036	23.80
	n-Heptane	0.142	0.122	0.128	0.165	0.191	0.206	0.219								0.16768	23.05
	cis-3-Heptene								0.137	0.150	0.172	0.226	0.247	0.257	0.244	0.20478	24.49
	trans-2-Heptene								0.127	0.136	0.159	0.217	0.241	0.26	0.254	0.19904	28.66
	2,4,4-Trimethyl-1-pentene								0.292	0.343	0.409	0.606	0.665	0.658	0.651	0.51752	31.57
	cis-1,3-Dichloropropene	0.179	0.151	0.166	0.238	0.284										0.20391	27.27
	Methylisobutylketone								0.288	0.318	0.313	0.411	0.444	0.441	0.413	0.37543	17.70
	Methylcyclohexane	0.245	0.232	0.266	0.334	0.4	0.426	0.44					0.444			0.33471	26.43
	2,4,4-Trimethyl-2-pentene								0.239	0.25	0.28	0.39	0.437	0.45	0.445	0.35576	26.93
	2,5-Dimethylhexane								0.267	0.279	0.307	0.4	0.433	0.454	0.452	0.37028	22.40
	2,2,3-Trimethylpentane								0.513	0.542	0.581	0.77	0.815	0.797	0.792	0.68704	19.59
	trans-1,3-Dichloropropene	0.177	0.156	0.171	0.24	0.287	0.314									0.22415	29.62
	1,1,2-Trichloroethane	0.177	0.144	0.145	0.179	0.202	0.225	0.24								0.18739	19.77
	2,3,4-Trimethylpentane	0.322	0.318	0.339	0.422	0.458	0.45	0.458								0.39526	16.76
	Toluene-d8	1.2	1.207	1.215	1.217	1.233	1.218	1.207	1.185	1.173	1.181	1.181	1.153	1.138	1.139	1.18900	2.53
	Toluene	0.422	0.356	0.377	0.49	0.572	0.647	0.689								0.50751	25.96
	1,4-Dichlorobutane	0.155	0.159	0.162	0.162	0.153	0.148	0.147	0.161	0.162	0.158	0.153	0.149	0.146	0.143	0.15414	4.37
	2-Hexanone								0.239	0.253	0.271	0.37	0.382	0.358	0.321	0.31332	18.83
	2-Methylheptane	0.229	0.215	0.229	0.287	0.318	0.322	0.333								0.27613	18.35
	1-Methylcyclohexane								0.155	0.17	0.211	0.301	0.357	0.403	0.411	0.28682	37.84
	Dibromochloromethane	0.334	0.278	0.274	0.342	0.394	0.439	0.452								0.35886	20.05
	3-Methylheptane	0.161	0.151	0.163	0.217	0.259	0.292	0.307								0.22136	29.60
	Hexanal								0.032	0.028	0.035	0.052	0.061	0.066	0.065	0.04843	34.01
	1,2-Dibromoethane	0.276	0.224	0.22	0.278	0.322	0.359	0.385								0.29500	21.57
	2,2,5-Trimethylhexane								0.53	0.56	0.612	0.788	0.852	0.887	0.874	0.72897	21.41
	1-Octene								0.111	0.117	0.13	0.177	0.199	0.22	0.221	0.16795	28.55

	n-Octane	0.221	0.217	0.238	0.309	0.334	0.341	0.362								0.28873	21.37
	Tetrachloroethene	0.192	0.161	0.156	0.196	0.236	0.278	0.292								0.21563	25.15
	cis-2-Octene								0.127	0.141	0.169	0.236	0.269	0.292	0.292	0.21795	32.70
	Chlorobenzene	0.377	0.304	0.304	0.372	0.429	0.49	0.532								0.40129	21.84
	Ethylbenzene	0.395	0.376	0.428	0.591	0.689										0.49589	27.72
	m/p-Xylene	0.377	0.359	0.395	0.524	0.607	0.678	0.717								0.52245	28.55
	Bromoform	0.263	0.217	0.213	0.261	0.302	0.354	0.369								0.28278	21.93
	Butyl acrylate								0.084	0.16	0.341	0.424	0.449	0.435		0.31552	49.51
	Heptanal								0.071	0.069	0.073	0.096	0.111	0.124	0.125	0.09575	26.23
	Styrene	0.244	0.218	0.233	0.326	0.384	0.445									0.30828	29.93
	1,1,2,2-Tetrachloroethane	0.392	0.333	0.312	0.363	0.376	0.393	0.421								0.37007	10.09
	o-Xylene	0.358	0.334	0.369	0.505	0.567	0.624	0.652								0.48700	27.37
	1-Nonene					0.517			0.109	0.119	0.132	0.183	0.217	0.238	0.238	0.17649	32.01
	cis-4-Nonene								0.205	0.229	0.251	0.345	0.403	0.439	0.434	0.32940	30.37
	trans-4-Nonene								0.215	0.22	0.246	0.323	0.377	0.418	0.419	0.31670	28.51
	n-Nonane	0.251	0.237	0.255	0.317	0.319	0.337	0.369								0.29781	16.87
	1,4-Bromofluorobenzene	0.783	0.799	0.785	0.784	0.733	0.702	0.682	0.79	0.804	0.788	0.773	0.753	0.724	0.712	0.75798	5.29
	Isopropylbenzene	0.503	0.472	0.522	0.724	0.83	0.949									0.66644	29.63
	Benzaldehyde								0.131	0.112	0.111	0.16	0.191	0.193	0.173	0.15286	23.06
	alpha-Pinene	0.356	0.342	0.381	0.521	0.633										0.44662	28.24
	o/m-Chlorotoluene								0.367	0.367	0.377	0.502	0.605	0.676	0.670	0.50917	27.88
	p-Chlorotoluene								0.36	0.357	0.376	0.517	0.624	0.7	0.703	0.51960	30.38
	n-Propylbenzene	0.615	0.574	0.625	0.84	0.927	1.045	1.119								0.82071	26.90
	m-Ethyltoluene	0.415	0.397	0.446	0.63	0.71										0.51971	27.16
	p-Ethyltoluene	0.444	0.42	0.455	0.634	0.701	0.8	0.831								0.61221	28.43
	1,3,5-Trimethylbenzene	0.375	0.367	0.399	0.559	0.613	0.692	0.707								0.53021	28.12
	o-Ethyltoluene	0.435	0.409	0.452	0.647	0.704	0.796	0.809								0.60751	28.55
	beta-Pinene	0.355	0.341	0.391	0.566	0.676	0.765	0.771								0.55211	34.53
	1,2,4-Trimethylbenzene	0.358	0.355	0.389	0.557	0.595	0.666	0.665								0.51210	27.53
	tert-Butylbenzene								0.335	0.343	0.372	0.529	0.706	0.822	0.835	0.56316	39.68
	1-Decene								0.122	0.14	0.142	0.173	0.188	0.195	0.192	0.16462	17.77
	Benzyl chloride	0.334	0.308	0.334	0.469	0.507	0.553	0.587								0.44175	26.06
	m-Dichlorobenzene	0.335	0.291	0.294	0.392	0.416	0.442	0.425								0.37074	17.11
	n-Decane	0.307	0.313	0.332	0.399	0.407	0.469	0.567								0.39912	23.63
	p-Dichlorobenzene	0.332	0.281	0.282	0.381	0.404	0.422	0.4								0.35744	16.53
	Isobutylbenzene								0.429	0.448	0.47	0.626	0.771	0.86	0.858	0.63735	30.28
	1,2,3-Trimethylbenzene	0.374	0.359	0.391	0.567	0.601	0.651	0.698								0.52011	27.38
	p-Isopropyltoluene								0.368	0.384	0.414	0.581	0.777	0.901	0.900	0.61797	38.82
	o-Dichlorobenzene	0.297	0.259	0.257	0.353	0.368	0.364	0.385								0.32622	16.57
	Limonene								0.16	0.178	0.191	0.264	0.314	0.341	0.346	0.25618	31.12
	Indan								0.377	0.374	0.371	0.483	0.605	0.687	0.683	0.51144	28.38
	Indene								0.284	0.287	0.308	0.444	0.553	0.609	0.604	0.44137	33.78
	m-Diethylbenzene	0.305	0.312	0.359	0.511	0.523	0.535	0.647								0.45614	28.75
	p-Diethylbenzene	0.276	0.289	0.337	0.5	0.513	0.508									0.40387	28.42
	n-Butylbenzene								0.401	0.441	0.469	0.66	0.761	0.819	0.810	0.62295	29.27
	1-Undecene								0.098	0.121	0.128	0.182	0.2	0.208	0.215	0.16472	28.93
	n-Undecane								0.286	0.332	0.355	0.487	0.526	0.551	0.572	0.44409	26.28
	1,2,4-Trichlorobenzene	0.175	0.146	0.136	0.185	0.23	0.161	0.233								0.18074	21.17
	Naphthalene								0.398	0.315	0.281	0.372	0.516	0.6	0.546	0.43265	28.25
	Hexachloro-1,3-butadiene	0.264	0.229	0.223	0.296	0.331	0.222	0.292								0.26513	16.06
	Tue Aug 02 10:52:55 2011																

Compound List Report GCMSQ2

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 12:39:22 2011
Response via : Initial Calibration
Total Cpnds : 174

DMK 8-1-11

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,1-Dichloro-1-Fluoroethane	81	12.46	1.000	A	3	A	B
2	S	2-Bromo-1,1,1-trifluoroethane	83	11.26	0.904	A	3	A	B
3	T	Ethylene	26	4.12	0.331	A	3	A	B
4	T	Acetylene	26	4.23	0.340	A	3	A	B
5	T	Ethane	26	4.33	0.348	A	2	A	B
6	T	Halocarbon 134A	69	5.14	0.412	A	3	A	B
7	T	Propylene	41	5.94	0.477	A	3	A	B
8	T	Chlorodifluoromethane	51	6.26	0.502	A	3	A	B
9	T	Propane	43	6.09	0.489	A	3	A	B
10	T	Dichlorodifluoromethane	85	6.58	0.528	A	3	A	B
11	T	Chloromethane	50	7.43	0.596	A	3	A	B
12	T	Isobutane	43	8.09	0.649	A	3	A	B
13	T	Halocarbon 114	85	8.28	0.665	A	3	A	B
14	T	Acetaldehyde	44	8.30	0.666	A	3	A	B
15	T	Vinyl chloride	62	8.53	0.685	A	3	A	B
16	T	1-Butene/Isobutene	41	8.97	0.720	A	3	A	B
17	T	1,3-Butadiene	39	9.09	0.730	A	3	A	B
18	T	n-Butane	43	9.25	0.743	A	3	A	B
19	T	Methanol	31	9.20	0.739	A	1	A	B
20	T	trans-2-Butene	41	9.64	0.774	A	3	A	B
21	T	Neopentane	57	9.69	0.778	A	3	A	B
22	T	Dichlorofluoromethane	67	10.95	0.879	A	3	A	B
23	T	Bromomethane	94	9.82	0.788	A	3	A	B
24	T	cis-2-Butene	41	10.12	0.813	A	3	A	B
25	T	Chloroethane	64	10.41	0.835	A	3	A	B
26	T	Vinyl bromide	106	11.22	0.901	A	3	A	B
27	T	3-Methyl-1-butene	55	11.24	0.903	A	3	A	B
28	T	Ethanol	45	11.51	0.924	A	2	A	B
29	T	Acetonitrile	41	11.44	0.919	A	3	A	B
30	T	Acrolein	56	11.68	0.938	A	3	A	B
31	T	Isopentane	41	11.89	0.954	A	3	A	B
32	T	Trichlorofluoromethane	101	12.17	0.977	A	3	A	B
33	T	1-Pentene	42	12.47	1.001	A	3	A	B
34	T	Acetone	43	12.07	0.969	A	2	A	B
35	T	2-Propanol	45	12.98	1.042	A	3	A	B
36	T	Acrylonitrile	52	12.92	1.037	A	3	A	B
37	T	n-Pentane	43	12.91	1.036	A	3	A	B
38	T	Diethyl ether	74	13.13	1.054	A	3	A	B
39	T	Isoprene	67	13.09	1.051	A	3	A	B
40	T	trans-2-Pentene	55	13.24	1.063	A	3	A	B
41	T	1,1-Dichloroethene	61	13.34	1.071	A	3	A	B
42	T	cis-2-Pentene	55	13.54	1.087	A	3	A	B
43	T	Methylene chloride	49	13.68	1.098	A	3	A	B
44	T	2-Methyl-2-butene	55	13.73	1.102	A	3	A	B
45	T	Carbon Disulfide	76	13.82	1.109	A	1	A	B
46	T	3-Chloropropene	41	13.84	1.111	A	2	A	B
47	T	Halocarbon 113	151	14.15	1.136	A	3	A	B
48	T	Neohexane	43	14.31	1.149	A	3	A	B
49	T	Cyclopentene	67	15.04	1.207	A	3	A	B
50	T	trans-1,2-Dichloroethene	61	15.19	1.220	A	3	A	B
51	T	4-Methyl-1-pentene	43	15.23	1.222	A	3	A	B
52	T	1-Propanol	59	15.30	1.228	A	3	A	B
53	T	1,1-Dichloroethane	63	15.49	1.243	A	3	A	B
54	T	Cyclopentane	42	15.49	1.243	A	3	A	B
55	T	2,3-Dimethylbutane	43	15.59	1.251	A	3	A	B
56	T	Methyl tert-butyl ether	73	15.76	1.265	A	3	A	B
57	T	Isohexane	42	15.79	1.268	A	3	A	B
58	T	Vinyl acetate	43	15.90	1.276	A	2	A	B
59	T	cis-4-Methyl-2-pentene	69	15.73	1.263	A	3	A	B
60	T	trans-4-Methyl-2-pentene	69	15.86	1.273	A	3	A	B
61	T	Butyraldehyde	72	16.01	1.286	A	3	A	B
62	T	2-Butanone	43	16.27	1.306	A	3	A	B
63	T	Chloroprene	53	16.38	1.315	A	3	A	B
64	T	3-Methylpentane	57	16.39	1.316	A	3	A	B
65	S	Fluorobenzene	96	19.88	1.596	A	2	A	B

66		T	2-Methyl-1-pentene	56	16.62	1.334	A	3	A	B
67		T	1-Hexene	41	16.66	1.338	A	3	A	B
68		T	cis-1,2-Dichloroethene	61	16.80	1.349	A	3	A	B
69		T	Bromochloromethane	130	17.04	1.368	A	3	A	B
70		T	2-Ethyl-1-butene	69	17.12	1.374	A	3	A	B
71		T	n-Hexane	57	17.15	1.377	A	3	A	B
72		T	Chloroform	83	17.27	1.387	A	3	A	B
73		T	cis-3-Hexene	55	17.29	1.388	A	3	A	B
74		T	trans-2-Hexene	55	17.37	1.394	A	3	A	B
75		T	2-Methyl-2-pentene	41	17.47	1.402	A	3	A	B
76		T	cis-3-Methyl-2-pentene	69	17.60	1.413	A	3	A	B
77		T	cis-2-Hexene	55	17.77	1.427	A	3	A	B
78		T	Methylcyclopentane	56	18.31	1.470	A	3	A	B
79		T	1,2-Dichloroethane	62	18.33	1.471	A	3	A	B
80		T	2,4-Dimethylpentane	43	18.48	1.483	A	3	A	B
81		T	1,1,1-Trichloroethane	97	18.68	1.500	A	3	A	B
82	I		Chlorobenzene-d5	117	27.03	1.000	A	3	A	B
83		T	Methylcyclopentene	67	19.31	0.715	A	3	A	B
84		T	Benzene	78	19.37	0.717	A	3	A	B
85		T	Carbon tetrachloride	117	19.59	0.725	A	3	A	B
86		T	1-Butanol	56	19.62	0.726	A	3	A	B
87		T	Cyclohexane	56	19.77	0.731	A	3	A	B
88		T	Isoheptane	43	20.12	0.745	A	3	A	B
89		T	2,3-Dimethylpentane	56	20.21	0.748	A	3	A	B
90		T	Cyclohexene	67	20.47	0.757	A	3	A	B
91		T	3-Methylhexane	43	20.51	0.759	A	3	A	B
92		T	1,2-Dichloropropane	63	20.63	0.763	A	3	A	B
93		T	Bromodichloromethane	83	20.96	0.775	A	3	A	B
94		T	Trichloroethene	130	21.02	0.778	A	3	A	B
95		T	1,4-Dioxane	88	21.10	0.781	A	3	A	B
96		T	1-Heptene	55	21.05	0.779	A	3	A	B
97		T	2,2,4-Trimethylpentane	57	21.09	0.780	A	3	A	B
98		T	2-Chloropentane	70	21.32	0.789	A	3	A	B
99		T	trans-3-Heptene	41	21.46	0.794	A	3	A	B
100		T	n-Heptane	71	21.55	0.797	A	3	A	B
101		T	cis-3-Heptene	41	21.60	0.799	A	3	A	B
102		T	trans-2-Heptene	55	21.75	0.805	A	3	A	B
103		T	2,4,4-Trimethyl-1-pentene	57	22.02	0.815	A	3	A	B
104		T	cis-1,3-Dichloropropene	75	22.40	0.829	A	3	A	B
105		T	Methylisobutylketone	43	22.53	0.834	A	3	A	B
106		T	Methylcyclohexane	83	22.50	0.832	A	3	A	B
107		T	2,4,4-Trimethyl-2-pentene	55	22.74	0.841	A	3	A	B
108		T	2,5-Dimethylhexane	57	22.93	0.848	A	3	A	B
109		T	2,2,3-Trimethylpentane	57	23.04	0.852	A	3	A	B
110		T	trans-1,3-Dichloropropene	75	23.27	0.861	A	3	A	B
111		T	1,1,2-Trichloroethane	97	23.52	0.870	A	3	A	B
112		T	2,3,4-Trimethylpentane	43	23.73	0.878	A	3	A	B
113		S	Toluene-d8	98	23.79	0.880	A	2	A	B
114		T	Toluene	91	23.96	0.886	A	3	A	B
115		S	1,4-Dichlorobutane	90	28.90	1.069	A	3	A	B
116		T	2-Hexanone	43	24.51	0.907	A	3	A	B
117		T	2-Methylheptane	43	24.36	0.901	A	3	A	B
118		T	1-Methylcyclohexene	81	24.40	0.903	A	3	A	B
119		T	Dibromochloromethane	129	24.66	0.912	A	3	A	B
120		T	3-Methylheptane	85	24.68	0.913	A	3	A	B
121		T	Hexanal	44	24.88	0.921	A	3	A	B
122		T	1,2-Dibromoethane	107	25.06	0.927	A	3	A	B
123		T	2,2,5-Trimethylhexane	57	25.13	0.930	A	3	A	B
124		T	1-Octene	55	25.28	0.935	A	3	A	B
125		T	n-Octane	43	25.75	0.953	A	3	A	B
126		T	Tetrachloroethene	164	25.89	0.958	A	3	A	B
127		T	cis-2-Octene	55	26.23	0.971	A	3	A	B
128		T	Chlorobenzene	112	27.10	1.003	A	3	A	B
129		T	Ethylbenzene	91	27.84	1.030	A	3	A	B
130		T	m/p-Xylene	91	28.20	1.043	A	3	A	B
131		T	Bromoform	173	28.25	1.045	A	3	A	B
132		T	Butyl acrylate	55	28.79	1.065	A	3	A	B
133		T	Heptanal	70	28.93	1.071	A	3	A	B
134		T	Styrene	104	28.87	1.068	A	3	A	B
135		T	1,1,2,2-Tetrachloroethane	83	29.07	1.076	A	3	A	B
136		T	o-Xylene	91	29.07	1.076	A	3	A	B
137		T	1-Nonene	56	29.22	1.081	A	3	A	B
138		T	cis-4-Nonene	55	29.40	1.088	A	3	A	B
139		T	trans-4-Nonene	55	29.49	1.091	A	3	A	B

140	T	n-Nonane	43	29.64	1.097	A	3	A	B
141	S	1,4-Bromofluorobenzene	95	29.99	1.109	A	3	A	B
142	T	Isopropylbenzene	105	30.29	1.121	A	3	A	B
143	T	Benzaldehyde	77	31.03	1.148	A	3	A	B
144	T	alpha-Pinene	93	31.08	1.150	A	3	A	B
145	T	o/m-Chlorotoluene	91	31.28	1.157	A	3	A	B
146	T	p-Chlorotoluene	91	31.42	1.163	A	3	A	B
147	T	n-Propylbenzene	91	31.39	1.161	A	3	A	B
148	T	m-Ethyltoluene	105	31.64	1.171	A	3	A	B
149	T	p-Ethyltoluene	105	31.73	1.174	A	3	A	B
150	T	1,3,5-Trimethylbenzene	105	31.92	1.181	A	3	A	B
151	T	o-Ethyltoluene	105	32.32	1.196	A	3	A	B
152	T	beta-Pinene	93	32.60	1.206	A	3	A	B
153	T	1,2,4-Trimethylbenzene	105	32.85	1.215	A	3	A	B
154	T	tert-Butylbenzene	119	32.83	1.215	A	3	A	B
155	T	1-Decene	56	32.86	1.216	A	3	A	B
156	T	Benzyl chloride	91	33.13	1.226	A	3	A	B
157	T	m-Dichlorobenzene	146	33.15	1.226	A	3	A	B
158	T	n-Decane	57	33.25	1.230	A	3	A	B
159	T	p-Dichlorobenzene	146	33.32	1.233	A	3	A	B
160	T	Isobutylbenzene	91	33.39	1.235	A	3	A	B
161	T	1,2,3-Trimethylbenzene	105	33.86	1.253	A	3	A	B
162	T	p-Isopropyltoluene	119	33.92	1.255	A	3	A	B
163	T	o-Dichlorobenzene	146	34.14	1.263	A	3	A	B
164	T	Limonene	68	34.28	1.268	A	3	A	B
165	T	Indan	117	34.33	1.270	A	3	A	B
166	T	Indene	115	34.55	1.278	A	3	A	B
167	T	m-Diethylbenzene	105	34.72	1.285	A	3	A	B
168	T	p-Diethylbenzene	119	34.96	1.293	A	3	A	B
169	T	n-Butylbenzene	91	35.00	1.295	A	3	A	B
170	T	1-Undecene	55	36.24	1.341	A	3	A	B
171	T	n-Undecane	57	36.60	1.354	A	3	A	B
172	T	1,2,4-Trichlorobenzene	180	38.41	1.421	A	3	A	B
173	T	Naphthalene	128	38.59	1.428	A	3	A	B
174	T	Hexachloro-1,3-butadiene	225	39.29	1.454	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

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QA 110729.M

DMA 7-29-11

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	Purity (102	0.01064		Purity (ext)	0.01057				
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	0.01064	20.2	50.5	101	252.5	505	757.5	1010
Acetylene	74-86-2	0.01064	20.2	50.5	101	252.5	505	757.5	1010
Ethane	74-84-0	0.01064	20.2	50.5	101	252.5	505	757.5	1010
Halocarbor	811-97-2	0.01057	20.4	51	102	255	510	765	1020
Propylene	115-07-1	0.01064	19.8	49.5	99	247.5	495	742.5	990
Chlorodiflu	75-45-6	0.01057	21	52.5	105	262.5	525	787.5	1050
Propane	74-98-6	0.01064	19.6	49	98	245	490	735	980
Dichlorodif	75-71-8	0.01064	19.8	49.5	99	247.5	495	742.5	990
Chlorometl	74-87-3	0.01064	20	50	100	250	500	750	1000
Isobutane	75-28-5	0.01064	19.6	49	98	245	490	735	980
Halocarbor	76-14-2	0.01064	19.6	49	98	245	490	735	980
Acetaldehy	75-07-0	0.01057	20.4	51	102	255	510	765	1020
Vinyl chlori	75-01-4	0.01064	19.8	49.5	99	247.5	495	742.5	990
1-Butene/I	106-98-9	0.01064	19.4	48.5	97	242.5	485	727.5	970
1,3-Butadie	106-99-0	0.01064	21	52.5	105	262.5	525	787.5	1050
n-Butane	106-97-8	0.01064	19.4	48.5	97	242.5	485	727.5	970
Methanol	67-56-1	0.01057	20.8	52	104	260	520	780	1040
trans-2-Bu	624-64-6	0.01064	19.4	48.5	97	242.5	485	727.5	970
Neopentan	463-82-1	0.01057	21	52.5	105	262.5	525	787.5	1050
Dichloroflu	75-43-4	0.01057	21.2	53	106	265	530	795	1060
Bromometl	74-83-9	0.01064	19.8	49.5	99	247.5	495	742.5	990
cis-2-Buter	590-18-1	0.01064	20.8	52	104	260	520	780	1040
Chloroetha	75-00-3	0.01064	19.8	49.5	99	247.5	495	742.5	990
Vinyl Brom	593-60-2	0.01057	20.6	51.5	103	257.5	515	772.5	1030
3-Methyl-1	563-45-1	0.01064	21	52.5	105	262.5	525	787.5	1050
Ethanol	64-17-5	0.01057	20.4	51	102	255	510	765	1020
Acetonitrile	75-05-8	0.01057	20.6	51.5	103	257.5	515	772.5	1030
Acrolein	107-02-8	0.01057	20.6	51.5	103	257.5	515	772.5	1030
Isopentane	78-78-4	0.01064	19.8	49.5	99	247.5	495	742.5	990
Trichlorofl	75-69-4	0.01064	20.6	51.5	103	257.5	515	772.5	1030
1-Pentene	109-67-1	0.01064	20.6	51.5	103	257.5	515	772.5	1030
Acetone	67-64-1	0.01057	22	55	110	275	550	825	1100
2-Propanol	67-63-0	0.01057	24	60	120	300	600	900	1200
Acrylonitrile	107-13-1	0.01057	21	52.5	105	262.5	525	787.5	1050
n-Pentane	109-66-0	0.01064	20.6	51.5	103	257.5	515	772.5	1030
Diethyl eth	60-29-7	0.01057	20.4	51	102	255	510	765	1020
Isoprene	78-79-5	0.01064	20.4	51	102	255	510	765	1020
trans-2-Pe	646-04-8	0.01064	21	52.5	105	262.5	525	787.5	1050
1,1-Dichlor	75-35-4	0.01064	20.8	52	104	260	520	780	1040
cis-2-Pente	627-20-3	0.01064	20.6	51.5	103	257.5	515	772.5	1030
Methylene	75-09-2	0.01064	20.4	51	102	255	510	765	1020
2-Methyl-2	513-35-9	0.01064	21.4	53.5	107	267.5	535	802.5	1070
Carbon Di	75-15-0	0.01057	20.6	51.5	103	257.5	515	772.5	1030
3-Chloropr	107-05-1	0.01064	21.2	53	106	265	530	795	1060
Halocarbor	76-13-1	0.01064	20.6	51.5	103	257.5	515	772.5	1030
Neohexane	75-83-2	0.01064	20.4	51	102	255	510	765	1020

Cyclopente	142-29-0	0.01064	19.8	49.5	99	247.5	495	742.5	990
trans-1,2-D	156-60-5	0.01064	20.8	52	104	260	520	780	1040
4-Methyl-1·	691-37-2	0.01064	20.4	51	102	255	510	765	1020
1-Propanol	71-23-8	0.01057	24	60	120	300	600	900	1200
1,1-Dichlor	75-34-3	0.01064	21.2	53	106	265	530	795	1060
Cyclopente	287-92-3	0.01064	20.4	51	102	255	510	765	1020
2,3-Dimeth	79-29-8	0.01064	20.2	50.5	101	252.5	505	757.5	1010
Methyl tert·	1634-04-4	0.01064	20.4	51	102	255	510	765	1020
Isohexane	107-83-5	0.01064	20.8	52	104	260	520	780	1040
Vinyl Aceta	108-05-4	0.01057	22	55	110	275	550	825	1100
cis-4-Meth	691-38-3	0.01057	20.8	52	104	260	520	780	1040
trans-4-Me	674-76-0	0.01057	20.6	51.5	103	257.5	515	772.5	1030
Butyraldeh	123-72-8	0.01057	20.6	51.5	103	257.5	515	772.5	1030
2-Butanone	78-93-3	0.01057	21.8	54.5	109	272.5	545	817.5	1090
Chloroprer	126-99-8	0.01064	20.2	50.5	101	252.5	505	757.5	1010
3-Methylpe	96-14-0	0.01064	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	0.01064	20.4	51	102	255	510	765	1020
1-Hexene	592-41-6	0.01064	20.2	50.5	101	252.5	505	757.5	1010
cis-1,2-Dic	156-59-2	0.01064	21	52.5	105	262.5	525	787.5	1050
Bromochlo	74-97-5	0.01064	20.4	51	102	255	510	765	1020
2-Ethyl-1-b	760-21-4	0.01057	20	50	100	250	500	750	1000
n-Hexane	110-54-3	0.01064	21.2	53	106	265	530	795	1060
Chloroform	67-66-3	0.01064	20.8	52	104	260	520	780	1040
cis-3-Hexe	9/3/7642	0.01057	20.6	51.5	103	257.5	515	772.5	1030
trans-2-He	4050-45-7	0.01064	21	52.5	105	262.5	525	787.5	1050
2-Methyl-2·	625-27-4	0.01057	20.2	50.5	101	252.5	505	757.5	1010
cis-3-Meth	922-62-3	0.01057	21	52.5	105	262.5	525	787.5	1050
cis-2-Hexe	7688-21-3	0.01064	19.4	48.5	97	242.5	485	727.5	970
1,2-Dichlor	107-06-2	0.01064	21.2	53	106	265	530	795	1060
Methylcycl	96-37-7	0.01064	20.2	50.5	101	252.5	505	757.5	1010
2,4-Dimeth	108-08-7	0.01064	20.6	51.5	103	257.5	515	772.5	1030
1,1,1-Trich	71-55-6	0.01064	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	0.01057	22	55	110	275	550	825	1100
Benzene	71-43-2	0.01064	21.4	53.5	107	267.5	535	802.5	1070
1-Butanol	71-36-3	0.01057	19.4	48.5	97	242.5	485	727.5	970
Carbon tet	56-23-5	0.01064	21	52.5	105	262.5	525	787.5	1050
Cyclohexa	110-82-7	0.01064	21.2	53	106	265	530	795	1060
Isoheptane	31394-54-4	0.01064	20.6	51.5	103	257.5	515	772.5	1030
2,3-Dimeth	565-59-3	0.01064	20.4	51	102	255	510	765	1020
Cyclohexe	110-83-8	0.01057	20.2	50.5	101	252.5	505	757.5	1010
3-Methylhe	589-34-4	0.01064	20.4	51	102	255	510	765	1020
1,2-Dichlor	78-87-5	0.01064	21.2	53	106	265	530	795	1060
Bromodich	75-27-4	0.01064	20.2	50.5	101	252.5	505	757.5	1010
Trichloroet	79-01-6	0.01064	20.2	50.5	101	252.5	505	757.5	1010
1,4-Dioxan	123-91-1	0.01057	20.8	52	104	260	520	780	1040
1-Heptene	592-76-7	0.01057	20	50	100	250	500	750	1000
2,2,4-Trim	540-84-1	0.01064	20.4	51	102	255	510	765	1020
2-Chlorope	625-29-6	0.01064	20.4	51	102	255	510	765	1020
trans-3-He	14686-14-7	0.01057	21.4	53.5	107	267.5	535	802.5	1070
n-Heptane	142-82-5	0.01064	20.6	51.5	103	257.5	515	772.5	1030

cis-3-Hept	10/6/7642	0.01057	21.4	53.5	107	267.5	535	802.5	1070
trans-2-He	14686-13-(	0.01057	20.6	51.5	103	257.5	515	772.5	1030
2,4,4-Trim	107-39-1	0.01057	20.4	51	102	255	510	765	1020
cis-1,3-Dic	10061-01-5	0.01064	20.8	52	104	260	520	780	1040
Methylisob	108-10-1	0.01057	21.8	54.5	109	272.5	545	817.5	1090
Methylcycl	108-87-2	0.01064	20.6	51.5	103	257.5	515	772.5	1030
2,4,4-Trim	107-40-4	0.01057	20.2	50.5	101	252.5	505	757.5	1010
2,5-Dimeth	592-13-2	0.01057	20.8	52	104	260	520	780	1040
2,2,3-Trim	564-02-3	0.01057	20.6	51.5	103	257.5	515	772.5	1030
trans-1,3-D	10061-02-(	0.01064	22	55	110	275	550	825	1100
1,1,2-Trich	79-00-5	0.01064	21.4	53.5	107	267.5	535	802.5	1070
2,3,4-Trim	565-75-3	0.01064	20.6	51.5	103	257.5	515	772.5	1030
Toluene-d8	2037-26-5	0.2	10	10	10	10	10	10	10
Toluene	108-88-3	0.01064	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	0.01057	21.4	53.5	107	257.5	535	802.5	1070
2-Methylhe	592-27-8	0.01064	20.6	51.5	103	267.5	515	772.5	1030
1-Methylcy	591-49-1	0.01057	21.4	53.5	107	267.5	535	802.5	1070
Dibromoch	124-48-1	0.01064	20.8	52	104	260	520	780	1040
3-Methylhe	589-81-1	0.01064	20.4	51	102	255	510	765	1020
Hexanal	66-25-1	0.01057	20.6	51.5	103	257.5	515	772.5	1030
1,2-Dibrom	106-93-4	0.01064	21.6	54	108	270	540	810	1080
2,2,5-Trim	3522-94-9	0.01057	21.8	54.5	109	272.5	545	817.5	1090
1-Octene	111-66-0	0.01057	20	50	100	250	500	750	1000
n-Octane	111-65-9	0.01064	20.6	51.5	103	257.5	515	772.5	1030
Tetrachlor	127-18-4	0.01064	21.2	53	106	265	530	795	1060
cis-2-Octe	4/8/7642	0.01057	21	52.5	105	262.5	525	787.5	1050
Chloroben	108-90-7	0.01064	21.6	54	108	270	540	810	1080
Ethylbenze	100-41-4	0.01064	21.6	54	108	270	540	810	1080
m/p-Xylene	106-42-3	0.01064	42.4	106	212	530	1060	1590	2120
Bromoform	75-25-2	0.01064	21.2	53	106	265	530	795	1060
Butyl Acryl	141-32-2	0.01057	22.8	57	114	285	570	855	1140
Styrene	100-42-5	0.01064	21.8	54.5	109	272.5	545	817.5	1090
Heptanal	111-71-7	0.01057	20.6	51.5	103	257.5	515	772.5	1030
1,1,2,2-Tet	79-34-5	0.01064	21.4	53.5	107	267.5	535	802.5	1070
o-Xylene	95-47-6	0.01064	21.4	53.5	107	267.5	535	802.5	1070
1-Nonene	124-11-8	0.01057	19.4	48.5	97	242.5	485	727.5	970
cis-4-None	10405-84-2	0.01057	22.8	57	114	285	570	855	1140
trans-4-No	10405-85-3	0.01057	19.2	48	96	240	480	720	960
n-Nonane	111-84-2	0.01064	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	0.01064	19.8	49.5	99	247.5	495	742.5	990
Benzaldeh	100-52-7	0.01057	20.8	52	104	260	520	780	1040
alpha-Pine	80-56-8	0.01064	21.4	53.5	107	267.5	535	802.5	1070
o/m-Chlorc	2/3-CT	0.01057	42.8	107	214	535	1070	1605	2140
p-Chlorotol	106-43-4	0.01057	21.6	54	108	270	540	810	1080
n-Propylbe	103-65-1	0.01064	20	50	100	250	500	750	1000
m-Ethyltolu	620-14-4	0.01064	20	50	100	250	500	750	1000
p-Ethyltolu	622-96-8	0.01064	20.2	50.5	101	252.5	505	757.5	1010
1,3,5-Trim	108-67-8	0.01064	21.8	54.5	109	272.5	545	817.5	1090
o-Ethyltolu	611-14-3	0.01064	19.8	49.5	99	247.5	495	742.5	990
beta-Pinen	127-91-3	0.01064	15	37.5	75	187.5	375	562.5	750

1,2,4-Trim	95-63-6	0.01064	21.8	54.5	109	272.5	545	817.5	1090
tert-Butylbe	98-06-6	0.01057	21.4	53.5	107	267.5	535	802.5	1070
1-Decene	872-05-9	0.01057	21.4	53.5	107	267.5	535	802.5	1070
Benzyl chl	100-44-7	0.01064	21.8	54.5	109	272.5	545	817.5	1090
m-Dichloro	541-73-1	0.01064	21.8	54.5	109	272.5	545	817.5	1090
n-Decane	124-18-5	0.01064	20.6	51.5	103	257.5	515	772.5	1030
p-Dichlorol	106-46-7	0.01064	21.6	54	108	270	540	810	1080
Isobutylber	538-93-2	0.01057	22	55	110	275	550	825	1100
1,2,3-Trim	526-73-8	0.01064	19.6	49	98	245	490	735	980
p-Isopropyl	99-87-6	0.01057	22	55	110	275	550	825	1100
o-Dichlorol	95-50-1	0.01064	21.6	54	108	270	540	810	1080
Limonene	138-86-3	0.01057	21	52.5	105	262.5	525	787.5	1050
Indan	496-11-7	0.01057	21	52.5	105	262.5	525	787.5	1050
Indene	95-13-6	0.01057	20.6	51.5	103	257.5	515	772.5	1030
m-Diethylb	141-93-5	0.01064	19.4	48.5	97	242.5	485	727.5	970
p-Diethylbe	105-05-5	0.01064	19.8	49.5	99	247.5	495	742.5	990
n-Butylben	104-51-8	0.01057	22.2	55.5	111	277.5	555	832.5	1110
1-Undecen	821-95-4	0.01057	20.8	52	104	260	520	780	1040
n-Undecan	1120-21-4	0.01057	20.4	51	102	255	510	765	1020

INSTRUMENT GCMS-Q2 ANALYST / DATE: 7-29-11 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 —	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: Q110725.U Elect Mult. 2271 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. QA110705.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#: MSVOCID005 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	WARM-P	RA1819	0.5	7	QA072901	0.01066	VOC-USP-77-73
2	DRY LCS	RA1894	0.5	11	02	0.005911	-70 Static blend
3	WET LCS	RA1920	0.5	3	03	0.01056	-60
4	WARMUP	CW1640	↓	2	04	0.01064	VOC-USP-33-64
5	CCAL	↓	↓	↓	05	↓	↓
6	CCAL	↓	↓	↓	06	↓	↓
7	MB	RA2220	↓	9	07	1.0	
8	PREFLUSH	RA1748	0.1	8	08	0.01057	VOC-USP-33-55
9	EXT BLEND 20	↓	0.02	↓	09	↓	↓
10	↓ 50	↓	0.05	↓	10	↓	↓

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
11	EXT BLEND 100	RA1748	0.1	8	GH1911	0.01057	VOC-USP-33-55
12	250		0.25		12		
13	500		0.5		13		
14	750		0.75		14		
15	1000		1.0		15		
16	MB	RA2220	0.5	9	16	1.0	
17	PREFLUSH	CW1640	0.1	2	17	0.01064	VOC-USP-33-64
18	102 BLEND 20		0.02		18		
19	80		0.05		19		
20	100		0.10		20		
21	250		0.25		21		
22	500		0.5		22		
23	750		0.75		23		
24	1000		1.0		24		
25	MB	RA2220	0.5	9	25	1.0	
26	ICV LCS	RA1920		3	26	0.01056	VOC-USP-33-60
27	ICV EXT HRICCD	~~0.01057~~		12	27	0.01057	VOC-USP-33-54
28	ICV 102	RA1911		5	28	0.01060	VOC-USP-33-66
29							
30							
31							
32							
33							
34							
35							
36							
37							

```
   Sequence Name: C:\MSVOC6\HPCHEM\6\SEQUENCE\Q110729.S
         Comment:
        Operator: KDK
       Data Path: C:\MSVOC6\HPCHEM\6\DATA\Q110729\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject

   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Sample        1  QA072901 QA110705 WARMUP,,,,0.01066;CCAL
 2)  Sample        1  QA072902 QA110705 DRY LCS,,,,0.009911;LCS
 3)  Sample        1  QA072903 QA110705 WET LCS,,,,0.01056;LCS
 4)  Sample        1  QA072904 QA110705 WARMUP
 5)  Sample        1  QA072905 QA110705 CCAL,,,,0.01064;CCAL
 6)  Sample        1  QA072906 QA110705 CCAL,,,,0.01064;CCAL
 7)  Sample        1  QA072907 QA110705 MB
 8)  Sample        1  QA072908 QA110705 PREFLUSH,,,,0.01057;EXT
 9)  Sample        1  QA072909 QA110705 EXT BLEND 20,,,,0.01057;EXT
10)  Sample        1  QA072910 QA110705 EXT BLEND 50,,,,0.01057;EXT
11)  Sample        1  QA072911 QA110705 EXT BLEND 100,,,,0.01057;EXT
12)  Sample        1  QA072912 QA110705 EXT BLEND 250,,,,0.01057;EXT
13)  Sample        1  QA072913 QA110705 EXT BLEND 500,,,,0.01057;EXT
14)  Sample        1  QA072914 QA110705 EXT BLEND 750,,,,0.01057;EXT
15)  Sample        1  QA072915 QA110705 EXT BLEND 1000,,,,0.01057;EXT
16)  Sample        1  QA072916 QA110705 MB
17)  Sample        1  QA072917 QA110705 PREFLUSH,,,,0.01064;102
18)  Sample        1  QA072918 QA110705 102 BLEND 20,,,,0.01064;102
19)  Sample        1  QA072919 QA110705 102 BLEND 50,,,,0.01064;102
20)  Sample        1  QA072920 QA110705 102 BLEND 100,,,,0.01064;102
21)  Sample        1  QA072921 QA110705 102 BLEND 250,,,,0.01064;102
22)  Sample        1  QA072922 QA110705 102 BLEND 500,,,,0.01064;102
23)  Sample        1  QA072923 QA110705 102 BLEND 750,,,,0.01064;102
24)  Sample        1  QA072924 QA110705 102 BLEND 1000,,,,0.01064;102
25)  Sample        1  QA072925 QA110705 MB
26)  Sample        1  QA072926 QA110705 ICV LCS,,,,0.01056;LCS
27)  Sample        1  QA072927 QA110705 ICV EXT,,,,0.01057;EXT
28)  Sample        1  QA072928 QA110705 ICV 102,,,,0.01060;102
```

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

Sequence Name: C:\Smart\Q110729.SEQ
Date: 08-04-2011
Time: 10:01:17
Int. Std Volume: 200 cc

8-4-11

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
WARMUP	1	7	500	0	C:\Smart\Q100301.MPT	12:00
DRY LCS	1	11	500	0	C:\Smart\Q100301.MPT	12:00
WET LCS	1	3	500	0	C:\Smart\Q100301.MPT	12:00
WARMUP	1	2	500	0	C:\Smart\Q100301.MPT	12:00
CCAL	1	2	500	0	C:\Smart\Q100301.MPT	12:00
CCAL	1	2	500	0	C:\Smart\Q100301.MPT	12:00
MB	1	9	500	0	C:\Smart\Q100301.MPT	12:00
PREFLUSH	1	8	100	0	C:\Smart\Q100301.MPT	12:00
EXT BLEND 20	1	8	20	0	C:\Smart\Q100301.MPT	12:00
EXT BLEND 50	1	8	50	0	C:\Smart\Q100301.MPT	12:00
EXT BLEND 100	1	8	100	0	C:\Smart\Q100301.MPT	12:00
EXT BLEND 250	1	8	250	0	C:\Smart\Q100301.MPT	12:00
EXT BLEND 500	1	8	500	0	C:\Smart\Q100301.MPT	12:00
EXT BLEND 750	1	8	750	0	C:\Smart\Q100301.MPT	12:00
EXT BLEND 1000	1	8	1000	0	C:\Smart\Q100301.MPT	12:00
MB	1	9	500	0	C:\Smart\Q100301.MPT	12:00
PREFLUSH	1	2	100	0	C:\Smart\Q100301.MPT	12:00
102 BLEND 20	1	2	20	0	C:\Smart\Q100301.MPT	12:00
102 BLEND 50	1	2	50	0	C:\Smart\Q100301.MPT	12:00
102 BLEND 100	1	2	100	0	C:\Smart\Q100301.MPT	12:00
102 BLEND 250	1	2	250	0	C:\Smart\Q100301.MPT	12:00
102 BLEND 500	1	2	500	0	C:\Smart\Q100301.MPT	12:00
102 BLEND 750	1	2	750	0	C:\Smart\Q100301.MPT	12:00
102 BLEND 1000	1	2	1000	0	C:\Smart\Q100301.MPT	12:00
MB	1	9	500	0	C:\Smart\Q100301.MPT	12:00

BFB

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072909.D Vial: 1
Acq On : 29 Jul 2011 8:35 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :

Spectrum Information: Average of 29.957 to 30.008 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.0	24597	PASS
75	95	30	66	53.5	69226	PASS
95	95	100	100	100.0	129422	PASS
96	95	5	9	6.5	8390	PASS
173	174	0.00	2	0.1	84	PASS
174	95	50	120	71.8	92987	PASS
175	174	4	9	7.2	6651	PASS
176	174	93	101	96.4	89637	PASS
177	176	5	9	6.7	5979	PASS

QA072909.D QA110705.M Mon Aug 01 12:18:30 2011 DAH

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072909.D Vial: 1
Acq On : 29 Jul 2011 8:35 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:40 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

DAH 8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	800090	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	615905	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	361704	1.7583 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.00%	
65) Fluorobenzene	19.88	96	839545	1.7092 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.50%	
113) Toluene-d8	23.79	98	729879	1.8589 ppbV	0.00
Spiked Amount 2.000			Recovery	= 93.00%	
115) 1,4-Dichlorobutane	28.90	90	99385	1.7988 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.00%	
141) 1,4-Bromofluorobenzene	29.99	95	486756	1.9753 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	

Target Compounds					Qvalue
6) Halocarbon 134A	5.16	69	20015	0.1969 ppbV # S	73
8) Chlorodifluoromethane	6.27	51	35872	0.1978 ppbV S	88
14) Acetaldehyde	8.72	44	4477m	0.1057 ppbV S	
19) Methanol	9.78	31	4701m	0.1706 ppbV S	
21) Neopentane	9.70	57	70746	0.2005 ppbV # S	1
22) Dichlorofluoromethane	10.96	67	34882	0.1616 ppbV # S	1
26) Vinyl bromide	11.23	106	23686	0.2007 ppbV S	85
28) Ethanol	11.91	45	4979m	0.1640 ppbV S	
29) Acetonitrile	11.85	41	6779m	0.1153 ppbV S	
30) Acrolein	12.05	56	2591m	0.0945 ppbV S	
34) Acetone	12.69	43	17478m	0.1474 ppbV S	
35) 2-Propanol	13.44	45	14921m	0.1912 ppbV S	
36) Acrylonitrile	13.12	52	4221m	0.1039 ppbV S	
38) Diethyl ether	13.58	74	3025m	0.1038 ppbV S	
45) Carbon Disulfide	13.82	76	73064	0.2073 ppbV S	98
52) 1-Propanol	15.55	59	1340m	0.1821 ppbV S	
58) Vinyl acetate	16.00	43	14273m	0.0819 ppbV S	
59) cis-4-Methyl-2-pentene	15.74	69	12529	0.0838 ppbV # S	1
60) trans-4-Methyl-2-pentene	15.87	69	15123	0.0925 ppbV S	99
61) Butyraldehyde	16.19	72	1028m	0.0823 ppbV S	
62) 2-Butanone	16.55	43	16686m	0.1117 ppbV S	
70) 2-Ethyl-1-butene	17.13	69	5849	0.0718 ppbV S	95
73) cis-3-Hexene	17.30	55	7068	0.0760 ppbV S	91
75) 2-Methyl-2-pentene	17.47	41	8471	0.0784 ppbV S	86
76) cis-3-Methyl-2-pentene	17.61	69	9110	0.0882 ppbV S	97
83) Methylcyclopentene	19.33	67	14434	0.0971 ppbV # S	1
86) 1-Butanol	19.77	56	5362m	0.1463 ppbV S	
90) Cyclohexene	20.47	67	11475	0.1063 ppbV # S	1
95) 1,4-Dioxane	21.36	88	7872m	0.2082 ppbV S	
96) 1-Heptene	21.06	55	4542	0.0923 ppbV # S	1
99) trans-3-Heptene	21.46	41	9523	0.1180 ppbV # S	74
101) cis-3-Heptene	21.61	41	9531	0.1154 ppbV # S	10
102) trans-2-Heptene	21.75	55	8508	0.1086 ppbV # S	49
103) 2,4,4-Trimethyl-1-pentene	22.02	57	19387	0.0899 ppbV # S	1
105) Methylisobutylketone	22.68	43	20460m	0.1329 ppbV S	

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072909.D Vial: 1
Acq On : 29 Jul 2011 8:35 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:40 19111 Quant Results File: QA110705.RES

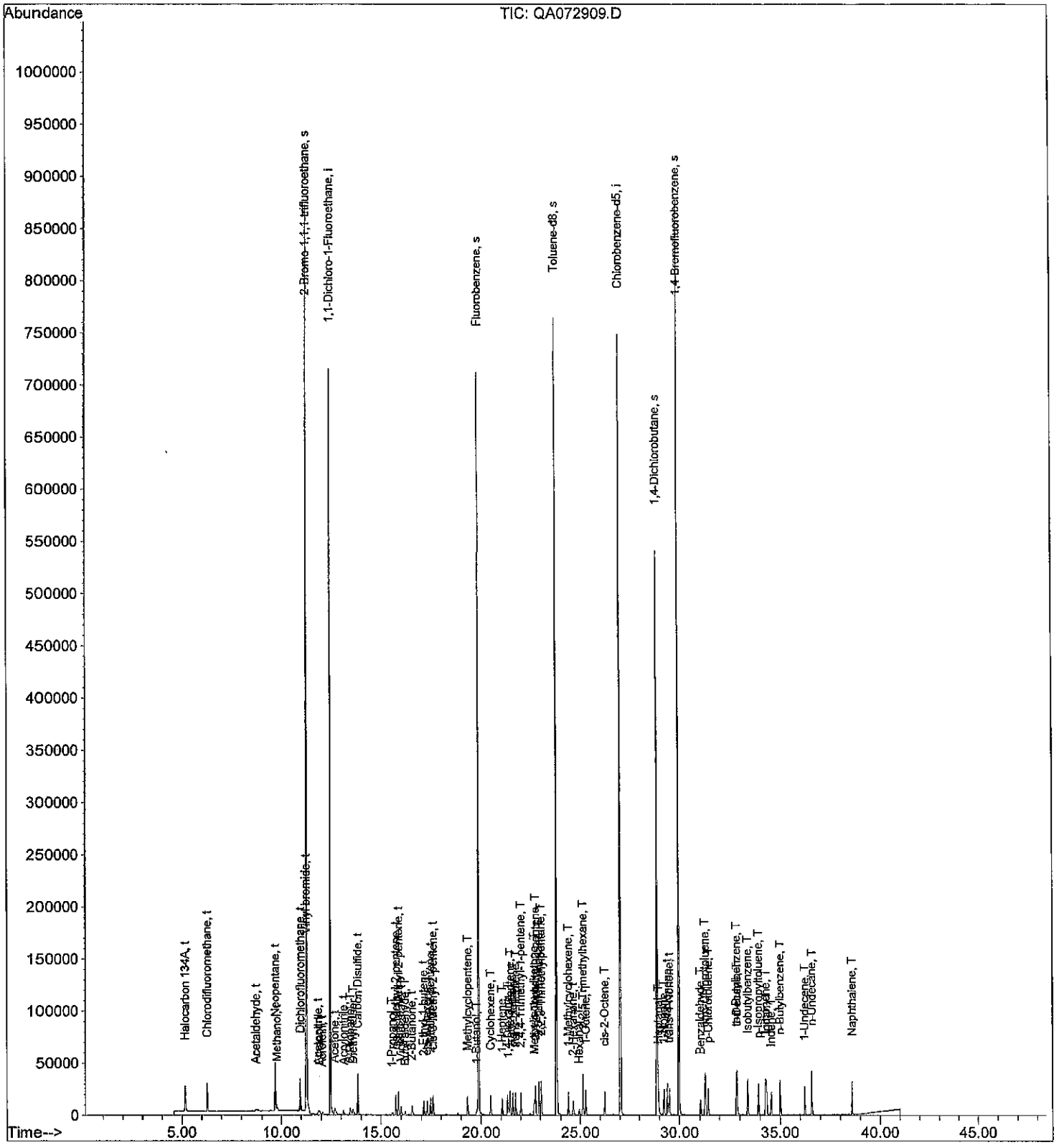
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
107)	2,4,4-Trimethyl-2-pentene	22.74	55	15729	0.1189	ppbV	# S	24
108)	2,5-Dimethylhexane	22.93	57	18095	0.1220	ppbV	# S	1
109)	2,2,3-Trimethylpentane	23.04	57	34375	0.1231	ppbV	# S	31
116)	2-Hexanone	24.64	43	16634m	0.1289	ppbV	S	
118)	1-Methylcyclohexene	24.41	81	10803	0.1048	ppbV	# S	1
121)	Hexanal	24.94	44	2121m	0.0986	ppbV	S	
123)	2,2,5-Trimethylhexane	25.13	57	37616	0.1269	ppbV	S	96
124)	1-Octene	25.28	55	7258	0.1118	ppbV	# S	1
127)	cis-2-Octene	26.24	55	8694	0.1013	ppbV	# S	100
133)	Heptanal	28.96	70	4733	0.1277	ppbV	# S	1
137)	1-Nonene	29.22	56	6865	0.0988	ppbV	# S	1
138)	cis-4-Nonene	29.40	55	15219	0.1199	ppbV	# S	1
139)	trans-4-Nonene	29.49	55	13453	0.1144	ppbV	S	91
143)	Benzaldehyde	31.04	77	8856	0.1521	ppbV	# S	37
145)	o/m-Chlorotoluene	31.28	91	51068	0.3022	ppbV	# S	1
146)	p-Chlorotoluene	31.42	91	25322	0.1466	ppbV	# S	33
154)	tert-Butylbenzene	32.83	119	23361	0.1310	ppbV	# S	1
155)	1-Decene	32.86	56	8516	0.1338	ppbV	# S	82
160)	Isobutylbenzene	33.39	91	30707	0.1401	ppbV	# S	47
162)	p-Isopropyltoluene	33.93	119	26386	0.1327	ppbV	S	93
164)	Limonene	34.28	68	10941	0.1113	ppbV	# S	100
165)	Indan	34.32	117	25779	0.1538	ppbV	# S	1
166)	Indene	34.55	115	19024	0.1276	ppbV	# S	21
169)	n-Butylbenzene	35.00	91	28999	0.1324	ppbV	# S	52
170)	1-Undecene	36.24	55	6647	0.1038	ppbV	# S	62
171)	n-Undecane	36.60	57	19024	0.1094	ppbV	S	84
173)	Naphthalene	38.59	128	28174	0.1959	ppbV	S	98

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072909.D Vial: 1
Acq On : 29 Jul 2011 8:35 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:40 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072910.D Vial: 1
Acq On : 29 Jul 2011 9:31 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:42 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	753804	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	570458	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	332887	1.7176 ppbV	0.00
Spiked Amount 2.000			Recovery	= 86.00%	
65) Fluorobenzene	19.88	96	753656	1.6286 ppbV	0.00
Spiked Amount 2.000			Recovery	= 81.50%	
113) Toluene-d8	23.79	98	668892	1.8393 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.00%	
115) 1,4-Dichlorobutane	28.91	90	92387	1.8054 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	
141) 1,4-Bromofluorobenzene	29.99	95	458732	2.0099 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	

Target Compounds					Qvalue
6) Halocarbon 134A	5.16	69	41064	0.4287 ppbV # S	65
8) Chlorodifluoromethane	6.27	51	74177	0.4341 ppbV S	90
14) Acetaldehyde	8.59	44	14063m	0.3523 ppbV S	
19) Methanol	9.74	31	10832m	0.4173 ppbV S	
21) Neopentane	9.70	57	145862	0.4388 ppbV # S	1
22) Dichlorofluoromethane	10.96	67	85342	0.4197 ppbV # S	1
26) Vinyl bromide	11.23	106	46054	0.4141 ppbV S	85
28) Ethanol	11.84	45	11912m	0.4164 ppbV S	
29) Acetonitrile	11.77	41	16078m	0.2903 ppbV S	
30) Acrolein	11.98	56	6444m	0.2494 ppbV S	
34) Acetone	12.55	43	39366m	0.3523 ppbV S	
35) 2-Propanol	13.34	45	31348m	0.4263 ppbV S	
36) Acrylonitrile	13.06	52	9418m	0.2460 ppbV S	
38) Diethyl ether	13.49	74	6788m	0.2472 ppbV S	
45) Carbon Disulfide	13.82	76	149084	0.4490 ppbV S	97
52) 1-Propanol	15.51	59	3201m	0.4616 ppbV S	
58) Vinyl acetate	15.99	43	37387	0.2276 ppbV S	96
59) cis-4-Methyl-2-pentene	15.73	69	36968	0.2625 ppbV # S	1
60) trans-4-Methyl-2-pentene	15.87	69	41233	0.2676 ppbV S	96
61) Butyraldehyde	16.15	72	2990m	0.2539 ppbV S	
62) 2-Butanone	16.49	43	40104m	0.2849 ppbV S	
70) 2-Ethyl-1-butene	17.13	69	15090	0.1966 ppbV S	93
73) cis-3-Hexene	17.31	55	19400	0.2215 ppbV S	97
75) 2-Methyl-2-pentene	17.47	41	23026	0.2263 ppbV S	93
76) cis-3-Methyl-2-pentene	17.61	69	25201	0.2591 ppbV S	95
83) Methylcyclopentene	19.32	67	37362	0.2715 ppbV # S	1
86) 1-Butanol	19.73	56	14458m	0.4258 ppbV S	
90) Cyclohexene	20.48	67	28138	0.2815 ppbV # S	1
95) 1,4-Dioxane	21.27	88	16482m	0.4707 ppbV S	
96) 1-Heptene	21.06	55	11970	0.2625 ppbV # S	1
99) trans-3-Heptene	21.46	41	24156	0.3231 ppbV # S	75
101) cis-3-Heptene	21.61	41	24262	0.3173 ppbV # S	17
102) trans-2-Heptene	21.75	55	21172	0.2918 ppbV # S	57
103) 2,4,4-Trimethyl-1-pentene	22.02	57	52692	0.2639 ppbV # S	1
105) Methylisobutylketone	22.65	43	52227m	0.3664 ppbV S	

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072910.D Vial: 1
Acq On : 29 Jul 2011 9:31 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:42 19111 Quant Results File: QA110705.RES

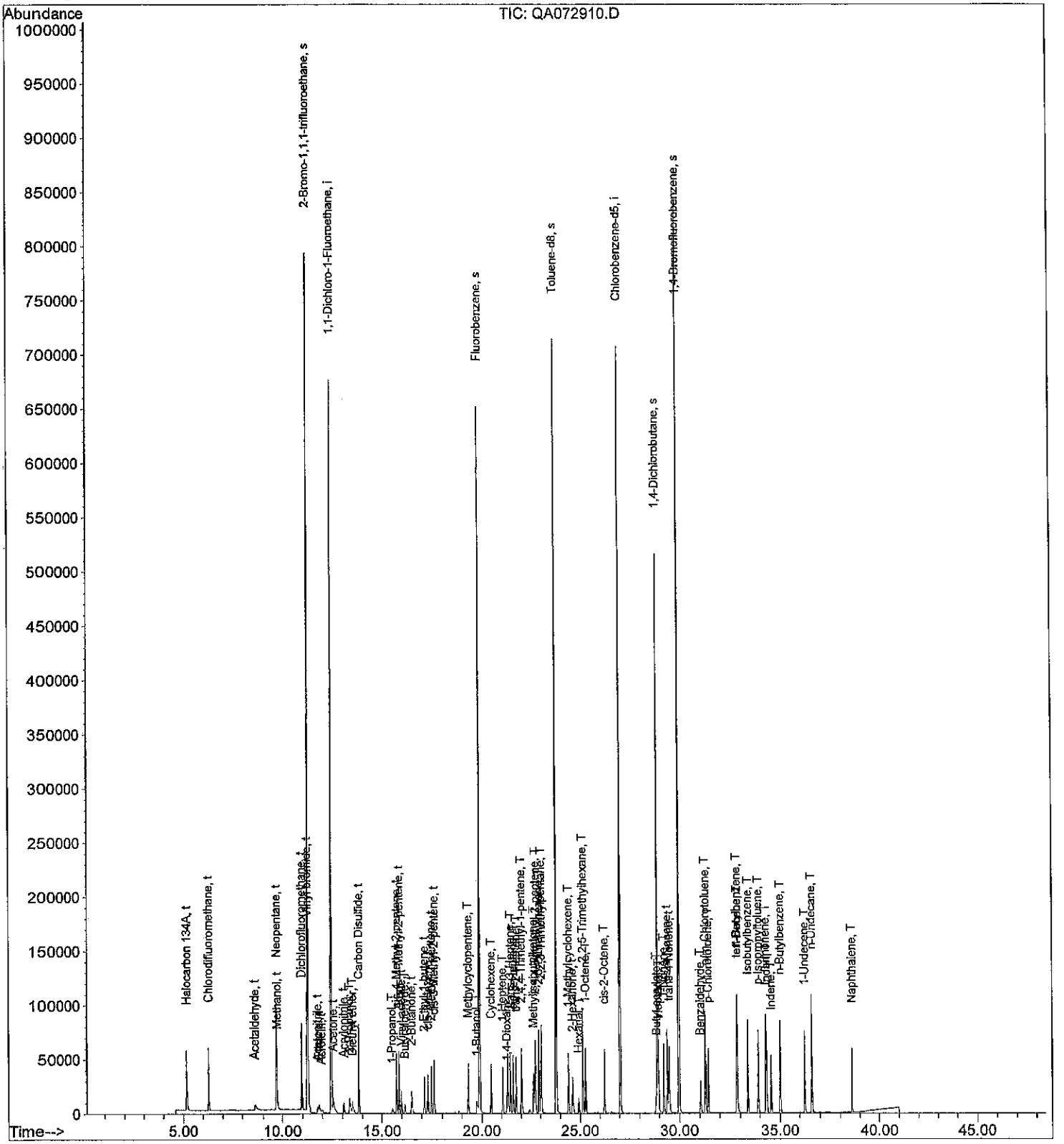
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
107) 2,4,4-Trimethyl-2-pentene	22.75	55	38058	0.3106 ppbV # S	22
108) 2,5-Dimethylhexane	22.93	57	43778	0.3187 ppbV # S	1
109) 2,2,3-Trimethylpentane	23.04	57	84184	0.3255 ppbV # S	32
116) 2-Hexanone	24.61	43	40834m	0.3416 ppbV S	
118) 1-Methylcyclohexene	24.41	81	27459	0.2876 ppbV # S	1
121) Hexanal	24.93	44	4424m	0.2222 ppbV S	
123) 2,2,5-Trimethylhexane	25.14	57	92049	0.3352 ppbV S	95
124) 1-Octene	25.28	55	17581	0.2924 ppbV # S	1
127) cis-2-Octene	26.24	55	22322	0.2808 ppbV # S	100
132) Butyl acrylate	28.85	55	14515m	0.1184 ppbV S	
133) Heptanal	28.96	70	10731	0.3126 ppbV # S	1
137) 1-Nonene	29.22	56	17401	0.2704 ppbV # S	1
138) cis-4-Nonene	29.40	55	39431	0.3353 ppbV # S	1
139) trans-4-Nonene	29.49	55	31817	0.2922 ppbV S	96
143) Benzaldehyde	31.04	77	17495	0.3243 ppbV # S	41
145) o/m-Chlorotoluene	31.28	91	118533	0.7573 ppbV # S	1
146) p-Chlorotoluene	31.43	91	58076	0.3630 ppbV # S	34
154) tert-Butylbenzene	32.83	119	55322	0.3348 ppbV # S	1
155) 1-Decene	32.86	56	22656	0.3842 ppbV # S	83
160) Isobutylbenzene	33.39	91	74366	0.3662 ppbV # S	45
162) p-Isopropyltoluene	33.92	119	63607	0.3453 ppbV S	99
164) Limonene	34.27	68	28128	0.3090 ppbV # S	100
165) Indan	34.32	117	59243	0.3816 ppbV # S	1
166) Indene	34.55	115	44605	0.3231 ppbV # S	21
169) n-Butylbenzene	35.01	91	73838	0.3639 ppbV # S	49
170) 1-Undecene	36.24	55	18989	0.3201 ppbV # S	57
171) n-Undecane	36.60	57	51094	0.3173 ppbV S	87
173) Naphthalene	38.59	128	51728	0.3884 ppbV S	98

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072910.D Vial: 1
Acq On : 29 Jul 2011 9:31 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:42 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072911.D Vial: 1
Acq On : 29 Jul 2011 10:27 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:44 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

DAH 8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	737576	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	569990	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	322913	1.7028 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.00%	
65) Fluorobenzene	19.88	96	755493	1.6685 ppbV	0.00
Spiked Amount 2.000			Recovery	= 83.50%	
113) Toluene-d8	23.79	98	673400	1.8532 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	
115) 1,4-Dichlorobutane	28.90	90	89843	1.7571 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.00%	
141) 1,4-Bromofluorobenzene	29.99	95	449103	1.9694 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.50%	

Target Compounds					Qvalue
6) Halocarbon 134A	5.15	69	74726	0.7973 ppbV # S	59
8) Chlorodifluoromethane	6.27	51	133020	0.7955 ppbV S	89
14) Acetaldehyde	8.50	44	24515m	0.6276 ppbV S	
19) Methanol	9.68	31	18533m	0.7296 ppbV S	
21) Neopentane	9.70	57	270909	0.8329 ppbV # S	1
22) Dichlorofluoromethane	10.96	67	167765	0.8431 ppbV # S	1
26) Vinyl bromide	11.23	106	94452	0.8680 ppbV S	82
28) Ethanol	11.78	45	21128m	0.7548 ppbV S	
29) Acetonitrile	11.67	41	33596m	0.6199 ppbV S	
30) Acrolein	11.88	56	13408m	0.5303 ppbV S	
34) Acetone	12.46	43	78381m	0.7168 ppbV S	
35) 2-Propanol	13.25	45	66237m	0.9206 ppbV S	
36) Acrylonitrile	13.03	52	19969m	0.5330 ppbV S	
38) Diethyl ether	13.43	74	15692m	0.5841 ppbV S	
45) Carbon Disulfide	13.82	76	270216	0.8318 ppbV S	97
52) 1-Propanol	15.48	59	6557m	0.9664 ppbV S	
58) Vinyl acetate	15.97	43	88230	0.5490 ppbV S	97
59) cis-4-Methyl-2-pentene	15.73	69	87517	0.6352 ppbV # S	1
60) trans-4-Methyl-2-pentene	15.86	69	93485	0.6201 ppbV S	97
61) Butyraldehyde	16.10	72	6391	0.5547 ppbV S	90
62) 2-Butanone	16.43	43	81744m	0.5936 ppbV S	
70) 2-Ethyl-1-butene	17.13	69	37979	0.5057 ppbV S	95
73) cis-3-Hexene	17.30	55	46002	0.5368 ppbV S	93
75) 2-Methyl-2-pentene	17.47	41	54831	0.5507 ppbV S	98
76) cis-3-Methyl-2-pentene	17.60	69	58302	0.6126 ppbV S	97
83) Methylcyclopentene	19.32	67	95565	0.6949 ppbV # S	1
86) 1-Butanol	19.71	56	28315m	0.8345 ppbV S	
90) Cyclohexene	20.48	67	66976	0.6705 ppbV # S	1
95) 1,4-Dioxane	21.21	88	32816m	0.9380 ppbV S	
96) 1-Heptene	21.06	55	28948	0.6354 ppbV # S	1
99) trans-3-Heptene	21.46	41	53680	0.7185 ppbV # S	76
101) cis-3-Heptene	21.61	41	55551	0.7270 ppbV # S	15
102) trans-2-Heptene	21.75	55	49197	0.6786 ppbV # S	55
103) 2,4,4-Trimethyl-1-pentene	22.02	57	125639	0.6298 ppbV # S	1
105) Methylisobutylketone	22.61	43	102686	0.7209 ppbV S	92

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072911.D Vial: 1
Acq On : 29 Jul 2011 10:27 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:44 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

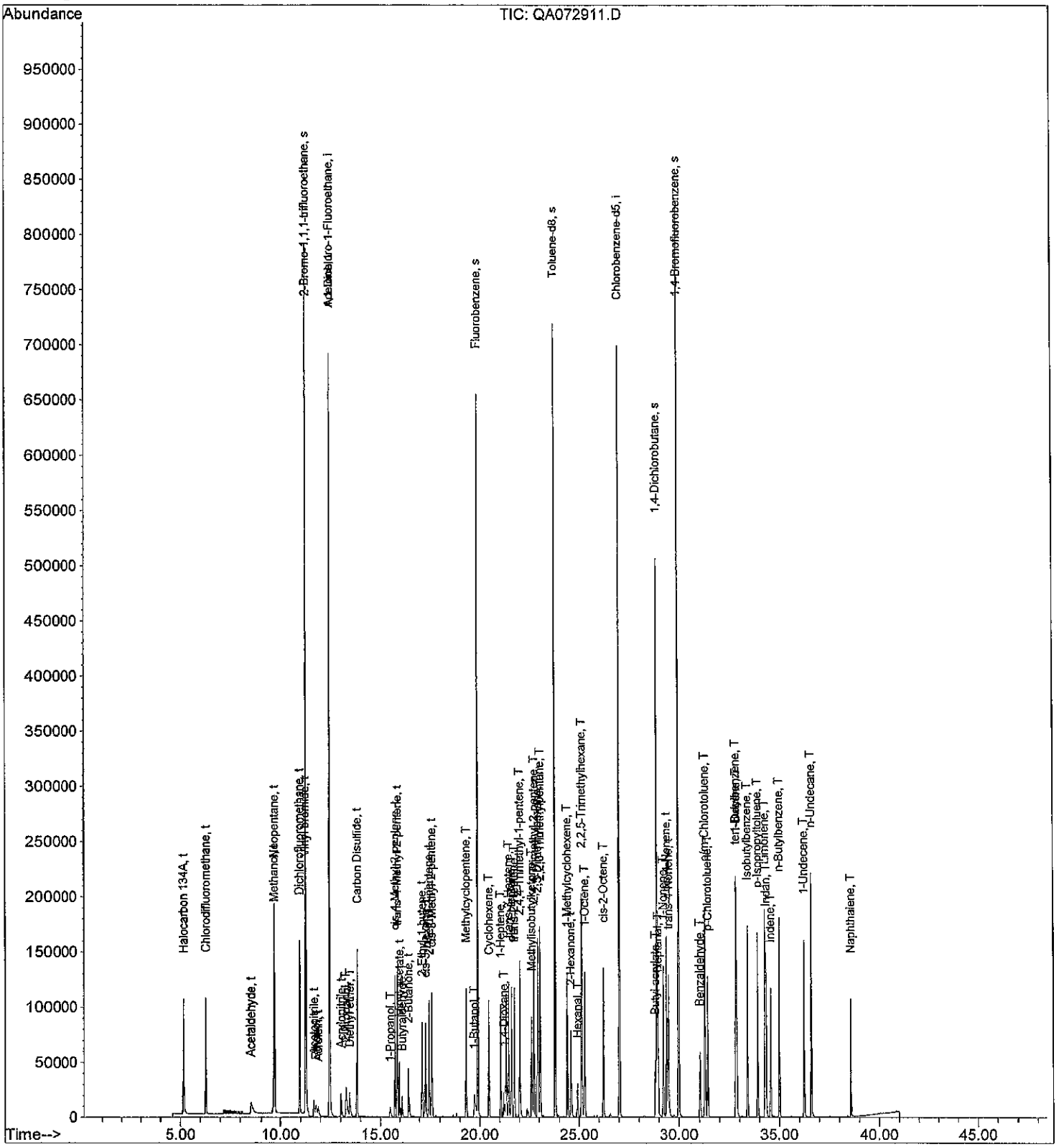
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
107) 2,4,4-Trimethyl-2-pentene	22.74	55	85142	0.6954 ppbV # S	19
108) 2,5-Dimethylhexane	22.93	57	96258	0.7014 ppbV # S	1
109) 2,2,3-Trimethylpentane	23.04	57	180409	0.6981 ppbV # S	31
116) 2-Hexanone	24.58	43	87321	0.7311 ppbV # S	1
118) 1-Methylcyclohexene	24.40	81	68035	0.7133 ppbV # S	1
121) Hexanal	24.92	44	10734	0.5395 ppbV # S	1
123) 2,2,5-Trimethylhexane	25.13	57	200983	0.7326 ppbV S	95
124) 1-Octene	25.28	55	39303	0.6542 ppbV # S	1
127) cis-2-Octene	26.23	55	53375	0.6720 ppbV # S	100
132) Butyl acrylate	28.82	55	54887	0.4481 ppbV # S	1
133) Heptanal	28.96	70	22713	0.6622 ppbV # S	1
137) 1-Nonene	29.22	56	38487	0.5985 ppbV # S	1
138) cis-4-Nonene	29.40	55	86148	0.7332 ppbV # S	1
139) trans-4-Nonene	29.49	55	71059	0.6530 ppbV S	95
143) Benzaldehyde	31.04	77	34736	0.6445 ppbV # S	41
145) o/m-Chlorotoluene	31.28	91	243072	1.5542 ppbV # S	1
146) p-Chlorotoluene	31.42	91	122464	0.7661 ppbV # S	34
154) tert-Butylbenzene	32.83	119	119885	0.7262 ppbV # S	1
155) 1-Decene	32.86	56	45877	0.7787 ppbV # S	83
160) Isobutylbenzene	33.39	91	155627	0.7670 ppbV # S	45
162) p-Isopropyltoluene	33.92	119	137281	0.7459 ppbV S	99
164) Limonene	34.27	68	60544	0.6657 ppbV # S	100
165) Indan	34.33	117	117263	0.7559 ppbV # S	1
166) Indene	34.55	115	95633	0.6932 ppbV # S	21
169) n-Butylbenzene	35.00	91	156801	0.7734 ppbV # S	47
170) 1-Undecene	36.24	55	40168	0.6776 ppbV # S	58
171) n-Undecane	36.60	57	108990	0.6773 ppbV S	89
173) Naphthalene	38.59	128	92330	0.6938 ppbV S	98

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

Quantitation Report

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072911.D Vial: 1
Acq On : 29 Jul 2011 10:27 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:44 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072912.D Vial: 1
Acq On : 29 Jul 2011 11:24 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:50 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

DAH 8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	721027	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	591596	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	317143	1.7108 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.50%	
65) Fluorobenzene	19.88	96	757233	1.7107 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.50%	
113) Toluene-d8	23.79	98	698551	1.8522 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	
115) 1,4-Dichlorobutane	28.90	90	90418	1.7038 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.00%	
141) 1,4-Bromofluorobenzene	29.99	95	457476	1.9328 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.50%	

Target Compounds					Qvalue
6) Halocarbon 134A	5.14	69	184377m	2.0125 ppbV S	
8) Chlorodifluoromethane	6.26	51	323664	1.9801 ppbV S	88
14) Acetaldehyde	8.37	44	67234m	1.7608 ppbV S	
19) Methanol	9.35	31	41815m	1.6840 ppbV S	
21) Neopentane	9.70	57	673301	2.1176 ppbV # S	1
22) Dichlorofluoromethane	10.95	67	473256	2.4331 ppbV # S	1
26) Vinyl bromide	11.22	106	243884	2.2928 ppbV S	82
28) Ethanol	11.58	45	50572m	1.8483 ppbV S	
29) Acetonitrile	11.52	41	102516m	1.9349 ppbV S	
30) Acrolein	11.72	56	44264	1.7909 ppbV S	90
34) Acetone	12.25	43	238545m	2.2317 ppbV S	
35) 2-Propanol	13.06	45	193390m	2.7494 ppbV S	
36) Acrylonitrile	12.94	52	71530m	1.9531 ppbV S	
38) Diethyl ether	13.28	74	53286m	2.0289 ppbV S	
45) Carbon Disulfide	13.82	76	673217	2.1198 ppbV S	98
52) 1-Propanol	15.35	59	17810	2.6851 ppbV # S	1
58) Vinyl acetate	15.92	43	322159	2.0505 ppbV S	96
59) cis-4-Methyl-2-pentene	15.73	69	304095	2.2576 ppbV # S	1
60) trans-4-Methyl-2-pentene	15.86	69	323528	2.1953 ppbV S	96
61) Butyraldehyde	16.05	72	23239	2.0634 ppbV S	93
62) 2-Butanone	16.33	43	273383	2.0307 ppbV S	99
70) 2-Ethyl-1-butene	17.12	69	151153	2.0588 ppbV S	97
73) cis-3-Hexene	17.30	55	167791	2.0029 ppbV S	91
75) 2-Methyl-2-pentene	17.47	41	197593	2.0300 ppbV S	96
76) cis-3-Methyl-2-pentene	17.60	69	206387	2.2185 ppbV S	94
83) Methylcyclopentene	19.31	67	372844	2.6121 ppbV # S	1
86) 1-Butanol	19.65	56	63236m	1.7957 ppbV S	
90) Cyclohexene	20.47	67	243122	2.3450 ppbV # S	1
95) 1,4-Dioxane	21.13	88	89906	2.4760 ppbV S	88
96) 1-Heptene	21.06	55	106471	2.2516 ppbV # S	1
99) trans-3-Heptene	21.46	41	185501	2.3923 ppbV # S	78
101) cis-3-Heptene	21.61	41	189361	2.3876 ppbV # S	14
102) trans-2-Heptene	21.75	55	174928	2.3248 ppbV # S	56
103) 2,4,4-Trimethyl-1-pentene	22.02	57	482891	2.3321 ppbV # S	1
105) Methylisobutylketone	22.56	43	350587	2.3714 ppbV S	93

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072912.D Vial: 1
Acq On : 29 Jul 2011 11:24 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:50 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

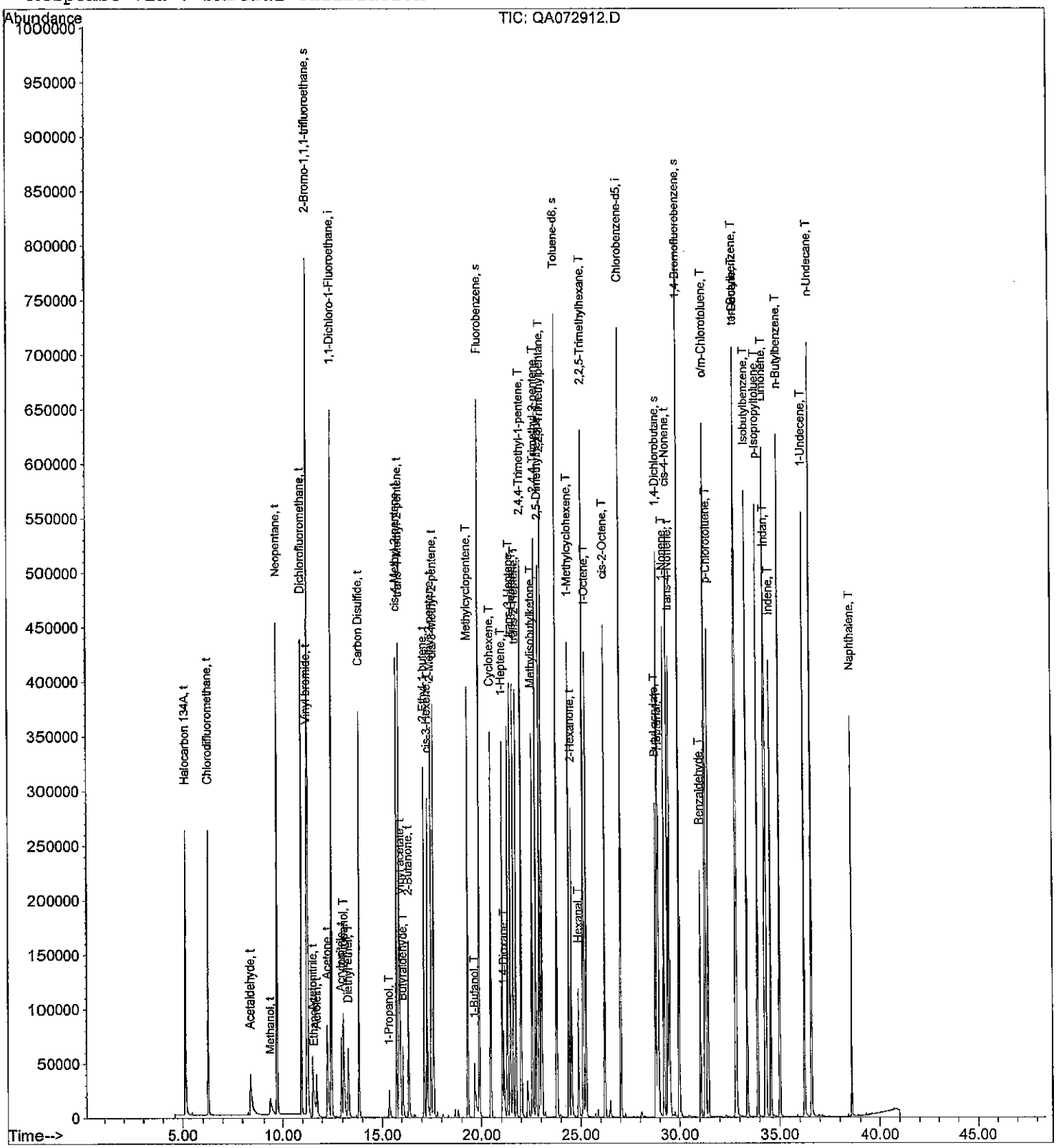
Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	22.74	55	307589	2.4204	ppbV	#	S	17
108) 2,5-Dimethylhexane	22.93	57	325037	2.2819	ppbV	#	S	1
109) 2,2,3-Trimethylpentane	23.04	57	619618	2.3099	ppbV	#	S	30
116) 2-Hexanone	24.54	43	297889	2.4032	ppbV	#	S	1
118) 1-Methylcyclohexene	24.40	81	251350	2.5388	ppbV	#	S	1
121) Hexanal	24.90	44	42060	2.0366	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	25.13	57	671485	2.3581	ppbV		S	95
124) 1-Octene	25.28	55	138568	2.2223	ppbV	#	S	1
127) cis-2-Octene	26.23	55	193282	2.3446	ppbV	#	S	100
132) Butyl acrylate	28.80	55	304207	2.3928	ppbV	#	S	1
133) Heptanal	28.94	70	77577	2.1793	ppbV	#	S	1
137) 1-Nonene	29.22	56	138874	2.0808	ppbV	#	S	1
138) cis-4-Nonene	29.40	55	307768	2.5237	ppbV	#	S	1
139) trans-4-Nonene	29.49	55	242515	2.1473	ppbV		S	94
143) Benzaldehyde	31.03	77	130103	2.3257	ppbV	#	S	42
145) o/m-Chlorotoluene	31.28	91	839414	5.1711	ppbV	#	S	1
146) p-Chlorotoluene	31.42	91	436395	2.6304	ppbV	#	S	33
154) tert-Butylbenzene	32.83	119	442239	2.5810	ppbV	#	S	1
155) 1-Decene	32.86	56	144435	2.3619	ppbV	#	S	84
160) Isobutylbenzene	33.39	91	537977	2.5546	ppbV	#	S	45
162) p-Isopropyltoluene	33.92	119	499344	2.6139	ppbV		S	97
164) Limonene	34.27	68	216484	2.2935	ppbV	#	S	100
165) Indan	34.33	117	396539	2.4627	ppbV	#	S	1
166) Indene	34.55	115	357641	2.4978	ppbV	#	S	20
169) n-Butylbenzene	35.00	91	572622	2.7211	ppbV	#	S	44
170) 1-Undecene	36.24	55	148254	2.4097	ppbV	#	S	56
171) n-Undecane	36.60	57	388006	2.3232	ppbV		S	92
173) Naphthalene	38.59	128	317028	2.2952	ppbV		S	98

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

Quantitation Report

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072912.D Vial: 1
Acq On : 29 Jul 2011 11:24 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:50 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072913.D Vial: 1
Acq On : 30 Jul 2011 12:21 am Operator: KDK
Sample : EXT BLEND 500,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:53 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

DAH 8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	739607	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	671574	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	332286	1.7474 ppbV	0.00
Spiked Amount 2.000			Recovery	= 87.50%	
65) Fluorobenzene	19.88	96	804686	1.7722 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.50%	
113) Toluene-d8	23.79	98	774019	1.8079 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	
115) 1,4-Dichlorobutane	28.90	90	100119	1.6619 ppbV	0.00
Spiked Amount 2.000			Recovery	= 83.00%	
141) 1,4-Bromofluorobenzene	29.99	95	505730	1.8822 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.00%	

Target Compounds					Qvalue
6) Halocarbon 134A	5.14	69	376725	4.0087 ppbV # S	59
8) Chlorodifluoromethane	6.26	51	652975	3.8943 ppbV S	88
14) Acetaldehyde	8.30	44	148858m	3.8006 ppbV S	
19) Methanol	9.20	31	63334m	2.4866 ppbV S	
21) Neopentane	9.69	57	1400108	4.2929 ppbV # S	1
22) Dichlorofluoromethane	10.95	67	1024299	5.1338 ppbV # S	1
26) Vinyl bromide	11.22	106	535027	4.9036 ppbV S	81
28) Ethanol	11.51	45	64143	2.2854 ppbV S	97
29) Acetonitrile	11.44	41	236673m	4.3549 ppbV S	
30) Acrolein	11.68	56	109595	4.3228 ppbV S	93
34) Acetone	12.07	43	545067m	4.9713 ppbV S	
35) 2-Propanol	12.98	45	226813	3.1436 ppbV # S	1
36) Acrylonitrile	12.92	52	175376	4.6684 ppbV S	93
38) Diethyl ether	13.13	74	136140m	5.0534 ppbV S	
45) Carbon Disulfide	13.82	76	1405643	4.3149 ppbV S	98
52) 1-Propanol	15.30	59	20199	2.9688 ppbV # S	1
58) Vinyl acetate	15.90	43	881435	5.4693 ppbV S	97
59) cis-4-Methyl-2-pentene	15.73	69	735818	5.3256 ppbV # S	1
60) trans-4-Methyl-2-pentene	15.86	69	801788	5.3038 ppbV S	95
61) Butyraldehyde	16.01	72	60099	5.2022 ppbV S	93
62) 2-Butanone	16.27	43	678086	4.9104 ppbV S	97
70) 2-Ethyl-1-butene	17.12	69	391578	5.1997 ppbV S	96
73) cis-3-Hexene	17.29	55	423217	4.9249 ppbV S	90
75) 2-Methyl-2-pentene	17.47	41	489451	4.9022 ppbV S	97
76) cis-3-Methyl-2-pentene	17.60	69	515037	5.3971 ppbV S	99
83) Methylcyclopentene	19.31	67	953753	5.8861 ppbV # S	1
86) 1-Butanol	19.62	56	65371m	1.6353 ppbV S	
90) Cyclohexene	20.47	67	602507	5.1193 ppbV # S	1
95) 1,4-Dioxane	21.10	88	136510	3.3118 ppbV S	86
96) 1-Heptene	21.05	55	268108	4.9945 ppbV # S	1
99) trans-3-Heptene	21.46	41	455969	5.1802 ppbV # S	80
101) cis-3-Heptene	21.60	41	468997	5.2093 ppbV # S	14
102) trans-2-Heptene	21.75	55	439948	5.1505 ppbV # S	59
103) 2,4,4-Trimethyl-1-pentene	22.02	57	1203739	5.1212 ppbV # S	1
105) Methylisobutylketone	22.53	43	858050	5.1126 ppbV S	94

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072913.D Vial: 1
Acq On : 30 Jul 2011 12:21 am Operator: KDK
Sample : EXT BLEND 500,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:53 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

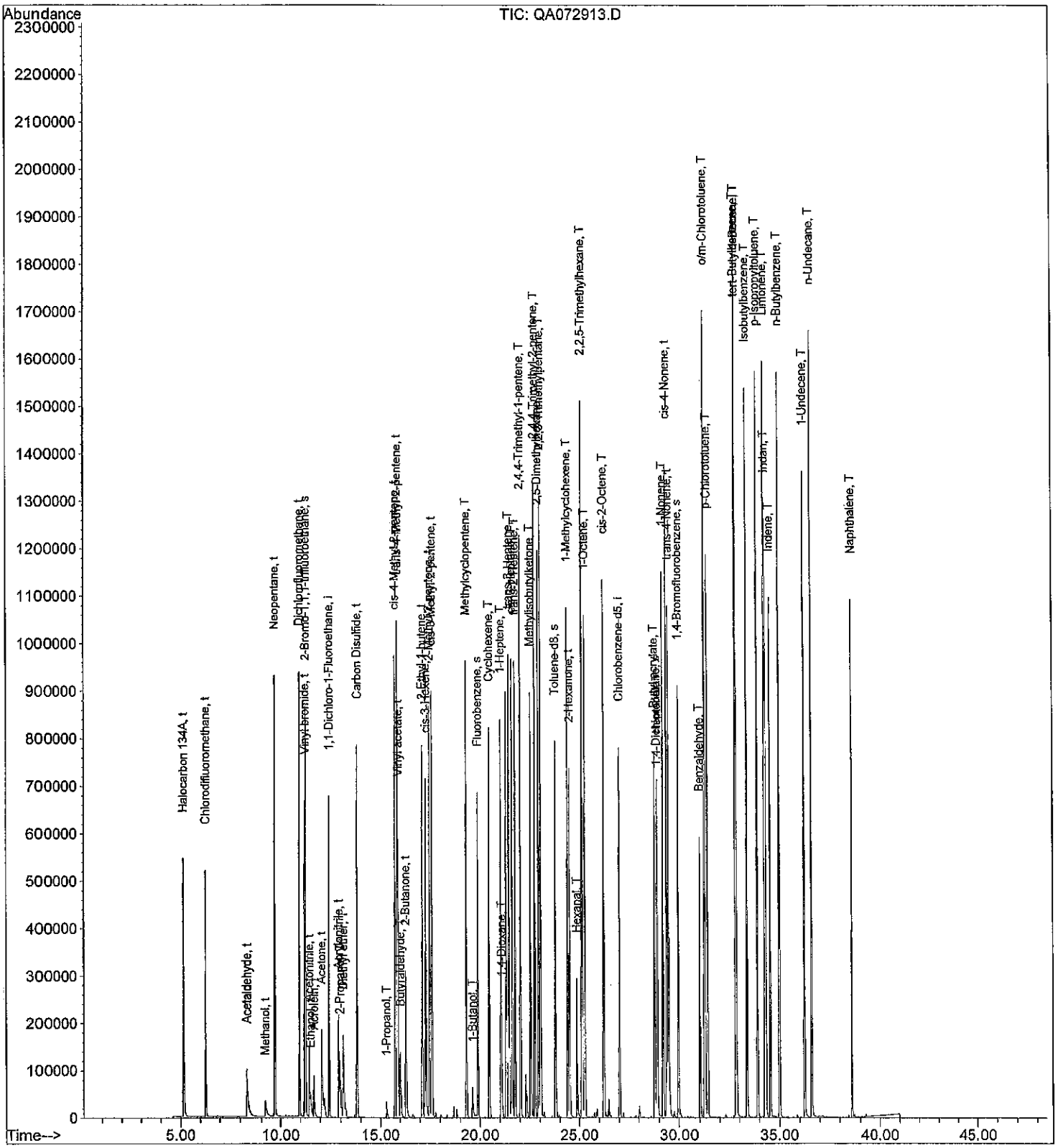
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
107) 2,4,4-Trimethyl-2-pentene	22.74	55	782868	5.4267	ppbV # S	13
108) 2,5-Dimethylhexane	22.93	57	798608	4.9388	ppbV # S	6
109) 2,2,3-Trimethylpentane	23.04	57	1489787	4.8925	ppbV # S	29
116) 2-Hexanone	24.51	43	724796	5.1508	ppbV # S	1
118) 1-Methylcyclohexene	24.40	81	677876	6.0317	ppbV # S	1
121) Hexanal	24.88	44	111387	4.7511	ppbV # S	1
123) 2,2,5-Trimethylhexane	25.13	57	1647805	5.0976	ppbV S	95
124) 1-Octene	25.28	55	352607	4.9816	ppbV # S	1
127) cis-2-Octene	26.23	55	501546	5.3594	ppbV # S	100
132) Butyl acrylate	28.79	55	857001	5.9380	ppbV # S	1
133) Heptanal	28.93	70	203655	5.0398	ppbV # S	1
137) 1-Nonene	29.22	56	373060	4.9240	ppbV # S	1
138) cis-4-Nonene	29.40	55	814787	5.8856	ppbV # S	1
139) trans-4-Nonene	29.49	55	641482	5.0034	ppbV S	94
143) Benzaldehyde	31.03	77	352232	5.5467	ppbV # S	39
145) o/m-Chlorotoluene	31.28	91	2298102	12.4712	ppbV # S	1
146) p-Chlorotoluene	31.42	91	1196386	6.3524	ppbV # S	32
154) tert-Butylbenzene	32.83	119	1339810	6.8882	ppbV # S	1
155) 1-Decene	32.86	56	357440	5.1490	ppbV S	88
160) Isobutylbenzene	33.39	91	1504400	6.2929	ppbV # S	44
162) p-Isopropyltoluene	33.92	119	1517651	6.9984	ppbV S	93
164) Limonene	34.28	68	585286	5.4624	ppbV # S	100
165) Indan	34.33	117	1126876	6.1649	ppbV # S	1
166) Indene	34.55	115	1011077	6.2204	ppbV # S	19
169) n-Butylbenzene	35.00	91	1498404	6.2724	ppbV # S	44
170) 1-Undecene	36.24	55	369113	5.2849	ppbV # S	63
171) n-Undecane	36.60	57	952227	5.0225	ppbV S	96
173) Naphthalene	38.59	128	998486	6.3678	ppbV S	99

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

Quantitation Report

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072913.D Vial: 1
Acq On : 30 Jul 2011 12:21 am Operator: KDK
Sample : EXT BLEND 500,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:53 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072914.D Vial: 1
Acq On : 30 Jul 2011 1:20 am Operator: KDK
Sample : EXT BLEND 750,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:56 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

DAH 8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.45	81	668430	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	752242	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.25	83	344936	2.0071 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 100.50%	
65) Fluorobenzene	19.88	96	886480	2.1603 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.00%	
113) Toluene-d8	23.79	98	856310	1.7856 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.50%	
115) 1,4-Dichlorobutane	28.90	90	109725	1.6260 ppbV	0.00
Spiked Amount 2.000			Recovery	= 81.50%	
141) 1,4-Bromofluorobenzene	29.99	95	544907	1.8105 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	

Target Compounds					Qvalue
6) Halocarbon 134A	5.13	69	581387	6.8452 ppbV # S	58
8) Chlorodifluoromethane	6.26	51	979180	6.4617 ppbV S	87
14) Acetaldehyde	8.27	44	225151m	6.3605 ppbV S	
19) Methanol	9.16	31	66772m	2.9007 ppbV S	
21) Neopentane	9.68	57	2137944	7.2532 ppbV # S	1
22) Dichlorofluoromethane	10.95	67	1604565	8.8984 ppbV # S	1
26) Vinyl bromide	11.22	106	878592	8.9099 ppbV S	81
28) Ethanol	11.48	45	55383m	2.1834 ppbV S	
29) Acetonitrile	11.43	41	381500	7.7673 ppbV S	98
30) Acrolein	11.66	56	196266	8.5658 ppbV S	90
34) Acetone	12.01	43	949992m	9.5871 ppbV S	
35) 2-Propanol	12.92	45	175599	2.6929 ppbV # S	1
36) Acrylonitrile	12.90	52	326753	9.6241 ppbV S	92
38) Diethyl ether	13.11	74	265425	10.9015 ppbV # S	1
45) Carbon Disulfide	13.81	76	2244383	7.6231 ppbV S	98
52) 1-Propanol	15.27	59	16550m	2.6915 ppbV S	
58) Vinyl acetate	15.89	43	1571047	10.7864 ppbV S	96
59) cis-4-Methyl-2-pentene	15.73	69	1277804	10.2331 ppbV # S	1
60) trans-4-Methyl-2-pentene	15.86	69	1428842	10.4583 ppbV S	90
61) Butyraldehyde	15.99	72	117041	11.2099 ppbV S	92
62) 2-Butanone	16.24	43	1199973	9.6149 ppbV S	94
70) 2-Ethyl-1-butene	17.12	69	724657	10.6472 ppbV S	95
73) cis-3-Hexene	17.29	55	776073	9.9927 ppbV S	88
75) 2-Methyl-2-pentene	17.47	41	850865	9.4295 ppbV S	89
76) cis-3-Methyl-2-pentene	17.60	69	918048	10.6447 ppbV S	95
83) Methylcyclopentene	19.31	67	1767151	9.7365 ppbV # S	1
86) 1-Butanol	19.59	56	36499	0.8151 ppbV S	89
90) Cyclohexene	20.47	67	1093869	8.2975 ppbV # S	1
95) 1,4-Dioxane	21.08	88	147761	3.2003 ppbV # S	81
96) 1-Heptene	21.05	55	485485	8.0741 ppbV # S	1
99) trans-3-Heptene	21.46	41	797686	8.0905 ppbV # S	80
101) cis-3-Heptene	21.60	41	818384	8.1152 ppbV # S	15
102) trans-2-Heptene	21.75	55	797471	8.3349 ppbV # S	62
103) 2,4,4-Trimethyl-1-pentene	22.02	57	2000027	7.5964 ppbV # S	1
105) Methylisobutylketone	22.52	43	1433679	7.6264 ppbV S	94

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072914.D Vial: 1
Acq On : 30 Jul 2011 1:20 am Operator: KDK
Sample : EXT BLEND 750,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:56 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

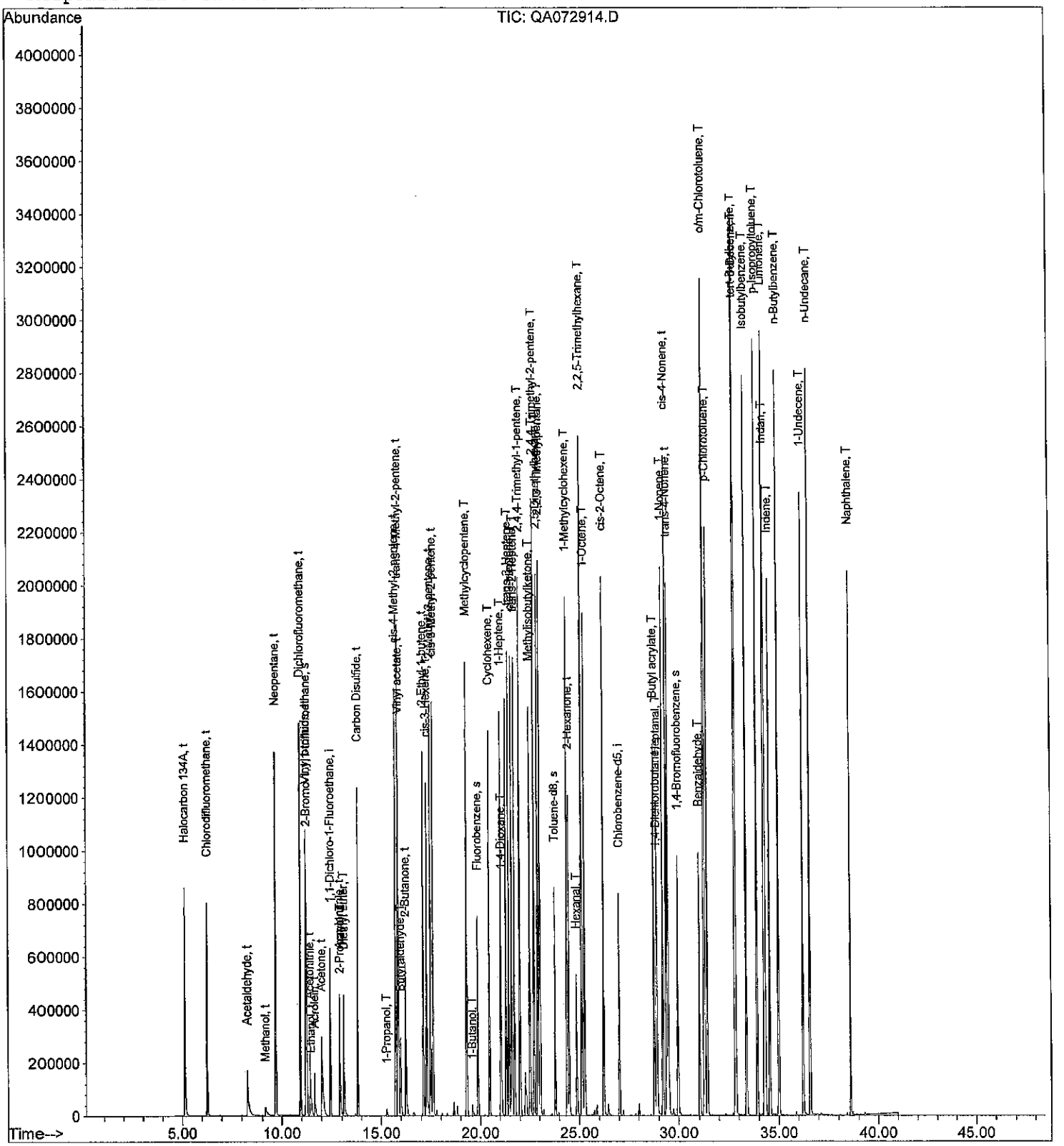
	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
107)	2,4,4-Trimethyl-2-pentene	22.74	55	1353850	8.3782	ppbV	# S	10
108)	2,5-Dimethylhexane	22.93	57	1406294	7.7643	ppbV	# S	12
109)	2,2,3-Trimethylpentane	23.04	57	2446737	7.1735	ppbV	# S	29
116)	2-Hexanone	24.50	43	1141403	7.2416	ppbV	# S	1
118)	1-Methylcyclohexene	24.40	81	1286154	10.2168	ppbV	# S	1
121)	Hexanal	24.87	44	202155	7.6981	ppbV	# S	1
123)	2,2,5-Trimethylhexane	25.13	57	2881454	7.9581	ppbV	S	95
124)	1-Octene	25.28	55	656947	8.2859	ppbV	# S	1
127)	cis-2-Octene	26.23	55	915464	8.7334	ppbV	# S	100
132)	Butyl acrylate	28.78	55	1525353	9.4355	ppbV	# S	1
133)	Heptanal	28.93	70	381911	8.4375	ppbV	# S	1
137)	1-Nonene	29.22	56	688749	8.1160	ppbV	# S	1
138)	cis-4-Nonene	29.40	55	1491426	9.6180	ppbV	# S	1
139)	trans-4-Nonene	29.49	55	1195523	8.3248	ppbV	S	93
143)	Benzaldehyde	31.03	77	598420	8.4130	ppbV	# S	36
145)	o/m-Chlorotoluene	31.28	91	4312021	20.8909	ppbV	# S	1
146)	p-Chlorotoluene	31.43	91	2252782	10.6788	ppbV	# S	31
154)	tert-Butylbenzene	32.83	119	2624093	12.0442	ppbV	# S	1
155)	1-Decene	32.86	56	621250	7.9896	ppbV	S	89
160)	Isobutylbenzene	33.39	91	2822039	10.5387	ppbV	# S	44
162)	p-Isopropyltoluene	33.92	119	2954339	12.1625	ppbV	S	91
164)	Limonene	34.28	68	1066119	8.8829	ppbV	# S	100
165)	Indan	34.33	117	2152050	10.5110	ppbV	# S	1
166)	Indene	34.55	115	1869430	10.2679	ppbV	# S	18
169)	n-Butylbenzene	35.00	91	2710440	10.1293	ppbV	# S	43
170)	1-Undecene	36.24	55	645836	8.2554	ppbV	# S	64
171)	n-Undecane	36.60	57	1675961	7.8919	ppbV	S	95
173)	Naphthalene	38.59	128	1950536	11.1056	ppbV	S	99

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

Quantitation Report

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072914.D Vial: 1
Acq On : 30 Jul 2011 1:20 am Operator: KDK
Sample : EXT BLEND 750,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:56 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072915.D Vial: 1
Acq On : 30 Jul 2011 2:21 am Operator: KDK
Sample : EXT BLEND 1000,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:58 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

MM 8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.45	81	707529	2.0000 ppbV	-0.01
82) Chlorobenzene-d5	27.03	117	819115	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.25	83	360215	1.9802 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 99.00%	
65) Fluorobenzene	19.88	96	976369	2.2478 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.50%	
113) Toluene-d8	23.79	98	932985	1.7867 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.50%	
115) 1,4-Dichlorobutane	28.90	90	116838	1.5901 ppbV	0.00
Spiked Amount 2.000			Recovery	= 79.50%	
141) 1,4-Bromofluorobenzene	29.99	95	583171	1.7795 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.00%	

Target Compounds					Qvalue
6) Halocarbon 134A	5.13	69	831421	9.2481 ppbV # S	58
8) Chlorodifluoromethane	6.26	51	1346051	8.3918 ppbV S	86
14) Acetaldehyde	8.25	44	315279m	8.4145 ppbV S	
19) Methanol	9.14	31	80078m	3.2866 ppbV S	
21) Neopentane	9.68	57	2891783	9.2686 ppbV # S	1
22) Dichlorofluoromethane	10.94	67	2216215	11.6112 ppbV # S	1
26) Vinyl bromide	11.21	106	1255270	12.0263 ppbV S	80
28) Ethanol	11.44	45	59505	2.2162 ppbV S	95
29) Acetonitrile	11.42	41	523284m	10.0652 ppbV S	
30) Acrolein	11.65	56	281003	11.5863 ppbV S	91
34) Acetone	11.98	43	1297317m	12.3687 ppbV S	
35) 2-Propanol	12.88	45	175256	2.5391 ppbV # S	1
36) Acrylonitrile	12.89	52	483725	13.4602 ppbV S	93
38) Diethyl ether	13.10	74	405412	15.7308 ppbV # S	1
45) Carbon Disulfide	13.81	76	3148974	10.1046 ppbV S	99
52) 1-Propanol	15.26	59	17916	2.7527 ppbV # S	1
58) Vinyl acetate	15.89	43	2164371	14.0388 ppbV S	94
59) cis-4-Methyl-2-pentene	15.72	69	1867782	14.1312 ppbV # S	1
60) trans-4-Methyl-2-pentene	15.85	69	2077216	14.3638 ppbV S	87
61) Butyraldehyde	15.98	72	179848	16.2735 ppbV S	85
62) 2-Butanone	16.22	43	1674658	12.6768 ppbV S	92
70) 2-Ethyl-1-butene	17.12	69	1067135	14.8127 ppbV S	93
73) cis-3-Hexene	17.29	55	1111621	13.5223 ppbV S	87
75) 2-Methyl-2-pentene	17.46	41	1171698	12.2675 ppbV S	85
76) cis-3-Methyl-2-pentene	17.60	69	1344674	14.7297 ppbV S	90
83) Methylcyclopentene	19.31	67	2545111	12.8780 ppbV # S	1
86) 1-Butanol	19.59	56	35830	0.7348 ppbV S	89
90) Cyclohexene	20.47	67	1581879	11.0197 ppbV # S	1
95) 1,4-Dioxane	21.08	88	187608	3.7316 ppbV # S	79
96) 1-Heptene	21.05	55	692389	10.5751 ppbV # S	1
99) trans-3-Heptene	21.46	41	1100292	10.2486 ppbV # S	81
101) cis-3-Heptene	21.60	41	1130098	10.2914 ppbV # S	16
102) trans-2-Heptene	21.75	55	1131818	10.8636 ppbV # S	64
103) 2,4,4-Trimethyl-1-pentene	22.02	57	2873740	10.0238 ppbV # S	1
105) Methylisobutylketone	22.51	43	1948113	9.5169 ppbV S	94

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072915.D Vial: 1
Acq On : 30 Jul 2011 2:21 am Operator: KDK
Sample : EXT BLEND 1000,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:58 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

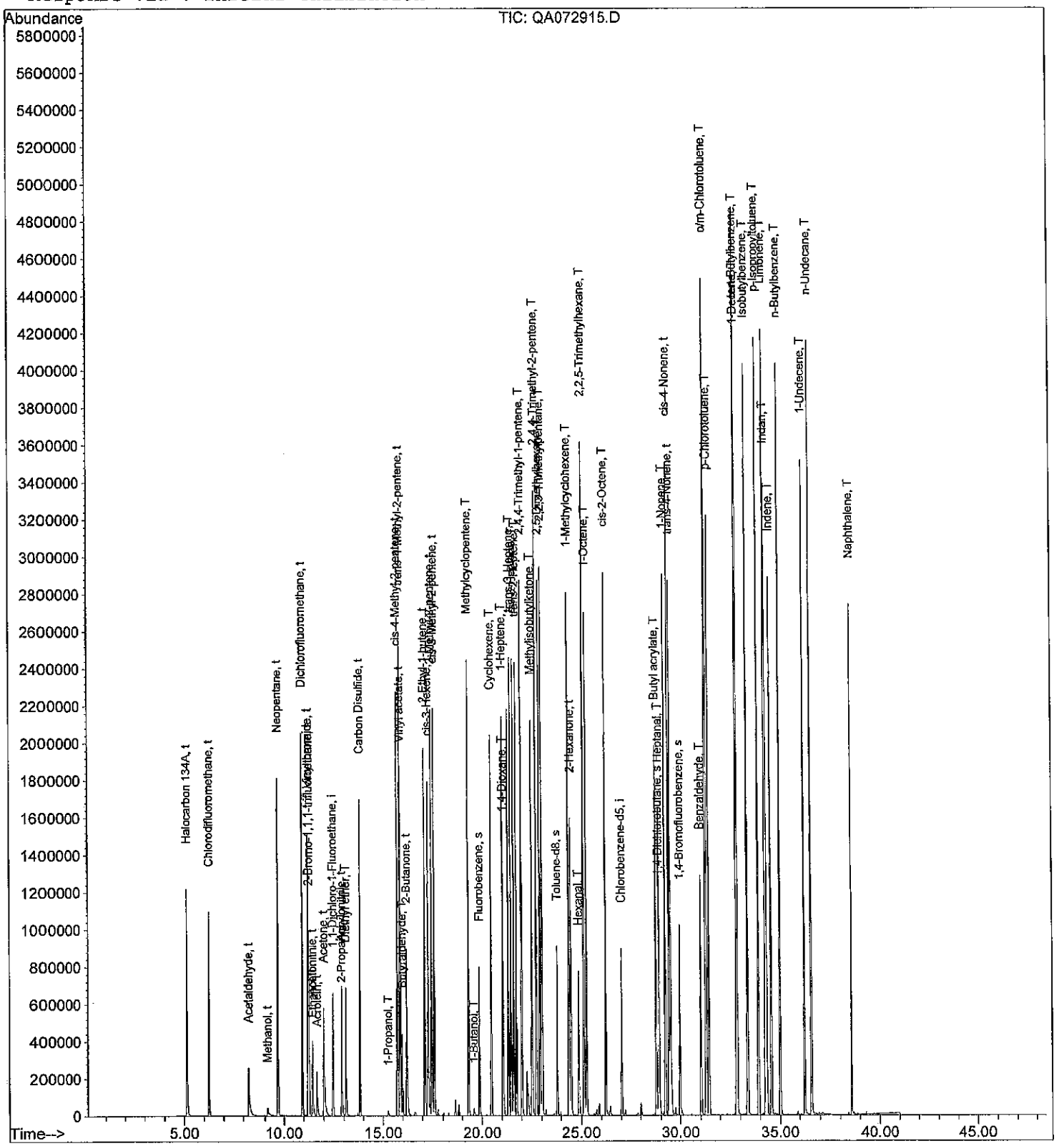
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
107) 2,4,4-Trimethyl-2-pentene	22.74	55	1947259	11.0667 ppbV # S	7
108) 2,5-Dimethylhexane	22.93	57	2035575	10.3211 ppbV # S	15
109) 2,2,3-Trimethylpentane	23.04	57	3529943	9.5043 ppbV # S	29
116) 2-Hexanone	24.50	43	1486504	8.6612 ppbV # S	1
118) 1-Methylcyclohexene	24.40	81	1902289	13.8776 ppbV # S	1
121) Hexanal	24.87	44	290978	10.1759 ppbV # S	1
123) 2,2,5-Trimethylhexane	25.13	57	4123219	10.4579 ppbV S	95
124) 1-Octene	25.28	55	955740	11.0704 ppbV # S	1
127) cis-2-Octene	26.23	55	1325610	11.6137 ppbV # S	100
132) Butyl acrylate	28.78	55	2147238	12.1980 ppbV # S	1
133) Heptanal	28.93	70	558436	11.3302 ppbV # S	1
137) 1-Nonene	29.22	56	999417	10.8153 ppbV # S	1
138) cis-4-Nonene	29.40	55	2139412	12.6704 ppbV # S	1
139) trans-4-Nonene	29.49	55	1740061	11.1274 ppbV S	92
143) Benzaldehyde	31.03	77	778333	10.0490 ppbV # S	35
145) o/m-Chlorotoluene	31.28	91	6210689	27.6330 ppbV # S	1
146) p-Chlorotoluene	31.43	91	3287355	14.3107 ppbV # S	31
154) tert-Butylbenzene	32.83	119	3867662	16.3027 ppbV # S	1
155) 1-Decene	32.87	56	887614	10.4833 ppbV S	89
160) Isobutylbenzene	33.39	91	4084459	14.0079 ppbV # S	44
162) p-Isopropyltoluene	33.92	119	4287932	16.2115 ppbV S	91
164) Limonene	34.28	68	1571245	12.0228 ppbV # S	100
165) Indan	34.33	117	3102784	13.9173 ppbV # S	1
166) Indene	34.55	115	2694441	13.5911 ppbV # S	17
169) n-Butylbenzene	35.00	91	3889971	13.3505 ppbV # S	43
170) 1-Undecene	36.24	55	967308	11.3552 ppbV # S	65
171) n-Undecane	36.60	57	2524439	10.9168 ppbV S	95
173) Naphthalene	38.59	128	2577378	13.4765 ppbV S	99

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

Quantitation Report

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072915.D Vial: 1
Acq On : 30 Jul 2011 2:21 am Operator: KDK
Sample : EXT BLEND 1000,,,,0.01057;EXT Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 11:58 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072918.D Vial: 1
Acq On : 30 Jul 2011 5:10 am Operator: KDK
Sample : 102 BLEND 20,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 12:35 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	750964	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	574524	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	331881	1.7189 ppbV	0.00
Spiked Amount 2.000			Recovery	= 86.00%	
65) Fluorobenzene	19.88	96	772276	1.6751 ppbV	0.00
Spiked Amount 2.000			Recovery	= 84.00%	
113) Toluene-d8	23.79	98	689409	1.8823 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.00%	
115) 1,4-Dichlorobutane	28.90	90	89302	1.7327 ppbV	0.00
Spiked Amount 2.000			Recovery	= 86.50%	
141) 1,4-Bromofluorobenzene	29.99	95	449605	1.9560 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	

Target Compounds						Qvalue
3) Ethylene	4.13	26	2129	0.1884 ppbV	S	95
4) Acetylene	4.23	26	4085	0.0960 ppbV	S	94
5) Ethane	4.33	26	2241	0.1806 ppbV	S	97
7) Propylene	5.95	41	9387	0.1201 ppbV	S	89
9) Propane	6.10	43	5144	0.1439 ppbV	S	88
10) Dichlorodifluoromethane	6.59	85	74432	0.2252 ppbV	S	97
11) Chloromethane	7.44	50	16307	0.1613 ppbV	S	96
12) Isobutane	8.10	43	28347	0.1379 ppbV	S	86
13) Halocarbon 114	8.30	85	71605	0.2067 ppbV	S	92
15) Vinyl chloride	8.54	62	18533	0.1542 ppbV	S	100
16) 1-Butene/Isobutene	8.99	41	20106	0.1405 ppbV	S	84
17) 1,3-Butadiene	9.10	39	12926	0.1620 ppbV	S	84
18) n-Butane	9.26	43	29570	0.1615 ppbV	S	91
20) trans-2-Butene	9.64	41	18149	0.1428 ppbV	S	82
23) Bromomethane	9.82	94	22205	0.1993 ppbV	S	94
24) cis-2-Butene	10.14	41	19600	0.1580 ppbV	S	93
25) Chloroethane	10.43	64	9011	0.1510 ppbV	S	93
27) 3-Methyl-1-butene	11.25	55	39922	0.1620 ppbV	S	90
31) Isopentane	11.90	41	24299	0.2027 ppbV	S	86
32) Trichlorofluoromethane	12.17	101	88299	0.2601 ppbV	S	99
33) 1-Pentene	12.48	42	14434	0.1301 ppbV #	S	1
37) n-Pentane	12.92	43	26398	0.1397 ppbV	S	93
39) Isoprene	13.09	67	10989	0.1138 ppbV	S	85
40) trans-2-Pentene	13.25	55	16832	0.1247 ppbV	S	95
41) 1,1-Dichloroethene	13.35	61	28911	0.1755 ppbV	S	95
42) cis-2-Pentene	13.55	55	15291	0.1128 ppbV	S	96
43) Methylene chloride	13.68	49	13677	0.1511 ppbV	S	97
44) 2-Methyl-2-butene	13.74	55	15429	0.1102 ppbV	S	96
46) 3-Chloropropene	13.86	41	6378	0.0861 ppbV	S	85
47) Halocarbon 113	14.16	151	33657	0.2255 ppbV	S	97
48) Neohexane	14.32	43	22557	0.1395 ppbV	S	92
49) Cyclopentene	15.05	67	21193	0.1092 ppbV	S	92
50) trans-1,2-Dichloroethene	15.20	61	17523	0.1533 ppbV	S	91
51) 4-Methyl-1-pentene	15.23	43	11585	0.0909 ppbV	S	87
53) 1,1-Dichloroethane	15.51	63	19941	0.1542 ppbV	S	96

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072918.D Vial: 1
Acq On : 30 Jul 2011 5:10 am Operator: KDK
Sample : 102 BLEND 20,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 12:35 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
54)	Cyclopentane	15.49	42	25240	0.1269 ppbV		S	96
55)	2,3-Dimethylbutane	15.59	43	30590	0.1233 ppbV		S	93
56)	Methyl tert-butyl ether	16.14	73	25729m	0.1038 ppbV		S	
57)	Isohexane	15.80	42	12607	0.1155 ppbV	#	S	81
63)	Chloroprene	16.39	53	13210	0.1302 ppbV		S	93
64)	3-Methylpentane	16.40	57	21652	0.1106 ppbV		S	94
66)	2-Methyl-1-pentene	16.63	56	11640	0.1108 ppbV		S	90
67)	1-Hexene	16.67	41	6637	0.1035 ppbV		S	91
68)	cis-1,2-Dichloroethene	16.81	61	13484	0.1547 ppbV		S	95
69)	Bromochloromethane	17.04	130	8733	0.2129 ppbV		S	95
71)	n-Hexane	17.16	57	13387	0.1089 ppbV		S	95
72)	Chloroform	17.28	83	24724	0.1874 ppbV		S	100
74)	trans-2-Hexene	17.37	55	11893	0.1156 ppbV		S	98
77)	cis-2-Hexene	17.77	55	8974	0.0999 ppbV		S	96
78)	Methylcyclopentane	18.31	56	17869	0.0959 ppbV	#	S	1
79)	1,2-Dichloroethane	18.34	62	17106	0.2133 ppbV	#	S	6
80)	2,4-Dimethylpentane	18.47	43	18813	0.0981 ppbV	#	S	1
81)	1,1,1-Trichloroethane	18.69	97	31033	0.1684 ppbV		S	97
84)	Benzene	19.37	78	24682	0.1605 ppbV		S	88
85)	Carbon tetrachloride	19.59	117	34180	0.2359 ppbV	#	S	6
87)	Cyclohexane	19.78	56	21958	0.1471 ppbV	#	S	100
88)	Isoheptane	20.12	43	17609	0.1284 ppbV	#	S	38
89)	2,3-Dimethylpentane	20.21	56	19224	0.1361 ppbV	#	S	66
91)	3-Methylhexane	20.51	43	13144	0.1194 ppbV	#	S	71
92)	1,2-Dichloropropane	20.64	63	9491	0.1593 ppbV	#	S	1
93)	Bromodichloromethane	20.96	83	23924	0.1987 ppbV	#	S	1
94)	Trichloroethene	21.02	130	12131	0.1808 ppbV	#	S	1
97)	2,2,4-Trimethylpentane	21.09	57	38619	0.1084 ppbV	#	S	1
98)	2-Chloropentane	21.33	70	11272	0.1295 ppbV		S	92
100)	n-Heptane	21.55	71	8938	0.1415 ppbV	#	S	1
104)	cis-1,3-Dichloropropene	22.41	75	11391	0.1331 ppbV	#	S	1
106)	Methylcyclohexane	22.50	83	15428	0.1222 ppbV		S	91
110)	trans-1,3-Dichloropropene	23.27	75	11866	0.1536 ppbV	#	S	1
111)	1,1,2-Trichloroethane	23.53	97	11594	0.1923 ppbV	#	S	1
112)	2,3,4-Trimethylpentane	23.73	43	20257	0.1169 ppbV		S	75
114)	Toluene	23.96	91	28096	0.1634 ppbV	#	S	1
117)	2-Methylheptane	24.36	43	14390	0.1237 ppbV	#	S	12
119)	Dibromochloromethane	24.66	129	21216	0.2067 ppbV	#	S	68
120)	3-Methylheptane	24.69	85	10054	0.1235 ppbV		S	89
122)	1,2-Dibromoethane	25.06	107	18250	0.1958 ppbV	#	S	1
125)	n-Octane	25.75	43	13938	0.1142 ppbV	#	S	67
126)	Tetrachloroethene	25.89	164	12470	0.2551 ppbV		S	89
128)	Chlorobenzene	27.10	112	24915	0.2038 ppbV	#	S	1
129)	Ethylbenzene	27.84	91	26112	0.1542 ppbV		S	96
130)	m/p-Xylene	28.21	91	48824m	0.3026 ppbV		S	
131)	Bromoform	28.25	173	17022	0.2356 ppbV	#	S	100
134)	Styrene	28.88	104	16288	0.1711 ppbV	#	S	11
135)	1,1,2,2-Tetrachloroethane	29.08	83	25651	0.2016 ppbV		S	98
136)	o-Xylene	29.08	91	23418	0.1656 ppbV	#	S	100
140)	n-Nonane	29.65	43	15668	0.1307 ppbV		S	91
142)	Isopropylbenzene	30.29	105	30489	0.1537 ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072918.D Vial: 1
Acq On : 30 Jul 2011 5:10 am Operator: KDK
Sample : 102 BLEND 20,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 12:35 19111 Quant Results File: QA110705.RES

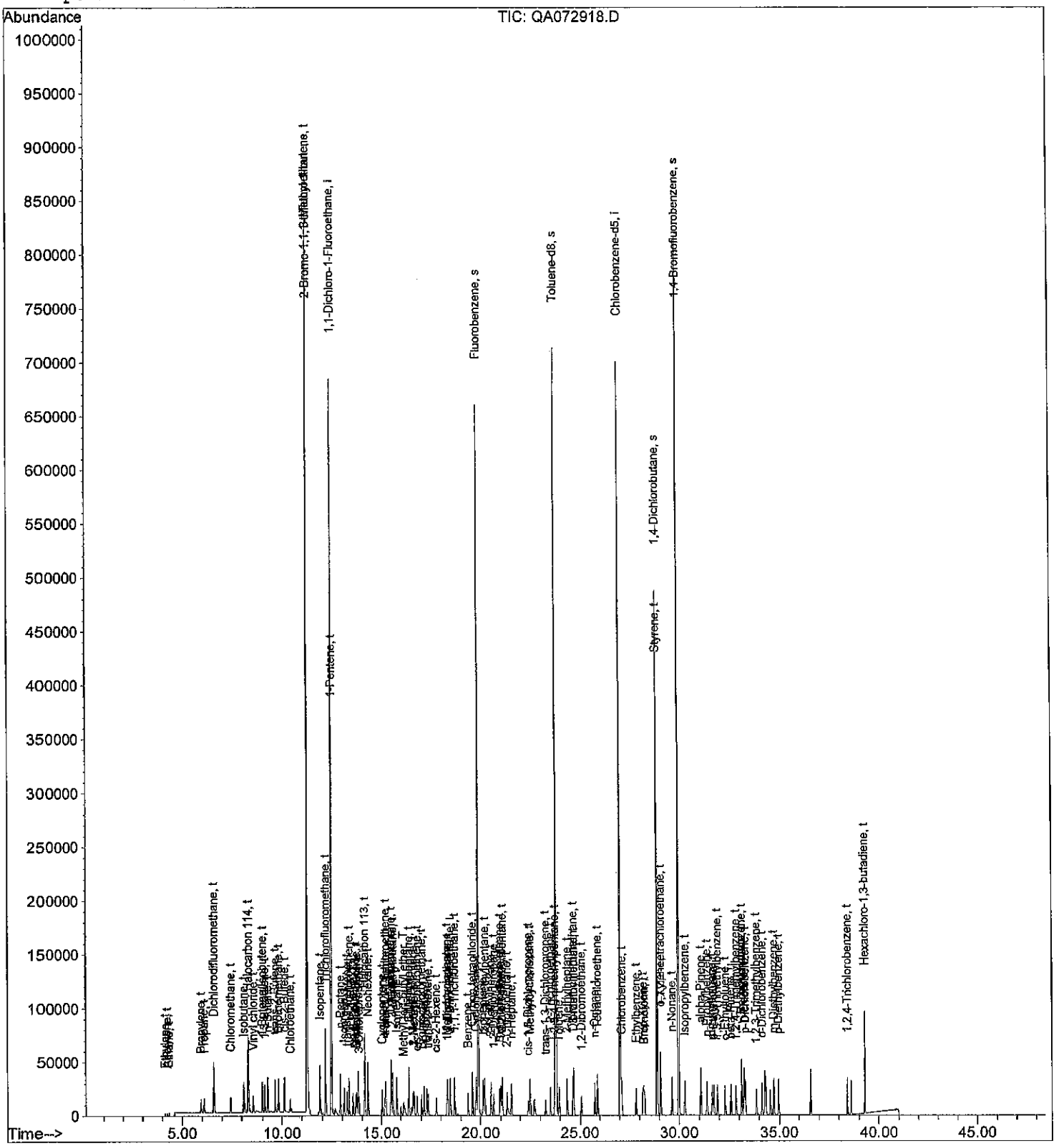
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
144)	alpha-Pinene	31.09	93	23311	0.1500 ppbV	#	S	63
147)	n-Propylbenzene	31.39	91	37620	0.1347 ppbV	#	S	36
148)	m-Ethyltoluene	31.65	105	25400	0.1488 ppbV	#	S	1
149)	p-Ethyltoluene	31.72	105	27383	0.1380 ppbV	#	S	1
150)	1,3,5-Trimethylbenzene	31.92	105	24963	0.1464 ppbV	#	S	1
151)	o-Ethyltoluene	32.32	105	26312	0.1520 ppbV		S	94
152)	beta-Pinene	32.60	93	16276	0.0844 ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.85	105	23864	0.1424 ppbV	#	S	1
156)	Benzyl chloride	33.14	91	22274	0.1620 ppbV		S	76
157)	m-Dichlorobenzene	33.14	146	22321	0.1986 ppbV	#	S	41
158)	n-Decane	33.26	57	19342	0.1313 ppbV		S	90
159)	p-Dichlorobenzene	33.31	146	21909	0.1994 ppbV		S	92
161)	1,2,3-Trimethylbenzene	33.87	105	22413	0.1321 ppbV	#	S	1
163)	o-Dichlorobenzene	34.14	146	19608	0.1996 ppbV		S	98
167)	m-Diethylbenzene	34.72	105	18074	0.1206 ppbV	#	S	1
168)	p-Diethylbenzene	34.96	119	16756	0.1172 ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	38.41	180	11673	0.1957 ppbV		S	97
174)	Hexachloro-1,3-butadiene	39.29	225	17421	0.2361 ppbV		S	96

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072918.D Vial: 1
Acq On : 30 Jul 2011 5:10 am Operator: KDK
Sample : 102 BLEND 20,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 12:35 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072919.D Vial: 1
Acq On : 30 Jul 2011 6:06 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:47 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	729275	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	554866	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	318933	1.7010 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.00%	
65) Fluorobenzene	19.88	96	740928	1.6549 ppbV	0.00
Spiked Amount 2.000			Recovery	= 82.50%	
113) Toluene-d8	23.79	98	669943	1.8939 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	
115) 1,4-Dichlorobutane	28.90	90	88431	1.7766 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.00%	
141) 1,4-Bromofluorobenzene	29.99	95	443310	1.9969 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	

Target Compounds						Qvalue
3) Ethylene	4.13	26	4276	0.3896 ppbV	S	94
4) Acetylene	4.23	26	8351	0.2021 ppbV	S	95
5) Ethane	4.33	26	4622	0.3837 ppbV	S	100
7) Propylene	5.95	41	19459	0.2563 ppbV	S	90
9) Propane	6.10	43	10357	0.2984 ppbV	S	83
10) Dichlorodifluoromethane	6.59	85	151097	0.4708 ppbV	S	98
11) Chloromethane	7.44	50	33138	0.3375 ppbV	S	95
12) Isobutane	8.10	43	59582	0.2984 ppbV	S	90
13) Halocarbon 114	8.29	85	142501	0.4236 ppbV	S	91
15) Vinyl chloride	8.54	62	39071	0.3347 ppbV	S	100
16) 1-Butene/Isobutene	8.99	41	43557	0.3133 ppbV	S	84
17) 1,3-Butadiene	9.10	39	29214	0.3769 ppbV #	S	76
18) n-Butane	9.26	43	61192	0.3441 ppbV	S	91
20) trans-2-Butene	9.64	41	37318	0.3024 ppbV	S	84
23) Bromomethane	9.83	94	44494	0.4113 ppbV	S	91
24) cis-2-Butene	10.13	41	40917	0.3397 ppbV	S	88
25) Chloroethane	10.43	64	17912	0.3091 ppbV	S	93
27) 3-Methyl-1-butene	11.25	55	84110	0.3515 ppbV	S	90
31) Isopentane	11.89	41	47351	0.4067 ppbV	S	82
32) Trichlorofluoromethane	12.17	101	179125	0.5433 ppbV	S	99
33) 1-Pentene	12.48	42	26908	0.2497 ppbV #	S	1
37) n-Pentane	12.92	43	52366	0.2854 ppbV	S	92
39) Isoprene	13.09	67	22860	0.2437 ppbV	S	92
40) trans-2-Pentene	13.25	55	32426	0.2475 ppbV	S	96
41) 1,1-Dichloroethene	13.35	61	54893	0.3431 ppbV	S	95
42) cis-2-Pentene	13.55	55	31043	0.2358 ppbV	S	95
43) Methylene chloride	13.68	49	25344	0.2884 ppbV	S	96
44) 2-Methyl-2-butene	13.74	55	33349	0.2453 ppbV	S	98
46) 3-Chloropropene	13.86	41	13285	0.1847 ppbV #	S	73
47) Halocarbon 113	14.15	151	70839	0.4886 ppbV	S	91
48) Neohexane	14.32	43	52076	0.3317 ppbV	S	93
49) Cyclopentene	15.04	67	42894	0.2275 ppbV	S	94
50) trans-1,2-Dichloroethene	15.20	61	33660	0.3032 ppbV	S	98
51) 4-Methyl-1-pentene	15.23	43	28078	0.2268 ppbV	S	89
53) 1,1-Dichloroethane	15.50	63	40126	0.3195 ppbV	S	98

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072919.D Vial: 1
Acq On : 30 Jul 2011 6:06 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:47 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	15.49	42	52780	0.2733	ppbV		S	96
55)	2,3-Dimethylbutane	15.60	43	72628	0.3014	ppbV		S	91
56)	Methyl tert-butyl ether	16.07	73	70711m	0.2939	ppbV		S	
57)	Isohexane	15.79	42	27417	0.2586	ppbV	#	S	73
63)	Chloroprene	16.39	53	27935	0.2835	ppbV		S	95
64)	3-Methylpentane	16.40	57	50650	0.2665	ppbV		S	94
66)	2-Methyl-1-pentene	16.63	56	25726	0.2521	ppbV		S	95
67)	1-Hexene	16.67	41	17682	0.2840	ppbV		S	89
68)	cis-1,2-Dichloroethene	16.81	61	25881	0.3058	ppbV		S	98
69)	Bromochloromethane	17.04	130	16820	0.4222	ppbV		S	91
71)	n-Hexane	17.16	57	28270	0.2369	ppbV		S	96
72)	Chloroform	17.28	83	47987	0.3745	ppbV		S	97
74)	trans-2-Hexene	17.37	55	26244	0.2627	ppbV		S	98
77)	cis-2-Hexene	17.78	55	20198	0.2315	ppbV		S	96
78)	Methylcyclopentane	18.31	56	41504	0.2293	ppbV	#	S	1
79)	1,2-Dichloroethane	18.34	62	33804	0.4341	ppbV	#	S	6
80)	2,4-Dimethylpentane	18.48	43	43562	0.2340	ppbV	#	S	1
81)	1,1,1-Trichloroethane	18.69	97	66381	0.3709	ppbV		S	96
84)	Benzene	19.38	78	49297	0.3320	ppbV		S	88
85)	Carbon tetrachloride	19.59	117	70942	0.5069	ppbV	#	S	1
87)	Cyclohexane	19.77	56	56173	0.3896	ppbV	#	S	100
88)	Isoheptane	20.13	43	38402	0.2900	ppbV	#	S	38
89)	2,3-Dimethylpentane	20.21	56	41530	0.3045	ppbV	#	S	72
91)	3-Methylhexane	20.51	43	28823	0.2711	ppbV	#	S	77
92)	1,2-Dichloropropane	20.65	63	19384	0.3368	ppbV	#	S	1
93)	Bromodichloromethane	20.96	83	46476	0.3997	ppbV	#	S	1
94)	Trichloroethene	21.02	130	23282	0.3593	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	21.09	57	92734	0.2695	ppbV	#	S	1
98)	2-Chloropentane	21.33	70	26639	0.3170	ppbV		S	93
100)	n-Heptane	21.55	71	18622	0.3053	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	22.41	75	23221	0.2810	ppbV	#	S	1
106)	Methylcyclohexane	22.50	83	35238	0.2889	ppbV		S	92
110)	trans-1,3-Dichloropropene	23.27	75	25287	0.3390	ppbV	#	S	1
111)	1,1,2-Trichloroethane	23.52	97	22720	0.3903	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	23.73	43	48282	0.2886	ppbV		S	70
114)	Toluene	23.96	91	57310	0.3451	ppbV	#	S	1
117)	2-Methylheptane	24.36	43	32701	0.2909	ppbV	#	S	13
119)	Dibromochloromethane	24.66	129	42605	0.4297	ppbV	#	S	65
120)	3-Methylheptane	24.69	85	22679	0.2884	ppbV		S	94
122)	1,2-Dibromoethane	25.06	107	35758	0.3972	ppbV	#	S	1
125)	n-Octane	25.75	43	32947	0.2796	ppbV	#	S	63
126)	Tetrachloroethene	25.89	164	25123	0.5321	ppbV		S	98
128)	Chlorobenzene	27.11	112	48520	0.4109	ppbV	#	S	1
129)	Ethylbenzene	27.84	91	60016	0.3671	ppbV		S	95
130)	m/p-Xylene	28.20	91	112251m	0.7203	ppbV		S	
131)	Bromoform	28.25	173	33938	0.4864	ppbV	#	S	100
134)	Styrene	28.88	104	35126	0.3820	ppbV	#	S	1
135)	1,1,2,2-Tetrachloroethane	29.08	83	52634	0.4282	ppbV		S	96
136)	o-Xylene	29.08	91	52741	0.3861	ppbV	#	S	100
140)	n-Nonane	29.64	43	35615	0.3075	ppbV		S	88
142)	Isopropylbenzene	30.29	105	68941	0.3599	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072919.D Vial: 1
Acq On : 30 Jul 2011 6:06 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:47 19111 Quant Results File: QA110705.RES

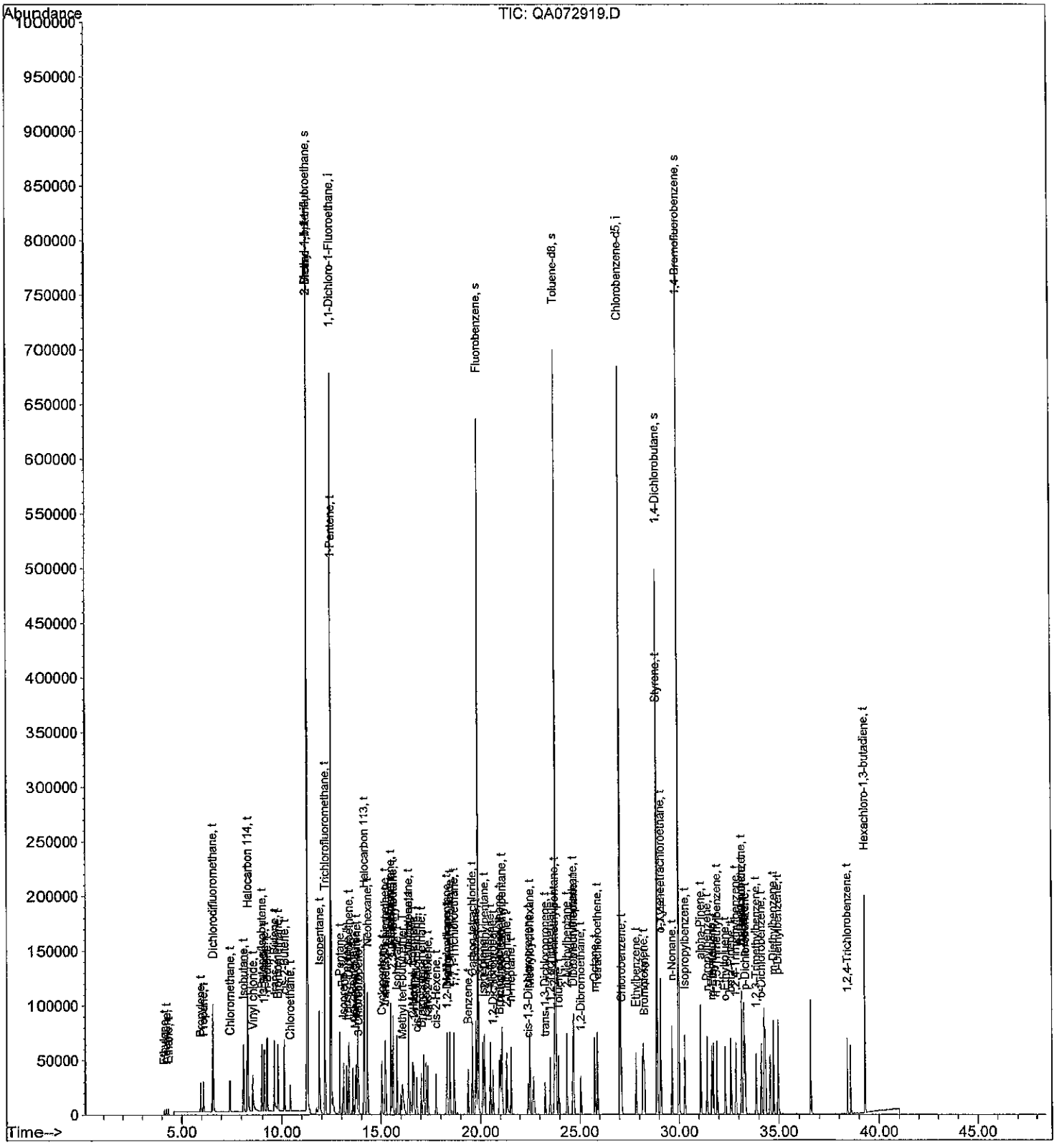
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
144)	alpha-Pinene	31.09	93	54029	0.3601 ppbV	# S	66
147)	n-Propylbenzene	31.39	91	84720	0.3140 ppbV	# S	34
148)	m-Ethyltoluene	31.65	105	58617	0.3557 ppbV	# S	1
149)	p-Ethyltoluene	31.73	105	62673	0.3270 ppbV	# S	1
150)	1,3,5-Trimethylbenzene	31.92	105	58969	0.3580 ppbV	# S	1
151)	o-Ethyltoluene	32.32	105	59756	0.3574 ppbV	S	94
152)	beta-Pinene	32.61	93	37717	0.2024 ppbV	# S	1
153)	1,2,4-Trimethylbenzene	32.85	105	57160	0.3532 ppbV	# S	1
156)	Benzyl chloride	33.13	91	49566	0.3732 ppbV	S	80
157)	m-Dichlorobenzene	33.14	146	46808	0.4312 ppbV	# S	41
158)	n-Decane	33.25	57	47604	0.3346 ppbV	S	92
159)	p-Dichlorobenzene	33.31	146	44813	0.4223 ppbV	S	91
161)	1,2,3-Trimethylbenzene	33.87	105	51873	0.3165 ppbV	# S	1
163)	o-Dichlorobenzene	34.14	146	41267	0.4350 ppbV	S	96
167)	m-Diethylbenzene	34.73	105	44697	0.3089 ppbV	# S	1
168)	p-Diethylbenzene	34.95	119	42272	0.3063 ppbV	# S	1
172)	1,2,4-Trichlorobenzene	38.41	180	23467	0.4074 ppbV	S	94
174)	Hexachloro-1,3-butadiene	39.29	225	36563	0.5130 ppbV	S	98

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072919.D Vial: 1
Acq On : 30 Jul 2011 6:06 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:47 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072920.D Vial: 1
Acq On : 30 Jul 2011 7:03 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:49 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

MM 8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	711661	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	559358	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	309175	1.6897 ppbV	0.00
Spiked Amount 2.000			Recovery	= 84.50%	
65) Fluorobenzene	19.88	96	746686	1.7091 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.50%	
113) Toluene-d8	23.79	98	679566	1.9057 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.50%	
115) 1,4-Dichlorobutane	28.90	90	90535	1.8043 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.00%	
141) 1,4-Bromofluorobenzene	29.99	95	439102	1.9621 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	

Target Compounds						Qvalue
3) Ethylene	4.13	26	8074	0.7538 ppbV	S	90
4) Acetylene	4.23	26	16223	0.4022 ppbV	S	94
5) Ethane	4.33	26	8675	0.7379 ppbV	S	96
7) Propylene	5.95	41	38995	0.5263 ppbV	S	87
9) Propane	6.10	43	19856	0.5862 ppbV	S	83
10) Dichlorodifluoromethane	6.59	85	273568	0.8734 ppbV	S	98
11) Chloromethane	7.43	50	60192	0.6282 ppbV	S	96
12) Isobutane	8.10	43	115470	0.5925 ppbV	S	92
13) Halocarbon 114	8.29	85	259284	0.7899 ppbV	S	91
15) Vinyl chloride	8.53	62	76834	0.6746 ppbV	S	99
16) 1-Butene/Isobutene	8.98	41	84610	0.6237 ppbV	S	83
17) 1,3-Butadiene	9.10	39	54796	0.7245 ppbV #	S	79
18) n-Butane	9.25	43	114147	0.6578 ppbV	S	92
20) trans-2-Butene	9.64	41	76649	0.6365 ppbV	S	85
23) Bromomethane	9.82	94	82240	0.7790 ppbV	S	96
24) cis-2-Butene	10.13	41	79901	0.6797 ppbV	S	88
25) Chloroethane	10.42	64	35922	0.6351 ppbV	S	92
27) 3-Methyl-1-butene	11.24	55	167333	0.7166 ppbV	S	90
31) Isopentane	11.89	41	85152	0.7495 ppbV	S	82
32) Trichlorofluoromethane	12.17	101	329348	1.0237 ppbV	S	99
33) 1-Pentene	12.48	42	61244	0.5824 ppbV #	S	1
37) n-Pentane	12.92	43	103442	0.5778 ppbV	S	92
39) Isoprene	13.09	67	49033	0.5357 ppbV	S	91
40) trans-2-Pentene	13.25	55	70801	0.5537 ppbV	S	94
41) 1,1-Dichloroethene	13.35	61	108156	0.6926 ppbV	S	94
42) cis-2-Pentene	13.55	55	68730	0.5349 ppbV	S	95
43) Methylene chloride	13.68	49	51030	0.5950 ppbV	S	98
44) 2-Methyl-2-butene	13.74	55	75874	0.5718 ppbV	S	96
46) 3-Chloropropene	13.86	41	29655	0.4225 ppbV #	S	58
47) Halocarbon 113	14.15	151	135626	0.9587 ppbV	S	92
48) Neohexane	14.32	43	104481	0.6820 ppbV	S	94
49) Cyclopentene	15.04	67	96596	0.5250 ppbV	S	94
50) trans-1,2-Dichloroethene	15.20	61	67530	0.6234 ppbV	S	96
51) 4-Methyl-1-pentene	15.23	43	64902	0.5373 ppbV	S	85
53) 1,1-Dichloroethane	15.50	63	79266	0.6468 ppbV	S	97

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072920.D Vial: 1
Acq On : 30 Jul 2011 7:03 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:49 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	15.49	42	108949	0.5781	ppbV		S	96
55)	2,3-Dimethylbutane	15.59	43	151270	0.6433	ppbV		S	92
56)	Methyl tert-butyl ether	15.99	73	168919m	0.7193	ppbV		S	
57)	Isohexane	15.80	42	59197	0.5722	ppbV	#	S	83
63)	Chloroprene	16.38	53	60743	0.6316	ppbV		S	94
64)	3-Methylpentane	16.39	57	118632	0.6396	ppbV		S	93
66)	2-Methyl-1-pentene	16.63	56	58493	0.5873	ppbV		S	91
67)	1-Hexene	16.66	41	35739	0.5882	ppbV		S	93
68)	cis-1,2-Dichloroethene	16.80	61	54177	0.6559	ppbV		S	98
69)	Bromochloromethane	17.04	130	33364	0.8583	ppbV		S	92
71)	n-Hexane	17.16	57	63313	0.5436	ppbV		S	93
72)	Chloroform	17.28	83	96630	0.7727	ppbV		S	98
74)	trans-2-Hexene	17.37	55	61960	0.6356	ppbV		S	97
77)	cis-2-Hexene	17.77	55	48132	0.5653	ppbV		S	95
78)	Methylcyclopentane	18.31	56	94659	0.5360	ppbV	#	S	1
79)	1,2-Dichloroethane	18.34	62	68571	0.9024	ppbV	#	S	7
80)	2,4-Dimethylpentane	18.48	43	102052	0.5617	ppbV	#	S	1
81)	1,1,1-Trichloroethane	18.69	97	142597	0.8165	ppbV		S	98
84)	Benzene	19.37	78	104038	0.6950	ppbV		S	90
85)	Carbon tetrachloride	19.59	117	147030	1.0422	ppbV	#	S	1
87)	Cyclohexane	19.77	56	125945	0.8666	ppbV	#	S	100
88)	Isoheptane	20.12	43	82039	0.6145	ppbV	#	S	34
89)	2,3-Dimethylpentane	20.21	56	92614	0.6735	ppbV	#	S	68
91)	3-Methylhexane	20.51	43	64803	0.6046	ppbV	#	S	80
92)	1,2-Dichloropropane	20.65	63	39761	0.6853	ppbV	#	S	1
93)	Bromodichloromethane	20.96	83	92961	0.7930	ppbV	#	S	1
94)	Trichloroethene	21.02	130	49145	0.7523	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	21.09	57	215525	0.6213	ppbV	#	S	1
98)	2-Chloropentane	21.33	70	58430	0.6897	ppbV		S	96
100)	n-Heptane	21.55	71	39284	0.6390	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	22.41	75	51540	0.6187	ppbV	#	S	1
106)	Methylcyclohexane	22.50	83	81621	0.6638	ppbV		S	89
110)	trans-1,3-Dichloropropene	23.27	75	56092	0.7460	ppbV	#	S	1
111)	1,1,2-Trichloroethane	23.53	97	46182	0.7869	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	23.73	43	103805	0.6155	ppbV		S	78
114)	Toluene	23.96	91	122241	0.7303	ppbV	#	S	1
117)	2-Methylheptane	24.36	43	70305	0.6205	ppbV	#	S	15
119)	Dibromochloromethane	24.66	129	84825	0.8486	ppbV	#	S	68
120)	3-Methylheptane	24.68	85	49439	0.6236	ppbV		S	88
122)	1,2-Dibromoethane	25.05	107	70573	0.7776	ppbV	#	S	1
125)	n-Octane	25.75	43	72860	0.6134	ppbV	#	S	61
126)	Tetrachloroethene	25.89	164	49068	1.0309	ppbV		S	95
128)	Chlorobenzene	27.10	112	97748	0.8211	ppbV	#	S	1
129)	Ethylbenzene	27.84	91	137398	0.8336	ppbV		S	99
130)	m/p-Xylene	28.20	91	249239m	1.5866	ppbV		S	
131)	Bromoform	28.25	173	67167	0.9549	ppbV	#	S	100
134)	Styrene	28.87	104	75465	0.8142	ppbV	#	S	1
135)	1,1,2,2-Tetrachloroethane	29.08	83	99356	0.8019	ppbV		S	97
136)	o-Xylene	29.08	91	117607	0.8540	ppbV	#	S	100
140)	n-Nonane	29.64	43	77446	0.6633	ppbV		S	90
142)	Isopropylbenzene	30.29	105	153811	0.7965	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072920.D Vial: 1
Acq On : 30 Jul 2011 7:03 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:49 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

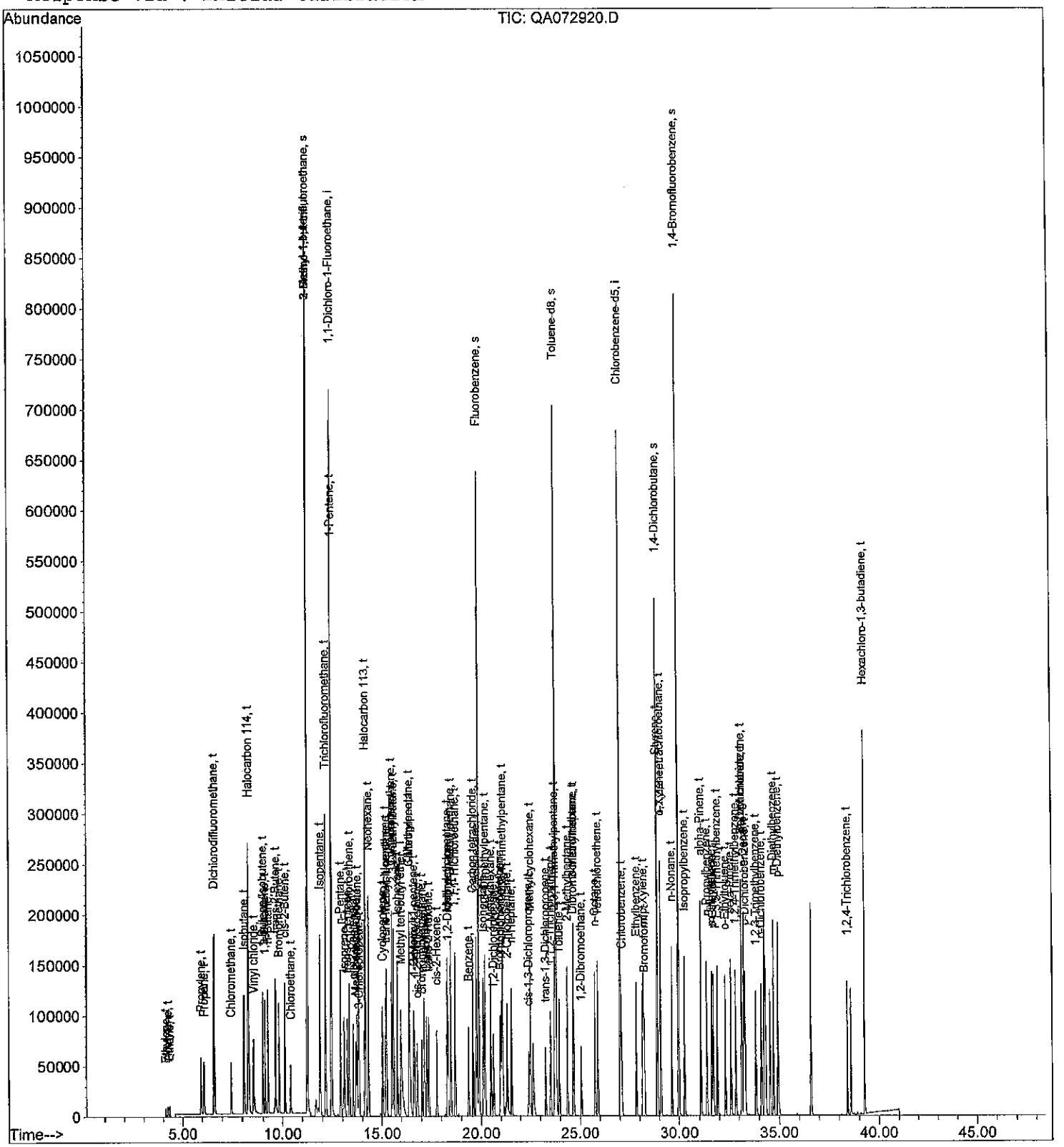
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	31.09	93	121286	0.8018	ppbV	#	S	65
147)	n-Propylbenzene	31.39	91	185838	0.6832	ppbV	#	S	34
148)	m-Ethyltoluene	31.65	105	132826	0.7995	ppbV	#	S	1
149)	p-Ethyltoluene	31.72	105	136672	0.7074	ppbV	#	S	1
150)	1,3,5-Trimethylbenzene	31.92	105	129416	0.7794	ppbV	#	S	1
151)	o-Ethyltoluene	32.32	105	133261	0.7906	ppbV		S	98
152)	beta-Pinene	32.60	93	87330	0.4650	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.85	105	126187	0.7735	ppbV	#	S	1
156)	Benzyl chloride	33.13	91	108266	0.8087	ppbV		S	81
157)	m-Dichlorobenzene	33.14	146	95286	0.8708	ppbV	#	S	41
158)	n-Decane	33.25	57	101807	0.7099	ppbV		S	90
159)	p-Dichlorobenzene	33.31	146	90567	0.8465	ppbV		S	89
161)	1,2,3-Trimethylbenzene	33.87	105	113936	0.6897	ppbV	#	S	1
163)	o-Dichlorobenzene	34.14	146	82635	0.8641	ppbV		S	98
167)	m-Diethylbenzene	34.72	105	103747	0.7112	ppbV	#	S	1
168)	p-Diethylbenzene	34.96	119	99192	0.7129	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	38.41	180	44061	0.7587	ppbV		S	96
174)	Hexachloro-1,3-butadiene	39.29	225	71791	0.9992	ppbV		S	96

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

Quantitation Report

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072920.D Vial: 1
Acq On : 30 Jul 2011 7:03 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:49 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072921.D Vial: 1
Acq On : 30 Jul 2011 7:59 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 12:09 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

MAB 8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	722297	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	592152	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	320708	1.7270 ppbV	0.00
Spiked Amount 2.000			Recovery	= 86.50%	
65) Fluorobenzene	19.88	96	781350	1.7621 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.00%	
113) Toluene-d8	23.79	98	720515	1.9086 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.50%	
115) 1,4-Dichlorobutane	28.90	90	95803	1.8035 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.00%	
141) 1,4-Bromofluorobenzene	29.99	95	464085	1.9589 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	

Target Compounds						Qvalue
3) Ethylene	4.13	26	20868	1.9195 ppbV	S	94
4) Acetylene	4.23	26	43973	1.0742 ppbV	S	95
5) Ethane	4.33	26	21158	1.7732 ppbV	S	97
7) Propylene	5.95	41	106917	1.4218 ppbV	S	89
9) Propane	6.10	43	50543	1.4701 ppbV	S	88
10) Dichlorodifluoromethane	6.58	85	680254	2.1399 ppbV	S	97
11) Chloromethane	7.43	50	151597	1.5589 ppbV	S	96
12) Isobutane	8.09	43	306976	1.5521 ppbV	S	94
13) Halocarbon 114	8.28	85	642241	1.9278 ppbV	S	91
15) Vinyl chloride	8.53	62	199683	1.7274 ppbV	S	99
16) 1-Butene/Isobutene	8.98	41	217818	1.5820 ppbV	S	84
17) 1,3-Butadiene	9.10	39	141353	1.8413 ppbV	S	81
18) n-Butane	9.25	43	289754	1.6451 ppbV	S	95
20) trans-2-Butene	9.64	41	199275	1.6303 ppbV	S	85
23) Bromomethane	9.82	94	208871	1.9493 ppbV	S	94
24) cis-2-Butene	10.13	41	211022	1.7687 ppbV	S	88
25) Chloroethane	10.41	64	95428	1.6624 ppbV	S	92
27) 3-Methyl-1-butene	11.24	55	443685	1.8720 ppbV	S	90
31) Isopentane	11.89	41	208455	1.8078 ppbV	S	81
32) Trichlorofluoromethane	12.17	101	812017	2.4867 ppbV	S	100
33) 1-Pentene	12.48	42	154574	1.4482 ppbV #	S	1
37) n-Pentane	12.91	43	279148	1.5362 ppbV	S	92
39) Isoprene	13.09	67	154052	1.6584 ppbV	S	90
40) trans-2-Pentene	13.25	55	231643	1.7849 ppbV	S	94
41) 1,1-Dichloroethene	13.35	61	292166	1.8435 ppbV	S	94
42) cis-2-Pentene	13.55	55	225494	1.7291 ppbV	S	95
43) Methylene chloride	13.68	49	147260	1.6918 ppbV	S	98
44) 2-Methyl-2-butene	13.74	55	247380	1.8370 ppbV	S	94
46) 3-Chloropropene	13.85	41	97765	1.3723 ppbV #	S	72
47) Halocarbon 113	14.15	151	355901	2.4787 ppbV	S	96
48) Neohexane	14.32	43	278127	1.7887 ppbV	S	92
49) Cyclopentene	15.04	67	303291	1.6242 ppbV	S	93
50) trans-1,2-Dichloroethene	15.20	61	204480	1.8600 ppbV	S	95
51) 4-Methyl-1-pentene	15.23	43	203367	1.6589 ppbV	S	85
53) 1,1-Dichloroethane	15.49	63	246232	1.9797 ppbV	S	97

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072921.D Vial: 1
Acq On : 30 Jul 2011 7:59 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 12:09 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	15.49	42	292821	1.5309	ppbV		S	95
55)	2,3-Dimethylbutane	15.59	43	412488	1.7283	ppbV		S	91
56)	Methyl tert-butyl ether	15.87	73	520991m	2.1860	ppbV		S	
57)	Isohexane	15.79	42	172263	1.6407	ppbV	#	S	83
63)	Chloroprene	16.38	53	215582	2.2087	ppbV		S	92
64)	3-Methylpentane	16.39	57	353225	1.8764	ppbV		S	90
66)	2-Methyl-1-pentene	16.62	56	204944m	2.0276	ppbV		S	
67)	1-Hexene	16.66	41	111318	1.8051	ppbV		S	91
68)	cis-1,2-Dichloroethene	16.81	61	176314	2.1031	ppbV		S	95
69)	Bromochloromethane	17.04	130	106054	2.6880	ppbV		S	94
71)	n-Hexane	17.16	57	206130	1.7439	ppbV		S	91
72)	Chloroform	17.27	83	300457	2.3673	ppbV		S	98
74)	trans-2-Hexene	17.37	55	222469	2.2487	ppbV		S	97
77)	cis-2-Hexene	17.77	55	179412	2.0760	ppbV		S	96
78)	Methylcyclopentane	18.31	56	294495	1.6429	ppbV	#	S	1
79)	1,2-Dichloroethane	18.34	62	217324	2.8179	ppbV	#	S	6
80)	2,4-Dimethylpentane	18.48	43	317084	1.7194	ppbV	#	S	1
81)	1,1,1-Trichloroethane	18.69	97	423785	2.3908	ppbV		S	98
84)	Benzene	19.37	78	357251	2.2543	ppbV		S	89
85)	Carbon tetrachloride	19.59	117	431962	2.8922	ppbV	#	S	1
87)	Cyclohexane	19.77	56	371495	2.4146	ppbV	#	S	100
88)	Isoheptane	20.12	43	267573	1.8931	ppbV	#	S	34
89)	2,3-Dimethylpentane	20.21	56	289125	1.9862	ppbV	#	S	68
91)	3-Methylhexane	20.51	43	213916	1.8854	ppbV	#	S	80
92)	1,2-Dichloropropane	20.64	63	130063	2.1175	ppbV	#	S	1
93)	Bromodichloromethane	20.96	83	298073	2.4019	ppbV	#	S	1
94)	Trichloroethene	21.02	130	167631	2.4238	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	21.09	57	708791	1.9302	ppbV	#	S	1
98)	2-Chloropentane	21.33	70	198722	2.2158	ppbV		S	97
100)	n-Heptane	21.55	71	133514	2.0514	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	22.41	75	195108	2.2126	ppbV	#	S	1
106)	Methylcyclohexane	22.50	83	271076	2.0826	ppbV		S	86
110)	trans-1,3-Dichloropropene	23.27	75	207804	2.6105	ppbV	#	S	1
111)	1,1,2-Trichloroethane	23.52	97	150860	2.4282	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	23.73	43	342228	1.9169	ppbV		S	78
114)	Toluene	23.96	91	420757	2.3744	ppbV	#	S	1
117)	2-Methylheptane	24.36	43	241684	2.0149	ppbV	#	S	20
119)	Dibromochloromethane	24.66	129	279986	2.6460	ppbV	#	S	67
120)	3-Methylheptane	24.68	85	174319	2.0768	ppbV		S	89
122)	1,2-Dibromoethane	25.06	107	236702	2.4638	ppbV	#	S	1
125)	n-Octane	25.75	43	250468	1.9917	ppbV	#	S	62
126)	Tetrachloroethene	25.89	164	163287	3.2406	ppbV		S	97
128)	Chlorobenzene	27.10	112	316285	2.5097	ppbV	#	S	1
129)	Ethylbenzene	27.84	91	502915	2.8822	ppbV		S	99
130)	m/p-Xylene	28.20	91	875589m	5.2650	ppbV		S	
131)	Bromoform	28.25	173	218049	2.9283	ppbV	#	S	100
134)	Styrene	28.87	104	279604	2.8494	ppbV	#	S	1
135)	1,1,2,2-Tetrachloroethane	29.07	83	306053	2.3333	ppbV		S	99
136)	o-Xylene	29.07	91	425241	2.9168	ppbV	#	S	100
140)	n-Nonane	29.64	43	254286	2.0573	ppbV		S	83
142)	Isopropylbenzene	30.29	105	564139	2.7596	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072921.D Vial: 1
Acq On : 30 Jul 2011 7:59 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 12:09 19111 Quant Results File: QA110705.RES

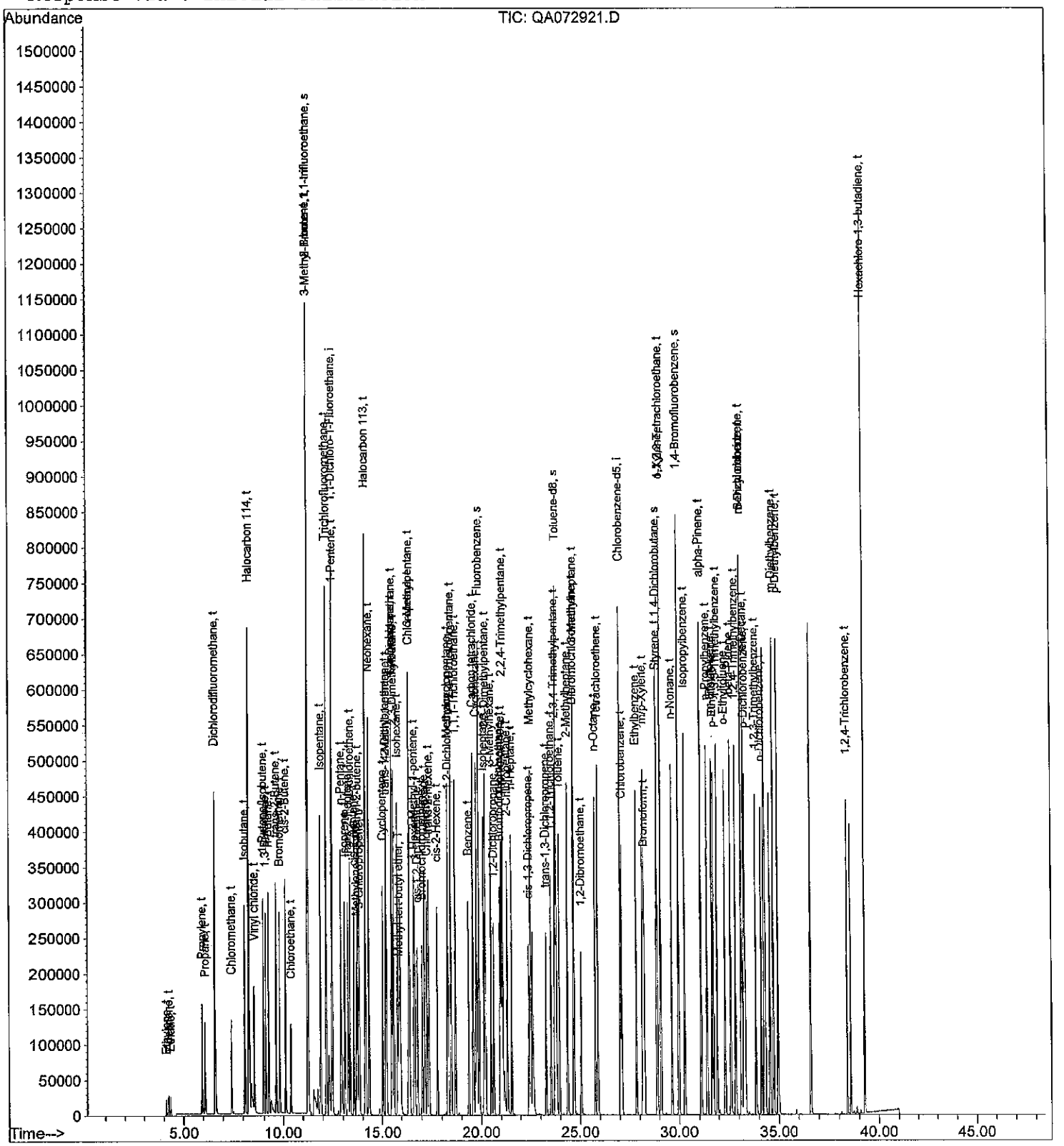
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	31.08	93	438971	2.7413	ppbV	#	S	66
147)	n-Propylbenzene	31.39	91	661587	2.2976	ppbV	#	S	34
148)	m-Ethyltoluene	31.64	105	496179	2.8211	ppbV	#	S	1
149)	p-Ethyltoluene	31.73	105	504237	2.4653	ppbV	#	S	1
150)	1,3,5-Trimethylbenzene	31.92	105	479948	2.7306	ppbV	#	S	1
151)	o-Ethyltoluene	32.32	105	504389	2.8266	ppbV		S	97
152)	beta-Pinene	32.60	93	334226	1.6810	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.85	105	477724	2.7661	ppbV	#	S	1
156)	Benzyl chloride	33.13	91	402974	2.8432	ppbV		S	78
157)	m-Dichlorobenzene	33.15	146	336773	2.9071	ppbV	#	S	34
158)	n-Decane	33.25	57	323312	2.1297	ppbV		S	93
159)	p-Dichlorobenzene	33.31	146	323889	2.8597	ppbV		S	94
161)	1,2,3-Trimethylbenzene	33.87	105	437722	2.5028	ppbV	#	S	1
163)	o-Dichlorobenzene	34.14	146	300343	2.9667	ppbV		S	98
167)	m-Diethylbenzene	34.72	105	390075	2.5260	ppbV	#	S	1
168)	p-Diethylbenzene	34.95	119	389841	2.6466	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	38.41	180	158928	2.5852	ppbV		S	99
174)	Hexachloro-1,3-butadiene	39.29	225	251500	3.3067	ppbV		S	96

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072921.D Vial: 1
Acq On : 30 Jul 2011 7:59 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 12:09 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072922.D Vial: 1
Acq On : 30 Jul 2011 8:56 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:56 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

DAH 8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	742148	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	651999	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	341266	1.7885 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.50%	
65) Fluorobenzene	19.88	96	875823	1.9223 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.00%	
113) Toluene-d8	23.79	98	803716	1.9336 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.50%	
115) 1,4-Dichlorobutane	28.90	90	99808	1.7065 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.50%	
141) 1,4-Bromofluorobenzene	29.99	95	477946	1.8322 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.50%	

Target Compounds						Qvalue
3) Ethylene	4.12	26	45151	4.0420 ppbV	S	94
4) Acetylene	4.23	26	91890	2.1848 ppbV	S	94
5) Ethane	4.33	26	41377	3.3749 ppbV	S	97
7) Propylene	5.94	41	221204	2.8630 ppbV	S	88
9) Propane	6.09	43	101655	2.8777 ppbV	S	87
10) Dichlorodifluoromethane	6.58	85	1401636	4.2912 ppbV	S	98
11) Chloromethane	7.43	50	308354	3.0860 ppbV	S	96
12) Isobutane	8.09	43	626425	3.0825 ppbV	S	94
13) Halocarbon 114	8.28	85	1343918	3.9261 ppbV	S	96
15) Vinyl chloride	8.53	62	420027	3.5363 ppbV	S	99
16) 1-Butene/Isobutene	8.97	41	443948	3.1381 ppbV	S	85
17) 1,3-Butadiene	9.09	39	286562	3.6330 ppbV	S	82
18) n-Butane	9.25	43	579948	3.2046 ppbV	S	95
20) trans-2-Butene	9.64	41	399584	3.1816 ppbV	S	87
23) Bromomethane	9.82	94	459531	4.1738 ppbV	S	94
24) cis-2-Butene	10.12	41	428131	3.4925 ppbV	S	92
25) Chloroethane	10.41	64	216478	3.6704 ppbV	S	92
27) 3-Methyl-1-butene	11.24	55	924894	3.7979 ppbV	S	92
31) Isopentane	11.89	41	420370	3.5481 ppbV	S	80
32) Trichlorofluoromethane	12.17	101	1679048	5.0044 ppbV	S	99
33) 1-Pentene	12.47	42	340920	3.1086 ppbV #	S	1
37) n-Pentane	12.91	43	593781	3.1802 ppbV	S	92
39) Isoprene	13.09	67	382138	4.0038 ppbV	S	89
40) trans-2-Pentene	13.24	55	564646	4.2345 ppbV	S	94
41) 1,1-Dichloroethene	13.34	61	646740	3.9717 ppbV	S	92
42) cis-2-Pentene	13.54	55	550609	4.1092 ppbV	S	93
43) Methylene chloride	13.68	49	333531	3.7293 ppbV	S	94
44) 2-Methyl-2-butene	13.73	55	600601	4.3406 ppbV	S	93
46) 3-Chloropropene	13.84	41	234046	3.1974 ppbV	S	86
47) Halocarbon 113	14.15	151	810383	5.4930 ppbV	S	99
48) Neohexane	14.31	43	580417	3.6330 ppbV	S	93
49) Cyclopentene	15.04	67	729507	3.8021 ppbV	S	91
50) trans-1,2-Dichloroethene	15.19	61	478251	4.2339 ppbV	S	95
51) 4-Methyl-1-pentene	15.23	43	469582	3.7281 ppbV	S	83
53) 1,1-Dichloroethane	15.49	63	584772	4.5757 ppbV	S	97

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072922.D Vial: 1
Acq On : 30 Jul 2011 8:56 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:56 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	15.49	42	611700	3.1125	ppbV		S	94
55)	2,3-Dimethylbutane	15.59	43	879226	3.5855	ppbV		S	91
56)	Methyl tert-butyl ether	15.76	73	1234211	5.0400	ppbV	#	S	54
57)	Isohexane	15.79	42	420386	3.8969	ppbV		S	93
63)	Chloroprene	16.38	53	503631	5.0217	ppbV		S	90
64)	3-Methylpentane	16.39	57	757278	3.9152	ppbV		S	91
66)	2-Methyl-1-pentene	16.62	56	478277m	4.6052	ppbV		S	
67)	1-Hexene	16.66	41	249470	3.9371	ppbV		S	87
68)	cis-1,2-Dichloroethene	16.80	61	428458	4.9741	ppbV		S	92
69)	Bromochloromethane	17.04	130	271450	6.6961	ppbV		S	96
71)	n-Hexane	17.15	57	498432	4.1040	ppbV		S	88
72)	Chloroform	17.27	83	718103	5.5066	ppbV		S	98
74)	trans-2-Hexene	17.37	55	547056	5.3817	ppbV		S	97
77)	cis-2-Hexene	17.77	55	448510	5.0511	ppbV		S	96
78)	Methylcyclopentane	18.31	56	694680	3.7717	ppbV	#	S	1
79)	1,2-Dichloroethane	18.33	62	510398	6.4409	ppbV	#	S	7
80)	2,4-Dimethylpentane	18.48	43	744579	3.9296	ppbV	#	S	1
81)	1,1,1-Trichloroethane	18.68	97	1002762	5.5059	ppbV		S	100
84)	Benzene	19.37	78	899302	5.1539	ppbV		S	89
85)	Carbon tetrachloride	19.59	117	1018607	6.1941	ppbV	#	S	1
87)	Cyclohexane	19.77	56	699896	4.1315	ppbV	#	S	100
88)	Isoheptane	20.12	43	631344	4.0569	ppbV	#	S	32
89)	2,3-Dimethylpentane	20.21	56	701244	4.3752	ppbV	#	S	67
91)	3-Methylhexane	20.51	43	506112	4.0512	ppbV	#	S	77
92)	1,2-Dichloropropane	20.63	63	314713	4.6534	ppbV	#	S	1
93)	Bromodichloromethane	20.96	83	717887	5.2539	ppbV	#	S	1
94)	Trichloroethene	21.02	130	439011	5.7651	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	21.09	57	1797234	4.4450	ppbV	#	S	1
98)	2-Chloropentane	21.32	70	497079	5.0338	ppbV		S	93
100)	n-Heptane	21.55	71	341295	4.7625	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	22.40	75	512348	5.2768	ppbV	#	S	1
106)	Methylcyclohexane	22.50	83	714127	4.9828	ppbV		S	81
110)	trans-1,3-Dichloropropene	23.27	75	547450	6.2460	ppbV	#	S	1
111)	1,1,2-Trichloroethane	23.52	97	374603	5.4760	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	23.73	43	818533	4.1640	ppbV	#	S	71
114)	Toluene	23.96	91	1080928	5.5399	ppbV	#	S	1
117)	2-Methylheptane	24.36	43	567306	4.2955	ppbV	#	S	15
119)	Dibromochloromethane	24.66	129	709802	6.0923	ppbV	#	S	74
120)	3-Methylheptane	24.68	85	458214	4.9581	ppbV		S	91
122)	1,2-Dibromoethane	25.06	107	603015	5.7005	ppbV	#	S	1
125)	n-Octane	25.75	43	596011	4.3045	ppbV	#	S	66
126)	Tetrachloroethene	25.89	164	433217	7.8086	ppbV		S	99
128)	Chlorobenzene	27.10	112	803007	5.7870	ppbV	#	S	1
129)	Ethylbenzene	27.84	91	1291087	6.7201	ppbV		S	97
130)	m/p-Xylene	28.20	91	2232212m	12.1905	ppbV		S	
131)	Bromoform	28.25	173	555181	6.7715	ppbV	#	S	100
134)	Styrene	28.87	104	725317	6.7132	ppbV	#	S	1
135)	1,1,2,2-Tetrachloroethane	29.07	83	698420	4.8358	ppbV		S	98
136)	o-Xylene	29.07	91	1052026	6.5536	ppbV	#	S	100
140)	n-Nonane	29.64	43	564962	4.1513	ppbV		S	78
142)	Isopropylbenzene	30.29	105	1424531	6.3288	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072922.D Vial: 1
Acq On : 30 Jul 2011 8:56 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:56 19111 Quant Results File: QA110705.RES

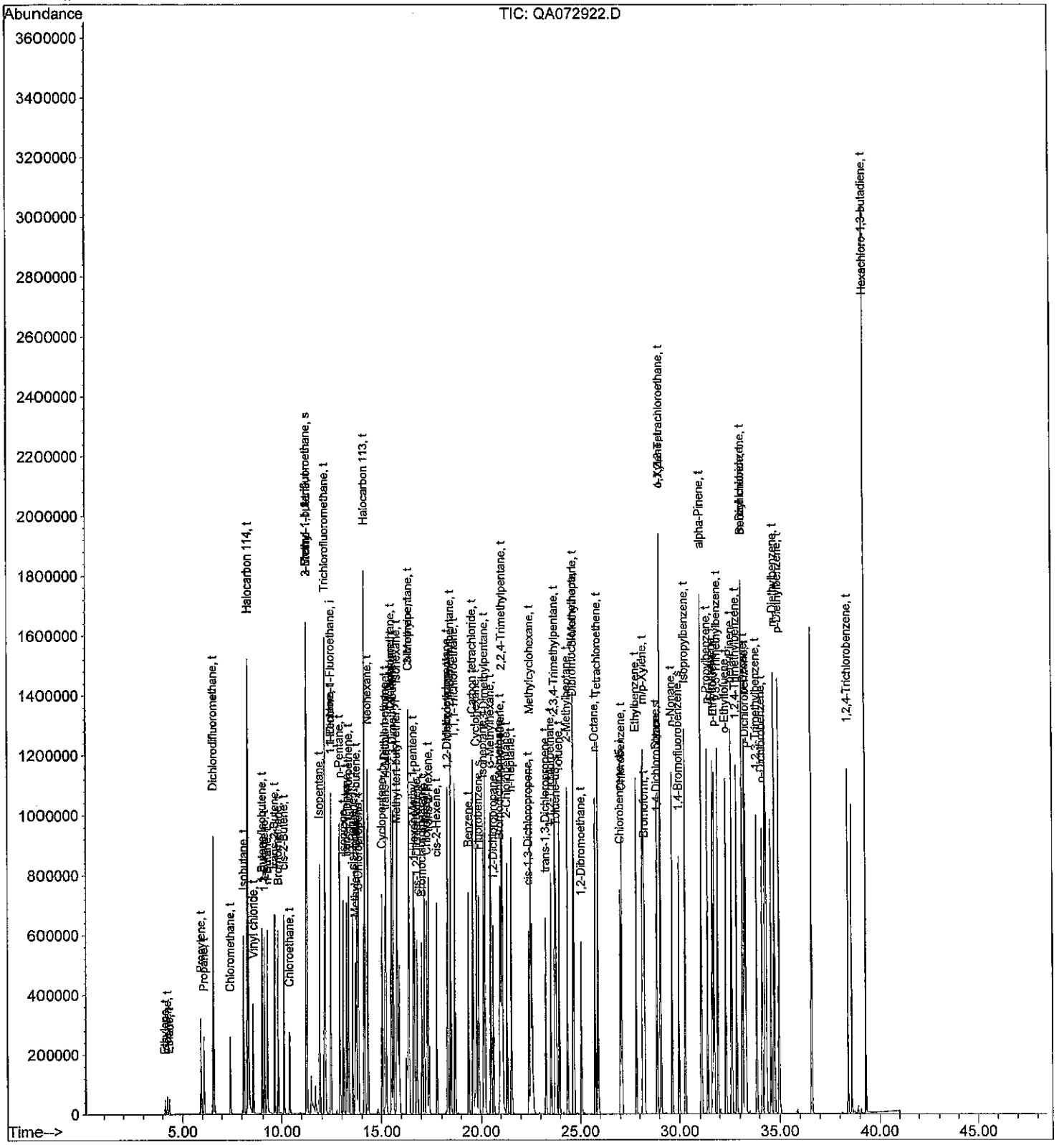
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	31.08	93	1174411	6.6608	ppbV	#	S	64
147)	n-Propylbenzene	31.39	91	1608220	5.0724	ppbV	#	S	34
148)	m-Ethyltoluene	31.64	105	1231173	6.3575	ppbV	#	S	1
149)	p-Ethyltoluene	31.73	105	1228704	5.4560	ppbV	#	S	1
150)	1,3,5-Trimethylbenzene	31.92	105	1158576	5.9864	ppbV	#	S	1
151)	o-Ethyltoluene	32.32	105	1209182	6.1542	ppbV		S	97
152)	beta-Pinene	32.60	93	879455	4.0172	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.85	105	1124768	5.9148	ppbV	#	S	1
156)	Benzyl chloride	33.13	91	958034	6.1391	ppbV		S	77
157)	m-Dichlorobenzene	33.15	146	786061	6.1627	ppbV	#	S	32
158)	n-Decane	33.25	57	727123	4.3500	ppbV		S	92
159)	p-Dichlorobenzene	33.32	146	756225	6.0640	ppbV		S	97
161)	1,2,3-Trimethylbenzene	33.86	105	1022180	5.3082	ppbV	#	S	1
163)	o-Dichlorobenzene	34.14	146	689698	6.1874	ppbV		S	97
167)	m-Diethylbenzene	34.72	105	880653	5.1793	ppbV	#	S	1
168)	p-Diethylbenzene	34.96	119	881123	5.4328	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	38.41	180	434081	6.4129	ppbV		S	99
174)	Hexachloro-1,3-butadiene	39.29	225	619770	7.4008	ppbV		S	95

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072922.D Vial: 1
Acq On : 30 Jul 2011 8:56 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:56 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072923.D Vial: 1
Acq On : 30 Jul 2011 9:55 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 10:00 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

MB 8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.45	81	709911	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	757061	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	353358	1.9360 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.00%	
65) Fluorobenzene	19.88	96	993879	2.2805 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.00%	
113) Toluene-d8	23.79	98	921918	1.9102 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.50%	
115) 1,4-Dichlorobutane	28.90	90	112041	1.6498 ppbV	0.00
Spiked Amount 2.000			Recovery	= 82.50%	
141) 1,4-Bromofluorobenzene	29.99	95	531144	1.7536 ppbV	0.00
Spiked Amount 2.000			Recovery	= 87.50%	

Target Compounds						Qvalue
3) Ethylene	4.13	26	72418	6.7774 ppbV	S	93
4) Acetylene	4.24	26	141619	3.5201 ppbV	S	95
5) Ethane	4.33	26	60821	5.1862 ppbV	S	100
7) Propylene	5.94	41	352172	4.7650 ppbV	S	89
9) Propane	6.09	43	157952	4.6744 ppbV	S	88
10) Dichlorodifluoromethane	6.58	85	2235544	7.1551 ppbV	S	98
11) Chloromethane	7.43	50	485981	5.0846 ppbV	S	97
12) Isobutane	8.09	43	963825	4.9581 ppbV	S	94
13) Halocarbon 114	8.28	85	2151059	6.5694 ppbV	S	99
15) Vinyl chloride	8.53	62	669264	5.8905 ppbV	S	98
16) 1-Butene/Isobutene	8.97	41	672734	4.9713 ppbV	S	88
17) 1,3-Butadiene	9.09	39	433463	5.7450 ppbV	S	86
18) n-Butane	9.24	43	860894	4.9731 ppbV	S	95
20) trans-2-Butene	9.64	41	604200	5.0293 ppbV	S	91
23) Bromomethane	9.81	94	771434	7.3249 ppbV	S	96
24) cis-2-Butene	10.12	41	631238	5.3831 ppbV	S	94
25) Chloroethane	10.41	64	356742	6.3232 ppbV	S	93
27) 3-Methyl-1-butene	11.24	55	1385607	5.9481 ppbV	S	94
31) Isopentane	11.89	41	623327	5.5001 ppbV	S	79
32) Trichlorofluoromethane	12.16	101	2620013	8.1635 ppbV	S	98
33) 1-Pentene	12.47	42	633543	6.0391 ppbV #	S	1
37) n-Pentane	12.90	43	927124	5.1911 ppbV	S	92
39) Isoprene	13.08	67	715048	7.8320 ppbV	S	87
40) trans-2-Pentene	13.24	55	1022020	8.0126 ppbV	S	91
41) 1,1-Dichloroethene	13.34	61	1080820	6.9388 ppbV	S	86
42) cis-2-Pentene	13.54	55	993310	7.7496 ppbV	S	91
43) Methylene chloride	13.67	49	566946	6.6271 ppbV	S	86
44) 2-Methyl-2-butene	13.73	55	1068886	8.0758 ppbV	S	89
46) 3-Chloropropene	13.84	41	405776	5.7952 ppbV #	S	69
47) Halocarbon 113	14.14	151	1419533	10.0589 ppbV	S	93
48) Neohexane	14.31	43	874902	5.7250 ppbV	S	86
49) Cyclopentene	15.04	67	1327166	7.2312 ppbV	S	90
50) trans-1,2-Dichloroethene	15.19	61	839269	7.7674 ppbV	S	87
51) 4-Methyl-1-pentene	15.23	43	759475	6.3034 ppbV	S	82
53) 1,1-Dichloroethane	15.49	63	1025433	8.3881 ppbV	S	98

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072923.D Vial: 1
Acq On : 30 Jul 2011 9:55 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 10:00 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
54)	Cyclopentane	15.49	42	929054	4.9419 ppbV		S	90
55)	2,3-Dimethylbutane	15.58	43	1334433	5.6889 ppbV		S	91
56)	Methyl tert-butyl ether	15.71	73	2125733	9.0748 ppbV		S	93
57)	Isohexane	15.78	42	637357	6.1764 ppbV	#	S	84
63)	Chloroprene	16.37	53	877303	9.1449 ppbV		S	87
64)	3-Methylpentane	16.39	57	1229045	6.6429 ppbV		S	89
66)	2-Methyl-1-pentene	16.62	56	895487m	9.0140 ppbV		S	
67)	1-Hexene	16.66	41	462607	7.6324 ppbV		S	82
68)	cis-1,2-Dichloroethene	16.80	61	778579	9.4491 ppbV		S	86
69)	Bromochloromethane	17.04	130	538425	13.8849 ppbV		S	88
71)	n-Hexane	17.15	57	882129	7.5931 ppbV		S	86
72)	Chloroform	17.27	83	1313317	10.5282 ppbV		S	98
74)	trans-2-Hexene	17.37	55	991617	10.1980 ppbV		S	94
77)	cis-2-Hexene	17.77	55	812604	9.5670 ppbV		S	92
78)	Methylcyclopentane	18.31	56	1168132	6.6303 ppbV	#	S	1
79)	1,2-Dichloroethane	18.33	62	907325	11.9699 ppbV	#	S	6
80)	2,4-Dimethylpentane	18.47	43	1175062	6.4831 ppbV	#	S	1
81)	1,1,1-Trichloroethane	18.68	97	1747847	10.0327 ppbV		S	99
84)	Benzene	19.36	78	1702321	8.4020 ppbV		S	88
85)	Carbon tetrachloride	19.59	117	1775760	9.2998 ppbV	#	S	1
87)	Cyclohexane	19.77	56	1156140	5.8777 ppbV	#	S	100
88)	Isoheptane	20.12	43	1056919	5.8491 ppbV	#	S	30
89)	2,3-Dimethylpentane	20.21	56	1161881	6.2432 ppbV	#	S	67
91)	3-Methylhexane	20.51	43	864184	5.9575 ppbV	#	S	74
92)	1,2-Dichloropropane	20.63	63	583375	7.4288 ppbV	#	S	1
93)	Bromodichloromethane	20.96	83	1319354	8.3158 ppbV	#	S	1
94)	Trichloroethene	21.01	130	871701	9.8587 ppbV	#	S	1
97)	2,2,4-Trimethylpentane	21.09	57	2968808	6.3236 ppbV	#	S	1
98)	2-Chloropentane	21.32	70	932516	8.1328 ppbV		S	89
100)	n-Heptane	21.55	71	642192	7.7177 ppbV	#	S	1
104)	cis-1,3-Dichloropropene	22.40	75	981999	8.7103 ppbV	#	S	1
106)	Methylcyclohexane	22.50	83	1324267	7.9578 ppbV		S	77
110)	trans-1,3-Dichloropropene	23.27	75	1044409	10.2622 ppbV	#	S	1
111)	1,1,2-Trichloroethane	23.52	97	726198	9.1424 ppbV	#	S	1
112)	2,3,4-Trimethylpentane	23.73	43	1401188	6.1388 ppbV	#	S	63
114)	Toluene	23.96	91	2130344	9.4031 ppbV	#	S	1
117)	2-Methylheptane	24.36	43	1002186	6.5352 ppbV	#	S	11
119)	Dibromochloromethane	24.66	129	1378918	10.1929 ppbV	#	S	78
120)	3-Methylheptane	24.68	85	898293	8.3710 ppbV		S	83
122)	1,2-Dibromoethane	25.06	107	1172040	9.5420 ppbV	#	S	1
125)	n-Octane	25.75	43	1060666	6.5972 ppbV	#	S	69
126)	Tetrachloroethene	25.89	164	890232	13.8193 ppbV		S	97
128)	Chlorobenzene	27.10	112	1599962	9.9303 ppbV	#	S	1
129)	Ethylbenzene	27.84	91	2549629	11.4292 ppbV		S	96
130)	m/p-Xylene	28.20	91	4344232m	20.4321 ppbV		S	
131)	Bromoform	28.26	173	1134595	11.9180 ppbV	#	S	100
134)	Styrene	28.87	104	1465048	11.6780 ppbV	#	S	1
135)	1,1,2,2-Tetrachloroethane	29.07	83	1269528	7.5703 ppbV		S	99
136)	o-Xylene	29.07	91	2016929	10.8208 ppbV	#	S	100
140)	n-Nonane	29.64	43	1037104	6.5630 ppbV	#	S	73
142)	Isopropylbenzene	30.29	105	2836391	10.8526 ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072923.D Vial: 1
Acq On : 30 Jul 2011 9:55 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 10:00 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

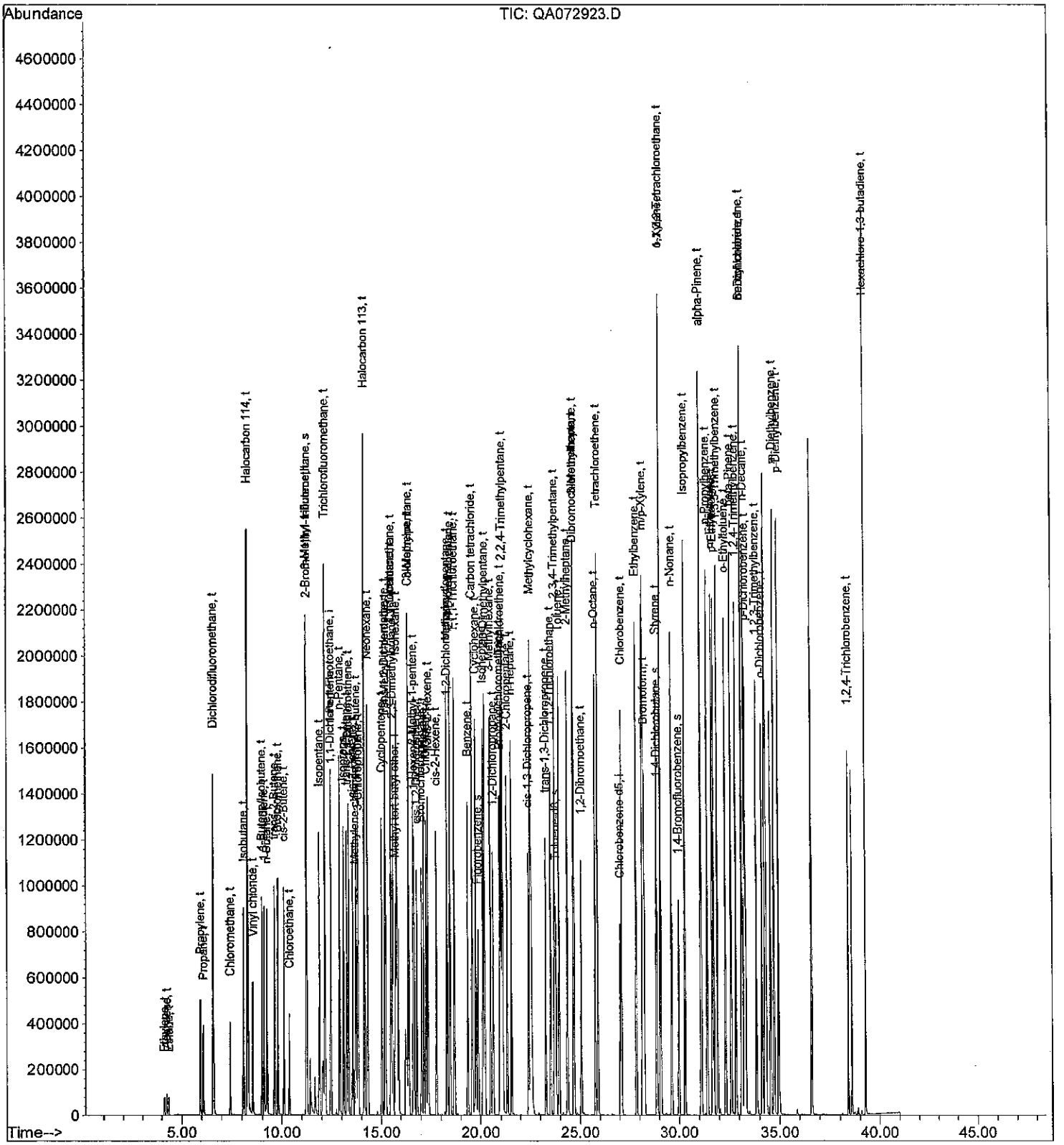
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	31.09	93	2307768	11.2723	ppbV	#	S	64
147)	n-Propylbenzene	31.39	91	3155246	8.5707	ppbV	#	S	34
148)	m-Ethyltoluene	31.65	105	2465125	10.9629	ppbV	#	S	1
149)	p-Ethyltoluene	31.73	105	2441419	9.3365	ppbV	#	S	1
150)	1,3,5-Trimethylbenzene	31.92	105	2279505	10.1438	ppbV	#	S	1
151)	o-Ethyltoluene	32.32	105	2381664	10.4394	ppbV		S	96
152)	beta-Pinene	32.61	93	1732562	6.8159	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.85	105	2191192	9.9237	ppbV	#	S	1
156)	Benzyl chloride	33.13	91	1820286	10.0457	ppbV		S	77
157)	m-Dichlorobenzene	33.14	146	1456792	9.8362	ppbV	#	S	32
158)	n-Decane	33.25	57	1459535	7.5199	ppbV		S	91
159)	p-Dichlorobenzene	33.32	146	1378194	9.5178	ppbV		S	97
161)	1,2,3-Trimethylbenzene	33.86	105	1926364	8.6153	ppbV	#	S	1
163)	o-Dichlorobenzene	34.14	146	1188599	9.1833	ppbV		S	97
167)	m-Diethylbenzene	34.72	105	1568933	7.9467	ppbV	#	S	1
168)	p-Diethylbenzene	34.96	119	1517842	8.0599	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	38.41	180	529373	6.7354	ppbV		S	98
174)	Hexachloro-1,3-butadiene	39.29	225	722819	7.4335	ppbV		S	96

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

Quantitation Report

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072923.D Vial: 1
Acq On : 30 Jul 2011 9:55 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 10:00 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072924.D Vial: 1
Acq On : 30 Jul 2011 10:56 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 10:04 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

PMD 8-1-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.45	81	748477	2.0000 ppbV	-0.01
82) Chlorobenzene-d5	27.03	117	900167	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.25	83	361851	1.8803 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 94.00%	
65) Fluorobenzene	19.88	96	1162910	2.5308 ppbV	0.00
Spiked Amount 2.000			Recovery	= 126.50%	
113) Toluene-d8	23.79	98	1086277	1.8929 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	
115) 1,4-Dichlorobutane	28.90	90	132387	1.6395 ppbV	0.00
Spiked Amount 2.000			Recovery	= 82.00%	
141) 1,4-Bromofluorobenzene	29.98	95	613653	1.7039 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.00%	

Target Compounds						Qvalue
3) Ethylene	4.13	26	137891	12.2399 ppbV	S	95
4) Acetylene	4.24	26	272045	6.4135 ppbV	S	97
5) Ethane	4.33	26	102871	8.3198 ppbV	S	100
7) Propylene	5.94	41	635948	8.1613 ppbV	S	92
9) Propane	6.09	43	283733	7.9640 ppbV	S	88
10) Dichlorodifluoromethane	6.58	85	3410430	10.3531 ppbV	S	98
11) Chloromethane	7.43	50	849710	8.4320 ppbV	S	98
12) Isobutane	8.08	43	1613384	7.8720 ppbV	S	97
13) Halocarbon 114	8.28	85	3337678	9.6681 ppbV	S	99
15) Vinyl chloride	8.52	62	1118001	9.3330 ppbV	S	98
16) 1-Butene/Isobutene	8.97	41	1088327	7.6280 ppbV	S	89
17) 1,3-Butadiene	9.08	39	687446	8.6418 ppbV	S	88
18) n-Butane	9.24	43	1384242	7.5843 ppbV	S	97
20) trans-2-Butene	9.63	41	955631	7.5448 ppbV	S	93
23) Bromomethane	9.81	94	1214557	10.9382 ppbV	S	96
24) cis-2-Butene	10.12	41	966806	7.8200 ppbV	S	95
25) Chloroethane	10.40	64	567951	9.5482 ppbV	S	94
27) 3-Methyl-1-butene	11.24	55	1904612	7.7549 ppbV	S	95
31) Isopentane	11.88	41	853437	7.1425 ppbV	S	78
32) Trichlorofluoromethane	12.15	101	3597838	10.6326 ppbV	S	99
33) 1-Pentene	12.47	42	919682	8.3149 ppbV #	S	1
37) n-Pentane	12.90	43	1300384	6.9058 ppbV	S	92
39) Isoprene	13.08	67	1116856	11.6028 ppbV	S	85
40) trans-2-Pentene	13.23	55	1561072	11.6081 ppbV	S	90
41) 1,1-Dichloroethene	13.34	61	1585688	9.6555 ppbV	S	82
42) cis-2-Pentene	13.54	55	1521981	11.2624 ppbV	S	89
43) Methylene chloride	13.67	49	856105	9.4915 ppbV	S	83
44) 2-Methyl-2-butene	13.73	55	1639001	11.7451 ppbV	S	88
46) 3-Chloropropene	13.84	41	620060	8.3993 ppbV	S	88
47) Halocarbon 113	14.14	151	2131683	14.3270 ppbV	S	91
48) Neohexane	14.31	43	1253756	7.7813 ppbV	S	84
49) Cyclopentene	15.03	67	2076845	10.7329 ppbV	S	89
50) trans-1,2-Dichloroethene	15.19	61	1281659	11.2505 ppbV	S	86
51) 4-Methyl-1-pentene	15.22	43	1129595	8.8922 ppbV	S	81
53) 1,1-Dichloroethane	15.48	63	1573606	12.2090 ppbV	S	98

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072924.D Vial: 1
Acq On : 30 Jul 2011 10:56 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 10:04 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	15.49	42	1337127	6.7461	ppbV		S	87
55)	2,3-Dimethylbutane	15.58	43	1928612	7.7983	ppbV		S	91
56)	Methyl tert-butyl ether	15.70	73	3254539	13.1778	ppbV		S	89
57)	Isohexane	15.78	42	920564	8.4612	ppbV	#	S	82
63)	Chloroprene	16.37	53	1336700	13.2156	ppbV		S	84
64)	3-Methylpentane	16.39	57	1846710	9.4670	ppbV		S	88
66)	2-Methyl-1-pentene	16.62	56	1341363m	12.8065	ppbV		S	
67)	1-Hexene	16.66	41	675621	10.5725	ppbV		S	78
68)	cis-1,2-Dichloroethene	16.80	61	1244487	14.3253	ppbV		S	85
69)	Bromochloromethane	17.04	130	881485	21.5605	ppbV		S	86
71)	n-Hexane	17.15	57	1407299	11.4894	ppbV		S	84
72)	Chloroform	17.27	83	2075059	15.7776	ppbV		S	97
74)	trans-2-Hexene	17.36	55	1593637	15.5448	ppbV		S	92
77)	cis-2-Hexene	17.76	55	1317583	14.7130	ppbV		S	91
78)	Methylcyclopentane	18.30	56	1829038	9.8467	ppbV	#	S	1
79)	1,2-Dichloroethane	18.32	62	1403719	17.5643	ppbV	#	S	6
80)	2,4-Dimethylpentane	18.47	43	1795546	9.3960	ppbV	#	S	1
81)	1,1,1-Trichloroethane	18.68	97	2664964	14.5088	ppbV		S	98
84)	Benzene	19.36	78	2846726	11.8167	ppbV		S	87
85)	Carbon tetrachloride	19.59	117	2683297	11.8186	ppbV	#	S	1
87)	Cyclohexane	19.76	56	1722944	7.3667	ppbV	#	S	100
88)	Isoheptane	20.12	43	1681320	7.8253	ppbV	#	S	29
89)	2,3-Dimethylpentane	20.21	56	1835868	8.2965	ppbV	#	S	66
91)	3-Methylhexane	20.51	43	1380060	8.0013	ppbV	#	S	72
92)	1,2-Dichloropropane	20.63	63	977949	10.4736	ppbV	#	S	1
93)	Bromodichloromethane	20.95	83	2132412	11.3037	ppbV	#	S	1
94)	Trichloroethene	21.01	130	1443353	13.7288	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	21.09	57	4655006	8.3390	ppbV	#	S	1
98)	2-Chloropentane	21.32	70	1550089	11.3697	ppbV		S	87
100)	n-Heptane	21.55	71	1080706	10.9229	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	22.40	75	1668713	12.4484	ppbV	#	S	1
106)	Methylcyclohexane	22.50	83	2171526	10.9746	ppbV		S	76
110)	trans-1,3-Dichloropropene	23.27	75	1757210	14.5212	ppbV	#	S	1
111)	1,1,2-Trichloroethane	23.52	97	1229938	13.0226	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	23.73	43	2260813	8.3303	ppbV	#	S	60
114)	Toluene	23.96	91	3595794	13.3482	ppbV	#	S	1
117)	2-Methylheptane	24.36	43	1644467	9.0188	ppbV	#	S	10
119)	Dibromochloromethane	24.66	129	2252988	14.0064	ppbV	#	S	80
120)	3-Methylheptane	24.68	85	1500561	11.7604	ppbV	#	S	78
122)	1,2-Dibromoethane	25.06	107	1991980	13.6392	ppbV	#	S	1
125)	n-Octane	25.75	43	1785566	9.3404	ppbV	#	S	71
126)	Tetrachloroethene	25.89	164	1480102	19.3233	ppbV		S	96
128)	Chlorobenzene	27.10	112	2751938	14.3648	ppbV	#	S	1
129)	Ethylbenzene	27.84	91	4356168	16.4230	ppbV		S	95
130)	m/p-Xylene	28.21	91	7275896m	28.7803	ppbV		S	
131)	Bromoform	28.26	173	1874781	16.5624	ppbV	#	S	100
134)	Styrene	28.87	104	2542817	17.0467	ppbV	#	S	1
135)	1,1,2,2-Tetrachloroethane	29.07	83	2155533	10.8102	ppbV		S	99
136)	o-Xylene	29.07	91	3341498	15.0771	ppbV	#	S	100
140)	n-Nonane	29.64	43	1803006	9.5958	ppbV	#	S	73
142)	Isopropylbenzene	30.29	105	4738903	15.2494	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072924.D Vial: 1
Acq On : 30 Jul 2011 10:56 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 10:04 19111 Quant Results File: QA110705.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration
DataAcq Meth : QA110705

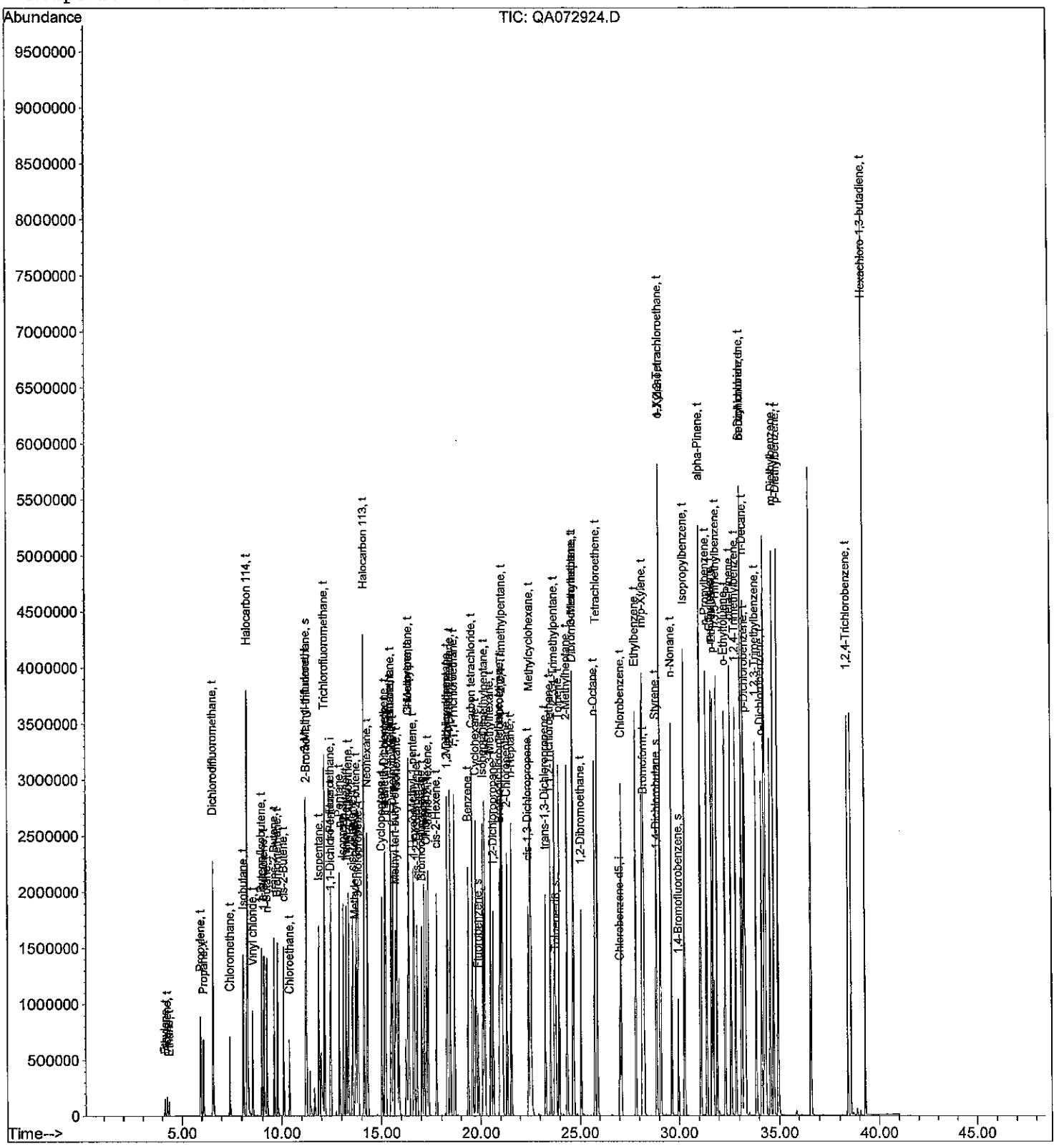
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
144)	alpha-Pinene	31.09	93	3799769	15.6094 ppbV # S	64
147)	n-Propylbenzene	31.39	91	5359357	12.2435 ppbV # S	34
148)	m-Ethyltoluene	31.65	105	4086404	15.2839 ppbV # S	1
149)	p-Ethyltoluene	31.73	105	4020147	12.9298 ppbV # S	1
150)	1,3,5-Trimethylbenzene	31.92	105	3690487	13.8118 ppbV # S	1
151)	o-Ethyltoluene	32.32	105	3835161	14.1380 ppbV S	96
152)	beta-Pinene	32.61	93	2769153	9.1619 ppbV # S	1
153)	1,2,4-Trimethylbenzene	32.85	105	3472547	13.2266 ppbV # S	1
156)	Benzyl chloride	33.13	91	3064256	14.2224 ppbV S	77
157)	m-Dichlorobenzene	33.15	146	2217692	12.5933 ppbV # S	35
158)	n-Decane	33.26	57	2794914	12.1108 ppbV S	91
159)	p-Dichlorobenzene	33.32	146	2070292	12.0244 ppbV S	94
161)	1,2,3-Trimethylbenzene	33.87	105	3275967	12.3219 ppbV # S	1
163)	o-Dichlorobenzene	34.14	146	1990313	12.9328 ppbV S	97
167)	m-Diethylbenzene	34.72	105	3005259	12.8018 ppbV # S	1
168)	p-Diethylbenzene	34.96	119	2999750	13.3966 ppbV # S	1
172)	1,2,4-Trichlorobenzene	38.41	180	1215129	13.0026 ppbV S	98
174)	Hexachloro-1,3-butadiene	39.29	225	1507738	13.0405 ppbV S	96

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

Quantitation Report

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110729\QA072924.D Vial: 1
Acq On : 30 Jul 2011 10:56 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01064;102 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 10:04 19111 Quant Results File: QA110705.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110705.M (RTE Integrator)
Title :
Last Update : Thu Jul 07 10:57:44 2011
Response via : Initial Calibration



Response Factor Report GCMS-R1

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration

8-25-11

Calibration Files
20 =RA082414.D 50 =RA082415.D 100 =RA082416.D
250 =RA082417.D 500 =RA082418.D 750 =RA082419.D

1000 =RA082420.D 20A =RA082405.D 50A =RA082406.D 100A =RA082407.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	0.409	0.404	0.403	0.400	0.405	0.419	0.436	0.402	0.405	0.402	0.40874	2.50
3)	t	Ethylene	0.067	0.064	0.064	0.061	0.058	0.064	0.066				0.06344	4.66
4)	t	Acetylene	0.141	0.116	0.112	0.109	0.111	0.117	0.123				0.11842	9.33
5)	t	Ethane	0.051	0.044	0.040	0.031	0.029	0.026	0.027				0.03545	27.14
6)	t	Halocarbon 134A								0.273	0.239	0.220	0.22989	8.93
7)	t	Propylene	0.209	0.173	0.171	0.163	0.169	0.180	0.188				0.17898	8.66
8)	t	Chlorodifluorometha								0.641	0.552	0.511	0.52705	10.38
9)	t	Propane	0.102	0.079	0.078	0.075	0.076	0.080	0.085				0.08221	11.54
10)	t	Dichlorodifluoromet	1.306	1.013	1.018	0.955	0.932	0.957	0.967				1.02109	12.67
11)	t	Chloromethane	0.307	0.245	0.237	0.232	0.231	0.246	0.256				0.25071	10.43
12)	t	Isobutane	0.632	0.501	0.500	0.479	0.484	0.509	0.529				0.51901	10.10
13)	t	Halocarbon 114	1.165	0.935	0.881	0.835	0.820	0.845	0.866				0.90670	13.23
14)	t	Acetaldehyde								0.127	0.108	0.119	0.11350	6.31
15)	t	Vinyl chloride	0.352	0.274	0.268	0.262	0.265	0.283	0.293				0.28535	10.98
16)	t	1-Butene/Isobutene	0.441	0.362	0.347	0.338	0.341	0.359	0.371				0.36555	9.63
17)	t	1,3-Butadiene	0.278	0.227	0.220	0.214	0.214	0.221	0.227				0.22854	9.78
18)	t	n-Butane	0.559	0.457	0.430	0.416	0.417	0.435	0.453				0.45244	10.98
19)	t	Methanol								0.084	0.066	0.057	0.05760	23.12
20)	t	trans-2-Butene	0.415	0.340	0.323	0.311	0.313	0.329	0.338				0.33847	10.45
21)	t	Neopentane								1.061	0.932	0.863	0.90304	8.30
22)	t	Dichlorofluorometha								0.776	0.702	0.644	0.65682	9.29
23)	t	Bromomethane	0.327	0.264	0.250	0.240	0.243	0.254	0.262				0.26279	11.23
24)	t	cis-2-Butene	0.410	0.335	0.322	0.308	0.313	0.324	0.336				0.33533	10.31
25)	t	Chloroethane	0.190	0.151	0.142	0.136	0.138	0.147	0.153				0.15086	12.07
26)	t	Vinyl bromide								0.299	0.271	0.254	0.26098	7.03
27)	t	3-Methyl-1-butene	0.840	0.660	0.622	0.609	0.604	0.624	0.641				0.65714	12.58
28)	t	Ethanol								0.119	0.079	0.118	0.09257	19.91
29)	t	Acetonitrile								0.232	0.218	0.208	0.21444	3.98
30)	t	Acrolein								0.102	0.094	0.096	0.09670	3.55
31)	t	Isopentane	0.434	0.347	0.330	0.308	0.301	0.322	0.328				0.33859	13.16
32)	t	Trichlorofluorometh	1.219	0.990	0.925	0.857	0.832	0.828	0.815				0.92391	15.66
33)	t	1-Pentene	0.457	0.370	0.344	0.334	0.334	0.344	0.348				0.36147	12.10
34)	t	Acetone								0.626	0.554	0.521	0.52482	9.62
35)	T	2-Propanol								0.526	0.442	0.403	0.39617	18.31
36)	t	Acrylonitrile								0.194	0.170	0.173	0.17524	4.85
37)	t	n-Pentane	0.616	0.495	0.466	0.449	0.441	0.451	0.455				0.48193	12.79
38)	T	Diethyl ether								0.137	0.120	0.115	0.11951	6.80
39)	t	Isoprene	0.410	0.327	0.305	0.302	0.301	0.315	0.323				0.32632	11.79

40)	t	trans-2-Pentene	0.678	0.553	0.521	0.512	0.508	0.525	0.535				0.54743	10.87
41)	t	1,1-Dichloroethene	0.671	0.539	0.514	0.488	0.481	0.486	0.488				0.52371	13.02
42)	t	cis-2-Pentene	0.653	0.558	0.521	0.508	0.503	0.522	0.530				0.54209	9.57
43)	t	Methylene chloride	0.444	0.367	0.344	0.326	0.321	0.327	0.329				0.35114	12.56
44)	t	2-Methyl-2-butene	0.679	0.564	0.526	0.519	0.515	0.532	0.538				0.55322	10.44
45)	t	Carbon Disulfide								0.934	0.847	0.781	0.80356	8.09
46)	t	3-Chloropropene	0.379	0.336	0.312	0.305	0.301	0.309	0.312				0.32217	8.52
47)	t	Halocarbon 113	0.475	0.384	0.357	0.338	0.329	0.333	0.336				0.36445	14.42
48)	t	Neohexane	0.501	0.415	0.388	0.366	0.359	0.370	0.372				0.39594	12.63
49)	t	Cyclopentene	0.754	0.611	0.587	0.564	0.562	0.582	0.581				0.60595	11.12
50)	t	trans-1,2-Dichloroe	0.552	0.452	0.419	0.402	0.391	0.399	0.481				0.44222	13.14
51)	t	4-Methyl-1-pentene	0.507	0.414	0.383	0.371	0.368	0.373	0.459				0.41051	13.03
52)	T	1-Propanol								0.047	0.046	0.039	0.03770	18.18
53)	t	1,1-Dichloroethane	0.771	0.634	0.591	0.567	0.571	0.585	0.595				0.61623	11.65
54)	t	Cyclopentane	0.636	0.529	0.513	0.488	0.492	0.508	0.525				0.52737	9.57
55)	t	2,3-Dimethylbutane	0.879	0.710	0.663	0.645	0.645	0.676	0.696				0.70206	11.63
56)	T	Methyl tert-butyl e	1.004	0.858	0.828	0.807	0.816	0.855	0.886				0.86488	7.75
57)	t	Isohexane	0.453	0.359	0.340	0.328	0.326	0.343	0.355				0.35799	12.25
58)	t	Vinyl acetate								0.902	0.815	0.801	0.83538	4.53
59)	t	cis-4-Methyl-2-pent								0.603	0.559	0.523	0.54093	5.79
60)	t	trans-4-Methyl-2-pe								0.723	0.630	0.603	0.62581	7.12
61)	T	Butyraldehyde								0.055	0.050	0.048	0.05054	4.99
62)	t	2-Butanone								0.684	0.636	0.633	0.63716	3.78
63)	t	Chloroprene	0.721	0.597	0.556	0.570	0.572	0.584	0.585				0.59799	9.30
64)	t	3-Methylpentane	0.723	0.592	0.566	0.544	0.547	0.574	0.596				0.59181	10.32
65)	s	Fluorobenzene	0.902	0.917	0.910	0.970	1.046	1.117	1.173	0.865	0.868	0.882	0.97267	10.07
66)	t	2-Methyl-1-pentene	0.594	0.521	0.537	0.508	0.501	0.516	0.558				0.53365	6.12
67)	t	1-Hexene	0.435	0.328	0.341	0.329	0.310	0.330	0.311				0.34077	12.65
68)	t	cis-1,2-Dichloroeth	0.577	0.466	0.447	0.443	0.441	0.458	0.465				0.47086	10.18
69)	t	Bromochloromethane	0.265	0.214	0.204	0.198	0.197	0.206	0.212				0.21387	11.06
70)	t	2-Ethyl-1-butene								0.358	0.323	0.315	0.32848	4.95
71)	t	n-Hexane	0.558	0.467	0.457	0.451	0.464	0.488	0.509				0.48467	7.80
72)	t	Chloroform	0.947	0.778	0.712	0.703	0.702	0.722	0.721				0.75514	11.71
73)	t	cis-3-Hexene								0.440	0.405	0.387	0.40822	4.91
74)	t	trans-2-Hexene	0.670	0.590	0.553	0.565	0.581	0.609	0.629				0.59974	6.74
75)	t	2-Methyl-2-pentene								0.587	0.544	0.511	0.53084	5.18
76)	t	cis-3-Methyl-2-pent								0.440	0.386	0.374	0.39021	5.94
77)	t	cis-2-Hexene	0.574	0.505	0.492	0.494	0.512	0.545	0.558				0.52570	6.23
78)	t	Methylcyclopentane	0.706	0.610	0.579	0.564	0.581	0.610	0.633				0.61201	7.81
79)	t	1,2-Dichloroethane	0.726	0.631	0.561	0.575	0.572	0.583	0.570				0.60259	9.80
80)	t	2,4-Dimethylpentane	0.842	0.693	0.667	0.637	0.653	0.674	0.690				0.69380	9.87
81)	t	1,1,1-Trichloroetha	1.037	0.854	0.816	0.778	0.772	0.783	0.787				0.83238	11.37
82)	i	Chlorobenzene-d5	----------ISTD----------											
83)	T	Methylcyclopentene								2.163	2.012	1.889	1.82949	11.52
84)	t	Benzene	2.236	1.814	1.749	1.623	1.461	1.412	1.387				1.66879	17.97
85)	t	Carbon tetrachlorid	2.843	2.210	2.159	1.856	1.558	1.421	1.332				1.91116	28.03
86)	T	1-Butanol								0.577	0.534	0.527	0.52203	7.50
87)	t	Cyclohexane	1.631	1.345	1.278	1.092	0.968	0.909	0.897				1.16016	23.44
88)	t	Isoheptane	2.364	1.935	1.894	1.665	1.418	1.338	1.318				1.70453	22.61
89)	t	2,3-Dimethylpentane	2.065	1.639	1.570	1.368	1.199	1.135	1.109				1.44071	23.91
90)	T	Cyclohexene								1.523	1.387	1.263	1.22838	14.63
91)	t	3-Methylhexane	1.897	1.517	1.482	1.309	1.150	1.073	1.038				1.35235	22.60
92)	t	1,2-Dichloropropane	0.881	0.704	0.674	0.638	0.576	0.566	0.554				0.65615	17.44
93)	t	Bromodichloromethan	2.210	1.844	1.709	1.604	1.426	1.354	1.278				1.63194	19.86

94)	t	Trichloroethene	0.943	0.750	0.696	0.686	0.624	0.599	0.565				0.69490	18.18
95)	T	1,4-Dioxane								0.473	0.339	0.258	0.27088	37.67
96)	T	1-Heptene								0.739	0.693	0.661	0.64193	9.86
97)	t	2,2,4-Trimethylpent	5.598	4.471	4.303	3.782	3.269	3.091	2.998				3.93026	23.80
98)	t	2-Chloropentane	1.183	1.016	1.010	0.962	0.881	0.849	0.835				0.96244	12.70
99)	t	trans-3-Heptene								1.298	1.161	1.112	1.08986	10.99
100)	t	n-Heptane	0.870	0.695	0.712	0.644	0.588	0.571	0.562				0.66317	16.36
101)	T	cis-3-Heptene								1.295	1.237	1.172	1.12432	10.83
102)	T	trans-2-Heptene								1.035	1.017	0.964	0.95250	6.39
103)	T	2,4,4-Trimethyl-1-p								3.255	3.010	2.719	2.60919	16.01
104)	t	cis-1,3-Dichloropro	1.020	0.868	0.775	0.856	0.815	0.811	0.760				0.84361	10.32
105)	T	Methylisobutylketon								2.053	1.756	1.605	1.63046	13.38
106)	t	Methylcyclohexane	1.749	1.441	1.425	1.234	1.072	1.021	1.000				1.27726	21.62
107)	T	2,4,4-Trimethyl-2-p								2.494	2.291	2.084	1.98242	16.93
108)	T	2,5-Dimethylhexane								2.421	2.187	1.954	1.88878	17.20
109)	T	2,2,3-Trimethylpent								4.113	3.758	3.345	3.22586	17.42
110)	t	trans-1,3-Dichlorop	0.916	0.787	0.718	0.787	0.751	0.750	0.694				0.77188	9.33
111)	t	1,1,2-Trichloroetha	0.627	0.554	0.509	0.492	0.469	0.467	0.455				0.51043	11.99
112)	t	2,3,4-Trimethylpent	3.252	2.534	2.465	2.174	1.885	1.774	1.704				2.25554	24.24
113)	s	Toluene-d8	1.754	1.772	1.806	1.780	1.746	1.725	1.737	1.706	1.751	1.722	1.75488	1.60
114)	t	Toluene	1.848	1.543	1.498	1.475	1.405	1.404	1.382				1.50795	10.67
115)	s	1,4-Dichlorobutane	0.137	0.141	0.141	0.143	0.142	0.156	0.146	0.141	0.142	0.143	0.14162	3.56
116)	t	2-Hexanone								1.427	1.301	0.983	1.06823	19.35
117)	t	2-Methylheptane	2.186	1.798	1.794	1.534	1.407	1.314	1.270				1.61479	20.39
118)	T	1-Methylcyclohexene								1.370	1.323	1.234	1.21557	8.98
119)	t	Dibromochloromethan	1.157	0.990	0.927	0.888	0.827	0.808	0.761				0.90835	14.74
120)	t	3-Methylheptane	1.213	1.019	1.004	0.898	0.807	0.773	0.765				0.92558	17.74
121)	T	Hexanal								0.205	0.182	0.151	0.16680	11.88
122)	t	1,2-Dibromoethane	0.899	0.741	0.610	0.672	0.627	0.626	0.574				0.67832	16.36
123)	T	2,2,5-Trimethylhexa								4.899	4.543	4.097	3.91739	16.55
124)	T	1-Octene								0.789	0.727	0.721	0.71769	5.43
125)	t	n-Octane	1.787	1.587	1.606	1.503	1.394	1.346	1.306				1.50414	11.31
126)	t	Tetrachloroethene	0.711	0.596	0.550	0.536	0.511	0.508	0.496				0.55827	13.47
127)	T	cis-2-Octene								0.999	0.915	0.923	0.93602	3.72
128)	t	Chlorobenzene	0.941	0.827	0.774	0.763	0.741	0.751	0.728				0.78928	9.40
129)	t	Ethylbenzene	1.633	1.462	1.548	1.521	1.493	1.521	1.483				1.52283	3.69
130)	t	m/p-Xylene	1.482	1.327	1.349	1.310	1.273	1.277	1.233				1.32164	6.09
131)	t	Bromoform	0.698	0.591	0.562	0.534	0.504	0.499	0.470				0.55126	13.84
132)	T	Butyl acrylate								1.204	1.309	1.281	1.16271	12.44
133)	T	Heptanal								0.288	0.294	0.278	0.26820	8.70
134)	t	Styrene	0.691	0.594	0.608	0.613	0.613	0.634	0.619				0.62459	5.08
135)	t	1,1,2,2-Tetrachloro	1.043	0.841	0.833	0.815	1.047	1.067	1.100				0.96387	13.18
136)	t	o-Xylene	1.541	1.377	1.407	1.355	1.303	1.294	1.235				1.35868	7.27
137)	T	1-Nonene								0.560	0.561	0.564	0.58383	3.73
138)	t	cis-4-Nonene								1.194	1.173	1.130	1.17405	2.40
139)	t	trans-4-Nonene								1.213	1.155	1.089	1.12632	5.93
140)	t	n-Nonane	1.405	1.290	1.361	1.277	1.228	1.209	1.147				1.27385	6.97
141)	s	1,4-Bromofluorobenz	0.668	0.666	0.680	0.655	0.648	0.670	0.642	0.662	0.663	0.656	0.65748	2.07
142)	t	Isopropylbenzene	2.304	2.088	2.159	2.077	2.039	2.082	1.955				2.10060	5.17
143)	T	Benzaldehyde								0.566	0.626	0.479	0.53865	14.59
144)	t	alpha-Pinene	3.159	2.653	2.645	2.355	2.050	1.944	1.879				2.38357	19.55
145)	T	o/m-Chlorotoluene								1.027	0.939	0.902	0.93606	4.69
146)	T	p-Chlorotoluene								0.907	0.834	0.818	0.84188	3.83
147)	t	n-Propylbenzene	1.944	1.671	1.791	1.749	2.005	2.443	2.234				1.97675	14.09
148)	t	m-Ethyltoluene	1.453	1.254	1.316	1.331	1.820	2.041	2.073				1.61273	22.07

149)	t	p-Ethyltoluene	1.283	1.147	1.196	1.189	1.648	1.879	1.893				1.46195	22.87
150)	t	1,3,5-Trimethylbenz	1.570	1.376	1.389	1.477	1.978	2.015	2.111				1.70224	18.80
151)	t	o-Ethyltoluene	1.619	1.469	1.519	1.607	2.248	2.314	2.439				1.88778	22.44
152)	t	beta-Pinene	3.027	2.576	2.612	2.372	2.128	2.045	1.952				2.38765	15.94
153)	t	1,2,4-Trimethylbenz	1.313	1.121	1.129	1.403	1.858	1.901	2.038				1.53773	25.09
154)	T	tert-Butylbenzene								1.983	1.896	1.885	1.98826	5.13
155)	T	1-Decene								0.428	0.391	0.386	0.52108	28.11
156)	t	Benzyl chloride	0.788	0.555	0.454	1.019	1.038	1.141	1.261				0.89379	33.94
157)	t	m-Dichlorobenzene	0.561	0.464	0.460	0.534	0.783	0.784	0.867				0.63605	26.72
158)	t	n-Decane	1.761	1.381	1.172	1.664	1.591	1.587	1.612				1.53827	12.87
159)	t	p-Dichlorobenzene	0.515	0.432	0.420	0.557	0.763	0.754	0.829				0.61008	27.77
160)	T	Isobutylbenzene								1.732	1.654	1.623	2.08561	24.73
161)	t	1,2,3-Trimethylbenz	1.610	1.264	1.247	2.032	2.068	2.129	2.247				1.79965	23.39
162)	T	p-Isopropyltoluene								1.402	1.237	1.197	1.79579	34.63
163)	t	o-Dichlorobenzene	0.631	0.486	0.420	0.773	0.812	0.834	0.939				0.69945	27.46
164)	T	Limonene								0.724	0.727	0.691	0.94127	28.72
165)	T	Indan								0.801	0.709	0.689	1.03439	38.19
166)	T	Indene								0.553	0.501	0.484	0.90363	52.60
167)	t	m-Diethylbenzene	1.731	1.408	1.019	1.578	1.477	1.589	1.617				1.48844	15.54
168)	t	p-Diethylbenzene	1.424	1.129	0.818	1.297	1.198	1.345	1.381				1.22752	16.94
169)	T	n-Butylbenzene								1.427	1.202	1.009	1.73340	32.97
170)	T	1-Undecene								0.819	0.905	0.850	0.86908	3.82
171)	T	n-Undecane								1.908	2.159	2.115	2.12773	4.90
172)	t	1,2,4-Trichlorobenz	0.799	0.758	0.864	0.762	0.590	0.584	0.927				0.75482	17.10
173)	T	Naphthalene								1.729	2.099	2.082	2.34807	16.91
174)	t	Hexachloro-1,3-buta	1.368	1.246	1.342	1.201	0.889	0.780	1.086				1.13022	19.87

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

RA110824.M Thu Aug 25 13:00:26 2011 DAH

Calibration Table Report
Method: RA110824.M
Title:
Last Calibration: Thu Aug 25 12:26:45 2011

Calibration Files

Compound	20	50	100	250	500	750	1000	20A	50A	100A	250A	500A	750A	999A	Avg	%RSD
	RA082414.	RA082415.	RA082416.	RA082417.	RA082418.	RA082419.	RA082420.	RA082405.	RA082406.	RA082407.	RA082408.	RA082409.	RA082410.	RA082411.D		
1,1-Dichloro-1-Fluoroethane	ISTD															
2-Bromo-1,1,1-trifluoroethane	0.409	0.404	0.403	0.400	0.405	0.419	0.436	0.402	0.405	0.402	0.402	0.401	0.413	0.422	0.40874	2.50
Ethylene	0.067	0.064	0.064	0.061	0.058	0.064	0.066								0.06344	4.66
Acetylene	0.141	0.116	0.112	0.109	0.111	0.117	0.123								0.11842	9.33
Ethane	0.051	0.044	0.040	0.031	0.029	0.026	0.027								0.03545	27.14
Halocarbon 134A								0.273	0.239	0.220	0.218	0.214	0.220	0.226	0.22989	8.93
Propylene	0.209	0.173	0.171	0.163	0.169	0.180	0.188								0.17898	8.66
Chlorodifluoromethane								0.641	0.552	0.511	0.500	0.487	0.495	0.502	0.52705	10.38
Propane	0.102	0.079	0.078	0.075	0.076	0.080	0.085					0.487			0.08221	11.54
Dichlorodifluoromethane	1.306	1.013	1.018	0.955	0.932	0.957	0.967								1.02109	12.67
Chloromethane	0.307	0.245	0.237	0.232	0.231	0.246	0.256								0.25071	10.43
Isobutane	0.632	0.501	0.500	0.479	0.484	0.509	0.529								0.51901	10.10
Halocarbon 114	1.165	0.935	0.881	0.835	0.820	0.845	0.866								0.90670	13.23
Acetaldehyde								0.127	0.108	0.119	0.109	0.108	0.111	0.113	0.11350	6.31
Vinyl chloride	0.352	0.274	0.268	0.262	0.265	0.283	0.293								0.28535	10.98
1-Butene/Isobutene	0.441	0.362	0.347	0.338	0.341	0.359	0.371								0.36555	9.63
1,3-Butadiene	0.278	0.227	0.220	0.214	0.214	0.221	0.227								0.22854	9.78
n-Butane	0.559	0.457	0.430	0.416	0.417	0.435	0.453								0.45244	10.98
Methanol					0.417			0.084	0.066	0.057	0.051	0.048	0.049	0.048	0.05760	23.12
trans-2-Butene	0.415	0.340	0.323	0.311	0.313	0.329	0.338								0.33847	10.45
Neopentane								1.061	0.932	0.863	0.863	0.843	0.870	0.889	0.90304	8.30
Dichlorofluoromethane								0.776	0.702	0.644	0.629	0.610	0.616	0.620	0.65682	9.29
Bromomethane	0.327	0.264	0.250	0.240	0.243	0.254	0.262								0.26279	11.23
cis-2-Butene	0.410	0.335	0.322	0.308	0.313	0.324	0.336								0.33533	10.31
Chloroethane	0.190	0.151	0.142	0.136	0.138	0.147	0.153								0.15086	12.07
Vinyl bromide								0.299	0.271	0.254	0.249	0.246	0.251	0.257	0.26098	7.03
3-Methyl-1-butene	0.840	0.660	0.622	0.609	0.604	0.624	0.641								0.65714	12.58
Ethanol								0.119	0.079	0.118	0.091	0.083	0.082	0.075	0.09257	19.91
Acetonitrile								0.232	0.218	0.208	0.208	0.207	0.213	0.215	0.21444	3.98
Acrolein								0.102	0.094	0.096	0.093	0.093	0.099	0.100	0.09670	3.55
Isopentane	0.434	0.347	0.330	0.308	0.301	0.322	0.328								0.33859	13.16
Trichlorofluoromethane	1.219	0.990	0.925	0.857	0.832	0.828	0.815								0.92391	15.66
1-Pentene	0.457	0.370	0.344	0.334	0.334	0.344	0.348								0.36147	12.10
Acetone								0.626	0.554	0.521	0.501	0.485	0.492	0.494	0.52482	9.62
2-Propanol								0.526	0.442	0.403	0.377	0.379	0.348	0.299	0.39617	18.31
Acrylonitrile								0.194	0.170	0.173	0.171	0.170	0.172	0.178	0.17524	4.85
n-Pentane	0.616	0.495	0.466	0.449	0.441	0.451	0.455								0.48193	12.79
Diethyl ether								0.137	0.120	0.115	0.117	0.114	0.116	0.118	0.11951	6.80
Isoprene	0.410	0.327	0.305	0.302	0.301	0.315	0.323								0.32632	11.79
trans-2-Pentene	0.678	0.553	0.521	0.512	0.508	0.525	0.535								0.54743	10.87
1,1-Dichloroethene	0.671	0.539	0.514	0.488	0.481	0.486	0.488								0.52371	13.02
cis-2-Pentene	0.653	0.558	0.521	0.508	0.503	0.522	0.530								0.54209	9.57
Methylene chloride	0.444	0.367	0.344	0.326	0.321	0.327	0.329								0.35114	12.56
2-Methyl-2-butene	0.679	0.564	0.526	0.519	0.515	0.532	0.538								0.55322	10.44
Carbon Disulfide								0.934	0.847	0.781	0.775	0.749	0.766	0.773	0.80356	8.09
3-Chloropropene	0.379	0.336	0.312	0.305	0.301	0.309	0.312								0.32217	8.52
Halocarbon 113	0.475	0.384	0.357	0.338	0.329	0.333	0.336								0.36445	14.42
Neohexane	0.501	0.415	0.388	0.366	0.359	0.370	0.372								0.39594	12.63
Cyclopentene	0.754	0.611	0.587	0.564	0.562	0.582	0.581								0.60595	11.12
trans-1,2-Dichloroethene	0.552	0.452	0.419	0.402	0.391	0.399	0.481								0.44222	13.14
4-Methyl-1-pentene	0.507	0.414	0.383	0.371	0.368	0.373	0.459								0.41051	13.03
1-Propanol								0.047	0.046	0.039	0.035	0.037	0.033	0.028	0.03770	18.18
1,1-Dichloroethane	0.771	0.634	0.591	0.567	0.571	0.585	0.595								0.61623	11.65
Cyclopentane	0.636	0.529	0.513	0.488	0.492	0.508	0.525								0.52737	9.57
2,3-Dimethylbutane	0.879	0.710	0.663	0.645	0.645	0.676	0.696								0.70206	11.63
Methyl tert-butyl ether	1.004	0.858	0.828	0.807	0.816	0.855	0.886								0.86488	7.75
Isohexane	0.453	0.359	0.340	0.328	0.326	0.343	0.355								0.35800	12.25

	Vinyl acetate								0.902	0.815	0.801	0.828	0.795	0.844	0.863	0.83538	4.53
	cis-4-Methyl-2-pentene								0.603	0.559	0.523	0.519	0.515	0.527	0.541	0.54093	5.79
	trans-4-Methyl-2-pentene								0.723	0.630	0.603	0.600	0.592	0.611	0.621	0.62581	7.12
	Butyraldehyde								0.055	0.050	0.048	0.049	0.049	0.051	0.052	0.05054	4.99
	2-Butanone								0.684	0.636	0.633	0.624	0.605	0.635	0.643	0.63716	3.78
	Chloroprene	0.721	0.597	0.556	0.570	0.572	0.584	0.585								0.59799	9.30
	3-Methylpentane	0.723	0.592	0.566	0.544	0.547	0.574	0.596								0.59181	10.32
	Fluorobenzene	0.902	0.917	0.910	0.970	1.046	1.117	1.173	0.865	0.868	0.882	0.921	0.947	1.034	1.065	0.97267	10.07
	2-Methyl-1-pentene	0.594	0.521	0.537	0.508	0.501	0.516	0.558								0.53365	6.12
	1-Hexene	0.435	0.328	0.341	0.329	0.310	0.330	0.311								0.34077	12.65
	cis-1,2-Dichloroethene	0.577	0.466	0.447	0.443	0.441	0.458	0.465								0.47086	10.18
	Bromochloromethane	0.265	0.214	0.204	0.198	0.197	0.206	0.212								0.21387	11.06
	2-Ethyl-1-butene								0.358	0.323	0.315	0.314	0.318	0.331	0.340	0.32848	4.95
	n-Hexane	0.558	0.467	0.457	0.451	0.464	0.488	0.509								0.48467	7.80
	Chloroform	0.947	0.778	0.712	0.703	0.702	0.722	0.721								0.75514	11.71
	cis-3-Hexene								0.440	0.405	0.387	0.390	0.393	0.416	0.427	0.40823	4.91
	trans-2-Hexene	0.670	0.590	0.553	0.565	0.581	0.609	0.629								0.59974	6.74
	2-Methyl-2-pentene								0.587	0.544	0.511	0.514	0.508	0.523	0.528	0.53084	5.18
	cis-3-Methyl-2-pentene								0.440	0.386	0.374	0.376	0.374	0.386	0.395	0.39021	5.94
	cis-2-Hexene	0.574	0.505	0.492	0.494	0.512	0.545	0.558								0.52570	6.23
	Methylcyclopentane	0.706	0.610	0.579	0.564	0.581	0.610	0.633								0.61201	7.81
	1,2-Dichloroethane	0.726	0.631	0.561	0.575	0.572	0.583	0.570								0.60260	9.80
	2,4-Dimethylpentane	0.842	0.693	0.667	0.637	0.653	0.674	0.690								0.69380	9.87
	1,1,1-Trichloroethane	1.037	0.854	0.816	0.778	0.772	0.783	0.787								0.83238	11.37
	Chlorobenzene-d5	ISTD	0.439	0.383	0.499	0.606	0.607	0.756								0.54399	22.78
	Methylcyclopentene								2.163	2.012	1.889	1.821	1.727	1.615	1.580	1.82949	11.52
	Benzene	2.236	1.814	1.749	1.623	1.461	1.412	1.387								1.66879	17.97
	Carbon tetrachloride	2.843	2.210	2.159	1.856	1.558	1.421	1.332								1.91116	28.03
	1-Butanol								0.577	0.534	0.527	0.502	0.471			0.52203	7.50
	Cyclohexane	1.631	1.345	1.278	1.092	0.968	0.909	0.897								1.16016	23.44
	Isoheptane	2.364	1.935	1.894	1.665	1.418	1.338	1.318								1.70453	22.61
	2,3-Dimethylpentane	2.065	1.639	1.570	1.368	1.199	1.135	1.109								1.44071	23.91
	Cyclohexene								1.523	1.387	1.263	1.210	1.140	1.046	1.030	1.22838	14.63
	3-Methylhexane	1.897	1.517	1.482	1.309	1.150	1.073	1.038								1.35235	22.60
	1,2-Dichloropropane	0.881	0.704	0.674	0.638	0.576	0.566	0.554								0.65615	17.44
	Bromodichloromethane	2.210	1.844	1.709	1.604	1.426	1.354	1.278								1.63194	19.86
	Trichloroethene	0.943	0.750	0.696	0.686	0.624	0.599	0.565								0.69490	18.18
	1,4-Dioxane								0.473	0.339	0.258	0.201	0.202	0.214	0.208	0.27088	37.67
	1-Heptene								0.739	0.693	0.661	0.649	0.614	0.574	0.563	0.64193	9.86
	2,2,4-Trimethylpentane	5.598	4.471	4.303	3.782	3.269	3.091	2.998								3.93026	23.80
	2-Chloropentane	1.183	1.016	1.010	0.962	0.881	0.849	0.835								0.96244	12.70
	trans-3-Heptene								1.298	1.161	1.112	1.095	1.045	0.976	0.942	1.08986	10.99
	n-Heptane	0.870	0.695	0.712	0.644	0.588	0.571	0.562								0.66317	16.36
	cis-3-Heptene								1.295	1.237	1.172	1.132	1.076	0.994	0.964	1.12432	10.83
	trans-2-Heptene								1.035	1.017	0.964	0.955	0.938	0.885	0.873	0.95250	6.39
	2,4,4-Trimethyl-1-pentene								3.255	3.010	2.719	2.564	2.405	2.188	2.124	2.60919	16.01
	cis-1,3-Dichloropropene	1.02	0.868	0.775	0.856	0.815	0.811	0.76								0.84361	10.32
	Methylisobutylketone								2.053	1.756	1.605	1.6	1.544	1.447	1.410	1.63046	13.38
	Methylcyclohexane	1.749	1.441	1.425	1.234	1.072	1.021	1								1.27726	21.62
	2,4,4-Trimethyl-2-pentene								2.494	2.291	2.084	1.964	1.829	1.646	1.568	1.98242	16.93
	2,5-Dimethylhexane								2.421	2.187	1.954	1.824	1.732	1.575	1.528	1.88878	17.20
	2,2,3-Trimethylpentane								4.113	3.758	3.345	3.175	2.943	2.667	2.581	3.22586	17.42
	trans-1,3-Dichloropropene	0.916	0.787	0.718	0.787	0.751	0.75	0.694								0.77188	9.33
	1,1,2-Trichloroethane	0.627	0.554	0.509	0.492	0.469	0.467	0.455								0.51043	11.99
	2,3,4-Trimethylpentane	3.252	2.534	2.465	2.174	1.885	1.774	1.704								2.25554	24.24
	Toluene-d8	1.754	1.772	1.806	1.78	1.746	1.725	1.737	1.706	1.751	1.722	1.773	1.795	1.754	1.747	1.75488	1.60
	Toluene	1.848	1.543	1.498	1.475	1.405	1.404	1.382								1.50795	10.67
	1,4-Dichlorobutane	0.137	0.141	0.141	0.143	0.142	0.156	0.146	0.141	0.142	0.143	0.139	0.14	0.136	0.136	0.14162	3.56
	2-Hexanone								1.427	1.301	0.983	0.977	0.936	0.924	0.929	1.06823	19.35
	2-Methylheptane	2.186	1.798	1.794	1.534	1.407	1.314	1.27								1.61479	20.39
	1-Methylcyclohexene								1.37	1.323	1.234	1.228	1.184	1.093	1.076	1.21557	8.98
	Dibromochloromethane	1.157	0.99	0.927	0.888	0.827	0.808	0.761								0.90835	14.74
	3-Methylheptane	1.213	1.019	1.004	0.898	0.807	0.773	0.765								0.92558	17.74
	Hexanal								0.205	0.182	0.151	0.155	0.158	0.156	0.160	0.16680	11.88
	1,2-Dibromoethane	0.899	0.741	0.61	0.672	0.627	0.626	0.574								0.67832	16.36
	2,2,5-Trimethylhexane								4.899	4.543	4.097	3.878	3.6	3.267	3.137	3.91739	16.55
	1-Octene								0.789	0.727	0.721	0.723	0.716	0.677	0.670	0.71769	5.43

	n-Octane	1.787	1.587	1.606	1.503	1.394	1.346	1.306								1.50414	11.31
	Tetrachloroethene	0.711	0.596	0.55	0.536	0.511	0.508	0.496								0.55828	13.47
	cis-2-Octene								0.999	0.915	0.923	0.952	0.954	0.908	0.900	0.93602	3.72
	Chlorobenzene	0.941	0.827	0.774	0.763	0.741	0.751	0.728								0.78928	9.40
	Ethylbenzene	1.633	1.462	1.548	1.521	1.493	1.521	1.483								1.52283	3.69
	m/p-Xylene	1.482	1.327	1.349	1.31	1.273	1.277	1.233								1.32164	6.09
	Bromoform	0.698	0.591	0.562	0.534	0.504	0.499	0.47								0.55126	13.84
	Butyl acrylate								1.204	1.309	1.281	0.93	0.996	1.175	1.243	1.16271	12.44
	Heptanal								0.288	0.294	0.278	0.232	0.241	0.266	0.279	0.26820	8.70
	Styrene	0.691	0.594	0.608	0.613	0.613	0.634	0.619								0.62459	5.08
	1,1,2,2-Tetrachloroethane	1.043	0.841	0.833	0.815	1.047	1.067	1.1								0.96387	13.18
	o-Xylene	1.541	1.377	1.407	1.355	1.303	1.294	1.235								1.35868	7.27
	1-Nonene								0.56	0.561	0.564	0.597	0.609	0.591	0.606	0.58383	3.73
	cis-4-Nonene								1.194	1.173	1.13	1.209	1.197	1.153	1.162	1.17405	2.40
	trans-4-Nonene								1.213	1.155	1.089	1.158	1.179	1.038	1.052	1.12632	5.93
	n-Nonane	1.405	1.29	1.361	1.277	1.228	1.209	1.147								1.27385	6.97
	1,4-Bromofluorobenzene	0.668	0.666	0.68	0.655	0.648	0.67	0.642	0.662	0.663	0.656	0.672	0.648	0.638	0.636	0.65748	2.07
	Isopropylbenzene	2.304	2.088	2.159	2.077	2.039	2.082	1.955								2.10060	5.17
	Benzaldehyde								0.566	0.626	0.479	0.39	0.555	0.574	0.580	0.53865	14.59
	alpha-Pinene	3.159	2.653	2.645	2.355	2.05	1.944	1.879								2.38357	19.55
	o/m-Chlorotoluene								1.027	0.939	0.902	0.944	0.916	0.895	0.931	0.93606	4.69
	p-Chlorotoluene								0.907	0.834	0.818	0.843	0.822	0.813	0.856	0.84188	3.83
	n-Propylbenzene	1.944	1.671	1.791	1.749	2.005	2.443	2.234								1.97675	14.09
	m-Ethyltoluene	1.453	1.254	1.316	1.331	1.82	2.041	2.073								1.61273	22.07
	p-Ethyltoluene	1.283	1.147	1.196	1.189	1.648	1.879	1.893								1.46195	22.87
	1,3,5-Trimethylbenzene	1.57	1.376	1.389	1.477	1.978	2.015	2.111								1.70224	18.80
	o-Ethyltoluene	1.619	1.469	1.519	1.607	2.248	2.314	2.439								1.88778	22.44
	beta-Pinene	3.027	2.576	2.612	2.372	2.128	2.045	1.952								2.38765	15.94
	1,2,4-Trimethylbenzene	1.313	1.121	1.129	1.403	1.858	1.901	2.038								1.53773	25.09
	tert-Butylbenzene								1.983	1.896	1.885	1.914	2.007	2.068	2.164	1.98826	5.13
	1-Decene								0.428	0.391	0.386	0.416	0.635	0.678	0.712	0.52108	28.11
	Benzyl chloride	0.788	0.555	0.454	1.019	1.038	1.141	1.261								0.89379	33.94
	m-Dichlorobenzene	0.561	0.464	0.46	0.534	0.783	0.784	0.867								0.63605	26.72
	n-Decane	1.761	1.381	1.172	1.664	1.591	1.587	1.612								1.53827	12.87
	p-Dichlorobenzene	0.515	0.432	0.42	0.557	0.763	0.754	0.829								0.61008	27.77
	Isobutylbenzene								1.732	1.654	1.623	1.748	2.351	2.665	2.828	2.08561	24.73
	1,2,3-Trimethylbenzene	1.61	1.264	1.247	2.032	2.068	2.129	2.247								1.79965	23.39
	p-Isopropyltoluene								1.402	1.237	1.197	1.365	2.459	2.446	2.464	1.79579	34.63
	o-Dichlorobenzene	0.631	0.486	0.42	0.773	0.812	0.834	0.939								0.69945	27.46
	Limonene								0.724	0.727	0.691	0.762	1.179	1.236	1.269	0.94127	28.72
	Indan								0.801	0.709	0.689	0.721	1.25	1.462	1.608	1.03439	38.19
	Indene								0.553	0.501	0.484	0.556	1.378	1.409	1.445	0.90363	52.60
	m-Diethylbenzene	1.731	1.408	1.019	1.578	1.477	1.589	1.617								1.48844	15.54
	p-Diethylbenzene	1.424	1.129	0.818	1.297	1.198	1.345	1.381								1.22752	16.94
	n-Butylbenzene								1.427	1.202	1.009	1.55	2.394	2.273	2.278	1.73340	32.97
	1-Undecene								0.819	0.905	0.85	0.888	0.906	0.842	0.874	0.86908	3.82
	n-Undecane								1.908	2.159	2.115	2.199	2.22	2.118	2.174	2.12773	4.90
	1,2,4-Trichlorobenzene	0.799	0.758	0.864	0.762	0.59	0.584	0.927								0.75482	17.10
	Naphthalene								1.729	2.099	2.082	2.369	2.757	2.615	2.785	2.34807	16.91
	Hexachloro-1,3-butadiene	1.368	1.246	1.342	1.201	0.889	0.78	1.086					2.757			1.13022	19.87
						0.889 ppb 8-25-11								8-25-11			
	Thu Aug 25 13:02:17 2011																

Compound List Report GCMS-R1

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
Total Cpnds : 174

DMS 8-25-11

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,1-Dichloro-1-Fluoroethane	81	11.63	1.000	A	3	A	B
2	S	2-Bromo-1,1,1-trifluoroethane	83	10.49	0.902	A	3	A	B
3	T	Ethylene	26	3.43	0.295	A	3	A	B
4	T	Acetylene	26	3.54	0.304	A	3	A	B
5	T	Ethane	26	3.62	0.312	A	2	A	B
6	T	Halocarbon 134A	69	4.42	0.380	A	3	A	B
7	T	Propylene	41	5.21	0.448	A	3	A	B
8	T	Chlorodifluoromethane	51	5.56	0.479	A	3	A	B
9	T	Propane	43	5.36	0.461	A	3	A	B
10	T	Dichlorodifluoromethane	85	5.88	0.505	A	3	A	B
11	T	Chloromethane	50	6.72	0.578	A	3	A	B
12	T	Isobutane	43	7.37	0.634	A	3	A	B
13	T	Halocarbon 114	85	7.58	0.652	A	3	A	B
14	T	Acetaldehyde	44	7.54	0.648	A	3	A	B
15	T	Vinyl chloride	62	7.81	0.672	A	3	A	B
16	T	1-Butene/Isobutene	41	8.25	0.709	A	3	A	B
17	T	1,3-Butadiene	39	8.36	0.719	A	3	A	B
18	T	n-Butane	43	8.51	0.732	A	3	A	B
19	T	Methanol	31	8.31	0.714	A	1	A	B
20	T	trans-2-Butene	41	8.89	0.765	A	3	A	B
21	T	Neopentane	57	8.93	0.768	A	3	A	B
22	T	Dichlorofluoromethane	67	10.18	0.875	A	3	A	B
23	T	Bromomethane	94	9.05	0.778	A	3	A	B
24	T	cis-2-Butene	41	9.37	0.806	A	3	A	B
25	T	Chloroethane	64	9.64	0.829	A	3	A	B
26	T	Vinyl bromide	106	10.41	0.896	A	3	A	B
27	T	3-Methyl-1-butene	55	10.45	0.899	A	3	A	B
28	T	Ethanol	45	10.46	0.900	A	2	A	B
29	T	Acetonitrile	41	10.61	0.912	A	3	A	B
30	T	Acrolein	56	10.84	0.932	A	3	A	B
31	T	Isopentane	41	11.08	0.953	A	3	A	B
32	T	Trichlorofluoromethane	101	11.35	0.976	A	3	A	B
33	T	1-Pentene	42	11.66	1.003	A	3	A	B
34	T	Acetone	43	11.13	0.958	A	2	A	B
35	T	2-Propanol	45	11.88	1.022	A	3	A	B
36	T	Acrylonitrile	52	12.06	1.038	A	3	A	B
37	T	n-Pentane	43	12.08	1.039	A	3	A	B
38	T	Diethyl ether	74	12.25	1.054	A	3	A	B
39	T	Isoprene	67	12.26	1.054	A	3	A	B
40	T	trans-2-Pentene	55	12.41	1.068	A	3	A	B
41	T	1,1-Dichloroethene	61	12.50	1.075	A	3	A	B
42	T	cis-2-Pentene	55	12.71	1.093	A	3	A	B
43	T	Methylene chloride	49	12.83	1.104	A	3	A	B
44	T	2-Methyl-2-butene	55	12.90	1.109	A	3	A	B
45	T	Carbon Disulfide	76	12.92	1.112	A	1	A	B
46	T	3-Chloropropene	41	13.00	1.118	A	2	A	B
47	T	Halocarbon 113	151	13.30	1.144	A	3	A	B
48	T	Neohexane	43	13.46	1.158	A	3	A	B
49	T	Cyclopentene	67	14.17	1.218	A	3	A	B
50	T	trans-1,2-Dichloroethene	61	14.33	1.233	A	3	A	B
51	T	4-Methyl-1-pentene	43	14.37	1.236	A	3	A	B
52	T	1-Propanol	59	14.31	1.231	A	3	A	B
53	T	1,1-Dichloroethane	63	14.62	1.258	A	3	A	B
54	T	Cyclopentane	42	14.61	1.257	A	3	A	B
55	T	2,3-Dimethylbutane	43	14.72	1.266	A	3	A	B
56	T	Methyl tert-butyl ether	73	14.80	1.273	A	3	A	B
57	T	Isohexane	42	14.93	1.284	A	3	A	B
58	T	Vinyl acetate	43	15.03	1.292	A	2	A	B
59	T	cis-4-Methyl-2-pentene	69	14.86	1.279	A	3	A	B
60	T	trans-4-Methyl-2-pentene	69	14.99	1.290	A	3	A	B
61	T	Butyraldehyde	72	15.09	1.298	A	3	A	B
62	T	2-Butanone	43	15.31	1.317	A	3	A	B
63	T	Chloroprene	53	15.50	1.333	A	3	A	B
64	T	3-Methylpentane	57	15.53	1.336	A	3	A	B
65	S	Fluorobenzene	96	18.99	1.634	A	2	A	B

66		T	2-Methyl-1-pentene	56	15.76	1.355	A	3	A	B
67		T	1-Hexene	41	15.80	1.359	A	3	A	B
68		T	cis-1,2-Dichloroethene	61	15.93	1.370	A	3	A	B
69		T	Bromochloromethane	130	16.16	1.390	A	3	A	B
70		T	2-Ethyl-1-butene	69	16.25	1.398	A	3	A	B
71		T	n-Hexane	57	16.29	1.401	A	3	A	B
72		T	Chloroform	83	16.40	1.411	A	3	A	B
73		T	cis-3-Hexene	55	16.43	1.413	A	3	A	B
74		T	trans-2-Hexene	55	16.51	1.420	A	3	A	B
75		T	2-Methyl-2-pentene	41	16.60	1.428	A	3	A	B
76		T	cis-3-Methyl-2-pentene	69	16.72	1.438	A	3	A	B
77		T	cis-2-Hexene	55	16.91	1.454	A	3	A	B
78		T	Methylcyclopentane	56	17.43	1.499	A	3	A	B
79		T	1,2-Dichloroethane	62	17.45	1.501	A	3	A	B
80		T	2,4-Dimethylpentane	43	17.61	1.515	A	3	A	B
81		T	1,1,1-Trichloroethane	97	17.79	1.531	A	3	A	B
82	I		Chlorobenzene-d5	117	26.16	1.000	A	3	A	B
83		T	Methylcyclopentene	67	18.43	0.705	A	3	A	B
84		T	Benzene	78	18.48	0.706	A	3	A	B
85		T	Carbon tetrachloride	117	18.70	0.715	A	3	A	B
86		T	1-Butanol	56	18.66	0.713	A	3	A	B
87		T	Cyclohexane	56	18.87	0.721	A	3	A	B
88		T	Isoheptane	43	19.27	0.737	A	3	A	B
89		T	2,3-Dimethylpentane	56	19.34	0.739	A	3	A	B
90		T	Cyclohexene	67	19.57	0.748	A	3	A	B
91		T	3-Methylhexane	43	19.65	0.751	A	3	A	B
92		T	1,2-Dichloropropane	63	19.75	0.755	A	3	A	B
93		T	Bromodichloromethane	83	20.07	0.767	A	3	A	B
94		T	Trichloroethene	130	20.14	0.770	A	3	A	B
95		T	1,4-Dioxane	88	20.16	0.771	A	3	A	B
96		T	1-Heptene	55	20.19	0.772	A	3	A	B
97		T	2,2,4-Trimethylpentane	57	20.22	0.773	A	3	A	B
98		T	2-Chloropentane	70	20.45	0.782	A	3	A	B
99		T	trans-3-Heptene	41	20.60	0.788	A	3	A	B
100		T	n-Heptane	71	20.70	0.791	A	3	A	B
101		T	cis-3-Heptene	41	20.74	0.793	A	3	A	B
102		T	trans-2-Heptene	55	20.89	0.799	A	3	A	B
103		T	2,4,4-Trimethyl-1-pentene	57	21.15	0.808	A	3	A	B
104		T	cis-1,3-Dichloropropene	75	21.54	0.823	A	3	A	B
105		T	Methylisobutylketone	43	21.63	0.827	A	3	A	B
106		T	Methylcyclohexane	83	21.61	0.826	A	3	A	B
107		T	2,4,4-Trimethyl-2-pentene	55	21.89	0.837	A	3	A	B
108		T	2,5-Dimethylhexane	57	22.08	0.844	A	3	A	B
109		T	2,2,3-Trimethylpentane	57	22.17	0.848	A	3	A	B
110		T	trans-1,3-Dichloropropene	75	22.41	0.857	A	3	A	B
111		T	1,1,2-Trichloroethane	97	22.65	0.866	A	3	A	B
112		T	2,3,4-Trimethylpentane	43	22.87	0.874	A	3	A	B
113		S	Toluene-d8	98	22.92	0.876	A	2	A	B
114		T	Toluene	91	23.09	0.883	A	3	A	B
115		S	1,4-Dichlorobutane	90	28.05	1.072	A	3	A	B
116		T	2-Hexanone	43	23.63	0.903	A	3	A	B
117		T	2-Methylheptane	43	23.53	0.899	A	3	A	B
118		T	1-Methylcyclohexene	81	23.53	0.900	A	3	A	B
119		T	Dibromochloromethane	129	23.77	0.909	A	3	A	B
120		T	3-Methylheptane	85	23.85	0.912	A	3	A	B
121		T	Hexanal	44	24.02	0.918	A	3	A	B
122		T	1,2-Dibromoethane	107	24.17	0.924	A	3	A	B
123		T	2,2,5-Trimethylhexane	57	24.29	0.929	A	3	A	B
124		T	1-Octene	55	24.45	0.935	A	3	A	B
125		T	n-Octane	43	24.92	0.953	A	3	A	B
126		T	Tetrachloroethene	164	25.02	0.957	A	3	A	B
127		T	cis-2-Octene	55	25.40	0.971	A	3	A	B
128		T	Chlorobenzene	112	26.23	1.003	A	3	A	B
129		T	Ethylbenzene	91	26.98	1.031	A	3	A	B
130		T	m/p-Xylene	91	27.35	1.046	A	3	A	B
131		T	Bromoform	173	27.38	1.047	A	3	A	B
132		T	Butyl acrylate	55	27.95	1.069	A	3	A	B
133		T	Heptanal	70	28.09	1.074	A	3	A	B
134		T	Styrene	104	28.02	1.071	A	3	A	B
135		T	1,1,2,2-Tetrachloroethane	83	28.23	1.079	A	3	A	B
136		T	o-Xylene	91	28.23	1.079	A	3	A	B
137		T	1-Nonene	56	28.41	1.086	A	3	A	B
138		T	cis-4-Nonene	55	28.59	1.093	A	3	A	B
139		T	trans-4-Nonene	55	28.68	1.096	A	3	A	B

140	T	n-Nonane	43	28.84	1.103	A	3	A	B
141	S	1,4-Bromofluorobenzene	95	29.14	1.114	A	3	A	B
142	T	Isopropylbenzene	105	29.46	1.126	A	3	A	B
143	T	Benzaldehyde	77	30.16	1.153	A	3	A	B
144	T	alpha-Pinene	93	30.24	1.156	A	3	A	B
145	T	o/m-Chlorotoluene	91	30.42	1.163	A	3	A	B
146	T	p-Chlorotoluene	91	30.57	1.169	A	3	A	B
147	T	n-Propylbenzene	91	30.56	1.168	A	3	A	B
148	T	m-Ethyltoluene	105	30.81	1.178	A	3	A	B
149	T	p-Ethyltoluene	105	30.90	1.181	A	3	A	B
150	T	1,3,5-Trimethylbenzene	105	31.09	1.189	A	3	A	B
151	T	o-Ethyltoluene	105	31.49	1.204	A	3	A	B
152	T	beta-Pinene	93	31.77	1.214	A	3	A	B
153	T	1,2,4-Trimethylbenzene	105	32.02	1.224	A	3	A	B
154	T	tert-Butylbenzene	119	32.00	1.223	A	3	A	B
155	T	1-Decene	56	32.07	1.226	A	3	A	B
156	T	Benzyl chloride	91	32.30	1.235	A	3	A	B
157	T	m-Dichlorobenzene	146	32.30	1.235	A	3	A	B
158	T	n-Decane	57	32.48	1.242	A	3	A	B
159	T	p-Dichlorobenzene	146	32.48	1.242	A	3	A	B
160	T	Isobutylbenzene	91	32.57	1.245	A	3	A	B
161	T	1,2,3-Trimethylbenzene	105	33.04	1.263	A	3	A	B
162	T	p-Isopropyltoluene	119	33.11	1.266	A	3	A	B
163	T	o-Dichlorobenzene	146	33.30	1.273	A	3	A	B
164	T	Limonene	68	33.47	1.279	A	3	A	B
165	T	Indan	117	33.49	1.280	A	3	A	B
166	T	Indene	115	33.71	1.289	A	3	A	B
167	T	m-Diethylbenzene	105	33.92	1.297	A	3	A	B
168	T	p-Diethylbenzene	119	34.15	1.306	A	3	A	B
169	T	n-Butylbenzene	91	34.19	1.307	A	3	A	B
170	T	1-Undecene	55	35.47	1.356	A	3	A	B
171	T	n-Undecane	57	35.84	1.370	A	3	A	B
172	T	1,2,4-Trichlorobenzene	180	37.85	1.447	A	3	A	B
173	T	Naphthalene	128	38.04	1.454	A	3	A	B
174	T	Hexachloro-1,3-butadiene	225	38.81	1.484	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

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	Purity (102	0.01046		Purity (ext)	0.0106				
Compounc	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	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Acetylene	74-86-2	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Ethane	74-84-0	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Halocarbo	811-97-2	0.0106	20.4	51	102	255	510	765	1020
Propylene	115-07-1	0.01046	19.8	49.5	99	247.5	495	742.5	990
Chlorodiflu	75-45-6	0.0106	21	52.5	105	262.5	525	787.5	1050
Propane	74-98-6	0.01046	19.6	49	98	245	490	735	980
Dichlorodif	75-71-8	0.01046	19.8	49.5	99	247.5	495	742.5	990
Chlorometl	74-87-3	0.01046	20	50	100	250	500	750	1000
Isobutane	75-28-5	0.01046	19.6	49	98	245	490	735	980
Halocarbo	76-14-2	0.01046	19.6	49	98	245	490	735	980
Acetaldehy	75-07-0	0.0106	20.4	51	102	255	510	765	1020
Vinyl chlori	75-01-4	0.01046	19.8	49.5	99	247.5	495	742.5	990
1-Butene/I	106-98-9	0.01046	19.4	48.5	97	242.5	485	727.5	970
1,3-Butadi	106-99-0	0.01046	21	52.5	105	262.5	525	787.5	1050
n-Butane	106-97-8	0.01046	19.4	48.5	97	242.5	485	727.5	970
Methanol	67-56-1	0.0106	20.8	52	104	260	520	780	1040
trans-2-Bu	624-64-6	0.01046	19.4	48.5	97	242.5	485	727.5	970
Neopentan	463-82-1	0.0106	21	52.5	105	262.5	525	787.5	1050
Dichloroflu	75-43-4	0.0106	21.2	53	106	265	530	795	1060
Bromometl	74-83-9	0.01046	19.8	49.5	99	247.5	495	742.5	990
cis-2-Buter	590-18-1	0.01046	20.8	52	104	260	520	780	1040
Chloroetha	75-00-3	0.01046	19.8	49.5	99	247.5	495	742.5	990
Vinyl Brom	593-60-2	0.0106	20.6	51.5	103	257.5	515	772.5	1030
3-Methyl-1	563-45-1	0.01046	21	52.5	105	262.5	525	787.5	1050
Ethanol	64-17-5	0.0106	20.4	51	102	255	510	765	1020
Acetonitrile	75-05-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Acrolein	107-02-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Isopentane	78-78-4	0.01046	19.8	49.5	99	247.5	495	742.5	990
Trichlorofl	75-69-4	0.01046	20.6	51.5	103	257.5	515	772.5	1030
1-Pentene	109-67-1	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Acetone	67-64-1	0.0106	22	55	110	275	550	825	1100
2-Propanol	67-63-0	0.0106	24	60	120	300	600	900	1200
Acrylonitrile	107-13-1	0.0106	21	52.5	105	262.5	525	787.5	1050
n-Pentane	109-66-0	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Diethyl eth	60-29-7	0.0106	20.4	51	102	255	510	765	1020
Isoprene	78-79-5	0.01046	20.4	51	102	255	510	765	1020
trans-2-Pe	646-04-8	0.01046	21	52.5	105	262.5	525	787.5	1050
1,1-Dichlor	75-35-4	0.01046	20.8	52	104	260	520	780	1040
cis-2-Pente	627-20-3	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Methylene	75-09-2	0.01046	20.4	51	102	255	510	765	1020
2-Methyl-2	513-35-9	0.01046	21.4	53.5	107	267.5	535	802.5	1070
Carbon Di	75-15-0	0.0106	20.6	51.5	103	257.5	515	772.5	1030
3-Chloropr	107-05-1	0.01046	21.2	53	106	265	530	795	1060
Halocarbo	76-13-1	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Neohexane	75-83-2	0.01046	20.4	51	102	255	510	765	1020

Cyclopente	142-29-0	0.01046	19.8	49.5	99	247.5	495	742.5	990	
trans-1,2-D	156-60-5	0.01046	20.8	52	104	260	520	780	1040	
4-Methyl-1·	691-37-2	0.01046	20.4	51	102	255	510	765	1020	
1-Propanol	71-23-8	0.0106	24	60	120	300	600	900	1200	
1,1-Dichlor	75-34-3	0.01046	21.2	53	106	265	530	795	1060	
Cyclopenta	287-92-3	0.01046	20.4	51	102	255	510	765	1020	
2,3-Dimeth	79-29-8	0.01046	20.2	50.5	101	252.5	505	757.5	1010	
Methyl tert·	1634-04-4	0.01046	20.4	51	102	255	510	765	1020	
Isohexane	107-83-5	0.01046	20.8	52	104	260	520	780	1040	
Vinyl Aceta	108-05-4	0.0106	22	55	110	275	550	825	1100	
cis-4-Meth	691-38-3	0.0106	20.8	52	104	260	520	780	1040	
trans-4-Me	674-76-0	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
Butyraldeh	123-72-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
2-Butanon	78-93-3	0.0106	21.8	54.5	109	272.5	545	817.5	1090	
Chloroprer	126-99-8	0.01046	20.2	50.5	101	252.5	505	757.5	1010	
3-Methylpe	96-14-0	0.01046	20.6	51.5	103	257.5	515	772.5	1030	
Fluoroben	462-06-6	0.2	10	10	10	10	10	10		10
2-Methyl-1·	763-29-1	0.01046	20.4	51	102	255	510	765	1020	
1-Hexene	592-41-6	0.01046	20.2	50.5	101	252.5	505	757.5	1010	
cis-1,2-Dic	156-59-2	0.01046	21	52.5	105	262.5	525	787.5	1050	
Bromochlo	74-97-5	0.01046	20.4	51	102	255	510	765	1020	
2-Ethyl-1-b	760-21-4	0.0106	20	50	100	250	500	750	1000	
n-Hexane	110-54-3	0.01046	21.2	53	106	265	530	795	1060	
Chloroform	67-66-3	0.01046	20.8	52	104	260	520	780	1040	
cis-3-Hexe	7642-09-3	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
trans-2-He	4050-45-7	0.01046	21	52.5	105	262.5	525	787.5	1050	
2-Methyl-2·	625-27-4	0.0106	20.2	50.5	101	252.5	505	757.5	1010	
cis-3-Meth	922-62-3	0.0106	21	52.5	105	262.5	525	787.5	1050	
cis-2-Hexe	7688-21-3	0.01046	19.4	48.5	97	242.5	485	727.5	970	
1,2-Dichlor	107-06-2	0.01046	21.2	53	106	265	530	795	1060	
Methylcycl	96-37-7	0.01046	20.2	50.5	101	252.5	505	757.5	1010	
2,4-Dimeth	108-08-7	0.01046	20.6	51.5	103	257.5	515	772.5	1030	
1,1,1-Trich	71-55-6	0.01046	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	0.0106	22	55	110	275	550	825	1100	
Benzene	71-43-2	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
1-Butanol	71-36-3	0.0106	19.4	48.5	97	242.5	485	727.5	970	
Carbon tet	56-23-5	0.01046	21	52.5	105	262.5	525	787.5	1050	
Cyclohexa	110-82-7	0.01046	21.2	53	106	265	530	795	1060	
Isoheptane	31394-54-4	0.01046	20.6	51.5	103	257.5	515	772.5	1030	
2,3-Dimeth	565-59-3	0.01046	20.4	51	102	255	510	765	1020	
Cyclohexe	110-83-8	0.0106	20.2	50.5	101	252.5	505	757.5	1010	
3-Methylhe	589-34-4	0.01046	20.4	51	102	255	510	765	1020	
1,2-Dichlor	78-87-5	0.01046	21.2	53	106	265	530	795	1060	
Bromodich	75-27-4	0.01046	20.2	50.5	101	252.5	505	757.5	1010	
Trichloroet	79-01-6	0.01046	20.2	50.5	101	252.5	505	757.5	1010	
1,4-Dioxan	123-91-1	0.0106	20.8	52	104	260	520	780	1040	
1-Heptene	592-76-7	0.0106	20	50	100	250	500	750	1000	
2,2,4-Trim	540-84-1	0.01046	20.4	51	102	255	510	765	1020	
2-Chlorope	625-29-6	0.01046	20.4	51	102	255	510	765	1020	
trans-3-He	14686-14-7	0.0106	21.4	53.5	107	267.5	535	802.5	1070	
n-Heptane	142-82-5	0.01046	20.6	51.5	103	257.5	515	772.5	1030	

cis-3-Hept	7642-10-6	0.0106	21.4	53.5	107	267.5	535	802.5	1070	
trans-2-He	14686-13-	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
2,4,4-Trim	107-39-1	0.0106	20.4	51	102	255	510	765	1020	
cis-1,3-Dic	10061-01-	0.01046	20.8	52	104	260	520	780	1040	
Methylisob	108-10-1	0.0106	21.8	54.5	109	272.5	545	817.5	1090	
Methylcycl	108-87-2	0.01046	20.6	51.5	103	257.5	515	772.5	1030	
2,4,4-Trim	107-40-4	0.0106	20.2	50.5	101	252.5	505	757.5	1010	
2,5-Dimeth	592-13-2	0.0106	20.8	52	104	260	520	780	1040	
2,2,3-Trim	564-02-3	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
trans-1,3-D	10061-02-	0.01046	22	55	110	275	550	825	1100	
1,1,2-Trich	79-00-5	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
2,3,4-Trim	565-75-3	0.01046	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	0.01046	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	0.0106	21.4	53.5	107	257.5	535	802.5	1070	
2-Methylhe	592-27-8	0.01046	20.6	51.5	103	267.5	515	772.5	1030	
1-Methylcy	591-49-1	0.0106	21.4	53.5	107	267.5	535	802.5	1070	
Dibromoch	124-48-1	0.01046	20.8	52	104	260	520	780	1040	
3-Methylhe	589-81-1	0.01046	20.4	51	102	255	510	765	1020	
Hexanal	66-25-1	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
1,2-Dibrom	106-93-4	0.01046	21.6	54	108	270	540	810	1080	
2,2,5-Trim	3522-94-9	0.0106	21.8	54.5	109	272.5	545	817.5	1090	
1-Octene	111-66-0	0.0106	20	50	100	250	500	750	1000	
n-Octane	111-65-9	0.01046	20.6	51.5	103	257.5	515	772.5	1030	
Tetrachlor	127-18-4	0.01046	21.2	53	106	265	530	795	1060	
cis-2-Octe	7642-04-8	0.0106	21	52.5	105	262.5	525	787.5	1050	
Chloroben	108-90-7	0.01046	21.6	54	108	270	540	810	1080	
Ethylbenze	100-41-4	0.01046	21.6	54	108	270	540	810	1080	
m/p-Xylene	106-42-3	0.01046	42.4	106	212	530	1060	1590		2120
Bromoform	75-25-2	0.01046	21.2	53	106	265	530	795	1060	
Butyl Acryl	141-32-2	0.0106	22.8	57	114	285	570	855	1140	
Styrene	100-42-5	0.01046	21.8	54.5	109	272.5	545	817.5	1090	
Heptanal	111-71-7	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
1,1,2,2-Tet	79-34-5	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
o-Xylene	95-47-6	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
1-Nonene	124-11-8	0.0106	19.4	48.5	97	242.5	485	727.5	970	
cis-4-None	10405-84-	0.0106	22.8	57	114	285	570	855	1140	
trans-4-No	10405-85-	0.0106	19.2	48	96	240	480	720	960	
n-Nonane	111-84-2	0.01046	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	0.01046	19.8	49.5	99	247.5	495	742.5	990	
Benzaldeh	100-52-7	0.0106	20.8	52	104	260	520	780	1040	
alpha-Pine	80-56-8	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
o/m-Chlor	2/3-CT	0.0106	42.8	107	214	535	1070	1605		2140
p-Chlorotol	106-43-4	0.0106	21.6	54	108	270	540	810	1080	
n-Propylbe	103-65-1	0.01046	20	50	100	250	500	750	1000	
m-Ethyltol	620-14-4	0.01046	20	50	100	250	500	750	1000	
p-Ethyltolu	622-96-8	0.01046	20.2	50.5	101	252.5	505	757.5	1010	
1,3,5-Trim	108-67-8	0.01046	21.8	54.5	109	272.5	545	817.5	1090	
o-Ethyltolu	611-14-3	0.01046	19.8	49.5	99	247.5	495	742.5	990	
beta-Pinen	127-91-3	0.01046	15	37.5	75	187.5	375	562.5	750	

1,2,4-Trim	95-63-6	0.01046	21.8	54.5	109	272.5	545	817.5	1090
tert-Butylb	98-06-6	0.0106	21.4	53.5	107	267.5	535	802.5	1070
1-Decene	872-05-9	0.0106	21.4	53.5	107	267.5	535	802.5	1070
Benzyl chl	100-44-7	0.01046	21.8	54.5	109	272.5	545	817.5	1090
m-Dichloro	541-73-1	0.01046	21.8	54.5	109	272.5	545	817.5	1090
n-Decane	124-18-5	0.01046	20.6	51.5	103	257.5	515	772.5	1030
p-Dichlorol	106-46-7	0.01046	21.6	54	108	270	540	810	1080
Isobutylber	538-93-2	0.0106	22	55	110	275	550	825	1100
1,2,3-Trim	526-73-8	0.01046	19.6	49	98	245	490	735	980
p-Isopropy	99-87-6	0.0106	22	55	110	275	550	825	1100
o-Dichlorol	95-50-1	0.01046	21.6	54	108	270	540	810	1080
Limonene	138-86-3	0.0106	21	52.5	105	262.5	525	787.5	1050
Indan	496-11-7	0.0106	21	52.5	105	262.5	525	787.5	1050
Indene	95-13-6	0.0106	20.6	51.5	103	257.5	515	772.5	1030
m-Diethylb	141-93-5	0.01046	19.4	48.5	97	242.5	485	727.5	970
p-Diethylbe	105-05-5	0.01046	19.8	49.5	99	247.5	495	742.5	990
n-Butylben	104-51-8	0.0106	22.2	55.5	111	277.5	555	832.5	1110
1-Undecen	821-95-4	0.0106	20.8	52	104	260	520	780	1040

INSTRUMENT GCMS-R1 ANALYST / DATE: NOK 8/24/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: 8/24/11 Batch ID: NA

DAILY CHECK ✓	INSERT: CHANGED (Y/N) N	SEPTA: CHANGED (Y/N) N	COLUMN: CHANGED (Y/N) N	AUTOSAMPLER MAINT. NA
M. PUMP OIL ✓	TURBO OIL NA	FILAMENT CHANGE NO	OTHER NA	
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: R110328.U Elect Mult. 1624 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: Entech

GC PROGRAM:

GC Meth. RA110612.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: NA

GC COLUMN:

Column ID#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID: 341359

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	WARMUP	RA1784	0.5	4	RA082401	0.01046	VOC-VSP-34-15
2	LCS	↓	↓	4	02	↓	↓
3	BLK	RA2153	↓	1	03	1.0	
4	PREFLUSH	RA1703	0.1	10	04	0.01060	VOC-VSP-34-5
5	EXT BLEND 20	↓	0.02	↓	05	↓	↓
6	50	↓	0.05	↓	06	↓	↓
7	100	↓	0.10	↓	07	↓	↓
8	250	↓	0.25	↓	08	↓	↓
9	500	↓	0.5	↓	09	↓	↓

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	EXT BLEND 750	RA1703	0.75	10	RA082410	0.01060	VOC-VSP-34-5
11	1000		1.0		11		
12	MB1	RA2153	0.5	1	12	1.0	
13	PREFLUSH	RA1748	0.1	6	13	0.01046	VOC-VSP-34-18
14	IOZ BLEND 20		0.02		14		
15	50		0.05		15		
16	100		0.10		16		
17	250		0.25		17		
18	500		0.50		18		
19	750		0.75		19		
20	1000		1.0		20		
21	MB	RA2153	0.5	1	21	1.0	
22	ICV IOZ	HR1865		5	22	0.01043	VOC-VSP-34-17
23	LCS	RA1784		4	23	0.01046	VOC-VSP-34-15
24	EXT	RA1822		9	24	0.01034	VOC-VSP-34-7
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

```
   Sequence Name: C:\msdchem\1\sequence\R110824.S
         Comment:
        Operator: KDK
       Data Path: C:\MSDCHEM\1\DATA\R110824\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:
```

MM 8/25/11

```
   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject

   ----------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Sample          1  RA082401 RA110612 WARMUP
 2)  Sample          1  RA082402 RA110612 LCS
 3)  Sample          1  RA082403 RA110612 BLK
 4)  Sample          1  RA082404 RA110612 PREFLUSH,,,,0.01060;EXT
 5)  Sample          1  RA082405 RA110612 EXT BLEND 20,,,,0.01060;EXT
 6)  Sample          1  RA082406 RA110612 EXT BLEND 50,,,,0.01060;EXT
 7)  Sample          1  RA082407 RA110612 EXT BLEND 100,,,,0.01060;EXT
 8)  Sample          1  RA082408 RA110612 EXT BLEND 250,,,,0.01060;EXT
 9)  Sample          1  RA082409 RA110612 EXT BLEND 500,,,,0.01060;EXT
10)  Sample          1  RA082410 RA110612 EXT BLEND 750,,,,0.01060;EXT
11)  Sample          1  RA082411 RA110612 EXT BLEND 1000,,,,0.01060;EXT
12)  Sample          1  RA082412 RA110612 MB
13)  Sample          1  RA082413 RA110612 PREFLUSH,,,,0.01046;102
14)  Sample          1  RA082414 RA110612 102 BLEND 20,,,,0.01046;102
15)  Sample          1  RA082415 RA110612 102 BLEND 50,,,,0.01046;102
16)  Sample          1  RA082416 RA110612 102 BLEND 100,,,,0.01046;102
17)  Sample          1  RA082417 RA110612 102 BLEND 250,,,,0.01046;102
18)  Sample          1  RA082418 RA110612 102 BLEND 500,,,,0.01046;102
19)  Sample          1  RA082419 RA110612 102 BLEND 750,,,,0.01046;102
20)  Sample          1  RA082420 RA110612 102 BLEND 1000,,,,0.01046;102
21)  Sample          1  RA082421 RA110612 MB
22)  Sample          1  RA082422 RA110612 ICV 102,,,,0.01043;102
23)  Sample          1  RA082423 RA110612 ICV LCS,,,,;0.01046;LCS
24)  Sample          1  RA082424 RA110612 ICV EXT,,,,0.01034;EXT
```

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

Sequence Name: C:\Smart\R110824.SEQ
Date: 08-25-2011
Time: 13:11:16
Int. Std Volume: 200 cc

MM 8/25/11

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
WARMUP	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
LCS	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
BLK	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
PREFLUSH	1	10	100	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 20	1	10	20	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 50	1	10	50	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 100	1	10	100	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 250	1	10	250	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 500	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 750	1	10	750	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 1000	1	10	1000	0	C:\Smart\C053011V2.MPT	12:00
BLK	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
PREFLUSH	1	6	100	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 20	1	6	20	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 50	1	6	50	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 100	1	6	100	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 250	1	6	250	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 500	1	6	500	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 750	1	6	750	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 1000	1	6	1000	0	C:\Smart\C053011V2.MPT	12:00
MB	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
ICV 102	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
ICV LCS	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
ICV EXT	1	9	500	0	C:\Smart\C053011V2.MPT	12:00

BFB

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :

DAH 8-25-11

Spectrum Information: Average of 29.110 to 29.160 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	27.3	5192	PASS
75	95	30	66	63.0	11958	PASS
95	95	100	100	100.0	18993	PASS
96	95	5	9	6.7	1277	PASS
173	174	0.00	2	0.8	107	PASS
174	95	50	120	69.4	13178	PASS
175	174	4	9	7.0	929	PASS
176	174	93	101	95.2	12552	PASS
177	176	5	9	6.4	801	PASS

RA082405.D RA110612.M Thu Aug 25 11:52:28 2011 DAH

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:15 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	294731	2.0000 ppbV	0.01
82) Chlorobenzene-d5	26.16	117	106765	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	118502	1.9908 ppbV	0.02
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.01	96	254928	1.7355 ppbV	0.01
Spiked Amount 2.000			Recovery	= 87.00%	
113) Toluene-d8	22.92	98	182140	2.2409 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.00%	
115) 1,4-Dichlorobutane	28.06	90	15015	1.8799 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.00%	
141) 1,4-Bromofluorobenzene	29.14	95	70657	1.8631 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.44	69	8685	0.2821 ppbV	S	86
8) Chlorodifluoromethane	5.58	51	21043	0.2944 ppbV	S	98
14) Acetaldehyde	7.70	44	4055m	0.3048 ppbV	S	
19) Methanol	8.43	31	2727m	0.3874 ppbV	S	
21) Neopentane	8.95	57	34791	0.2838 ppbV	S	95
22) Dichlorofluoromethane	10.21	67	25705	0.2771 ppbV	S	95
26) Vinyl bromide	10.45	106	9607	0.2611 ppbV	S	83
28) Ethanol	10.54	45	3793m	0.3816 ppbV	S	
29) Acetonitrile	10.71	41	7450	0.2417 ppbV	S	82
30) Acrolein	10.93	56	3273	0.2383 ppbV #	S	34
34) Acetone	11.25	43	21517m	0.2922 ppbV	S	
35) 2-Propanol	11.97	45	19727m	0.3657 ppbV	S	
36) Acrylonitrile	12.13	52	6350	0.2532 ppbV #	S	1
38) Diethyl ether	12.30	74	4379	0.2604 ppbV #	S	1
45) Carbon Disulfide	12.95	76	30042	0.2592 ppbV	S	97
52) 1-Propanol	14.37	59	1768	0.3171 ppbV #	S	1
58) Vinyl acetate	15.07	43	30997	0.3054 ppbV #	S	48
59) cis-4-Methyl-2-pentene	14.88	69	19594	0.2916 ppbV #	S	95
60) trans-4-Methyl-2-pentene	15.02	69	23256	0.3042 ppbV	S	95
61) Butyraldehyde	15.15	72	1779	0.2673 ppbV #	S	1
62) 2-Butanone	15.38	43	23299	0.3112 ppbV #	S	1
70) 2-Ethyl-1-butene	16.27	69	11196	0.2669 ppbV #	S	69
73) cis-3-Hexene	16.45	55	14143	0.2538 ppbV	S	85
75) 2-Methyl-2-pentene	16.62	41	18514	0.2553 ppbV	S	92
76) cis-3-Methyl-2-pentene	16.74	69	14420	0.2787 ppbV	S	92
83) Methylcyclopentene	18.44	67	26925	0.4469 ppbV	S	88
86) 1-Butanol	18.70	56	6341	0.3589 ppbV	S	97
90) Cyclohexene	19.58	67	17409	0.4344 ppbV	S	84
95) 1,4-Dioxane	20.20	88	5569	0.5309 ppbV #	S	50
96) 1-Heptene	20.21	55	8362	0.3409 ppbV #	S	84
99) trans-3-Heptene	20.61	41	15723	0.3887 ppbV	S	82
101) cis-3-Heptene	20.75	41	15681	0.3716 ppbV #	S	14
102) trans-2-Heptene	20.90	55	12065	0.3233 ppbV #	S	62
103) 2,4,4-Trimethyl-1-pentene	21.16	57	37573	0.4451 ppbV	S	94
105) Methylisobutylketone	21.65	43	25323	0.4057 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:15 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

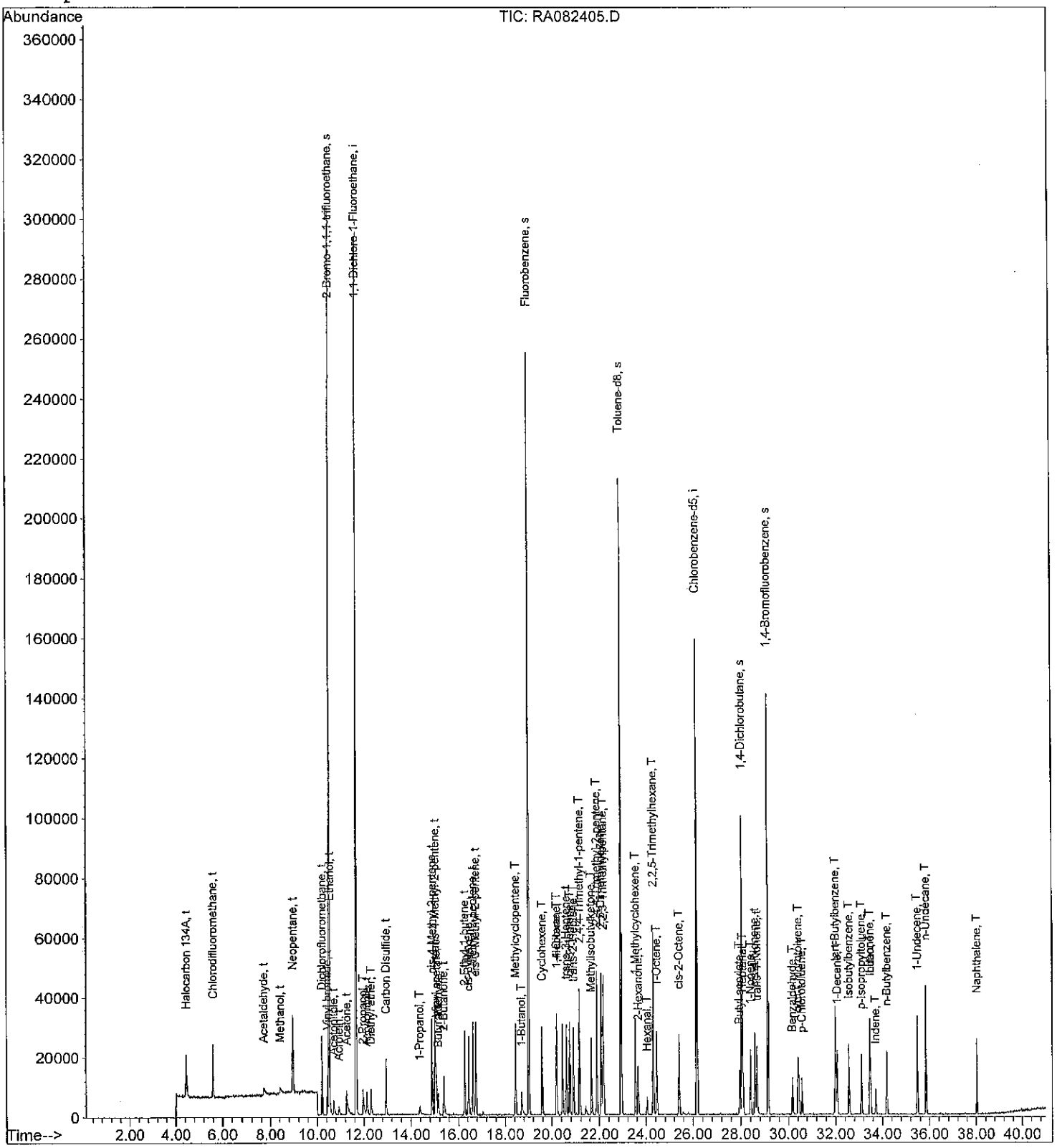
Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.90	55	28509	0.4310	ppbV		S	78
108) 2,5-Dimethylhexane	22.08	57	28492	0.4363	ppbV		S	91
109) 2,2,3-Trimethylpentane	22.17	57	47940	0.4377	ppbV	#	S	42
116) 2-Hexanone	23.65	43	17280	0.3535	ppbV	#	S	22
118) 1-Methylcyclohexene	23.54	81	16593	0.3760	ppbV		S	94
121) Hexanal	24.03	44	2394	0.3240	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.30	57	60437	0.4624	ppbV		S	95
124) 1-Octene	24.45	55	8931	0.2925	ppbV	#	S	1
127) cis-2-Octene	25.41	55	11873	0.3017	ppbV		S	91
132) Butyl acrylate	27.96	55	15537	0.3872	ppbV		S	87
133) Heptanal	28.09	70	3354	0.3591	ppbV	#	S	22
137) 1-Nonene	28.42	56	6143	0.2232	ppbV		S	86
138) cis-4-Nonene	28.59	55	15410	0.2703	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	13174	0.2387	ppbV		S	95
143) Benzaldehyde	30.18	77	6664	0.5272	ppbV	#	S	36
145) o/m-Chlorotoluene	30.43	91	24865	0.4909	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	11080	0.2315	ppbV	#	S	37
154) tert-Butylbenzene	32.01	119	24011	0.3163	ppbV	#	S	57
155) 1-Decene	32.07	56	5187	0.2448	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	21557	0.2722	ppbV	#	S	39
162) p-Isopropyltoluene	33.11	119	17456	0.2902	ppbV	#	S	45
164) Limonene	33.46	68	8605	0.2558	ppbV		S	87
165) Indan	33.48	117	9520	0.2229	ppbV		S	80
166) Indene	33.71	115	6444	0.2195	ppbV		S	84
169) n-Butylbenzene	34.19	91	17931	0.3650	ppbV	#	S	1
170) 1-Undecene	35.49	55	9639	0.4241	ppbV	#	S	58
171) n-Undecane	35.84	57	22003	0.3356	ppbV		S	73
173) Naphthalene	38.04	128	21321	0.4004	ppbV		S	94

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:15 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082406.D Vial: 1
Acq On : 24 Aug 2011 2:34 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:18 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	285489	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	101888	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	115614	2.0051 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
65) Fluorobenzene	19.00	96	247729	1.7411 ppbV	0.00
Spiked Amount 2.000			Recovery	= 87.00%	
113) Toluene-d8	22.92	98	178420	2.3002 ppbV	0.00
Spiked Amount 2.000			Recovery	= 115.00%	
115) 1,4-Dichlorobutane	28.05	90	14499	1.9022 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.00%	
141) 1,4-Bromofluorobenzene	29.14	95	67579	1.8673 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.44	69	18460	0.6191 ppbV	S	81
8) Chlorodifluoromethane	5.58	51	43887	0.6338 ppbV	S	97
14) Acetaldehyde	7.66	44	8323m	0.6459 ppbV	S	
19) Methanol	8.39	31	5216m	0.7650 ppbV	S	
21) Neopentane	8.95	57	74072	0.6238 ppbV	S	98
22) Dichlorofluoromethane	10.20	67	56268	0.6263 ppbV	S	96
26) Vinyl bromide	10.43	106	21090	0.5918 ppbV	S	84
28) Ethanol	10.51	45	6070m	0.6304 ppbV	S	
29) Acetonitrile	10.68	41	16967m	0.5683 ppbV	S	
30) Acrolein	10.90	56	7333	0.5512 ppbV #	S	46
34) Acetone	11.21	43	46115m	0.6465 ppbV	S	
35) 2-Propanol	11.93	45	40109m	0.7675 ppbV	S	
36) Acrylonitrile	12.11	52	13509	0.5560 ppbV #	S	1
38) Diethyl ether	12.29	74	9235	0.5669 ppbV #	S	1
45) Carbon Disulfide	12.94	76	65987	0.5879 ppbV	S	98
52) 1-Propanol	14.35	59	4144	0.7673 ppbV #	S	1
58) Vinyl acetate	15.05	43	67839	0.6900 ppbV #	S	48
59) cis-4-Methyl-2-pentene	14.88	69	43977	0.6756 ppbV #	S	97
60) trans-4-Methyl-2-pentene	15.01	69	49084	0.6628 ppbV	S	96
61) Butyraldehyde	15.13	72	3899	0.6047 ppbV #	S	1
62) 2-Butanone	15.36	43	52447m	0.7231 ppbV	S	
70) 2-Ethyl-1-butene	16.27	69	24404	0.6007 ppbV #	S	73
73) cis-3-Hexene	16.44	55	31534	0.5842 ppbV	S	88
75) 2-Methyl-2-pentene	16.61	41	41587	0.5921 ppbV	S	94
76) cis-3-Methyl-2-pentene	16.74	69	30670	0.6121 ppbV	S	91
83) Methylcyclopentene	18.43	67	59748	1.0390 ppbV	S	91
86) 1-Butanol	18.68	56	13980	0.8291 ppbV	S	96
90) Cyclohexene	19.59	67	37827	0.9890 ppbV	S	89
95) 1,4-Dioxane	20.19	88	9521	0.9511 ppbV #	S	56
96) 1-Heptene	20.20	55	18711	0.7994 ppbV	S	92
99) trans-3-Heptene	20.61	41	33550	0.8691 ppbV	S	89
101) cis-3-Heptene	20.75	41	35729	0.8871 ppbV #	S	15
102) trans-2-Heptene	20.90	55	28282	0.7940 ppbV #	S	57
103) 2,4,4-Trimethyl-1-pentene	21.15	57	82905	1.0291 ppbV	S	90
105) Methylisobutylketone	21.65	43	51672	0.8674 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082406.D Vial: 1
Acq On : 24 Aug 2011 2:34 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:18 19111 Quant Results File: RA110612.RES

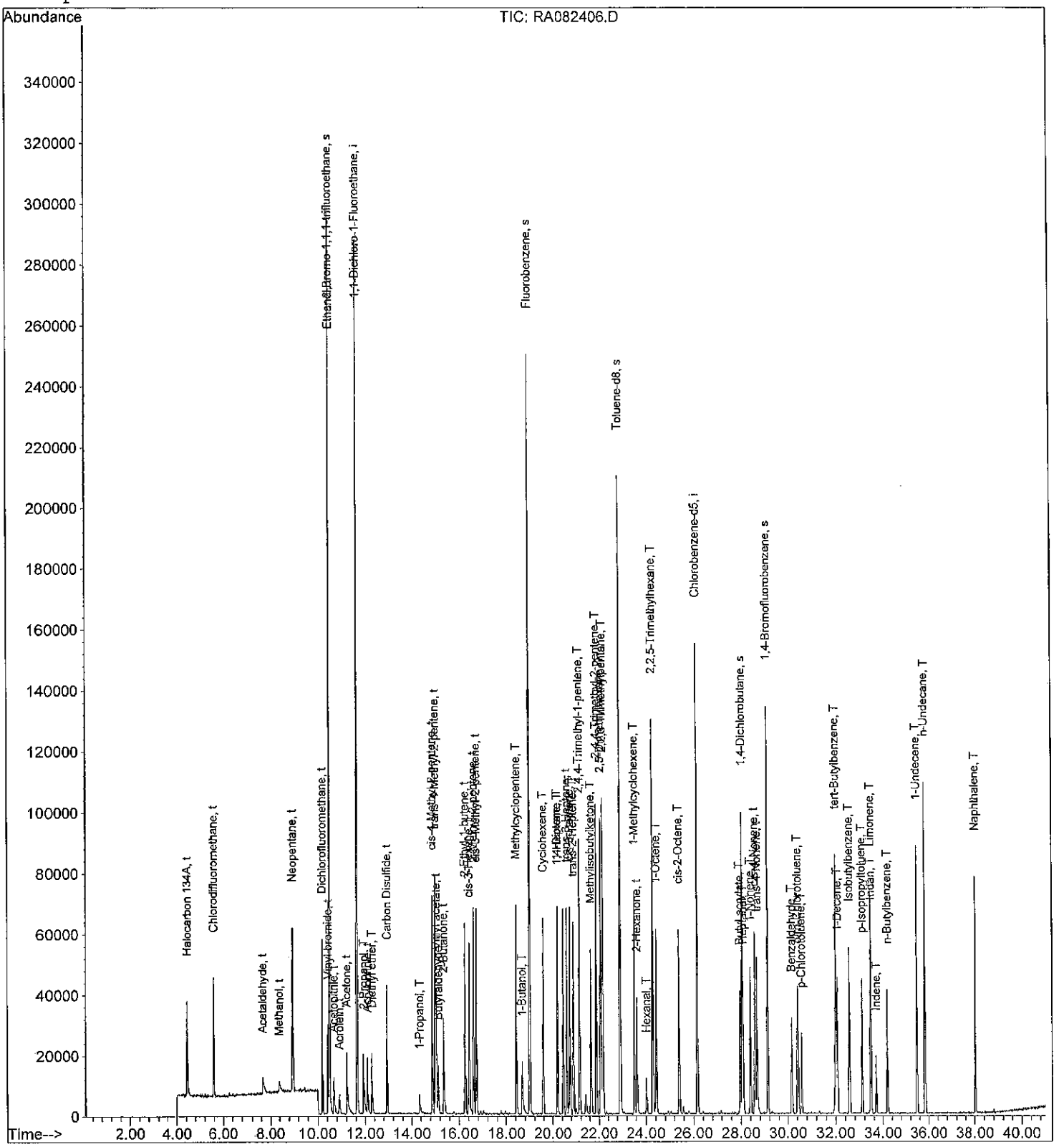
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107)	2,4,4-Trimethyl-2-pentene	21.90	55	62479	0.9899	ppbV		S	80
108)	2,5-Dimethylhexane	22.08	57	61410	0.9855	ppbV		S	85
109)	2,2,3-Trimethylpentane	22.18	57	104508	0.9999	ppbV	#	S	41
116)	2-Hexanone	23.65	43	37599	0.8059	ppbV	#	S	22
118)	1-Methylcyclohexene	23.54	81	38220	0.9076	ppbV		S	92
121)	Hexanal	24.03	44	5071	0.7191	ppbV	#	S	1
123)	2,2,5-Trimethylhexane	24.29	57	133707	1.0719	ppbV		S	93
124)	1-Octene	24.45	55	19622	0.6734	ppbV	#	S	1
127)	cis-2-Octene	25.40	55	25948	0.6908	ppbV		S	94
132)	Butyl acrylate	27.96	55	40280	1.0518	ppbV		S	87
133)	Heptanal	28.10	70	8165	0.9161	ppbV	#	S	71
137)	1-Nonene	28.41	56	14690	0.5594	ppbV		S	96
138)	cis-4-Nonene	28.60	55	36114	0.6638	ppbV	#	S	100
139)	trans-4-Nonene	28.68	55	29937	0.5684	ppbV		S	97
143)	Benzaldehyde	30.17	77	17566	1.4562	ppbV	#	S	34
145)	o/m-Chlorotoluene	30.43	91	54229	1.1218	ppbV	#	S	1
146)	p-Chlorotoluene	30.58	91	24315	0.5323	ppbV	#	S	36
154)	tert-Butylbenzene	32.00	119	54787	0.7564	ppbV	#	S	55
155)	1-Decene	32.07	56	11308	0.5592	ppbV	#	S	1
160)	Isobutylbenzene	32.57	91	49129	0.6500	ppbV	#	S	51
162)	p-Isopropyltoluene	33.11	119	36734	0.6399	ppbV	#	S	45
164)	Limonene	33.46	68	20609	0.6420	ppbV		S	87
165)	Indan	33.49	117	20095	0.4931	ppbV		S	92
166)	Indene	33.71	115	13934	0.4974	ppbV		S	88
169)	n-Butylbenzene	34.20	91	36026	0.7684	ppbV	#	S	1
170)	1-Undecene	35.47	55	25412	1.1715	ppbV	#	S	55
171)	n-Undecane	35.84	57	59516	0.9511	ppbV		S	73
173)	Naphthalene	38.04	128	61816	1.2165	ppbV		S	94

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082406.D Vial: 1
Acq On : 24 Aug 2011 2:34 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:18 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082407.D Vial: 1
Acq On : 24 Aug 2011 3:37 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:26 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	291304	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	108933	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	116962	1.9880 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.00	96	256997	1.7702 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.50%	
113) Toluene-d8	22.92	98	187603	2.2621 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.00%	
115) 1,4-Dichlorobutane	28.06	90	15525	1.9050 ppbV	0.02
Spiked Amount 2.000			Recovery	= 95.50%	
141) 1,4-Bromofluorobenzene	29.13	95	71500	1.8478 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.43	69	34599	1.1371 ppbV	S	82
8) Chlorodifluoromethane	5.57	51	82772	1.1715 ppbV	S	96
14) Acetaldehyde	7.61	44	18675m	1.4203 ppbV	S	
19) Methanol	8.35	31	9090m	1.3065 ppbV	S	
21) Neopentane	8.94	57	139975	1.1553 ppbV	S	96
22) Dichlorofluoromethane	10.19	67	105410	1.1499 ppbV	S	97
26) Vinyl bromide	10.42	106	40450	1.1123 ppbV	S	87
28) Ethanol	10.49	45	18597m	1.8928 ppbV	S	
29) Acetonitrile	10.65	41	33048m	1.0849 ppbV	S	
30) Acrolein	10.88	56	15269	1.1249 ppbV #	S	49
34) Acetone	11.18	43	88498m	1.2159 ppbV	S	
35) 2-Propanol	11.90	45	74684m	1.4006 ppbV	S	
36) Acrylonitrile	12.09	52	28041m	1.1311 ppbV	S	
38) Diethyl ether	12.28	74	18083	1.0879 ppbV #	S	1
45) Carbon Disulfide	12.93	76	124143	1.0839 ppbV	S	95
52) 1-Propanol	14.33	59	7134	1.2946 ppbV #	S	1
58) Vinyl acetate	15.04	43	135957	1.3552 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.87	69	83972	1.2643 ppbV #	S	95
60) trans-4-Methyl-2-pentene	15.00	69	95939	1.2697 ppbV	S	91
61) Butyraldehyde	15.12	72	7626	1.1592 ppbV #	S	1
62) 2-Butanone	15.34	43	106486m	1.4389 ppbV	S	
70) 2-Ethyl-1-butene	16.26	69	48576	1.1718 ppbV #	S	76
73) cis-3-Hexene	16.43	55	61511	1.1169 ppbV	S	95
75) 2-Methyl-2-pentene	16.60	41	79743	1.1127 ppbV	S	95
76) cis-3-Methyl-2-pentene	16.73	69	60607	1.1854 ppbV	S	92
83) Methylcyclopentene	18.43	67	119947	1.9510 ppbV	S	93
86) 1-Butanol	18.67	56	29491m	1.6359 ppbV	S	
90) Cyclohexene	19.58	67	73620	1.8003 ppbV	S	85
95) 1,4-Dioxane	20.18	88	15520	1.4501 ppbV #	S	60
96) 1-Heptene	20.19	55	38164	1.5251 ppbV	S	91
99) trans-3-Heptene	20.61	41	68686	1.6643 ppbV	S	89
101) cis-3-Heptene	20.75	41	72425	1.6819 ppbV #	S	12
102) trans-2-Heptene	20.90	55	57347	1.5059 ppbV #	S	57
103) 2,4,4-Trimethyl-1-pentene	21.14	57	160100	1.8589 ppbV	S	92
105) Methylisobutylketone	21.64	43	101007	1.5860 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082407.D Vial: 1
Acq On : 24 Aug 2011 3:37 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:26 19111 Quant Results File: RA110612.RES

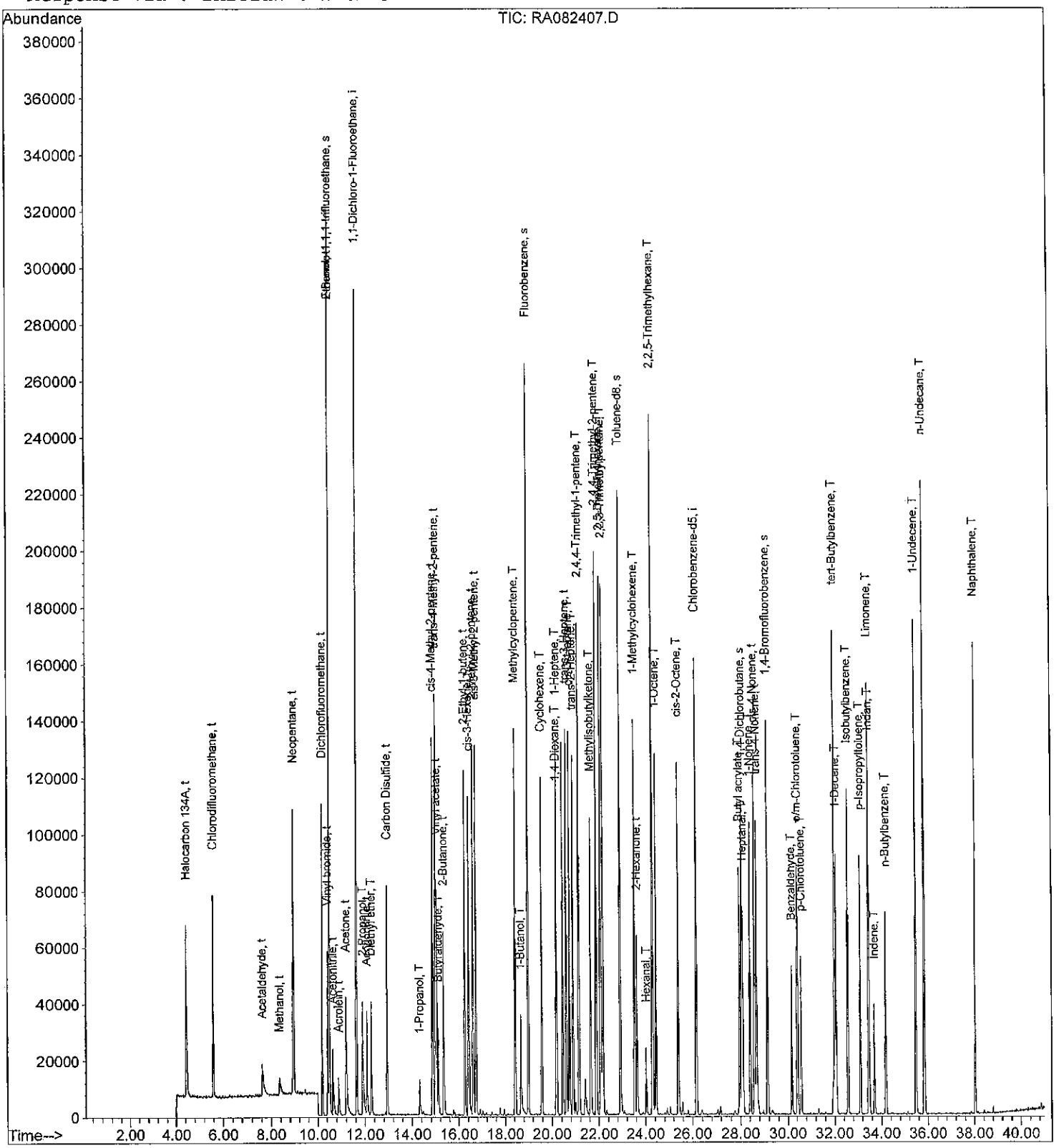
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	121511	1.8006	ppbV		S	81
108) 2,5-Dimethylhexane	22.08	57	117299	1.7606	ppbV		S	87
109) 2,2,3-Trimethylpentane	22.17	57	198894	1.7800	ppbV	#	S	41
116) 2-Hexanone	23.64	43	60744	1.2178	ppbV	#	S	22
118) 1-Methylcyclohexene	23.54	81	76249	1.6936	ppbV		S	92
121) Hexanal	24.03	44	9004	1.1943	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	257823	1.9333	ppbV		S	95
124) 1-Octene	24.44	55	41645	1.3368	ppbV	#	S	1
127) cis-2-Octene	25.41	55	55963	1.3936	ppbV		S	92
132) Butyl acrylate	27.96	55	84331	2.0597	ppbV		S	86
133) Heptanal	28.10	70	16503	1.7318	ppbV	#	S	67
137) 1-Nonene	28.42	56	31580	1.1247	ppbV		S	96
138) cis-4-Nonene	28.59	55	74349	1.2783	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	60379	1.0723	ppbV		S	92
143) Benzaldehyde	30.17	77	28777	2.2313	ppbV	#	S	28
145) o/m-Chlorotoluene	30.42	91	111469	2.1568	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	50988	1.0440	ppbV	#	S	35
154) tert-Butylbenzene	32.00	119	116449	1.5037	ppbV	#	S	55
155) 1-Decene	32.07	56	23847	1.1030	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	103063	1.2754	ppbV	#	S	40
162) p-Isopropyltoluene	33.11	119	76049	1.2390	ppbV	#	S	42
164) Limonene	33.47	68	41906	1.2210	ppbV		S	80
165) Indan	33.49	117	41787	0.9590	ppbV		S	86
166) Indene	33.71	115	28756	0.9601	ppbV		S	86
169) n-Butylbenzene	34.20	91	64635	1.2895	ppbV	#	S	1
170) 1-Undecene	35.47	55	51043	2.2010	ppbV	#	S	64
171) n-Undecane	35.84	57	124530	1.8614	ppbV		S	74
173) Naphthalene	38.04	128	130958	2.4105	ppbV		S	96

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082407.D Vial: 1
Acq On : 24 Aug 2011 3:37 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:26 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082408.D Vial: 1
Acq On : 24 Aug 2011 4:41 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:32 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	285412	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	112455	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	114683	1.9895 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.00	96	262933	1.8484 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	
113) Toluene-d8	22.92	98	199365	2.3287 ppbV	0.00
Spiked Amount 2.000			Recovery	= 116.50%	
115) 1,4-Dichlorobutane	28.05	90	15609	1.8554 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.00%	
141) 1,4-Bromofluorobenzene	29.13	95	75573	1.8919 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	

Target Compounds					Qvalue
6) Halocarbon 134A	4.42	69	84082m	2.8205 ppbV	S
8) Chlorodifluoromethane	5.57	51	198616	2.8690 ppbV	S 96
14) Acetaldehyde	7.56	44	41927m	3.2545 ppbV	S
19) Methanol	8.33	31	19941m	2.9253 ppbV	S
21) Neopentane	8.94	57	342793	2.8876 ppbV	S 97
22) Dichlorofluoromethane	10.18	67	252121	2.8071 ppbV	S 97
26) Vinyl bromide	10.42	106	97024	2.7231 ppbV	S 85
28) Ethanol	10.47	45	35279m	3.6648 ppbV	S
29) Acetonitrile	10.63	41	81102m	2.7173 ppbV	S
30) Acrolein	10.86	56	36375	2.7351 ppbV #	S 45
34) Acetone	11.16	43	208393m	2.9222 ppbV	S
35) 2-Propanol	11.90	45	171071m	3.2745 ppbV	S
36) Acrylonitrile	12.08	52	67919	2.7963 ppbV #	S 1
38) Diethyl ether	12.27	74	45032	2.7652 ppbV #	S 1
45) Carbon Disulfide	12.94	76	302056	2.6917 ppbV	S 95
52) 1-Propanol	14.32	59	15844	2.9346 ppbV #	S 1
58) Vinyl acetate	15.04	43	344466	3.5044 ppbV #	S 47
59) cis-4-Methyl-2-pentene	14.87	69	203976	3.1345 ppbV #	S 97
60) trans-4-Methyl-2-pentene	15.00	69	233800	3.1581 ppbV	S 91
61) Butyraldehyde	15.11	72	19154	2.9716 ppbV #	S 1
62) 2-Butanone	15.33	43	257297m	3.5485 ppbV	S
70) 2-Ethyl-1-butene	16.26	69	118785	2.9245 ppbV #	S 71
73) cis-3-Hexene	16.43	55	152083	2.8184 ppbV	S 92
75) 2-Methyl-2-pentene	16.60	41	196434	2.7977 ppbV	S 93
76) cis-3-Methyl-2-pentene	16.73	69	149240	2.9791 ppbV	S 92
83) Methylcyclopentene	18.43	67	298392	4.7016 ppbV	S 92
86) 1-Butanol	18.66	56	72531	3.8973 ppbV	S 97
90) Cyclohexene	19.57	67	182055	4.3126 ppbV	S 85
95) 1,4-Dioxane	20.18	88	31221	2.8258 ppbV #	S 51
96) 1-Heptene	20.19	55	96752	3.7452 ppbV	S 92
99) trans-3-Heptene	20.61	41	174575	4.0976 ppbV	S 89
101) cis-3-Heptene	20.75	41	180450	4.0593 ppbV #	S 13
102) trans-2-Heptene	20.90	55	146630	3.7299 ppbV #	S 55
103) 2,4,4-Trimethyl-1-pentene	21.15	57	389701	4.3830 ppbV	S 94
105) Methylisobutylketone	21.64	43	259785	3.9513 ppbV #	S 1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082408.D Vial: 1
Acq On : 24 Aug 2011 4:41 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:32 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

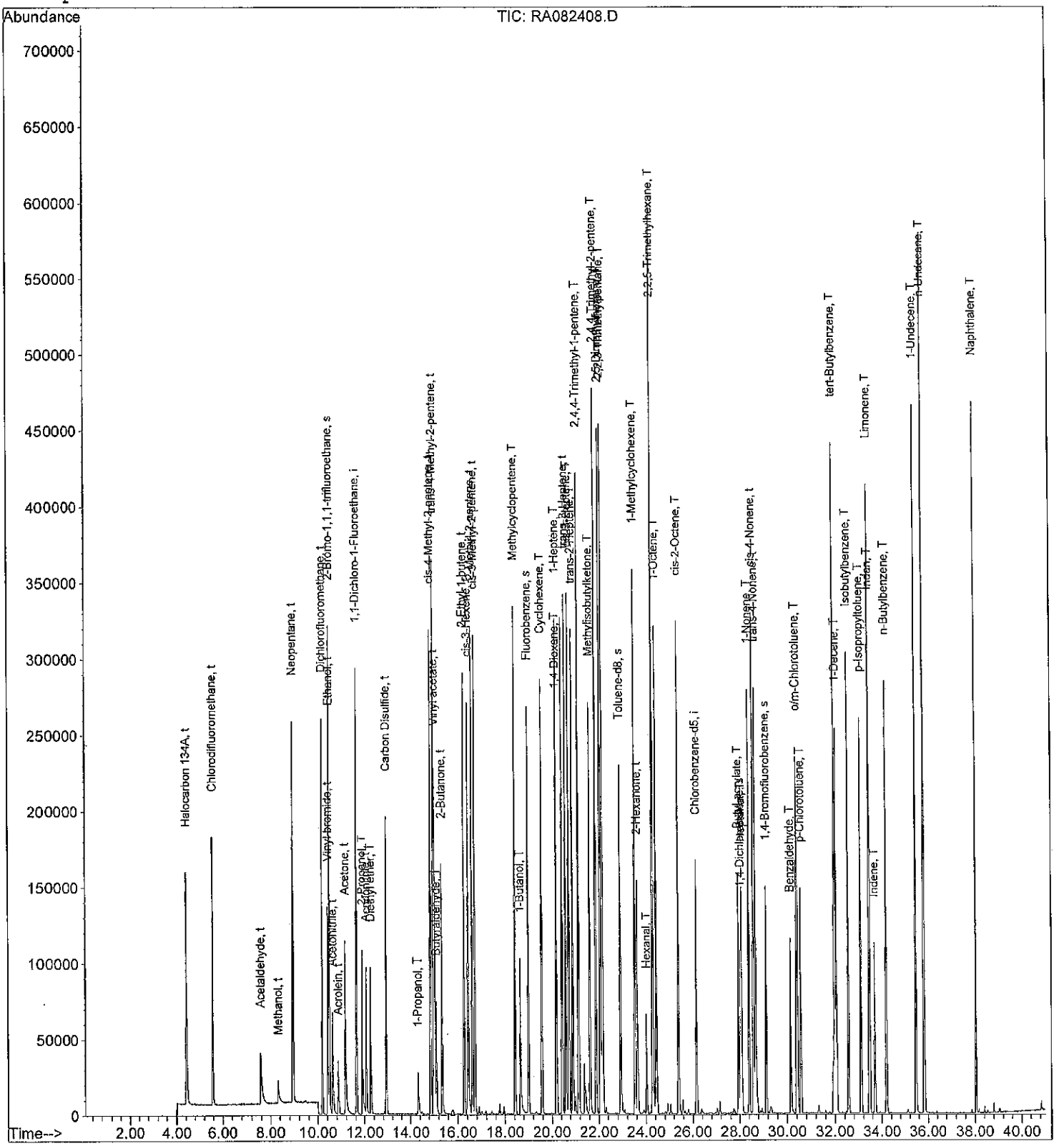
Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	295611	4.2434	ppbV		S	82
108) 2,5-Dimethylhexane	22.08	57	282726	4.1107	ppbV		S	87
109) 2,2,3-Trimethylpentane	22.17	57	487302	4.2244	ppbV	#	S	40
116) 2-Hexanone	23.63	43	149956	2.9122	ppbV	#	S	23
118) 1-Methylcyclohexene	23.53	81	195835	4.2134	ppbV		S	90
121) Hexanal	24.02	44	23763	3.0532	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	629876	4.5753	ppbV		S	95
124) 1-Octene	24.45	55	107684	3.3484	ppbV	#	S	1
127) cis-2-Octene	25.41	55	149001	3.5943	ppbV		S	91
132) Butyl acrylate	27.95	55	157984	3.7377	ppbV		S	86
133) Heptanal	28.09	70	35667	3.6257	ppbV	#	S	63
137) 1-Nonene	28.41	56	86274	2.9765	ppbV		S	96
138) cis-4-Nonene	28.59	55	205412	3.4210	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	165705	2.8506	ppbV		S	95
143) Benzaldehyde	30.17	77	60505	4.5445	ppbV	#	S	34
145) o/m-Chlorotoluene	30.42	91	300907	5.6398	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	135706	2.6915	ppbV	#	S	35
154) tert-Butylbenzene	32.00	119	305221	3.8178	ppbV	#	S	59
155) 1-Decene	32.07	56	66393	2.9746	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	286434	3.4335	ppbV	#	S	47
162) p-Isopropyltoluene	33.11	119	223702	3.5305	ppbV	#	S	44
164) Limonene	33.46	68	119289	3.3670	ppbV		S	82
165) Indan	33.49	117	112864	2.5090	ppbV		S	89
166) Indene	33.71	115	85387	2.7616	ppbV		S	94
169) n-Butylbenzene	34.19	91	256439	4.9559	ppbV	#	S	1
170) 1-Undecene	35.47	55	137576	5.7466	ppbV	#	S	54
171) n-Undecane	35.84	57	334195	4.8388	ppbV		S	77
173) Naphthalene	38.04	128	384869	6.8622	ppbV		S	95

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082408.D Vial: 1
Acq On : 24 Aug 2011 4:41 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:32 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082409.D Vial: 1
Acq On : 24 Aug 2011 5:48 pm Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8.25.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.63	81	291437	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.16	117	122198	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	116916	1.9863 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	18.99	96	276131	1.9011 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.00%	
113) Toluene-d8	22.92	98	219328	2.3576 ppbV	0.00
Spiked Amount 2.000			Recovery	= 118.00%	
115) 1,4-Dichlorobutane	28.05	90	17137	1.8746 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.50%	
141) 1,4-Bromofluorobenzene	29.14	95	79131	1.8231 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	

Target Compounds					Qvalue
6) Halocarbon 134A	4.42	69	168224	5.5263 ppbV S	85
8) Chlorodifluoromethane	5.56	51	395317	5.5923 ppbV S	97
14) Acetaldehyde	7.54	44	84898m	6.4538 ppbV S	
19) Methanol	8.31	31	38874m	5.5848 ppbV S	
21) Neopentane	8.93	57	683918	5.6420 ppbV S	98
22) Dichlorofluoromethane	10.18	67	499417	5.4455 ppbV S	97
26) Vinyl bromide	10.41	106	195984	5.3868 ppbV S	85
28) Ethanol	10.46	45	65493m	6.6629 ppbV S	
29) Acetonitrile	10.61	41	164904m	5.4108 ppbV S	
30) Acrolein	10.84	56	74073	5.4545 ppbV # S	45
34) Acetone	11.13	43	412030m	5.6582 ppbV S	
35) 2-Propanol	11.88	45	351244m	6.5843 ppbV S	
36) Acrylonitrile	12.06	52	137674	5.5509 ppbV # S	1
38) Diethyl ether	12.25	74	89631	5.3900 ppbV # S	1
45) Carbon Disulfide	12.92	76	596209	5.2032 ppbV S	94
52) 1-Propanol	14.31	59	34057	6.1776 ppbV # S	1
58) Vinyl acetate	15.03	43	675370	6.7287 ppbV # S	46
59) cis-4-Methyl-2-pentene	14.86	69	413365	6.2209 ppbV # S	100
60) trans-4-Methyl-2-pentene	14.99	69	471210	6.2333 ppbV S	92
61) Butyraldehyde	15.09	72	38591	5.8633 ppbV # S	1
62) 2-Butanone	15.31	43	509153m	6.8769 ppbV S	
70) 2-Ethyl-1-butene	16.25	69	245597	5.9216 ppbV # S	75
73) cis-3-Hexene	16.43	55	312844	5.6777 ppbV S	93
75) 2-Methyl-2-pentene	16.60	41	396238	5.5266 ppbV S	90
76) cis-3-Methyl-2-pentene	16.72	69	303418	5.9316 ppbV S	92
83) Methylcyclopentene	18.43	67	615291	8.9218 ppbV S	93
86) 1-Butanol	18.66	56	148012	7.3189 ppbV S	98
90) Cyclohexene	19.57	67	372790	8.1266 ppbV S	84
95) 1,4-Dioxane	20.16	88	67980	5.6622 ppbV # S	74
96) 1-Heptene	20.19	55	198920	7.0861 ppbV S	93
99) trans-3-Heptene	20.60	41	362138	7.8222 ppbV S	90
101) cis-3-Heptene	20.74	41	372665	7.7149 ppbV # S	14
102) trans-2-Heptene	20.89	55	312839	7.3233 ppbV # S	55
103) 2,4,4-Trimethyl-1-pentene	21.15	57	794210	8.2204 ppbV S	94
105) Methylisobutylketone	21.63	43	544824	7.6261 ppbV # S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082409.D Vial: 1
Acq On : 24 Aug 2011 5:48 pm Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

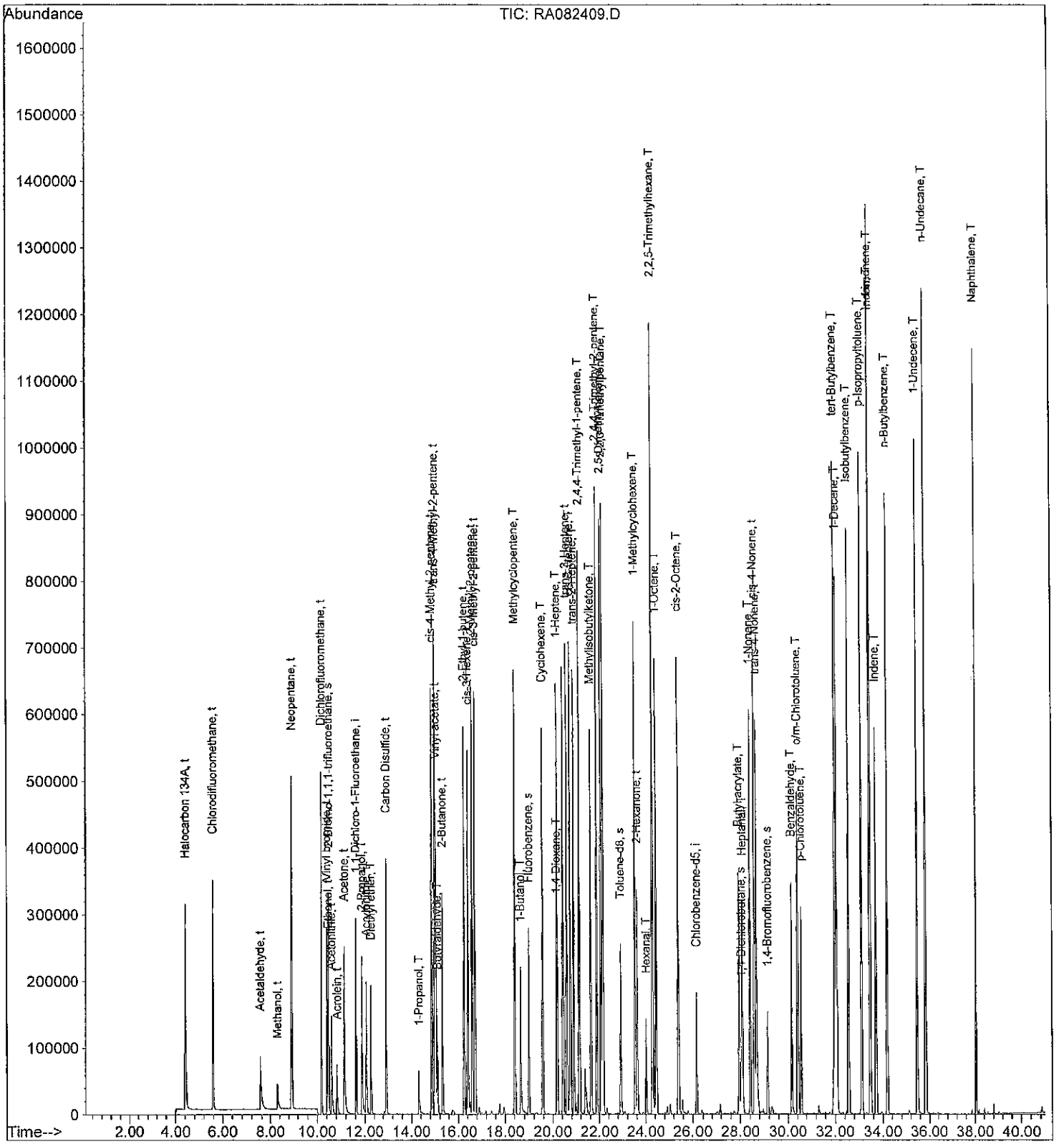
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107)	2,4,4-Trimethyl-2-pentene	21.89	55	598333	7.9041	ppbV		S	83
108)	2,5-Dimethylhexane	22.08	57	583417	7.8063	ppbV		S	90
109)	2,2,3-Trimethylpentane	22.17	57	981472	7.8300	ppbV	#	S	38
116)	2-Hexanone	23.63	43	324238	5.7947	ppbV	#	S	23
118)	1-Methylcyclohexene	23.53	81	410344	8.1248	ppbV		S	92
121)	Hexanal	24.02	44	52555	6.2141	ppbV	#	S	1
123)	2,2,5-Trimethylhexane	24.29	57	1270715	8.4943	ppbV		S	96
124)	1-Octene	24.45	55	232004	6.6388	ppbV	#	S	1
127)	cis-2-Octene	25.40	55	324494	7.2035	ppbV		S	94
132)	Butyl acrylate	27.95	55	367830	8.0086	ppbV		S	86
133)	Heptanal	28.09	70	80342	7.5159	ppbV	#	S	59
137)	1-Nonene	28.41	56	191241	6.0718	ppbV		S	98
138)	cis-4-Nonene	28.59	55	441924	6.7732	ppbV	#	S	100
139)	trans-4-Nonene	28.68	55	366508	5.8022	ppbV		S	94
143)	Benzaldehyde	30.16	77	186754	12.9086	ppbV	#	S	30
145)	o/m-Chlorotoluene	30.42	91	634644	10.9465	ppbV	#	S	1
146)	p-Chlorotoluene	30.57	91	287640	5.2500	ppbV	#	S	35
154)	tert-Butylbenzene	32.00	119	695247	8.0030	ppbV	#	S	58
155)	1-Decene	32.07	56	220164	9.0777	ppbV	#	S	1
160)	Isobutylbenzene	32.57	91	837384	9.2376	ppbV	#	S	46
162)	p-Isopropyltoluene	33.11	119	875910	12.7214	ppbV	#	S	42
164)	Limonene	33.47	68	400770	10.4099	ppbV		S	83
165)	Indan	33.49	117	424919	8.6930	ppbV		S	90
166)	Indene	33.71	115	459520	13.6771	ppbV		S	93
169)	n-Butylbenzene	34.19	91	860455	15.3031	ppbV	#	S	1
170)	1-Undecene	35.47	55	305037	11.7255	ppbV	#	S	55
171)	n-Undecane	35.84	57	733430	9.7726	ppbV		S	77
173)	Naphthalene	38.04	128	973267	15.9698	ppbV		S	96

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082409.D Vial: 1
Acq On : 24 Aug 2011 5:48 pm Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:39 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082410.D Vial: 1
Acq On : 24 Aug 2011 6:56 pm Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:46 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8.25.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.62	81	290023	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.16	117	137377	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.47	83	119734	2.0441 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 102.00%	
65) Fluorobenzene	18.99	96	299950	2.0751 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 104.00%	
113) Toluene-d8	22.92	98	240981	2.3041 ppbV	0.00
Spiked Amount 2.000			Recovery	= 115.00%	
115) 1,4-Dichlorobutane	28.05	90	18662	1.8158 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	
141) 1,4-Bromofluorobenzene	29.13	95	87665	1.7965 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.42	69	259115m	8.5536 ppbV	S	
8) Chlorodifluoromethane	5.57	51	599586m	8.5233 ppbV	S	
14) Acetaldehyde	7.52	44	130758m	9.9885 ppbV	S	
19) Methanol	8.29	31	59070m	8.5277 ppbV	S	
21) Neopentane	8.93	57	1052536	8.7253 ppbV	S	98
22) Dichlorofluoromethane	10.17	67	753278	8.2536 ppbV	S	97
26) Vinyl bromide	10.40	106	297887	8.2276 ppbV	S	84
28) Ethanol	10.46	45	96660m	9.8815 ppbV	S	
29) Acetonitrile	10.60	41	253418m	8.3556 ppbV	S	
30) Acrolein	10.83	56	116975	8.6556 ppbV #	S	47
34) Acetone	11.12	43	624324m	8.6154 ppbV	S	
35) 2-Propanol	11.88	45	480777m	9.0564 ppbV	S	
36) Acrylonitrile	12.05	52	207774m	8.4182 ppbV	S	
38) Diethyl ether	12.25	74	136722	8.2619 ppbV #	S	1
45) Carbon Disulfide	12.92	76	909011	7.9717 ppbV	S	96
52) 1-Propanol	14.30	59	45919	8.3698 ppbV #	S	1
58) Vinyl acetate	15.02	43	1070242	10.7148 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.85	69	632270	9.5617 ppbV #	S	97
60) trans-4-Methyl-2-pentene	14.98	69	725951	9.6499 ppbV	S	91
61) Butyraldehyde	15.09	72	60117	9.1784 ppbV #	S	1
62) 2-Butanone	15.31	43	798066m	10.8316 ppbV	S	
70) 2-Ethyl-1-butene	16.24	69	381863	9.2520 ppbV	S	75
73) cis-3-Hexene	16.41	55	493466	8.9995 ppbV	S	92
75) 2-Methyl-2-pentene	16.59	41	609329	8.5402 ppbV	S	91
76) cis-3-Methyl-2-pentene	16.72	69	467754	9.1888 ppbV	S	90
83) Methylcyclopentene	18.42	67	970022	12.5113 ppbV	S	94
86) 1-Butanol	18.66	56	132957m	5.8481 ppbV	S	
90) Cyclohexene	19.57	67	577131	11.1911 ppbV	S	86
95) 1,4-Dioxane	20.16	88	121380	8.9930 ppbV	S	76
96) 1-Heptene	20.19	55	313623	9.9378 ppbV	S	94
99) trans-3-Heptene	20.60	41	569997	10.9517 ppbV	S	91
101) cis-3-Heptene	20.74	41	581017	10.6991 ppbV #	S	13
102) trans-2-Heptene	20.89	55	497920	10.3680 ppbV #	S	58
103) 2,4,4-Trimethyl-1-pentene	21.14	57	1218800	11.2212 ppbV	S	96
105) Methylisobutylketone	21.63	43	861159	10.7221 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082410.D Vial: 1
Acq On : 24 Aug 2011 6:56 pm Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:46 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

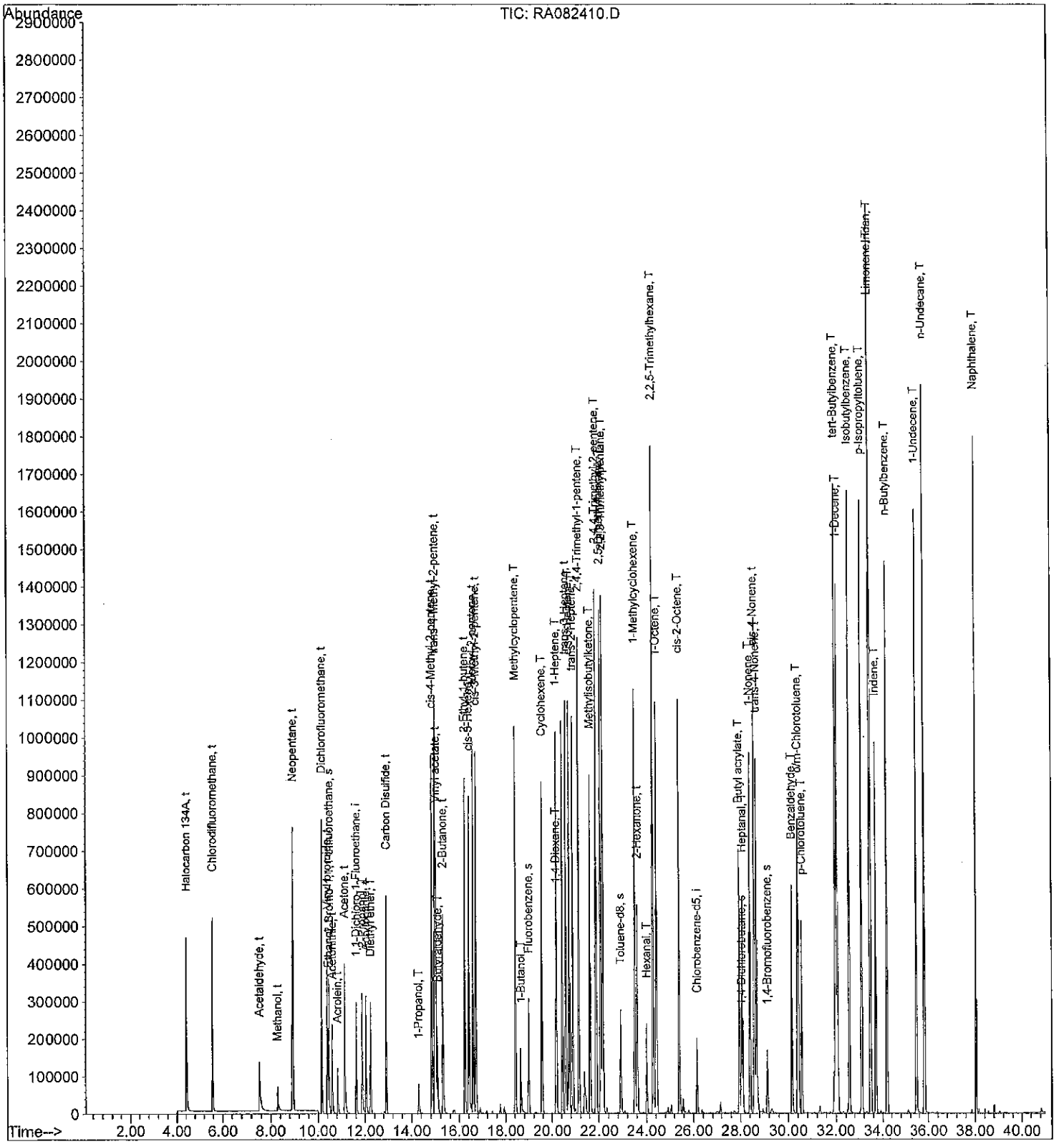
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	907647	10.6654 ppbV	S	86
108) 2,5-Dimethylhexane	22.07	57	894434	10.6455 ppbV	S	91
109) 2,2,3-Trimethylpentane	22.17	57	1500317	10.6468 ppbV #	S	38
116) 2-Hexanone	23.63	43	539732	8.5801 ppbV #	S	22
118) 1-Methylcyclohexene	23.53	81	638652	11.2480 ppbV	S	92
121) Hexanal	24.01	44	87745	9.2286 ppbV #	S	1
123) 2,2,5-Trimethylhexane	24.29	57	1944312	11.5610 ppbV	S	97
124) 1-Octene	24.44	55	369684	9.4097 ppbV #	S	1
127) cis-2-Octene	25.40	55	520410	10.2762 ppbV	S	93
132) Butyl acrylate	27.95	55	731607	14.1689 ppbV	S	86
133) Heptanal	28.10	70	149755	12.4615 ppbV #	S	57
137) 1-Nonene	28.41	56	313002	8.8396 ppbV	S	99
138) cis-4-Nonene	28.59	55	717650	9.7838 ppbV #	S	100
139) trans-4-Nonene	28.68	55	544183	7.6632 ppbV	S	96
143) Benzaldehyde	30.17	77	326084	20.0489 ppbV #	S	30
145) o/m-Chlorotoluene	30.42	91	1045888	16.0466 ppbV #	S	1
146) p-Chlorotoluene	30.58	91	479625	7.7868 ppbV #	S	34
154) tert-Butylbenzene	32.00	119	1208529	12.3743 ppbV #	S	58
155) 1-Decene	32.08	56	395952	14.5218 ppbV #	S	1
160) Isobutylbenzene	32.57	91	1600608	15.7061 ppbV #	S	46
162) p-Isopropyltoluene	33.11	119	1469215	18.9807 ppbV #	S	42
164) Limonene	33.47	68	708655	16.3733 ppbV	S	86
165) Indan	33.49	117	838262	15.2544 ppbV	S	90
166) Indene	33.71	115	792655	20.9857 ppbV	S	93
169) n-Butylbenzene	34.19	91	1377763	21.7959 ppbV #	S	1
170) 1-Undecene	35.48	55	478167	16.3497 ppbV #	S	58
171) n-Undecane	35.84	57	1179672	13.9817 ppbV	S	80
173) Naphthalene	38.03	128	1556396	22.7162 ppbV	S	96

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082410.D Vial: 1
Acq On : 24 Aug 2011 6:56 pm Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:46 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082411.D Vial: 1
Acq On : 24 Aug 2011 8:07 pm Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:53 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8.25.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.61	81	288895	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.16	117	144232	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.47	83	121794	2.0874 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 104.50%	
65) Fluorobenzene	18.99	96	307766	2.1375 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 107.00%	
113) Toluene-d8	22.92	98	251985	2.2948 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.50%	
115) 1,4-Dichlorobutane	28.05	90	19596	1.8161 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	
141) 1,4-Bromofluorobenzene	29.14	95	91666	1.7892 ppbV	0.01
Spiked Amount 2.000			Recovery	= 89.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.41	69	352788m	11.6913 ppbV	S	
8) Chlorodifluoromethane	5.56	51	806696m	11.5123 ppbV	S	
14) Acetaldehyde	7.51	44	176695m	13.5503 ppbV	S	
19) Methanol	8.29	31	76417m	11.0751 ppbV	S	
21) Neopentane	8.92	57	1428579	11.8889 ppbV	S	98
22) Dichlorofluoromethane	10.16	67	1006803	11.0745 ppbV	S	97
26) Vinyl bromide	10.40	106	405293	11.2379 ppbV	S	84
28) Ethanol	10.45	45	117749m	12.0845 ppbV	S	
29) Acetonitrile	10.60	41	339222m	11.2283 ppbV	S	
30) Acrolein	10.82	56	157773m	11.7200 ppbV	S	
34) Acetone	11.11	43	832210m	11.5289 ppbV	S	
35) 2-Propanol	11.88	45	548658m	10.3755 ppbV	S	
36) Acrylonitrile	12.05	52	285506	11.6127 ppbV #	S	1
38) Diethyl ether	12.24	74	184037	11.1645 ppbV #	S	1
45) Carbon Disulfide	12.91	76	1219689	10.7380 ppbV	S	95
52) 1-Propanol	14.30	59	50943	9.3218 ppbV #	S	1
58) Vinyl acetate	15.01	43	1453463	14.6082 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.85	69	861363	13.0771 ppbV #	S	100
60) trans-4-Methyl-2-pentene	14.98	69	979094	13.0657 ppbV	S	89
61) Butyraldehyde	15.08	72	82318	12.6171 ppbV #	S	1
62) 2-Butanone	15.30	43	1073198m	14.6227 ppbV	S	
70) 2-Ethyl-1-butene	16.24	69	521266	12.6789 ppbV	S	79
73) cis-3-Hexene	16.41	55	673861	12.3374 ppbV	S	92
75) 2-Methyl-2-pentene	16.59	41	816398	11.4871 ppbV	S	90
76) cis-3-Methyl-2-pentene	16.72	69	635824	12.5392 ppbV	S	88
83) Methylcyclopentene	18.42	67	1328930	16.3258 ppbV	S	93
86) 1-Butanol	18.65	56	131504m	5.5092 ppbV	S	
90) Cyclohexene	19.56	67	795272	14.6881 ppbV	S	86
95) 1,4-Dioxane	20.15	88	165665	11.6907 ppbV	S	78
96) 1-Heptene	20.19	55	430122	12.9815 ppbV	S	93
99) trans-3-Heptene	20.60	41	770362	14.0979 ppbV	S	91
101) cis-3-Heptene	20.74	41	788873	13.8363 ppbV #	S	14
102) trans-2-Heptene	20.89	55	687013	13.6255 ppbV #	S	58
103) 2,4,4-Trimethyl-1-pentene	21.14	57	1655837	14.5203 ppbV	S	97
105) Methylisobutylketone	21.63	43	1174637	13.9300 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082411.D Vial: 1
Acq On : 24 Aug 2011 8:07 pm Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:53 19111 Quant Results File: RA110612.RES

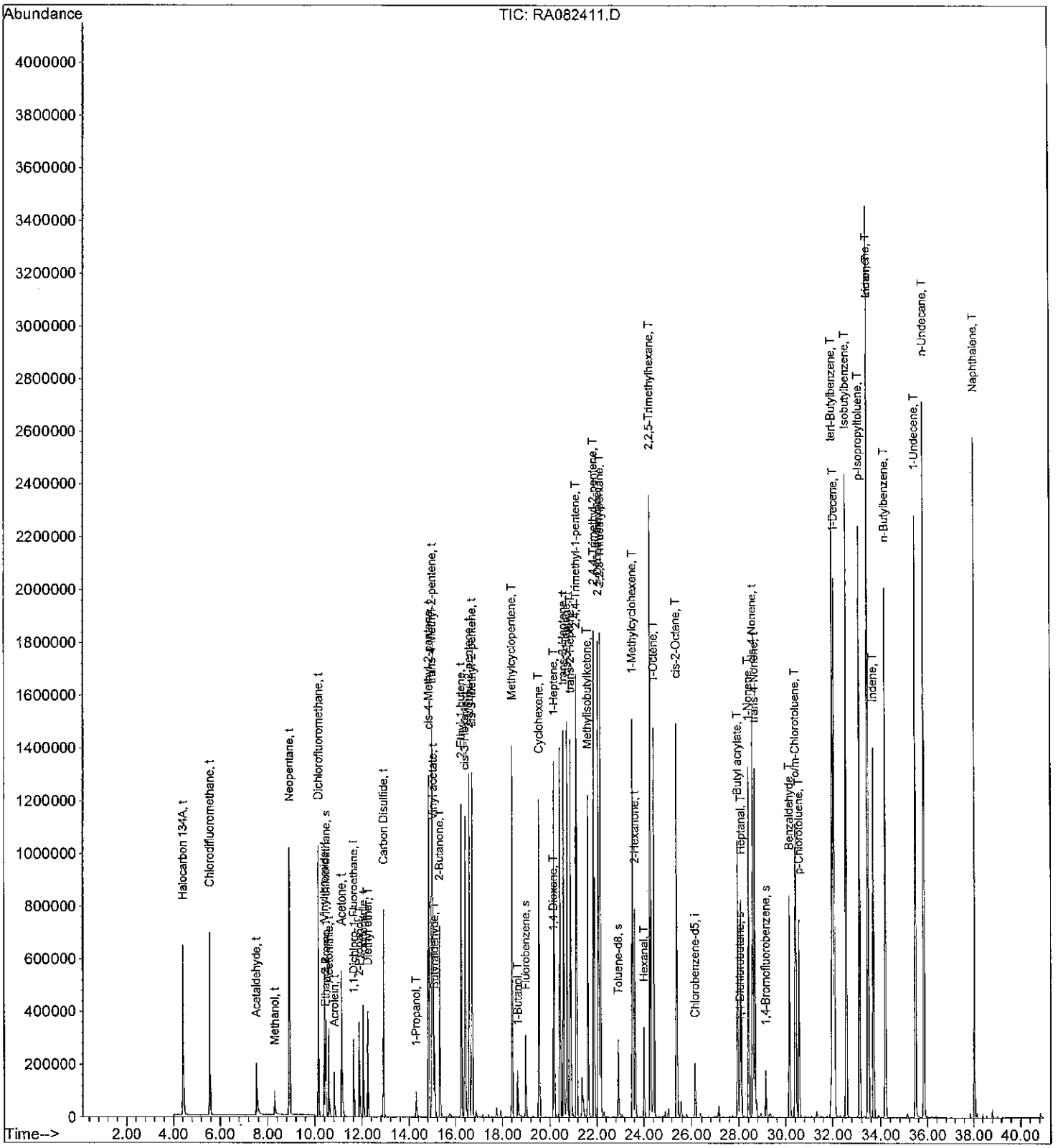
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107)	2,4,4-Trimethyl-2-pentene	21.89	55	1210970	13.5533	ppbV		S	86
108)	2,5-Dimethylhexane	22.08	57	1215107	13.7748	ppbV		S	93
109)	2,2,3-Trimethylpentane	22.17	57	2031899	13.7337	ppbV	#	S	37
116)	2-Hexanone	23.63	43	760102	11.5091	ppbV	#	S	22
118)	1-Methylcyclohexene	23.53	81	879985	14.7618	ppbV		S	93
121)	Hexanal	24.01	44	126051	12.6274	ppbV	#	S	1
123)	2,2,5-Trimethylhexane	24.29	57	2614130	14.8050	ppbV		S	97
124)	1-Octene	24.44	55	512527	12.4255	ppbV	#	S	1
127)	cis-2-Octene	25.40	55	722563	13.5899	ppbV		S	91
132)	Butyl acrylate	27.96	55	1083296	19.9829	ppbV		S	83
133)	Heptanal	28.10	70	219711	17.4138	ppbV	#	S	58
137)	1-Nonene	28.41	56	449169	12.0822	ppbV		S	95
138)	cis-4-Nonene	28.59	55	1012445	13.1467	ppbV	#	S	100
139)	trans-4-Nonene	28.68	55	771897	10.3532	ppbV		S	96
143)	Benzaldehyde	30.17	77	461402	27.0204	ppbV	#	S	29
145)	o/m-Chlorotoluene	30.42	91	1522196	22.2443	ppbV	#	S	1
146)	p-Chlorotoluene	30.58	91	706762	10.9291	ppbV	#	S	34
154)	tert-Butylbenzene	32.00	119	1770272	17.2645	ppbV	#	S	59
155)	1-Decene	32.08	56	582616	20.3523	ppbV	#	S	1
160)	Isobutylbenzene	32.57	91	2377628	22.2218	ppbV	#	S	46
162)	p-Isopropyltoluene	33.11	119	2072115	25.4973	ppbV	#	S	41
164)	Limonene	33.47	68	1018953	22.4238	ppbV		S	87
165)	Indan	33.49	117	1290965	22.3760	ppbV		S	92
166)	Indene	33.72	115	1137479	28.6837	ppbV		S	93
169)	n-Butylbenzene	34.20	91	1933309	29.1309	ppbV	#	S	1
170)	1-Undecene	35.48	55	694822	22.6285	ppbV	#	S	61
171)	n-Undecane	35.84	57	1695152	19.1364	ppbV		S	82
173)	Naphthalene	38.04	128	2320649	32.2610	ppbV		S	97

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082411.D Vial: 1
Acq On : 24 Aug 2011 8:07 pm Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:53 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	280235	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	101679	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	114479	2.0227 ppbV	0.01
Spiked Amount 2.000			Recovery	= 101.00%	
65) Fluorobenzene	19.00	96	252721	1.8095 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	
113) Toluene-d8	22.93	98	178378	2.3044 ppbV	0.01
Spiked Amount 2.000			Recovery	= 115.00%	
115) 1,4-Dichlorobutane	28.05	90	13898	1.8271 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.50%	
141) 1,4-Bromofluorobenzene	29.14	95	67898	1.8799 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.00%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	1971m	0.2428 ppbV	S	
4) Acetylene	3.54	26	4178	0.4040 ppbV	S	91
5) Ethane	3.62	26	1508	0.3609 ppbV	S	99
7) Propylene	5.22	41	6068	0.2750 ppbV	S	90
9) Propane	5.37	43	2943	0.2768 ppbV	S	86
10) Dichlorodifluoromethane	5.89	85	37894	0.2998 ppbV	S	97
11) Chloromethane	6.73	50	8988	0.2803 ppbV	S	92
12) Isobutane	7.39	43	18152	0.2836 ppbV	S	86
13) Halocarbon 114	7.60	85	33472	0.2960 ppbV	S	91
15) Vinyl chloride	7.82	62	10217	0.2881 ppbV	S	97
16) 1-Butene/Isobutene	8.26	41	12531	0.2781 ppbV	S	78
17) 1,3-Butadiene	8.37	39	8551	0.3032 ppbV	S	97
18) n-Butane	8.52	43	15898	0.2764 ppbV	S	96
20) trans-2-Butene	8.90	41	11787	0.2799 ppbV	S	89
23) Bromomethane	9.07	94	9480	0.2828 ppbV	S	89
24) cis-2-Butene	9.38	41	12501	0.2950 ppbV	S	87
25) Chloroethane	9.67	64	5504	0.2838 ppbV	S	89
27) 3-Methyl-1-butene	10.47	55	25841	0.3022 ppbV	S	79
31) Isopentane	11.09	41	12583	0.2847 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	36817	0.3073 ppbV #	S	67
33) 1-Pentene	11.67	42	13791	0.2933 ppbV #	S	1
37) n-Pentane	12.10	43	18599	0.2957 ppbV	S	84
39) Isoprene	12.27	67	12269	0.2924 ppbV	S	92
40) trans-2-Pentene	12.43	55	20864	0.2920 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	20458	0.3047 ppbV #	S	9
42) cis-2-Pentene	12.72	55	19704	0.2776 ppbV #	S	1
43) Methylene chloride	12.85	49	13288	0.2899 ppbV #	S	1
44) 2-Methyl-2-butene	12.91	55	21297	0.2969 ppbV #	S	1
46) 3-Chloropropene	13.01	41	11785	0.3149 ppbV #	S	1
47) Halocarbon 113	13.32	151	14353	0.3024 ppbV #	S	100
48) Neohexane	13.48	43	14987	0.2908 ppbV #	S	1
49) Cyclopentene	14.18	67	21889	0.2879 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.34	61	16824	0.3071 ppbV #	S	1
51) 4-Methyl-1-pentene	14.38	43	15146	0.2940 ppbV	S	89
53) 1,1-Dichloroethane	14.64	63	23963	0.3574 ppbV	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.62	42	19028	0.3224	ppbV		S	81
55)	2,3-Dimethylbutane	14.73	43	26014	0.3346	ppbV	#	S	59
56)	Methyl tert-butyl ether	14.84	73	30007m	0.3420	ppbV		S	
57)	Isohexane	14.94	42	13823m	0.3591	ppbV		S	
63)	Chloroprene	15.52	53	21333	0.3545	ppbV		S	81
64)	3-Methylpentane	15.54	57	21824	0.3294	ppbV		S	93
66)	2-Methyl-1-pentene	15.77	56	17765	0.2882	ppbV	#	S	1
67)	1-Hexene	15.80	41	12887m	0.3088	ppbV		S	
68)	cis-1,2-Dichloroethene	15.94	61	17764	0.3043	ppbV	#	S	1
69)	Bromochloromethane	16.17	130	7938	0.2816	ppbV	#	S	1
71)	n-Hexane	16.30	57	17329	0.2915	ppbV	#	S	1
72)	Chloroform	16.41	83	28868	0.2966	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	20636	0.2769	ppbV	#	S	1
77)	cis-2-Hexene	16.92	55	16308	0.2499	ppbV		S	96
78)	Methylcyclopentane	17.42	56	20914	0.2808	ppbV		S	86
79)	1,2-Dichloroethane	17.46	62	22565	0.2743	ppbV		S	87
80)	2,4-Dimethylpentane	17.61	43	25434	0.2993	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.80	97	32218	0.2952	ppbV	#	S	1
84)	Benzene	18.48	78	25445	0.4526	ppbV		S	76
85)	Carbon tetrachloride	18.71	117	31746	0.5056	ppbV	#	S	1
87)	Cyclohexane	18.88	56	18386	0.5218	ppbV	#	S	1
88)	Isoheptane	19.27	43	25897	0.4878	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.35	56	22399m	0.4910	ppbV		S	
91)	3-Methylhexane	19.64	43	20582	0.4931	ppbV	#	S	70
92)	1,2-Dichloropropane	19.75	63	9935	0.4161	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	23735	0.3916	ppbV	#	S	1
94)	Trichloroethene	20.14	130	10130	0.3941	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	60734	0.4918	ppbV		S	88
98)	2-Chloropentane	20.46	70	12836	0.3845	ppbV	#	S	14
100)	n-Heptane	20.70	71	9526	0.4435	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	11286	0.3320	ppbV	#	S	1
106)	Methylcyclohexane	21.62	83	19155	0.4661	ppbV		S	97
110)	trans-1,3-Dichloropropene	22.41	75	10716	0.3130	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	7132	0.3143	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.88	43	35624	0.5145	ppbV		S	93
114)	Toluene	23.08	91	21428	0.3447	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	23945	0.4595	ppbV	#	S	28
119)	Dibromochloromethane	23.77	129	12796	0.3020	ppbV	#	S	37
120)	3-Methylheptane	23.85	85	13162	0.4296	ppbV	#	S	1
122)	1,2-Dibromoethane	24.18	107	10332	0.3153	ppbV	#	S	1
125)	n-Octane	24.92	43	19573	0.3693	ppbV	#	S	47
126)	Tetrachloroethene	25.02	164	8016	0.3216	ppbV		S	92
128)	Chlorobenzene	26.23	112	10814	0.2746	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	18754	0.2798	ppbV		S	92
130)	m/p-Xylene	27.36	91	33419m	0.5520	ppbV		S	
131)	Bromoform	27.38	173	7867	0.2726	ppbV	#	S	1
134)	Styrene	28.03	104	8015	0.2565	ppbV	#	S	27
135)	1,1,2,2-Tetrachloroethane	28.23	83	11869	0.2966	ppbV		S	92
136)	o-Xylene	28.22	91	17534	0.2897	ppbV		S	85
140)	n-Nonane	28.85	43	15238	0.2867	ppbV	#	S	73
142)	Isopropylbenzene	29.45	105	24259	0.2630	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

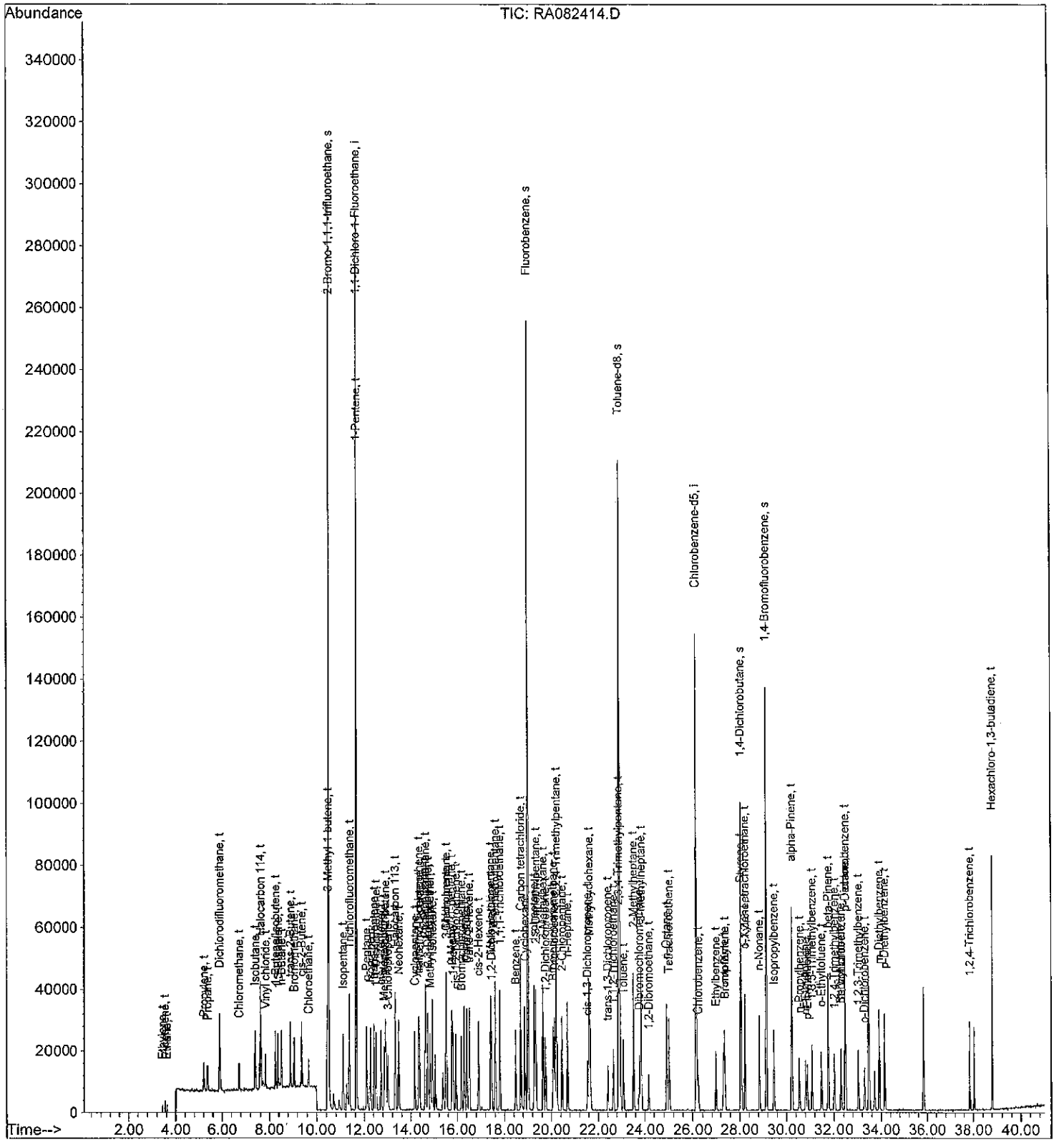
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.24	93	35954	0.4862	ppbV		S	95
147)	n-Propylbenzene	30.56	91	20673	0.2360	ppbV	#	S	35
148)	m-Ethyltoluene	30.81	105	15451	0.2409	ppbV		S	88
149)	p-Ethyltoluene	30.90	105	13780	0.2207	ppbV		S	89
150)	1,3,5-Trimethylbenzene	31.10	105	18196	0.2860	ppbV		S	81
151)	o-Ethyltoluene	31.48	105	17052	0.2433	ppbV		S	92
152)	beta-Pinene	31.76	93	24147	0.3119	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	15223	0.2786	ppbV	#	S	1
156)	Benzyl chloride	32.29	91	9138	0.2971	ppbV		S	97
157)	m-Dichlorobenzene	32.31	146	6500	0.2458	ppbV		S	84
158)	n-Decane	32.47	57	19296m	0.3651	ppbV		S	
159)	p-Dichlorobenzene	32.47	146	5915	0.2376	ppbV		S	74
161)	1,2,3-Trimethylbenzene	33.03	105	16786	0.3001	ppbV		S	89
163)	o-Dichlorobenzene	33.30	146	7253	0.3055	ppbV		S	84
167)	m-Diethylbenzene	33.91	105	17862	0.4486	ppbV	#	S	24
168)	p-Diethylbenzene	34.15	119	14994	0.4762	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	37.84	180	9260	0.4563	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	15715	0.3666	ppbV		S	95

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

AEM 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	281748	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	106787	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	113931	2.0022 ppbV	0.01
Spiked Amount 2.000			Recovery	= 100.00%	
65) Fluorobenzene	19.00	96	258247	1.8391 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.00%	
113) Toluene-d8	22.92	98	189206	2.3273 ppbV	0.00
Spiked Amount 2.000			Recovery	= 116.50%	
115) 1,4-Dichlorobutane	28.06	90	15049	1.8837 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.00%	
141) 1,4-Bromofluorobenzene	29.14	95	71125	1.8751 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.00%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	4763m	0.5836 ppbV	S	
4) Acetylene	3.54	26	8598m	0.8269 ppbV	S	
5) Ethane	3.62	26	3263	0.7768 ppbV	S	97
7) Propylene	5.21	41	12607	0.5683 ppbV	S	93
9) Propane	5.37	43	5689	0.5322 ppbV	S	80
10) Dichlorodifluoromethane	5.89	85	73857	0.5812 ppbV	S	98
11) Chloromethane	6.73	50	18079	0.5608 ppbV	S	98
12) Isobutane	7.38	43	36150	0.5617 ppbV	S	93
13) Halocarbon 114	7.60	85	67482	0.5935 ppbV	S	88
15) Vinyl chloride	7.82	62	19973	0.5602 ppbV	S	98
16) 1-Butene/Isobutene	8.26	41	25849	0.5707 ppbV	S	75
17) 1,3-Butadiene	8.37	39	17555	0.6191 ppbV	S	97
18) n-Butane	8.52	43	32641	0.5645 ppbV	S	94
20) trans-2-Butene	8.90	41	24305	0.5740 ppbV	S	89
23) Bromomethane	9.06	94	19230	0.5705 ppbV	S	91
24) cis-2-Butene	9.37	41	25677	0.6027 ppbV	S	90
25) Chloroethane	9.66	64	10993	0.5638 ppbV	S	93
27) 3-Methyl-1-butene	10.46	55	51076	0.5942 ppbV	S	78
31) Isopentane	11.09	41	25346	0.5704 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	75124	0.6236 ppbV #	S	73
33) 1-Pentene	11.67	42	28065	0.5936 ppbV #	S	1
37) n-Pentane	12.10	43	37546	0.5937 ppbV #	S	83
39) Isoprene	12.26	67	24606	0.5832 ppbV	S	96
40) trans-2-Pentene	12.42	55	42799	0.5958 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	41294	0.6118 ppbV #	S	10
42) cis-2-Pentene	12.72	55	42348	0.5934 ppbV #	S	1
43) Methylene chloride	12.85	49	27583	0.5986 ppbV #	S	1
44) 2-Methyl-2-butene	12.90	55	44482	0.6167 ppbV #	S	1
46) 3-Chloropropene	13.01	41	26211	0.6966 ppbV #	S	1
47) Halocarbon 113	13.32	151	29146	0.6107 ppbV #	S	100
48) Neohexane	13.47	43	31176	0.6017 ppbV #	S	1
49) Cyclopentene	14.17	67	44559	0.5830 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.34	61	34598	0.6282 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	31103	0.6005 ppbV	S	90
53) 1,1-Dichloroethane	14.64	63	49514	0.7346 ppbV	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.62	42	39721	0.6693	ppbV		S	80
55)	2,3-Dimethylbutane	14.73	43	52851	0.6760	ppbV	#	S	65
56)	Methyl tert-butyl ether	14.83	73	64490	0.7310	ppbV	#	S	1
57)	Isohexane	14.93	42	27531m	0.7114	ppbV		S	
63)	Chloroprene	15.51	53	44434	0.7344	ppbV		S	80
64)	3-Methylpentane	15.53	57	44933	0.6746	ppbV		S	93
66)	2-Methyl-1-pentene	15.77	56	39191	0.6324	ppbV	#	S	1
67)	1-Hexene	15.80	41	24403m	0.5817	ppbV		S	
68)	cis-1,2-Dichloroethene	15.94	61	36021	0.6137	ppbV	#	S	1
69)	Bromochloromethane	16.17	130	16096	0.5680	ppbV	#	S	1
71)	n-Hexane	16.30	57	36453	0.6098	ppbV	#	S	1
72)	Chloroform	16.41	83	59642	0.6094	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	45650	0.6092	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	36117	0.5505	ppbV		S	95
78)	Methylcyclopentane	17.43	56	45401	0.6062	ppbV		S	89
79)	1,2-Dichloroethane	17.45	62	49243	0.5953	ppbV		S	89
80)	2,4-Dimethylpentane	17.61	43	52596	0.6156	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.81	97	66707	0.6078	ppbV	#	S	1
84)	Benzene	18.48	78	54189	0.9177	ppbV		S	75
85)	Carbon tetrachloride	18.70	117	64791	0.9826	ppbV	#	S	1
87)	Cyclohexane	18.87	56	39827	1.0762	ppbV	#	S	1
88)	Isoheptane	19.27	43	55648	0.9981	ppbV	#	S	32
89)	2,3-Dimethylpentane	19.34	56	46679m	0.9743	ppbV		S	
91)	3-Methylhexane	19.65	43	43199	0.9855	ppbV	#	S	84
92)	1,2-Dichloropropane	19.75	63	20828	0.8305	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	51996	0.8168	ppbV	#	S	1
94)	Trichloroethene	20.14	130	21167	0.7841	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	127356	0.9819	ppbV		S	91
98)	2-Chloropentane	20.46	70	28948	0.8256	ppbV	#	S	14
100)	n-Heptane	20.69	71	19985	0.8859	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	25213	0.7062	ppbV	#	S	1
106)	Methylcyclohexane	21.62	83	41443	0.9601	ppbV		S	96
110)	trans-1,3-Dichloropropene	22.42	75	24186	0.6726	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.66	97	16554	0.6947	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	72897	1.0024	ppbV		S	91
114)	Toluene	23.09	91	46956	0.7192	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	51721	0.9451	ppbV	#	S	1
119)	Dibromochloromethane	23.77	129	28757	0.6463	ppbV	#	S	38
120)	3-Methylheptane	23.85	85	29021	0.9018	ppbV	#	S	1
122)	1,2-Dibromoethane	24.18	107	22338	0.6491	ppbV	#	S	1
125)	n-Octane	24.92	43	45655	0.8203	ppbV	#	S	47
126)	Tetrachloroethene	25.02	164	17644	0.6741	ppbV		S	96
128)	Chlorobenzene	26.24	112	24935	0.6029	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	44081	0.6261	ppbV		S	97
130)	m/p-Xylene	27.35	91	78569m	1.2357	ppbV		S	
131)	Bromoform	27.38	173	17498	0.5773	ppbV	#	S	1
134)	Styrene	28.02	104	18078	0.5508	ppbV	#	S	22
135)	1,1,2,2-Tetrachloroethane	28.23	83	25138	0.5980	ppbV		S	93
136)	o-Xylene	28.23	91	41147	0.6473	ppbV		S	84
140)	n-Nonane	28.84	43	36748	0.6583	ppbV	#	S	70
142)	Isopropylbenzene	29.46	105	57729	0.5959	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

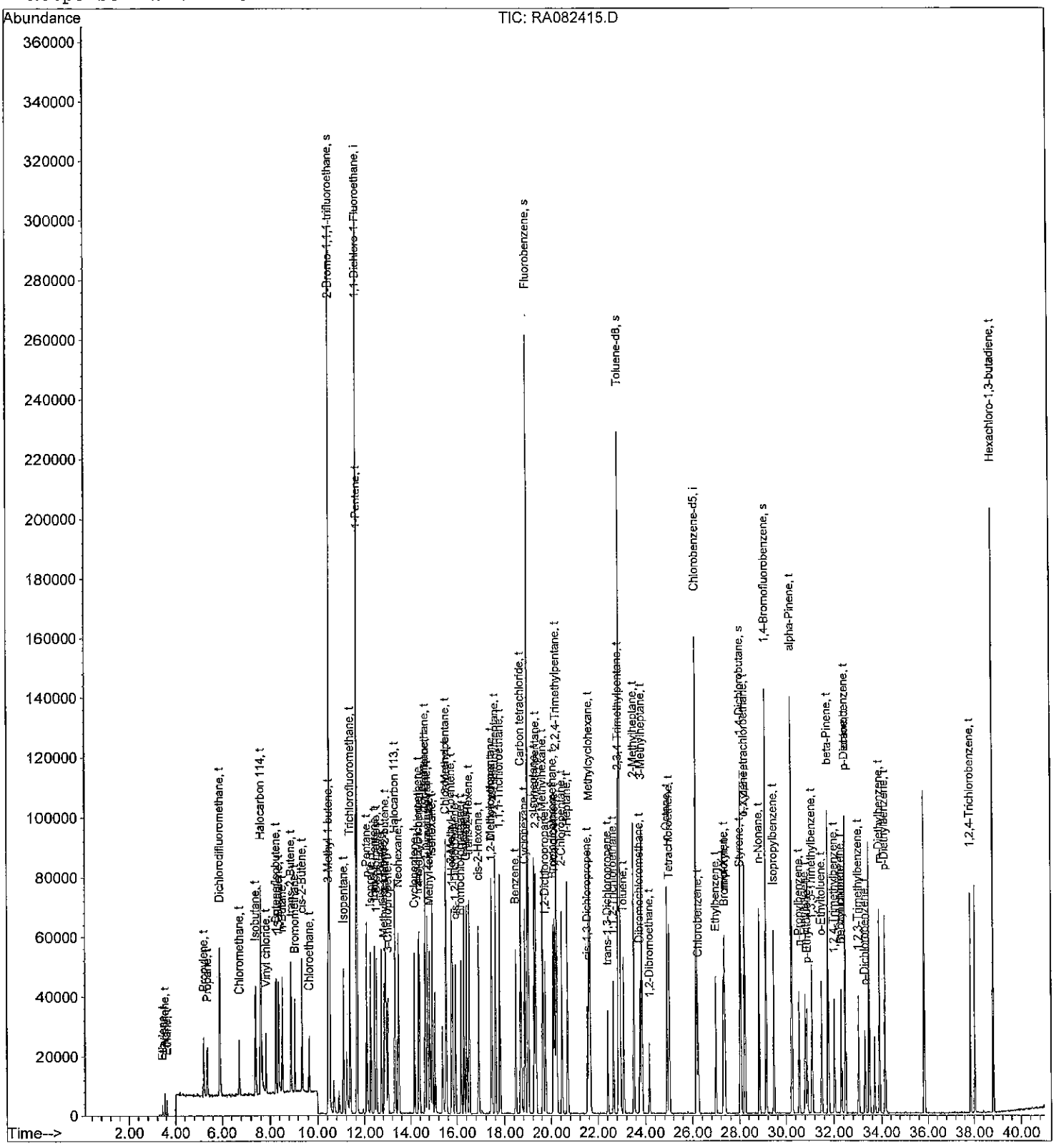
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
144)	alpha-Pinene	30.25	93	79260	1.0205 ppbV	S	96
147)	n-Propylbenzene	30.56	91	46665	0.5073 ppbV #	S	36
148)	m-Ethyltoluene	30.81	105	35006	0.5197 ppbV	S	87
149)	p-Ethyltoluene	30.89	105	32336	0.4932 ppbV	S	84
150)	1,3,5-Trimethylbenzene	31.10	105	41885	0.6269 ppbV	S	83
151)	o-Ethyltoluene	31.49	105	40609	0.5518 ppbV	S	86
152)	beta-Pinene	31.77	93	53952	0.6636 ppbV #	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	34127	0.5947 ppbV #	S	1
156)	Benzyl chloride	32.30	91	16897	0.5232 ppbV	S	94
157)	m-Dichlorobenzene	32.30	146	14111	0.5082 ppbV	S	84
158)	n-Decane	32.47	57	39716m	0.7154 ppbV	S	
159)	p-Dichlorobenzene	32.47	146	13021	0.4980 ppbV	S	79
161)	1,2,3-Trimethylbenzene	33.04	105	34583	0.5887 ppbV	S	85
163)	o-Dichlorobenzene	33.29	146	14669	0.5884 ppbV	S	91
167)	m-Diethylbenzene	33.92	105	38141	0.9120 ppbV #	S	25
168)	p-Diethylbenzene	34.15	119	31216	0.9440 ppbV #	S	1
172)	1,2,4-Trichlorobenzene	37.85	180	23065	1.0822 ppbV #	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	37598	0.8350 ppbV	S	89

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	277742	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	104069	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	111959	1.9959 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
65) Fluorobenzene	19.00	96	252767	1.8260 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.50%	
113) Toluene-d8	22.92	98	187975	2.3726 ppbV	0.00
Spiked Amount 2.000			Recovery	= 118.50%	
115) 1,4-Dichlorobutane	28.06	90	14724	1.8912 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.50%	
141) 1,4-Bromofluorobenzene	29.13	95	70784	1.9148 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.50%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	9370m	1.1647 ppbV	S	
4) Acetylene	3.54	26	16460	1.6058 ppbV	S	91
5) Ethane	3.62	26	5911	1.4274 ppbV	S	95
7) Propylene	5.21	41	24520	1.1212 ppbV	S	96
9) Propane	5.37	43	11111	1.0543 ppbV	S	89
10) Dichlorodifluoromethane	5.88	85	146453	1.1691 ppbV	S	99
11) Chloromethane	6.73	50	34387	1.0821 ppbV	S	96
12) Isobutane	7.37	43	71206	1.1224 ppbV	S	93
13) Halocarbon 114	7.59	85	125454	1.1193 ppbV	S	88
15) Vinyl chloride	7.81	62	38543	1.0966 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	48850	1.0940 ppbV	S	74
17) 1,3-Butadiene	8.36	39	33484	1.1979 ppbV	S	94
18) n-Butane	8.52	43	60588	1.0629 ppbV	S	93
20) trans-2-Butene	8.89	41	45543	1.0911 ppbV	S	93
23) Bromomethane	9.06	94	36011	1.0838 ppbV	S	91
24) cis-2-Butene	9.37	41	48577	1.1567 ppbV	S	90
25) Chloroethane	9.64	64	20350	1.0587 ppbV	S	91
27) 3-Methyl-1-butene	10.46	55	94864	1.1195 ppbV	S	79
31) Isopentane	11.08	41	47425	1.0826 ppbV #	S	1
32) Trichlorofluoromethane	11.35	101	138460	1.1659 ppbV #	S	69
33) 1-Pentene	11.66	42	51448	1.1039 ppbV #	S	1
37) n-Pentane	12.09	43	69788	1.1194 ppbV #	S	84
39) Isoprene	12.26	67	45182	1.0863 ppbV	S	93
40) trans-2-Pentene	12.42	55	79438	1.1218 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	77619	1.1665 ppbV #	S	9
42) cis-2-Pentene	12.71	55	77978	1.1085 ppbV #	S	1
43) Methylene chloride	12.83	49	51009	1.1230 ppbV #	S	1
44) 2-Methyl-2-butene	12.89	55	81699	1.1490 ppbV #	S	1
46) 3-Chloropropene	13.00	41	48049	1.2954 ppbV #	S	1
47) Halocarbon 113	13.31	151	53399	1.1350 ppbV #	S	100
48) Neohexane	13.46	43	57525	1.1263 ppbV #	S	1
49) Cyclopentene	14.17	67	84478	1.1212 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.33	61	63371	1.1673 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	56710	1.1107 ppbV	S	90
53) 1,1-Dichloroethane	14.62	63	91064	1.3705 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.61	42	75961	1.2985	ppbV		S	82
55)	2,3-Dimethylbutane	14.72	43	97282	1.2623	ppbV	#	S	62
56)	Methyl tert-butyl ether	14.81	73	122729	1.4112	ppbV	#	S	1
57)	Isohexane	14.93	42	51433m	1.3482	ppbV		S	
63)	Chloroprene	15.50	53	81639	1.3687	ppbV		S	77
64)	3-Methylpentane	15.52	57	84721	1.2903	ppbV		S	95
66)	2-Methyl-1-pentene	15.76	56	79542	1.3021	ppbV	#	S	1
67)	1-Hexene	15.80	41	50060m	1.2105	ppbV		S	
68)	cis-1,2-Dichloroethene	15.93	61	68210	1.1789	ppbV	#	S	1
69)	Bromochloromethane	16.16	130	30280	1.0839	ppbV	#	S	1
71)	n-Hexane	16.29	57	70296	1.1929	ppbV	#	S	1
72)	Chloroform	16.40	83	107630	1.1157	ppbV	#	S	1
74)	trans-2-Hexene	16.50	55	84307	1.1413	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	69357	1.0724	ppbV		S	95
78)	Methylcyclopentane	17.42	56	84951	1.1507	ppbV		S	86
79)	1,2-Dichloroethane	17.45	62	86351	1.0590	ppbV		S	90
80)	2,4-Dimethylpentane	17.61	43	99792	1.1848	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.80	97	125658	1.1615	ppbV	#	S	1
84)	Benzene	18.47	78	101842	1.7698	ppbV		S	77
85)	Carbon tetrachloride	18.70	117	123367	1.9198	ppbV	#	S	1
87)	Cyclohexane	18.87	56	73744	2.0447	ppbV	#	S	1
88)	Isoheptane	19.26	43	106160	1.9539	ppbV	#	S	31
89)	2,3-Dimethylpentane	19.33	56	87144m	1.8665	ppbV		S	
91)	3-Methylhexane	19.65	43	82285	1.9262	ppbV	#	S	80
92)	1,2-Dichloropropane	19.75	63	38904	1.5918	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	93936	1.5142	ppbV	#	S	1
94)	Trichloroethene	20.13	130	38269	1.4547	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	238866	1.8898	ppbV		S	90
98)	2-Chloropentane	20.45	70	56077	1.6411	ppbV	#	S	14
100)	n-Heptane	20.69	71	39907	1.8152	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	43894	1.2616	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	79887	1.8991	ppbV		S	96
110)	trans-1,3-Dichloropropene	22.41	75	42996	1.2269	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	29654	1.2769	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	138176	1.9496	ppbV		S	93
114)	Toluene	23.09	91	88890	1.3971	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	100577	1.8858	ppbV	#	S	6
119)	Dibromochloromethane	23.77	129	52485	1.2104	ppbV	#	S	38
120)	3-Methylheptane	23.85	85	55762	1.7780	ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	35876	1.0698	ppbV	#	S	1
125)	n-Octane	24.91	43	90033	1.6599	ppbV	#	S	47
126)	Tetrachloroethene	25.02	164	31707	1.2430	ppbV		S	94
128)	Chlorobenzene	26.24	112	45471	1.1282	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	91008	1.3265	ppbV		S	98
130)	m/p-Xylene	27.31	91	155632m	2.5117	ppbV		S	
131)	Bromoform	27.38	173	32422	1.0976	ppbV	#	S	1
134)	Styrene	28.02	104	36099	1.1286	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	48534	1.1848	ppbV		S	93
136)	o-Xylene	28.22	91	81938	1.3227	ppbV		S	89
140)	n-Nonane	28.84	43	75546	1.3887	ppbV	#	S	70
142)	Isopropylbenzene	29.45	105	116310	1.2319	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

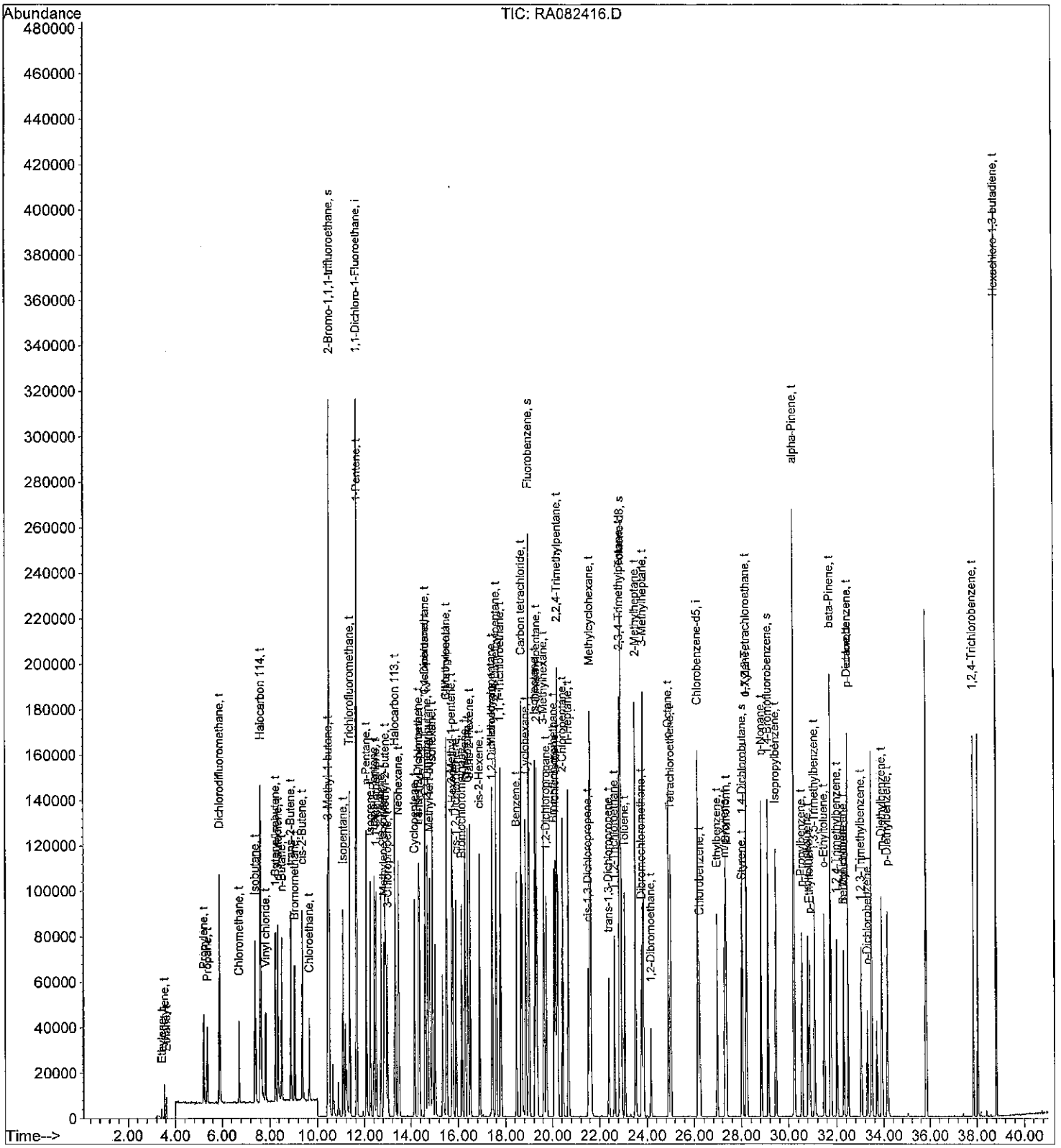
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.24	93	154033	2.0351	ppbV		S	95
147)	n-Propylbenzene	30.56	91	97495	1.0875	ppbV	#	S	34
148)	m-Ethyltoluene	30.81	105	71652	1.0916	ppbV		S	89
149)	p-Ethyltoluene	30.89	105	65727	1.0287	ppbV		S	86
150)	1,3,5-Trimethylbenzene	31.10	105	82379	1.2651	ppbV		S	90
151)	o-Ethyltoluene	31.49	105	81834	1.1410	ppbV		S	89
152)	beta-Pinene	31.77	93	106644	1.3459	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	67008	1.1982	ppbV	#	S	1
156)	Benzyl chloride	32.30	91	26915	0.8551	ppbV		S	97
157)	m-Dichlorobenzene	32.30	146	27307	1.0091	ppbV		S	85
158)	n-Decane	32.47	57	65710	1.2146	ppbV		S	68
159)	p-Dichlorobenzene	32.48	146	24667	0.9681	ppbV		S	83
161)	1,2,3-Trimethylbenzene	33.04	105	66517	1.1618	ppbV		S	87
163)	o-Dichlorobenzene	33.29	146	24713	1.0172	ppbV		S	92
167)	m-Diethylbenzene	33.91	105	53778	1.3195	ppbV	#	S	28
168)	p-Diethylbenzene	34.15	119	44062m	1.3673	ppbV		S	
172)	1,2,4-Trichlorobenzene	37.85	180	51261	2.4679	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	78894	1.7980	ppbV		S	93

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	280664	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	116150	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	112400	1.9829 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
65) Fluorobenzene	19.00	96	272300	1.9467 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
113) Toluene-d8	22.92	98	206718	2.3378 ppbV	0.00
Spiked Amount 2.000			Recovery	= 117.00%	
115) 1,4-Dichlorobutane	28.06	90	16627	1.9135 ppbV	0.02
Spiked Amount 2.000			Recovery	= 95.50%	
141) 1,4-Bromofluorobenzene	29.13	95	76130	1.8452 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	22709m	2.7933 ppbV	S	
4) Acetylene	3.54	26	40321	3.8927 ppbV	S	91
5) Ethane	3.62	26	11616	2.7759 ppbV	S	99
7) Propylene	5.21	41	59296	2.6832 ppbV	S	94
9) Propane	5.36	43	26990	2.5344 ppbV	S	92
10) Dichlorodifluoromethane	5.88	85	346789	2.7396 ppbV	S	98
11) Chloromethane	6.73	50	85290	2.6559 ppbV	S	98
12) Isobutane	7.37	43	172198	2.6860 ppbV	S	94
13) Halocarbon 114	7.58	85	300207	2.6505 ppbV	S	88
15) Vinyl chloride	7.81	62	95300	2.6832 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	120491	2.6704 ppbV	S	76
17) 1,3-Butadiene	8.36	39	82337	2.9149 ppbV	S	95
18) n-Butane	8.52	43	147922	2.5681 ppbV	S	96
20) trans-2-Butene	8.89	41	110744	2.6256 ppbV	S	89
23) Bromomethane	9.06	94	87101	2.5942 ppbV	S	94
24) cis-2-Butene	9.37	41	117560	2.7702 ppbV	S	89
25) Chloroethane	9.64	64	49466	2.5466 ppbV	S	93
27) 3-Methyl-1-butene	10.46	55	234524	2.7389 ppbV	S	80
31) Isopentane	11.08	41	111783	2.5252 ppbV #	S	1
32) Trichlorofluoromethane	11.35	101	323795	2.6981 ppbV #	S	71
33) 1-Pentene	11.67	42	126086	2.6771 ppbV #	S	1
37) n-Pentane	12.09	43	169656	2.6930 ppbV	S	85
39) Isoprene	12.26	67	112931	2.6869 ppbV	S	93
40) trans-2-Pentene	12.42	55	197262	2.7566 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	186149	2.7685 ppbV #	S	10
42) cis-2-Pentene	12.72	55	191962	2.7004 ppbV #	S	1
43) Methylene chloride	12.84	49	121876	2.6553 ppbV #	S	1
44) 2-Methyl-2-butene	12.90	55	203625	2.8340 ppbV #	S	1
46) 3-Chloropropene	13.01	41	118809	3.1697 ppbV #	S	1
47) Halocarbon 113	13.31	151	127573	2.6834 ppbV #	S	100
48) Neohexane	13.47	43	137146	2.6573 ppbV #	S	1
49) Cyclopentene	14.17	67	204935	2.6916 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.33	61	153293	2.7943 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	138721	2.6887 ppbV	S	88
53) 1,1-Dichloroethane	14.63	63	220418	3.2826 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.62	42	182492	3.0870	ppbV		S	81
55)	2,3-Dimethylbutane	14.72	43	238981	3.0687	ppbV	#	S	65
56)	Methyl tert-butyl ether	14.81	73	301884	3.4350	ppbV	#	S	1
57)	Isohexane	14.93	42	125140m	3.2460	ppbV		S	
63)	Chloroprene	15.50	53	211236	3.5046	ppbV		S	79
64)	3-Methylpentane	15.53	57	205742	3.1008	ppbV		S	96
66)	2-Methyl-1-pentene	15.76	56	190086	3.0793	ppbV	#	S	1
67)	1-Hexene	15.80	41	122029m	2.9200	ppbV		S	
68)	cis-1,2-Dichloroethene	15.93	61	170575	2.9173	ppbV	#	S	1
69)	Bromochloromethane	16.17	130	74002	2.6215	ppbV	#	S	1
71)	n-Hexane	16.29	57	175584	2.9487	ppbV	#	S	1
72)	Chloroform	16.40	83	268405	2.7532	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	217758	2.9172	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	175835	2.6904	ppbV		S	97
78)	Methylcyclopentane	17.43	56	209082	2.8026	ppbV		S	89
79)	1,2-Dichloroethane	17.45	62	223755	2.7154	ppbV		S	90
80)	2,4-Dimethylpentane	17.61	43	240639	2.8272	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.80	97	302611	2.7681	ppbV	#	S	1
84)	Benzene	18.48	78	263712	4.1062	ppbV		S	81
85)	Carbon tetrachloride	18.70	117	295915	4.1260	ppbV	#	S	1
87)	Cyclohexane	18.87	56	175837	4.3683	ppbV	#	S	1
88)	Isoheptane	19.27	43	260440	4.2948	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.34	56	211949m	4.0674	ppbV		S	
91)	3-Methylhexane	19.65	43	202837	4.2544	ppbV	#	S	78
92)	1,2-Dichloropropane	19.75	63	102680	3.7642	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	246048	3.5535	ppbV	#	S	1
94)	Trichloroethene	20.14	130	105257	3.5848	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	585857	4.1528	ppbV		S	91
98)	2-Chloropentane	20.45	70	149075	3.9089	ppbV	#	S	11
100)	n-Heptane	20.70	71	100769	4.1069	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	135176	3.4812	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	192957	4.1100	ppbV		S	95
110)	trans-1,3-Dichloropropene	22.41	75	131413	3.3598	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	80025	3.0874	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	340093	4.2995	ppbV		S	94
114)	Toluene	23.09	91	244108	3.4376	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	249277	4.1877	ppbV	#	S	11
119)	Dibromochloromethane	23.77	129	140248	2.8980	ppbV	#	S	41
120)	3-Methylheptane	23.85	85	139124	3.9747	ppbV	#	S	1
122)	1,2-Dibromoethane	24.18	107	110147	2.9428	ppbV	#	S	1
125)	n-Octane	24.91	43	235165	3.8847	ppbV	#	S	48
126)	Tetrachloroethene	25.02	164	86217	3.0285	ppbV		S	94
128)	Chlorobenzene	26.23	112	125124	2.7816	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	249395	3.2569	ppbV		S	97
130)	m/p-Xylene	27.31	91	421763m	6.0988	ppbV		S	
131)	Bromoform	27.38	173	85959	2.6073	ppbV	#	S	1
134)	Styrene	28.02	104	101449	2.8418	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	132396	2.8958	ppbV		S	94
136)	o-Xylene	28.23	91	220108	3.1835	ppbV		S	89
140)	n-Nonane	28.84	43	197819	3.2582	ppbV	#	S	73
142)	Isopropylbenzene	29.45	105	312269	2.9635	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

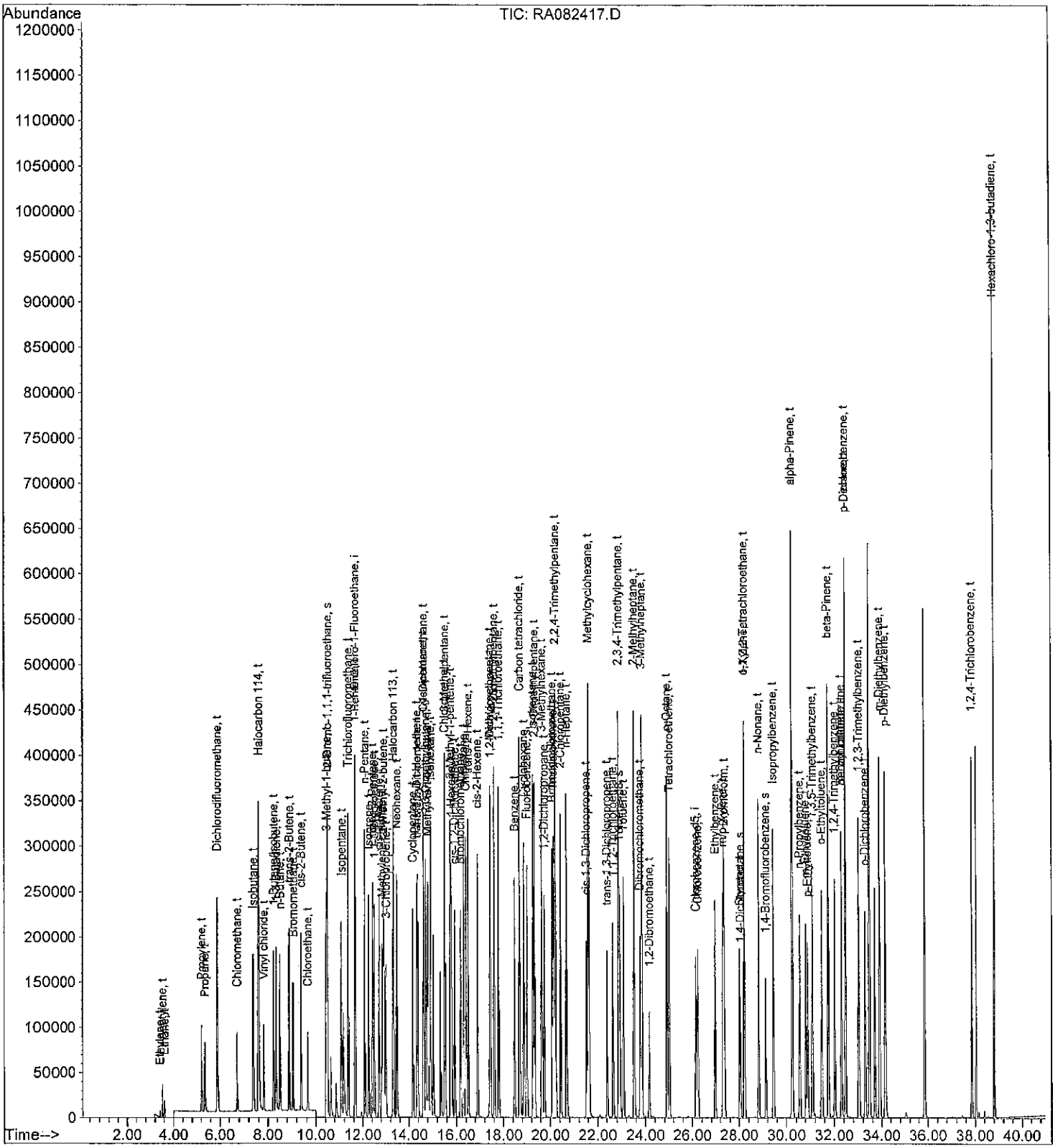
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.24	93	382717	4.5306	ppbV		S	95
147)	n-Propylbenzene	30.56	91	265570	2.6542	ppbV	#	S	35
148)	m-Ethyltoluene	30.82	105	202203	2.7600	ppbV		S	90
149)	p-Ethyltoluene	30.90	105	182416	2.5581	ppbV		S	88
150)	1,3,5-Trimethylbenzene	31.09	105	244477	3.3640	ppbV		S	87
151)	o-Ethyltoluene	31.49	105	241628	3.0184	ppbV		S	89
152)	beta-Pinene	31.77	93	270176	3.0552	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	232311	3.7221	ppbV	#	S	1
156)	Benzyl chloride	32.30	91	168721	4.8027	ppbV		S	99
157)	m-Dichlorobenzene	32.30	146	88422	2.9276	ppbV		S	84
158)	n-Decane	32.48	57	260278	4.3107	ppbV		S	77
159)	p-Dichlorobenzene	32.48	146	91417	3.2148	ppbV		S	82
161)	1,2,3-Trimethylbenzene	33.04	105	302489	4.7338	ppbV		S	84
163)	o-Dichlorobenzene	33.29	146	126795	4.6759	ppbV		S	93
167)	m-Diethylbenzene	33.92	105	232429	5.1096	ppbV	#	S	28
168)	p-Diethylbenzene	34.15	119	194983	5.4212	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	37.85	180	126132	5.4409	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	196945	4.0215	ppbV		S	94

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	282994	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	137343	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	114746	2.0076 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
65) Fluorobenzene	19.00	96	295961	2.0984 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	
113) Toluene-d8	22.92	98	239836	2.2938 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.50%	
115) 1,4-Dichlorobutane	28.05	90	19497	1.8976 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.00%	
141) 1,4-Bromofluorobenzene	29.13	95	88976	1.8238 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.00%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	43373m	5.2912 ppbV	S	
4) Acetylene	3.54	26	82922	7.9397 ppbV	S	91
5) Ethane	3.62	26	21347	5.0594 ppbV	S	99
7) Propylene	5.21	41	124077	5.5684 ppbV	S	98
9) Propane	5.36	43	55071	5.1287 ppbV	S	93
10) Dichlorodifluoromethane	5.88	85	683080	5.3518 ppbV	S	99
11) Chloromethane	6.72	50	171297	5.2903 ppbV	S	96
12) Isobutane	7.37	43	350892	5.4283 ppbV	S	94
13) Halocarbon 114	7.58	85	594788	5.2081 ppbV	S	87
15) Vinyl chloride	7.81	62	194347	5.4269 ppbV	S	98
16) 1-Butene/Isobutene	8.25	41	244909	5.3831 ppbV	S	77
17) 1,3-Butadiene	8.36	39	166404	5.8426 ppbV	S	96
18) n-Butane	8.51	43	299502	5.1569 ppbV	S	95
20) trans-2-Butene	8.89	41	224943	5.2891 ppbV	S	90
23) Bromomethane	9.05	94	178323	5.2673 ppbV	S	93
24) cis-2-Butene	9.37	41	240781	5.6271 ppbV	S	88
25) Chloroethane	9.64	64	101246	5.1695 ppbV	S	92
27) 3-Methyl-1-butene	10.45	55	469397	5.4366 ppbV	S	81
31) Isopentane	11.08	41	220705	4.9446 ppbV #	S	1
32) Trichlorofluoromethane	11.35	101	634340	5.2422 ppbV #	S	71
33) 1-Pentene	11.66	42	254781	5.3651 ppbV #	S	1
37) n-Pentane	12.08	43	336295	5.2942 ppbV	S	85
39) Isoprene	12.26	67	227483	5.3678 ppbV	S	93
40) trans-2-Pentene	12.41	55	394631	5.4693 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	370173	5.4600 ppbV #	S	9
42) cis-2-Pentene	12.71	55	383509	5.3506 ppbV #	S	1
43) Methylene chloride	12.83	49	242024	5.2296 ppbV #	S	1
44) 2-Methyl-2-butene	12.90	55	408170	5.6341 ppbV #	S	1
46) 3-Chloropropene	13.00	41	236430	6.2557 ppbV #	S	1
47) Halocarbon 113	13.30	151	250653	5.2289 ppbV #	S	100
48) Neohexane	13.46	43	270977	5.2071 ppbV #	S	1
49) Cyclopentene	14.17	67	411879	5.3651 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.33	61	300714	5.4363 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	277521	5.3347 ppbV	S	91
53) 1,1-Dichloroethane	14.62	63	448031	6.6175 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.61	42	371690	6.2357	ppbV		S	82
55)	2,3-Dimethylbutane	14.72	43	482458	6.1441	ppbV	#	S	63
56)	Methyl tert-butyl ether	14.80	73	616069	6.9522	ppbV	#	S	1
57)	Isohexane	14.93	42	251250	6.4636	ppbV	#	S	47
63)	Chloroprene	15.50	53	427603	7.0359	ppbV		S	80
64)	3-Methylpentane	15.53	57	417303	6.2375	ppbV		S	97
66)	2-Methyl-1-pentene	15.76	56	378534	6.0817	ppbV	#	S	1
67)	1-Hexene	15.80	41	231914m	5.5036	ppbV		S	
68)	cis-1,2-Dichloroethene	15.93	61	342507	5.8097	ppbV	#	S	1
69)	Bromochloromethane	16.16	130	148796	5.2277	ppbV	#	S	1
71)	n-Hexane	16.29	57	363709	6.0577	ppbV	#	S	1
72)	Chloroform	16.40	83	540182	5.4955	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	451689	6.0012	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	367482	5.5765	ppbV		S	94
78)	Methylcyclopentane	17.43	56	434559	5.7771	ppbV		S	92
79)	1,2-Dichloroethane	17.45	62	448518	5.3983	ppbV		S	89
80)	2,4-Dimethylpentane	17.61	43	497413	5.7959	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.79	97	605337	5.4917	ppbV	#	S	1
84)	Benzene	18.48	78	561570	7.3948	ppbV		S	81
85)	Carbon tetrachloride	18.70	117	587687	6.9297	ppbV	#	S	1
87)	Cyclohexane	18.87	56	368531	7.7427	ppbV	#	S	1
88)	Isoheptane	19.27	43	524491	7.3145	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.34	56	439368m	7.1307	ppbV		S	
91)	3-Methylhexane	19.65	43	421247	7.4721	ppbV	#	S	80
92)	1,2-Dichloropropane	19.75	63	219288	6.7986	ppbV	#	S	1
93)	Bromodichloromethane	20.07	83	517331	6.3186	ppbV	#	S	1
94)	Trichloroethene	20.14	130	226472	6.5230	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	1197500	7.1786	ppbV		S	93
98)	2-Chloropentane	20.45	70	322627	7.1543	ppbV	#	S	11
100)	n-Heptane	20.70	71	217678	7.5026	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	304266	6.6267	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	396640	7.1447	ppbV		S	91
110)	trans-1,3-Dichloropropene	22.41	75	296866	6.4186	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	180146	5.8777	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	697248	7.4545	ppbV		S	94
114)	Toluene	23.09	91	550129	6.5516	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	520436	7.3939	ppbV	#	S	12
119)	Dibromochloromethane	23.77	129	308961	5.3991	ppbV	#	S	44
120)	3-Methylheptane	23.85	85	295558	7.1410	ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	243205	5.4951	ppbV	#	S	1
125)	n-Octane	24.92	43	515506	7.2017	ppbV	#	S	49
126)	Tetrachloroethene	25.02	164	194490	5.7775	ppbV		S	97
128)	Chlorobenzene	26.23	112	287501	5.4051	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	578938	6.3939	ppbV		S	98
130)	m/p-Xylene	27.35	91	969639m	11.8576	ppbV		S	
131)	Bromoform	27.38	173	191923	4.9230	ppbV	#	S	1
134)	Styrene	28.02	104	240004	5.6856	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	402456	7.4444	ppbV		S	95
136)	o-Xylene	28.23	91	500822	6.1258	ppbV		S	90
140)	n-Nonane	28.84	43	449897	6.2666	ppbV	#	S	73
142)	Isopropylbenzene	29.46	105	725106	5.8195	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

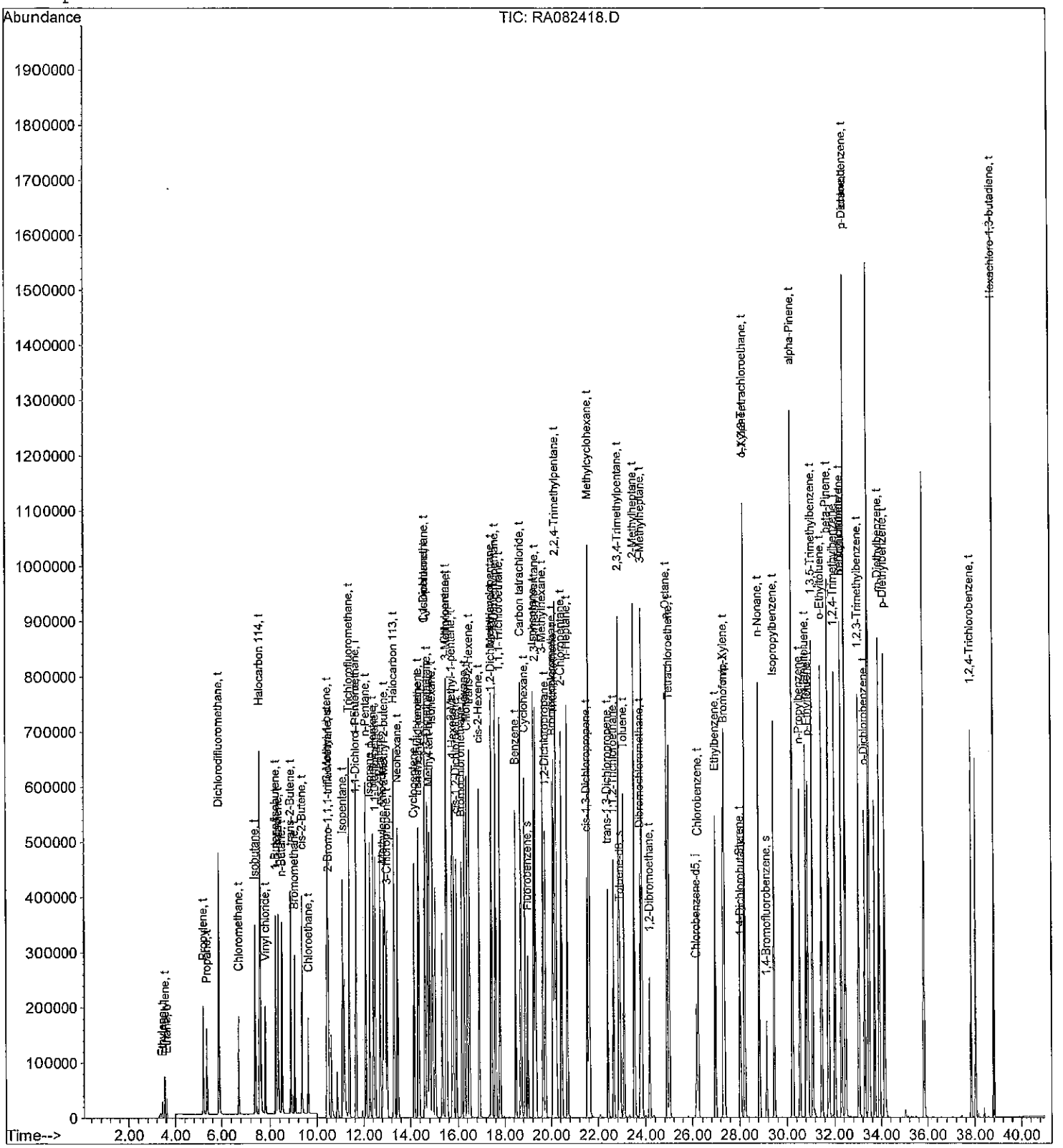
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.24	93	787945	7.8883	ppbV		S	95
147)	n-Propylbenzene	30.56	91	720081	6.0863	ppbV	#	S	35
148)	m-Ethyltoluene	30.81	105	653706	7.5460	ppbV		S	91
149)	p-Ethyltoluene	30.90	105	597705	7.0885	ppbV		S	89
150)	1,3,5-Trimethylbenzene	31.09	105	774513	9.0129	ppbV		S	88
151)	o-Ethyltoluene	31.49	105	799151	8.4426	ppbV		S	88
152)	beta-Pinene	31.77	93	573334	5.4829	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	727367	9.8557	ppbV	#	S	1
156)	Benzyl chloride	32.30	91	406538	9.7866	ppbV		S	98
157)	m-Dichlorobenzene	32.30	146	306445	8.5805	ppbV		S	86
158)	n-Decane	32.48	57	588510	8.2428	ppbV		S	78
159)	p-Dichlorobenzene	32.48	146	295952	8.8015	ppbV		S	85
161)	1,2,3-Trimethylbenzene	33.04	105	727759	9.6317	ppbV		S	87
163)	o-Dichlorobenzene	33.30	146	315085	9.8266	ppbV		S	96
167)	m-Diethylbenzene	33.92	105	514539	9.5659	ppbV	#	S	27
168)	p-Diethylbenzene	34.15	119	425995	10.0165	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	37.85	180	231020	8.4276	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	344831	5.9547	ppbV		S	95

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.63	81	280518	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.16	117	150473	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.48	83	117480	2.0736 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 103.50%	
65) Fluorobenzene	18.99	96	313274	2.2407 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.00%	
113) Toluene-d8	22.92	98	259535	2.2656 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.50%	
115) 1,4-Dichlorobutane	28.05	90	23445	2.0827 ppbV	0.01
Spiked Amount 2.000			Recovery	= 104.00%	
141) 1,4-Bromofluorobenzene	29.13	95	100867	1.8872 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	

Target Compounds						Qvalue
3) Ethylene	3.31	26	71238m	8.7673 ppbV	S	
4) Acetylene	3.54	26	130553	12.6106 ppbV	S	91
5) Ethane	3.62	26	28855	6.8992 ppbV	S	98
7) Propylene	5.21	41	195853	8.8672 ppbV	S	98
9) Propane	5.36	43	86576	8.1339 ppbV	S	95
10) Dichlorodifluoromethane	5.87	85	1042868	8.2428 ppbV	S	99
11) Chloromethane	6.72	50	270856	8.4389 ppbV	S	98
12) Isobutane	7.37	43	548691	8.5631 ppbV	S	97
13) Halocarbon 114	7.58	85	911591	8.0525 ppbV	S	89
15) Vinyl chloride	7.80	62	307785	8.6703 ppbV	S	99
16) 1-Butene/Isobutene	8.24	41	382806	8.4884 ppbV	S	77
17) 1,3-Butadiene	8.35	39	255460	9.0485 ppbV	S	95
18) n-Butane	8.50	43	464322	8.0653 ppbV	S	97
20) trans-2-Butene	8.88	41	350723	8.3194 ppbV	S	89
23) Bromomethane	9.04	94	276239	8.2316 ppbV	S	95
24) cis-2-Butene	9.36	41	370267	8.7296 ppbV	S	89
25) Chloroethane	9.63	64	160043	8.2437 ppbV	S	94
27) 3-Methyl-1-butene	10.44	55	721220	8.4270 ppbV	S	82
31) Isopentane	11.07	41	351108	7.9356 ppbV #	S	1
32) Trichlorofluoromethane	11.34	101	938703	7.8260 ppbV #	S	71
33) 1-Pentene	11.65	42	389312	8.2704 ppbV #	S	1
37) n-Pentane	12.07	43	511115	8.1174 ppbV #	S	83
39) Isoprene	12.25	67	353542	8.4159 ppbV	S	94
40) trans-2-Pentene	12.40	55	606694	8.4826 ppbV #	S	1
41) 1,1-Dichloroethene	12.49	61	555665	8.2684 ppbV #	S	9
42) cis-2-Pentene	12.70	55	591153	8.3204 ppbV #	S	1
43) Methylene chloride	12.82	49	366652	7.9924 ppbV #	S	1
44) 2-Methyl-2-butene	12.88	55	625829	8.7147 ppbV #	S	1
46) 3-Chloropropene	12.99	41	360682	9.6276 ppbV #	S	1
47) Halocarbon 113	13.30	151	377325	7.9410 ppbV #	S	100
48) Neohexane	13.46	43	415065	8.0463 ppbV #	S	1
49) Cyclopentene	14.15	67	633484	8.3245 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.32	61	456949	8.3337 ppbV #	S	1
51) 4-Methyl-1-pentene	14.36	43	418971	8.1248 ppbV	S	92
53) 1,1-Dichloroethane	14.61	63	681813	10.1593 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.60	42	570693	9.6588	ppbV		S	83
55)	2,3-Dimethylbutane	14.71	43	751315	9.6525	ppbV	#	S	62
56)	Methyl tert-butyl ether	14.79	73	959975	10.9287	ppbV	#	S	1
57)	Isohexane	14.92	42	392758m	10.1932	ppbV		S	
63)	Chloroprene	15.49	53	649547	10.7822	ppbV		S	80
64)	3-Methylpentane	15.52	57	649982	9.8011	ppbV		S	97
66)	2-Methyl-1-pentene	15.75	56	579361	9.3904	ppbV	#	S	1
67)	1-Hexene	15.79	41	366848m	8.7827	ppbV		S	
68)	cis-1,2-Dichloroethene	15.92	61	528620	9.0457	ppbV	#	S	1
69)	Bromochloromethane	16.15	130	231515	8.2056	ppbV	#	S	1
71)	n-Hexane	16.28	57	569114	9.5625	ppbV	#	S	1
72)	Chloroform	16.39	83	825688	8.4742	ppbV	#	S	1
74)	trans-2-Hexene	16.50	55	703773	9.4330	ppbV	#	S	1
77)	cis-2-Hexene	16.89	55	581207	8.8977	ppbV		S	94
78)	Methylcyclopentane	17.41	56	677435	9.0854	ppbV		S	92
79)	1,2-Dichloroethane	17.44	62	680257	8.2597	ppbV		S	90
80)	2,4-Dimethylpentane	17.60	43	764355	8.9850	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.79	97	912829	8.3544	ppbV	#	S	1
84)	Benzene	18.47	78	891832	10.7190	ppbV		S	83
85)	Carbon tetrachloride	18.69	117	880435	9.4758	ppbV	#	S	1
87)	Cyclohexane	18.86	56	568822	10.9079	ppbV	#	S	1
88)	Isoheptane	19.25	43	813642	10.3569	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.33	56	683080m	10.1186	ppbV		S	
91)	3-Methylhexane	19.64	43	646260	10.4631	ppbV	#	S	80
92)	1,2-Dichloropropane	19.74	63	353808	10.0120	ppbV	#	S	1
93)	Bromodichloromethane	20.07	83	806997	8.9965	ppbV	#	S	1
94)	Trichloroethene	20.13	130	357149	9.3892	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.21	57	1860688	10.1809	ppbV		S	94
98)	2-Chloropentane	20.45	70	511209	10.3470	ppbV	#	S	10
100)	n-Heptane	20.69	71	347156	10.9212	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.53	75	497539	9.8905	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	620725	10.2056	ppbV		S	95
110)	trans-1,3-Dichloropropene	22.41	75	486879	9.6084	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	295143	8.7894	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	1078574	10.5252	ppbV		S	94
114)	Toluene	23.09	91	903277	9.8187	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	799132	10.3628	ppbV	#	S	9
119)	Dibromochloromethane	23.77	129	496191	7.9143	ppbV	#	S	46
120)	3-Methylheptane	23.85	85	465343	10.2621	ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	398834	8.2252	ppbV	#	S	1
125)	n-Octane	24.91	43	818018	10.4306	ppbV	#	S	50
126)	Tetrachloroethene	25.02	164	318100	8.6249	ppbV		S	98
128)	Chlorobenzene	26.23	112	478725	8.2148	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	969779	9.7758	ppbV		S	98
130)	m/p-Xylene	27.35	91	1597984m	17.8364	ppbV		S	
131)	Bromoform	27.38	173	312427	7.3148	ppbV	#	S	1
134)	Styrene	28.02	104	407689	8.8152	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	673946	11.3784	ppbV		S	96
136)	o-Xylene	28.23	91	816927	9.1203	ppbV		S	90
140)	n-Nonane	28.84	43	727791	9.2528	ppbV		S	76
142)	Isopropylbenzene	29.45	105	1216567	8.9119	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

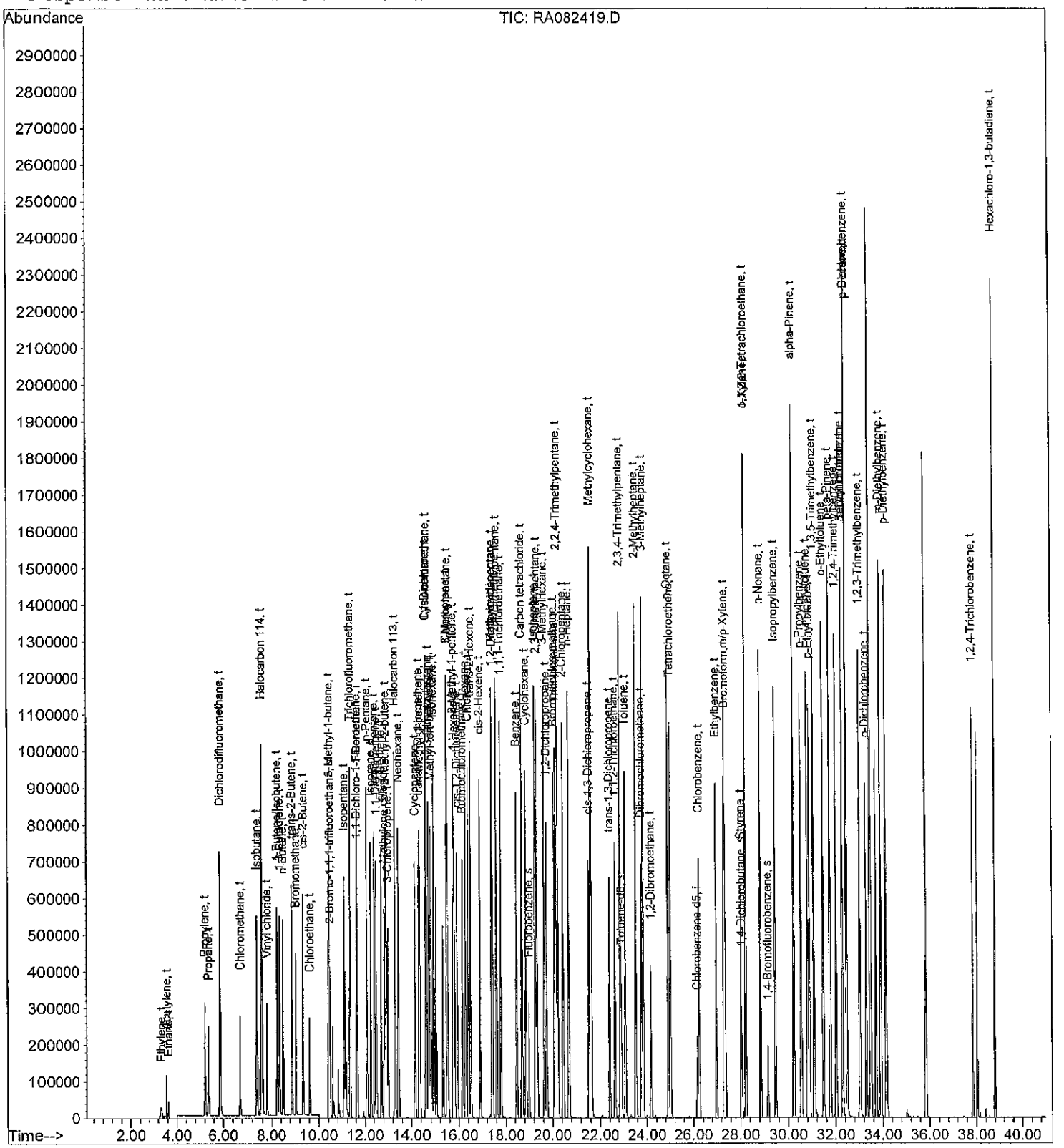
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
144) alpha-Pinene	30.24	93	1227606	11.2175 ppbV	S 94
147) n-Propylbenzene	30.56	91	1442187	11.1261 ppbV #	S 35
148) m-Ethyltoluene	30.82	105	1204792	12.6938 ppbV	S 91
149) p-Ethyltoluene	30.90	105	1119857	12.1221 ppbV	S 89
150) 1,3,5-Trimethylbenzene	31.09	105	1296183	13.7673 ppbV	S 88
151) o-Ethyltoluene	31.49	105	1352193	13.0387 ppbV	S 88
152) beta-Pinene	31.77	93	905444	7.9033 ppbV #	S 1
153) 1,2,4-Trimethylbenzene	32.02	105	1222987	15.1253 ppbV #	S 1
156) Benzyl chloride	32.30	91	733922	16.1261 ppbV	S 98
157) m-Dichlorobenzene	32.30	146	504564	12.8951 ppbV	S 86
158) n-Decane	32.48	57	964676	12.3325 ppbV	S 81
159) p-Dichlorobenzene	32.48	146	480927	13.0545 ppbV	S 87
161) 1,2,3-Trimethylbenzene	33.04	105	1231750	14.8794 ppbV	S 87
163) o-Dichlorobenzene	33.30	146	531579	15.1318 ppbV	S 97
167) m-Diethylbenzene	33.92	105	909757	15.4376 ppbV #	S 28
168) p-Diethylbenzene	34.15	119	786139	16.8717 ppbV #	S 1
172) 1,2,4-Trichlorobenzene	37.85	180	375557	12.5049 ppbV #	S 100
174) Hexachloro-1,3-butadiene	38.81	225	497080	7.8348 ppbV	S 97

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.61	81	279668	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.16	117	158540	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.47	83	121857	2.1574 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 108.00%	
65) Fluorobenzene	18.98	96	328035	2.3535 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 117.50%	
113) Toluene-d8	22.92	98	275368	2.2815 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.00%	
115) 1,4-Dichlorobutane	28.05	90	23213	1.9572 ppbV	0.01
Spiked Amount 2.000			Recovery	= 98.00%	
141) 1,4-Bromofluorobenzene	29.13	95	101857	1.8087 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	

Target Compounds						Qvalue
3) Ethylene	3.34	26	97845m	12.0784 ppbV	S	
4) Acetylene	3.54	26	181546	17.5895 ppbV	S	91
5) Ethane	3.62	26	40245	9.6517 ppbV	S	99
7) Propylene	5.21	41	272292	12.3654 ppbV	S	98
9) Propane	5.36	43	121683	11.4670 ppbV	S	96
10) Dichlorodifluoromethane	5.87	85	1399670	11.0965 ppbV	S	99
11) Chloromethane	6.71	50	374662	11.7086 ppbV	S	98
12) Isobutane	7.37	43	758038	11.8663 ppbV	S	97
13) Halocarbon 114	7.57	85	1240650	10.9926 ppbV	S	87
15) Vinyl chloride	7.79	62	424840	12.0041 ppbV	S	99
16) 1-Butene/Isobutene	8.23	41	526901	11.7191 ppbV	S	78
17) 1,3-Butadiene	8.34	39	347955	12.3622 ppbV	S	92
18) n-Butane	8.50	43	643282	11.2078 ppbV	S	98
20) trans-2-Butene	8.87	41	480056	11.4218 ppbV	S	88
23) Bromomethane	9.03	94	379446	11.3414 ppbV	S	95
24) cis-2-Butene	9.35	41	511350	12.0925 ppbV	S	89
25) Chloroethane	9.62	64	221355	11.4365 ppbV	S	94
27) 3-Methyl-1-butene	10.43	55	984758	11.5413 ppbV	S	83
31) Isopentane	11.06	41	474913	10.7664 ppbV #	S	1
32) Trichlorofluoromethane	11.32	101	1228450	10.2728 ppbV #	S	72
33) 1-Pentene	11.63	42	524994	11.1866 ppbV #	S	1
37) n-Pentane	12.06	43	685871	10.9260 ppbV #	S	84
39) Isoprene	12.23	67	482574	11.5224 ppbV	S	95
40) trans-2-Pentene	12.39	55	821845	11.5257 ppbV #	S	1
41) 1,1-Dichloroethene	12.47	61	742165	11.0771 ppbV #	S	10
42) cis-2-Pentene	12.68	55	798769	11.2767 ppbV #	S	1
43) Methylene chloride	12.81	49	491281	10.7416 ppbV #	S	1
44) 2-Methyl-2-butene	12.86	55	841981	11.7603 ppbV #	S	1
46) 3-Chloropropene	12.97	41	483960	12.9575 ppbV #	S	1
47) Halocarbon 113	13.28	151	505451	10.6698 ppbV #	S	100
48) Neohexane	13.43	43	555050	10.7927 ppbV #	S	1
49) Cyclopentene	14.14	67	841556	11.0924 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.31	61	731607	13.3834 ppbV #	S	1
51) 4-Methyl-1-pentene	14.34	43	684480	13.3140 ppbV	S	87
53) 1,1-Dichloroethane	14.60	63	921870	13.7781 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
54)	Cyclopentane	14.58	42	783994	13.3092	ppbV	S	84
55)	2,3-Dimethylbutane	14.70	43	1028312	13.2513	ppbV #	S	62
56)	Methyl tert-butyl ether	14.77	73	1321871	15.0944	ppbV #	S	1
57)	Isohexane	14.90	42	540326m	14.0656	ppbV	S	
63)	Chloroprene	15.47	53	864607	14.3957	ppbV	S	82
64)	3-Methylpentane	15.50	57	898186	13.5849	ppbV	S	97
66)	2-Methyl-1-pentene	15.74	56	831759	13.5222	ppbV #	S	1
67)	1-Hexene	15.78	41	459926m	11.0445	ppbV	S	
68)	cis-1,2-Dichloroethene	15.90	61	714198	12.2584	ppbV #	S	1
69)	Bromochloromethane	16.14	130	316158	11.2397	ppbV #	S	1
71)	n-Hexane	16.27	57	788625	13.2910	ppbV #	S	1
72)	Chloroform	16.37	83	1097512	11.2982	ppbV #	S	1
74)	trans-2-Hexene	16.49	55	966488m	12.9936	ppbV	S	
77)	cis-2-Hexene	16.88	55	792114	12.1633	ppbV	S	94
78)	Methylcyclopentane	17.40	56	935724	12.5876	ppbV	S	95
79)	1,2-Dichloroethane	17.43	62	884285	10.7697	ppbV	S	91
80)	2,4-Dimethylpentane	17.59	43	1040210	12.2648	ppbV #	S	1
81)	1,1,1-Trichloroethane	17.78	97	1220583	11.2049	ppbV #	S	1
84)	Benzene	18.46	78	1230535	14.0373	ppbV	S	84
85)	Carbon tetrachloride	18.68	117	1159832	11.8477	ppbV #	S	1
87)	Cyclohexane	18.85	56	788435	14.3499	ppbV #	S	1
88)	Isoheptane	19.25	43	1125737m	13.6004	ppbV	S	
89)	2,3-Dimethylpentane	19.32	56	938330	13.1924	ppbV #	S	72
91)	3-Methylhexane	19.63	43	877536	13.4846	ppbV #	S	81
92)	1,2-Dichloropropane	19.73	63	487305	13.0880	ppbV #	S	1
93)	Bromodichloromethane	20.06	83	1069979	11.3213	ppbV #	S	1
94)	Trichloroethene	20.12	130	473120	11.8051	ppbV #	S	1
97)	2,2,4-Trimethylpentane	20.21	57	2535460	13.1671	ppbV	S	96
98)	2-Chloropentane	20.43	70	706418	13.5705	ppbV #	S	9
100)	n-Heptane	20.69	71	480158	14.3367	ppbV #	S	1
104)	cis-1,3-Dichloropropene	21.53	75	655679	12.3709	ppbV #	S	1
106)	Methylcyclohexane	21.60	83	853690	13.3216	ppbV	S	98
110)	trans-1,3-Dichloropropene	22.40	75	632685	11.8505	ppbV #	S	1
111)	1,1,2-Trichloroethane	22.64	97	403274	11.3985	ppbV #	S	1
112)	2,3,4-Trimethylpentane	22.87	43	1455654	13.4821	ppbV	S	91
114)	Toluene	23.08	91	1249308	12.8891	ppbV #	S	1
117)	2-Methylheptane	23.52	43	1084668	13.3497	ppbV #	S	10
119)	Dibromochloromethane	23.77	129	655974	9.9305	ppbV #	S	46
120)	3-Methylheptane	23.85	85	646691	13.5357	ppbV #	S	1
122)	1,2-Dibromoethane	24.17	107	513598	10.0530	ppbV #	S	1
125)	n-Octane	24.91	43	1115783	13.5035	ppbV #	S	50
126)	Tetrachloroethene	25.02	164	436250	11.2265	ppbV	S	99
128)	Chlorobenzene	26.23	112	652007	10.6190	ppbV #	S	1
129)	Ethylbenzene	26.98	91	1327827	12.7041	ppbV	S	98
130)	m/p-Xylene	27.35	91	2167109m	22.9580	ppbV	S	
131)	Bromoform	27.38	173	413463	9.1878	ppbV #	S	1
134)	Styrene	28.02	104	559195	11.4759	ppbV #	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	976160	15.6422	ppbV	S	97
136)	o-Xylene	28.23	91	1095403	11.6070	ppbV	S	91
140)	n-Nonane	28.84	43	970333	11.7087	ppbV	S	78
142)	Isopropylbenzene	29.46	105	1604996	11.1591	ppbV	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

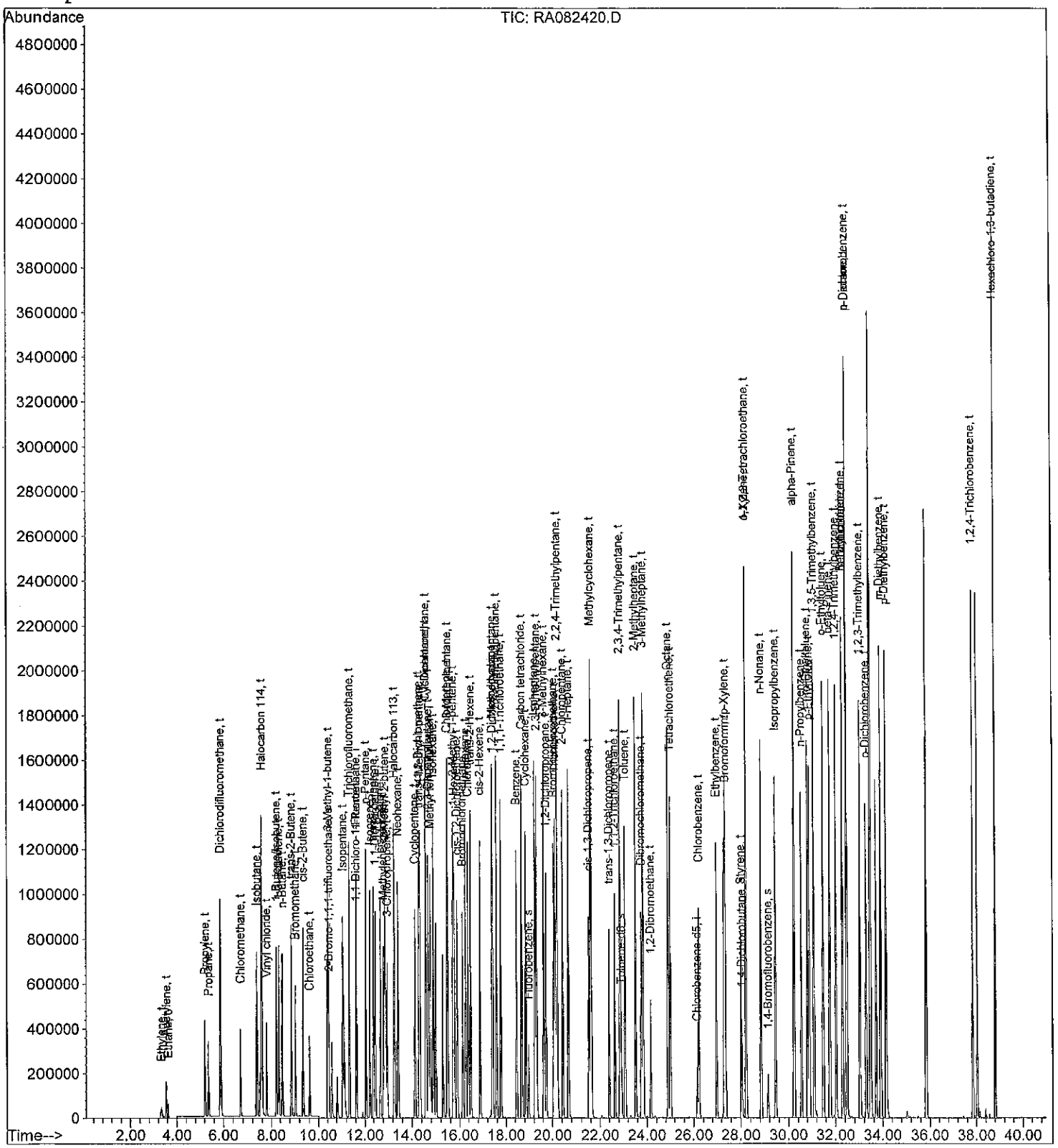
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144) alpha-Pinene	30.24	93	1666747	14.4553	ppbV		S	94
147) n-Propylbenzene	30.56	91	1852390	13.5636	ppbV	#	S	35
148) m-Ethyltoluene	30.82	105	1719265	17.1927	ppbV		S	91
149) p-Ethyltoluene	30.90	105	1585406	16.2883	ppbV		S	89
150) 1,3,5-Trimethylbenzene	31.10	105	1908257	19.2371	ppbV		S	88
151) o-Ethyltoluene	31.49	105	2001753	18.3200	ppbV		S	89
152) beta-Pinene	31.77	93	1213853	10.0562	ppbV	#	S	1
153) 1,2,4-Trimethylbenzene	32.03	105	1841850	21.6200	ppbV	#	S	1
156) Benzyl chloride	32.30	91	1139643	23.7667	ppbV		S	99
157) m-Dichlorobenzene	32.30	146	783177	18.9971	ppbV		S	88
158) n-Decane	32.48	57	1376627	16.7034	ppbV		S	84
159) p-Dichlorobenzene	32.48	146	742742	19.1355	ppbV		S	86
161) 1,2,3-Trimethylbenzene	33.04	105	1825611	20.9311	ppbV		S	88
163) o-Dichlorobenzene	33.30	146	840530	22.7089	ppbV		S	98
167) m-Diethylbenzene	33.92	105	1300656	20.9477	ppbV	#	S	27
168) p-Diethylbenzene	34.15	119	1133936	23.0976	ppbV	#	S	1
172) 1,2,4-Trichlorobenzene	37.85	180	837714	26.4739	ppbV	#	S	100
174) Hexachloro-1,3-butadiene	38.81	225	972557	14.5491	ppbV		S	96

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Data by Analytical Batch (s)

Austin Laboratory

INSTRUMENT GCMS-Q2 ANALYST / DATE: WW 8/22/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: Batch ID: 11H0297

DAILY CHECK —	INSERT: CHANGED (Y/N)	SEPTA: CHANGED (Y/N)	COLUMN: CHANGED (Y/N)	AUTOSAMPLER MAINT. —
M. PUMP OIL —	TURBO OIL —	FILAMENT CHANGE NV	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: Q110705.u Elect Mult. 2400 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. QA110729.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#: MSVOCID005 (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	RA1814	0.25	2	QA082201	0.01051	VOC-VSP-34-11
2	11H0297-CCV1	↓	↓	2	02	↓	↓ Test runs - Not used
3	Test Run	↓	↓	2	03	↓	↓
4	11H0297-BS1	RA1847	↓	6	05	0.01046	VOC-VSP-34-14
5	-BSD1	↓	↓	6	06	↓	↓
6	-CCV1	RA1814	0.25	2	04	0.01051	VOC-VSP-34-11
7	-BLK1		0.50	10	07	1.0	MB Not used
8	CMB	H20938		15	08	1.0	CMB Used as 11H0297-BLK1
9	AUW0042-01	RA2229		2	09	2.7628	
10	02	RA2160		2	10	3.2422	

Austin Laboratory
Instrument Sequence (continued)

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
11	AUH0042-03	1525	0.52	3	QAU82211	2.8070	
12	04	RA0971		4	12	3.6948	
13	05	RA2385		5	13	2.4439	
14	06	RA2379		6	14	2.5830	
15	07	HL0972		7	15	3.2422	
16	08	6626	0.52	8	16	2.6955	
17	AUH0043-01	7486		9	17	3.9124	- Auto sampler stopped - DID NOT Run
18	1140297-DUP1			9	18		
19	02	93289		10	19	3.1761	
20	-DUP2			10	20		
21	03	6588		11	21	2.7184	
22	04	HL2081		12	22	3.5305	
23	05	5446		13	23	2.5661	
24	06	RA2239		14	24	2.3534	
25	07	HL0800		15	25	3.0457	
26	08	RA2273		1	26	2.4865	
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

Sequence Name: C:\MSVOC6\HPCHEM\6\SEQUENCE\Q110822.S
Comment:
Operator: KRW
Data Path: C:\MSVOC6\HPCHEM\6\DATA\Q110822\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

8/23/11
KW

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

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

Line			Sample Name/Misc Info
1)	Sample	1	QA082201 QA110729 WARMUP,,,,0.01051;CCAL
2)	Sample	1	QA082202 QA110729 11H0297-CCV1,,,,0.01051;CCAL Tailing - not used
3)	Sample	1	QA082203 QA110729 TEST RUN,,,,0.01051;CCAL
4)	Sample	1	QA082204 QA110729 11H0297-CCV1,,,,0.01051;CCAL
5)	Sample	1	QA082205 QA110729 11H0297-BS1,,,,0.01046;LCS
6)	Sample	1	QA082206 QA110729 11H0297-BS1,,,,0.01046;LCS
7)	Sample	1	QA082207 QA110729 11H0297-BLK1 - Not used
8)	Sample	1	QA082208 QA110729 CMB HL0938 - used as 11H0297-BLK1
9)	Sample	1	QA082209 QA110729 AUH0042-01,,,,;TCBS
10)	Sample	1	QA082210 QA110729 AUH0042-02,,,,;TCBS
11)	Sample	1	QA082211 QA110729 AUH0042-03,,,,;TCBS
12)	Sample	1	QA082212 QA110729 AUH0042-04,,,,;TCBS
13)	Sample	1	QA082213 QA110729 AUH0042-05,,,,;TCBS
14)	Sample	1	QA082214 QA110729 AUH0042-06,,,,;TCBS
15)	Sample	1	QA082215 QA110729 AUH0042-07,,,,;TCBS
16)	Sample	1	QA082216 QA110729 AUH0042-08,,,,;TCBS

Auto sampler stopped

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

Sequence Name: C:\Smart\Q110822.SEQ
Date: 08-23-2011
Time: 09:02:39
Int. Std Volume: 200 cc

8/23/11
LW

Sample Name	Inlet #	Auto Samp Pos	Cal Vol.	Std Vol.	Method	Time	
WARMUP	1	2	250	0	C:\Smart\Q100301.MPT	12:00	
11H0297-CCV1	1	2	250	0	C:\Smart\Q100301.MPT	12:00	Test run - not used
TEST RUN	1	2	250	0	C:\Smart\Q100301.MPT	12:00	+
11H0297-CCV1	1	2	250	0	C:\Smart\Q100301.MPT	12:00	
11H0297-BS1	1	6	250	0	C:\Smart\Q100301.MPT	12:00	
11H0297-BSD1	1	6	250	0	C:\Smart\Q100301.MPT	12:00	
11H0297-BLK1	1	10	500	0	C:\Smart\Q100301.MPT	12:00	- not used
CMB HL0938	1	15	500	0	C:\Smart\Q100301.MPT	12:00	- used as 11H0297-BLK1
AUH0042-01	1	1	500	0	C:\Smart\Q100301.MPT	12:00	
AUH0042-02	1	2	500	0	C:\Smart\Q100301.MPT	12:00	
AUH0042-03	1	3	500	0	C:\Smart\Q100301.MPT	12:00	
AUH0042-04	1	4	500	0	C:\Smart\Q100301.MPT	12:00	
AUH0042-05	1	5	500	0	C:\Smart\Q100301.MPT	12:00	
AUH0042-06	1	6	500	0	C:\Smart\Q100301.MPT	12:00	
AUH0042-07	1	7	500	0	C:\Smart\Q100301.MPT	12:00	
AUH0042-08	1	8	500	0	C:\Smart\Q100301.MPT	12:00	

— Autosampler stopped

BFB

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082204.D Vial: 1
Acq On : 22 Aug 2011 12:35 pm Operator: KRW
Sample : 11H0297-CCV1 Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :

Spectrum Information: Average of 29.957 to 30.008 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.8	22222	PASS
75	95	30	66	53.5	66891	PASS
95	95	100	100	100.0	125088	PASS
96	95	5	9	6.6	8305	PASS
173	174	0.00	2	0.2	186	PASS
174	95	50	120	87.7	109697	PASS
175	174	4	9	7.2	7917	PASS
176	174	93	101	97.4	106852	PASS
177	176	5	9	6.6	7015	PASS

QA082204.D QA110729.M Tue Sep 27 15:38:54 2011 DAH

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082204.D Vial: 1
Acq On : 22 Aug 2011 12:35 pm Operator: KRW
Sample : 11H0297-CCV1,,,,0.01051;CCAL Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 15:30 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

DAH 8.29.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	686180	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.02	117	617687	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	332327	2.1042 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	
65) Fluorobenzene	19.88	96	788999	1.9841 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
113) Toluene-d8	23.79	98	711921	1.9387 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.00%	
115) 1,4-Dichlorobutane	28.90	90	86452	1.8160 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.00%	
141) 1,4-Bromofluorobenzene	29.98	95	475965	2.0332 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	

Target Compounds						Qvalue
3) Ethylene	4.12	26	11620	1.3698 ppbV	S	87
4) Acetylene	4.23	26	39293	2.3290 ppbV	S	91
5) Ethane	4.33	26	19300	2.4092 ppbV	S	98
7) Propylene	5.94	41	90430	2.2055 ppbV	S	85
9) Propane	6.09	43	43430	2.1637 ppbV	S	84
10) Dichlorodifluoromethane	6.58	85	734875	2.7004 ppbV	S	98
11) Chloromethane	7.43	50	134696	2.2291 ppbV	S	96
12) Isobutane	8.09	43	269833	2.2966 ppbV	S	90
13) Halocarbon 114	8.28	85	668551	2.5401 ppbV	S	96
14) Acetaldehyde	8.39	44	63007m	2.6096 ppbV	S	
15) Vinyl chloride	8.53	62	182876	2.3468 ppbV	S	98
16) 1-Butene/Isobutene	8.97	41	192943	2.2974 ppbV	S	82
17) 1,3-Butadiene	9.09	39	127926	2.5492 ppbV #	S	77
18) n-Butane	9.25	43	252469	2.2366 ppbV	S	91
19) Methanol	9.37	31	38707m	2.9288 ppbV	S	
20) trans-2-Butene	9.64	41	182650	2.4340 ppbV	S	85
23) Bromomethane	9.82	94	217871	2.5118 ppbV	S	93
24) cis-2-Butene	10.13	41	198790	2.6876 ppbV	S	89
25) Chloroethane	10.41	64	99975	2.5971 ppbV	S	90
26) Vinyl bromide	11.22	106	272627	2.9371 ppbV	S	82
27) 3-Methyl-1-butene	11.24	55	440509	2.8832 ppbV	S	89
28) Ethanol	11.62	45	49074m	2.8198 ppbV	S	
29) Acetonitrile	11.53	41	87210	2.4124 ppbV	S	97
30) Acrolein	11.72	56	45897	2.7625 ppbV	S	94
31) Isopentane	11.89	41	212012	2.6153 ppbV	S	87
32) Trichlorofluoromethane	12.17	101	929872	3.0425 ppbV	S	99
33) 1-Pentene	12.48	42	164171	2.7180 ppbV #	S	1
34) Acetone	12.29	43	247960m	3.0242 ppbV	S	
36) Acrylonitrile	12.94	52	71462	2.7052 ppbV	S	92
37) n-Pentane	12.91	43	265623	2.6345 ppbV	S	95
39) Isoprene	13.09	67	155889	3.1364 ppbV	S	92
40) trans-2-Pentene	13.24	55	234275	2.9605 ppbV	S	94
41) 1,1-Dichloroethene	13.34	61	314078	2.8456 ppbV	S	93
42) cis-2-Pentene	13.55	55	227572	3.2637 ppbV	S	96
43) Methylene chloride	13.68	49	152096	2.6961 ppbV	S	96

2.7004 DAH 9.12.11

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082204.D Vial: 1
Acq On : 22 Aug 2011 12:35 pm Operator: KRW
Sample : 11H0297-CCV1,,,,0.01051;CCAL Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 15:30 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
44)	2-Methyl-2-butene	13.73	55	256321	3.5462	ppbV		S	96
45)	Carbon Disulfide	13.82	76	712217	2.7611	ppbV		S	98
46)	3-Chloropropene	13.84	41	118825	3.7332	ppbV		S	89
47)	Halocarbon 113	14.15	151	406355	2.8829	ppbV		S	98
48)	Neohexane	14.31	43	256480	2.6242	ppbV		S	95
49)	Cyclopentene	15.04	67	307267	2.8075	ppbV		S	93
50)	trans-1,2-Dichloroethene	15.20	61	214981	2.7739	ppbV		S	94
51)	4-Methyl-1-pentene	15.23	43	203537	2.8962	ppbV		S	89
53)	1,1-Dichloroethane	15.49	63	261992	2.8681	ppbV		S	97
54)	Cyclopentane	15.49	42	281836	2.7227	ppbV		S	97
55)	2,3-Dimethylbutane	15.59	43	387949	2.6764	ppbV		S	94
56)	Methyl tert-butyl ether	15.86	73	544743m	3.5203	ppbV		S	
57)	Isohexane	15.79	42	172325	2.8042	ppbV	#	S	85
58)	Vinyl acetate	15.92	43	393556	3.4723	ppbV		S	97
62)	2-Butanone	16.33	43	327046m	3.3939	ppbV		S	
63)	Chloroprene	16.38	53	229607	3.5603	ppbV		S	95
64)	3-Methylpentane	16.39	57	349626	2.9455	ppbV		S	92
66)	2-Methyl-1-pentene	16.62	56	175871m	2.9426	ppbV		S	
67)	1-Hexene	16.66	41	104694	2.5566	ppbV		S	91
68)	cis-1,2-Dichloroethene	16.80	61	183732	3.0097	ppbV		S	92
69)	Bromochloromethane	17.04	130	126904	3.5456	ppbV		S	91
71)	n-Hexane	17.15	57	203884	3.3252	ppbV		S	95
72)	Chloroform	17.27	83	338029	2.9000	ppbV		S	99
74)	trans-2-Hexene	17.37	55	219388	2.7537	ppbV		S	99
77)	cis-2-Hexene	17.77	55	176282	2.5367	ppbV		S	98
78)	Methylcyclopentane	18.31	56	301024	3.0238	ppbV	#	S	1
79)	1,2-Dichloroethane	18.33	62	246841	3.0910	ppbV	#	S	5
80)	2,4-Dimethylpentane	18.48	43	325002	2.9662	ppbV	#	S	1
81)	1,1,1-Trichloroethane	18.68	97	523116	3.3846	ppbV		S	99
84)	Benzene	19.36	78	364454	2.7470	ppbV		S	89
85)	Carbon tetrachloride	19.59	117	541207	3.3736	ppbV	#	S	1
86)	1-Butanol	19.72	56	26997m	1.0871	ppbV		S	
87)	Cyclohexane	19.77	56	352566	3.0460	ppbV	#	S	100
88)	Isoheptane	20.13	43	261672	2.7410	ppbV	#	S	35
89)	2,3-Dimethylpentane	20.21	56	300798	2.8424	ppbV	#	S	70
91)	3-Methylhexane	20.51	43	207509	2.7168	ppbV	#	S	76
92)	1,2-Dichloropropane	20.63	63	126431	2.6092	ppbV	#	S	1
93)	Bromodichloromethane	20.96	83	331187	2.8151	ppbV	#	S	1
94)	Trichloroethene	21.01	130	197950	2.8729	ppbV	#	S	1
95)	1,4-Dioxane	21.18	88	80638	3.0460	ppbV		S	82
97)	2,2,4-Trimethylpentane	21.09	57	753405	2.9645	ppbV	#	S	1
98)	2-Chloropentane	21.32	70	204354	2.7268	ppbV		S	97
100)	n-Heptane	21.55	71	131337	2.5361	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	22.40	75	204015	3.2396	ppbV	#	S	1
105)	Methylisobutylketone	22.59	43	316621	2.7307	ppbV		S	96
106)	Methylcyclohexane	22.49	83	304841	2.9490	ppbV		S	83
110)	trans-1,3-Dichloropropene	23.27	75	228260	3.2972	ppbV	#	S	1
111)	1,1,2-Trichloroethane	23.51	97	164358	2.8399	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	23.73	43	347794	2.8491	ppbV		S	74
114)	Toluene	23.96	91	445784	2.8441	ppbV	#	S	1
117)	2-Methylheptane	24.36	43	221153	2.5932	ppbV	#	S	11

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082204.D Vial: 1
Acq On : 22 Aug 2011 12:35 pm Operator: KRW
Sample : 11H0297-CCV1,,,,0.01051;CCAL Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 15:30 19111 Quant Results File: QA110729.RES

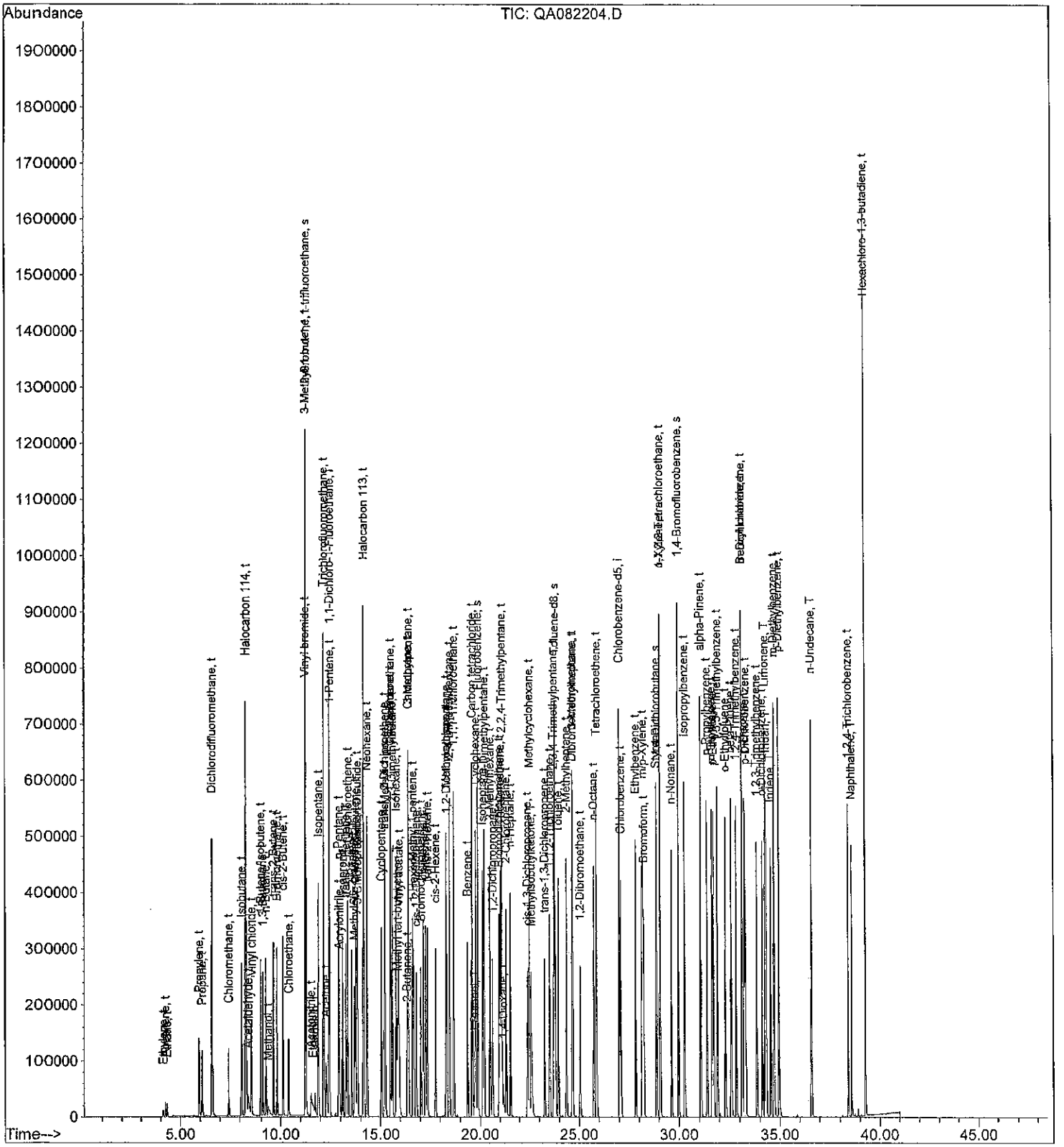
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
119) Dibromochloromethane	24.65	129	334265	3.0160	ppbV # S	70
120) 3-Methylheptane	24.68	85	176226	2.5777	ppbV S	94
122) 1,2-Dibromoethane	25.06	107	268713	2.9494	ppbV # S	1
125) n-Octane	25.74	43	229298	2.5714	ppbV # S	65
126) Tetrachloroethene	25.89	164	201617	3.0274	ppbV S	98
128) Chlorobenzene	27.10	112	354722	2.8622	ppbV # S	1
129) Ethylbenzene	27.83	91	535458	3.4962	ppbV S	99
130) m/p-Xylene	28.20	91	945768m	5.8614	ppbV S	
131) Bromoform	28.25	173	264191	3.0251	ppbV # S	100
134) Styrene	28.87	104	298748	3.1377	ppbV # S	1
135) 1,1,2,2-Tetrachloroethane	29.07	83	312853	2.7373	ppbV S	96
136) o-Xylene	29.07	91	457877	3.0442	ppbV # S	100
140) n-Nonane	29.64	43	223991	2.4353	ppbV S	82
142) Isopropylbenzene	30.29	105	621697	3.0205	ppbV S	100
144) alpha-Pinene	31.08	93	464639	3.3685	ppbV # S	64
147) n-Propylbenzene	31.38	91	699509	2.7597	ppbV # S	34
148) m-Ethyltoluene	31.64	105	540406	3.3668	ppbV # S	1
149) p-Ethyltoluene	31.72	105	557219	2.9471	ppbV # S	1
150) 1,3,5-Trimethylbenzene	31.91	105	531314	3.2446	ppbV # S	1
151) o-Ethyltoluene	32.32	105	548966	2.9258	ppbV S	96
152) beta-Pinene	32.60	93	356087	2.0883	ppbV # S	1
153) 1,2,4-Trimethylbenzene	32.84	105	525356	3.3217	ppbV # S	1
156) Benzyl chloride	33.13	91	449158	3.2922	ppbV S	78
157) m-Dichlorobenzene	33.14	146	399303	3.4874	ppbV # S	33
158) n-Decane	33.25	57	297233	2.4113	ppbV S	95
159) p-Dichlorobenzene	33.31	146	382145	3.4617	ppbV S	96
161) 1,2,3-Trimethylbenzene	33.86	105	472450	2.9412	ppbV # S	1
163) o-Dichlorobenzene	34.14	146	350348	3.4774	ppbV S	97
164) Limonene	34.27	68	220620	2.7885	ppbV # S	100
165) Indan	34.32	117	506724	3.2081	ppbV # S	1
166) Indene	34.55	115	441884	3.2417	ppbV # S	19
167) m-Diethylbenzene	34.72	105	420691	2.9863	ppbV # S	1
168) p-Diethylbenzene	34.95	119	432993	3.4714	ppbV # S	1
171) n-Undecane	36.59	57	368680	2.6881	ppbV S	95
172) 1,2,4-Trichlorobenzene	38.41	180	214480	3.8424	ppbV S	100
173) Naphthalene	38.59	128	441604	3.3049	ppbV S	98
174) Hexachloro-1,3-butadiene	39.29	225	347449	4.2432	ppbV S	95

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082204.D Vial: 1
Acq On : 22 Aug 2011 12:35 pm Operator: KRW
Sample : 11H0297-CCV1,,,,0.01051;CCAL Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 15:30 19111 Quant Results File: QA110729.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082205.D Vial: 1
Acq On : 22 Aug 2011 1:57 pm Operator: KRW
Sample : 11H0297-BS1,,,,0.01046;LCS Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 15:32 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

MM 9-29-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.44	81	799143	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	27.02	117	589454	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.24	83	337934	1.8373 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 92.00%	
65) Fluorobenzene	19.87	96	783356	1.6914 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 84.50%	
113) Toluene-d8	23.79	98	683806	1.9513 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
115) 1,4-Dichlorobutane	28.89	90	84714	1.8647 ppbV	0.00
Spiked Amount 2.000			Recovery	= 93.00%	
141) 1,4-Bromofluorobenzene	29.98	95	462658	2.0710 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.50%	

Target Compounds						Qvalue
3) Ethylene	4.12	26	10593	1.0722 ppbV	S	88
4) Acetylene	4.23	26	40819	2.0774 ppbV	S	92
5) Ethane	4.33	26	19182	2.0560 ppbV	S	99
7) Propylene	5.94	41	91714	1.9207 ppbV	S	85
8) Chlorodifluoromethane	6.26	51	325025	2.3527 ppbV	S	84
9) Propane	6.09	43	42137	1.8025 ppbV	S	82
10) Dichlorodifluoromethane	6.58	85	759581	2.3966 ppbV	S	98
11) Chloromethane	7.43	50	138735	1.9714 ppbV	S	97
12) Isobutane	8.08	43	260288	1.9022 ppbV	S	90
13) Halocarbon 114	8.28	85	618543	2.0179 ppbV	S	100
15) Vinyl chloride	8.52	62	184507	2.0331 ppbV	S	99
16) 1-Butene/Isobutene	8.97	41	184490	1.8862 ppbV	S	82
17) 1,3-Butadiene	9.08	39	128986	2.2070 ppbV	S	81
18) n-Butane	9.24	43	243859	1.8550 ppbV	S	91
19) Methanol	9.32	31	40107m	2.6058 ppbV	S	
20) trans-2-Butene	9.63	41	175825	2.0119 ppbV	S	87
23) Bromomethane	9.80	94	234129	2.3176 ppbV	S	94
24) cis-2-Butene	10.12	41	193611	2.2476 ppbV	S	90
25) Chloroethane	10.40	64	103252	2.3030 ppbV	S	91
26) Vinyl bromide	11.21	106	249813	2.3109 ppbV	S	83
27) 3-Methyl-1-butene	11.23	55	435753	2.4490 ppbV	S	91
29) Acetonitrile	11.51	41	84283m	2.0019 ppbV	S	
30) Acrolein	11.71	56	40474	2.0917 ppbV	S	96
31) Isopentane	11.88	41	206407	2.1862 ppbV	S	84
32) Trichlorofluoromethane	12.15	101	967587	2.7184 ppbV	S	98
33) 1-Pentene	12.46	42	173585	2.4676 ppbV #	S	1
34) Acetone	12.25	43	215031m	2.2519 ppbV	S	
35) 2-Propanol	13.06	45	191406m	3.4937 ppbV	S	
36) Acrylonitrile	12.93	52	63670	2.0695 ppbV	S	85
37) n-Pentane	12.89	43	268181	2.2839 ppbV	S	94
38) Diethyl ether	13.27	74	58019m	2.3335 ppbV	S	
39) Isoprene	13.08	67	165662	2.8619 ppbV	S	94
40) trans-2-Pentene	13.23	55	236753	2.5689 ppbV	S	95
41) 1,1-Dichloroethene	13.33	61	341896	2.6598 ppbV	S	92
42) cis-2-Pentene	13.53	55	230924	2.8436 ppbV	S	95

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082205.D Vial: 1
Acq On : 22 Aug 2011 1:57 pm Operator: KRW
Sample : 11H0297-BS1,,,,0.01046;LCS Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 15:32 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
43)	Methylene chloride	13.67	49	157851	2.4026 ppbV		S	93
44)	2-Methyl-2-butene	13.72	55	240537	2.8574 ppbV		S	96
45)	Carbon Disulfide	13.80	76	589449	1.9621 ppbV		S	99
46)	3-Chloropropene	13.83	41	116448	3.1414 ppbV	#	S	69
47)	Halocarbon 113	14.13	151	438954	2.6740 ppbV		S	97
50)	trans-1,2-Dichloroethene	15.18	61	203822	2.2582 ppbV		S	93
51)	4-Methyl-1-pentene	15.21	43	195471	2.3883 ppbV		S	88
53)	1,1-Dichloroethane	15.48	63	250795	2.3575 ppbV		S	98
56)	Methyl tert-butyl ether	15.80	73	570846m	3.1675 ppbV		S	
58)	Vinyl acetate	15.90	43	268243	2.0321 ppbV		S	98
62)	2-Butanone	16.29	43	221015	1.9694 ppbV		S	96
63)	Chloroprene	16.36	53	213955	2.8486 ppbV		S	92
68)	cis-1,2-Dichloroethene	16.79	61	179079	2.5188 ppbV		S	92
71)	n-Hexane	17.14	57	191480	2.6815 ppbV		S	94
72)	Chloroform	17.26	83	343572	2.5309 ppbV		S	99
74)	trans-2-Hexene	17.36	55	213359	2.2995 ppbV		S	98
77)	cis-2-Hexene	17.76	55	171481	2.1188 ppbV		S	96
79)	1,2-Dichloroethane	18.32	62	236376	2.5416 ppbV	#	S	5
81)	1,1,1-Trichloroethane	18.68	97	521735	2.8985 ppbV		S	97
84)	Benzene	19.36	78	359558	2.8399 ppbV		S	90
85)	Carbon tetrachloride	19.58	117	541648	3.5380 ppbV	#	S	1
86)	1-Butanol	19.68	56	34730	1.4654 ppbV		S	90
87)	Cyclohexane	19.76	56	306968	2.7791 ppbV	#	S	100
92)	1,2-Dichloropropane	20.62	63	126031	2.7255 ppbV	#	S	1
93)	Bromodichloromethane	20.95	83	356721	3.1774 ppbV	#	S	1
94)	Trichloroethene	21.01	130	198319	3.0161 ppbV	#	S	1
95)	1,4-Dioxane	21.15	88	86974	3.4427 ppbV		S	86
97)	2,2,4-Trimethylpentane	21.08	57	709957	2.9273 ppbV	#	S	1
98)	2-Chloropentane	21.32	70	177629	2.4837 ppbV		S	97
100)	n-Heptane	21.53	71	127001	2.5698 ppbV	#	S	1
104)	cis-1,3-Dichloropropene	22.40	75	215329	3.5830 ppbV	#	S	1
105)	Methylisobutylketone	22.57	43	280700	2.5369 ppbV		S	95
110)	trans-1,3-Dichloropropene	23.26	75	207005	3.1334 ppbV	#	S	1
111)	1,1,2-Trichloroethane	23.51	97	161174	2.9182 ppbV	#	S	1
114)	Toluene	23.95	91	430325	2.8769 ppbV	#	S	1
116)	2-Hexanone	24.56	43	259952	2.8150 ppbV	#	S	1
119)	Dibromochloromethane	24.64	129	339804	3.2128 ppbV	#	S	66
122)	1,2-Dibromoethane	25.05	107	262616	3.0205 ppbV	#	S	1
125)	n-Octane	25.74	43	217958	2.5613 ppbV	#	S	65
126)	Tetrachloroethene	25.88	164	191323	3.0104 ppbV		S	98
128)	Chlorobenzene	27.10	112	347141	2.9352 ppbV	#	S	1
129)	Ethylbenzene	27.83	91	522429	3.5745 ppbV		S	99
130)	m/p-Xylene	28.20	91	921551m	5.9849 ppbV		S	
131)	Bromoform	28.25	173	281487	3.3775 ppbV	#	S	100
134)	Styrene	28.87	104	290537	3.1977 ppbV	#	S	1
135)	1,1,2,2-Tetrachloroethane	29.07	83	307135	2.8160 ppbV		S	97
136)	o-Xylene	29.07	91	447558	3.1182 ppbV	#	S	100
140)	n-Nonane	29.64	43	221192	2.5201 ppbV		S	84
142)	Isopropylbenzene	30.28	105	594865	3.0286 ppbV		S	100
145)	o/m-Chlorotoluene	31.25	91	410495	2.7354 ppbV	#	S	1
147)	n-Propylbenzene	31.38	91	681273	2.8165 ppbV	#	S	34

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082205.D Vial: 1
Acq On : 22 Aug 2011 1:57 pm Operator: KRW
Sample : 11H0297-BS1,,,,0.01046;LCS Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 15:32 19111 Quant Results File: QA110729.RES

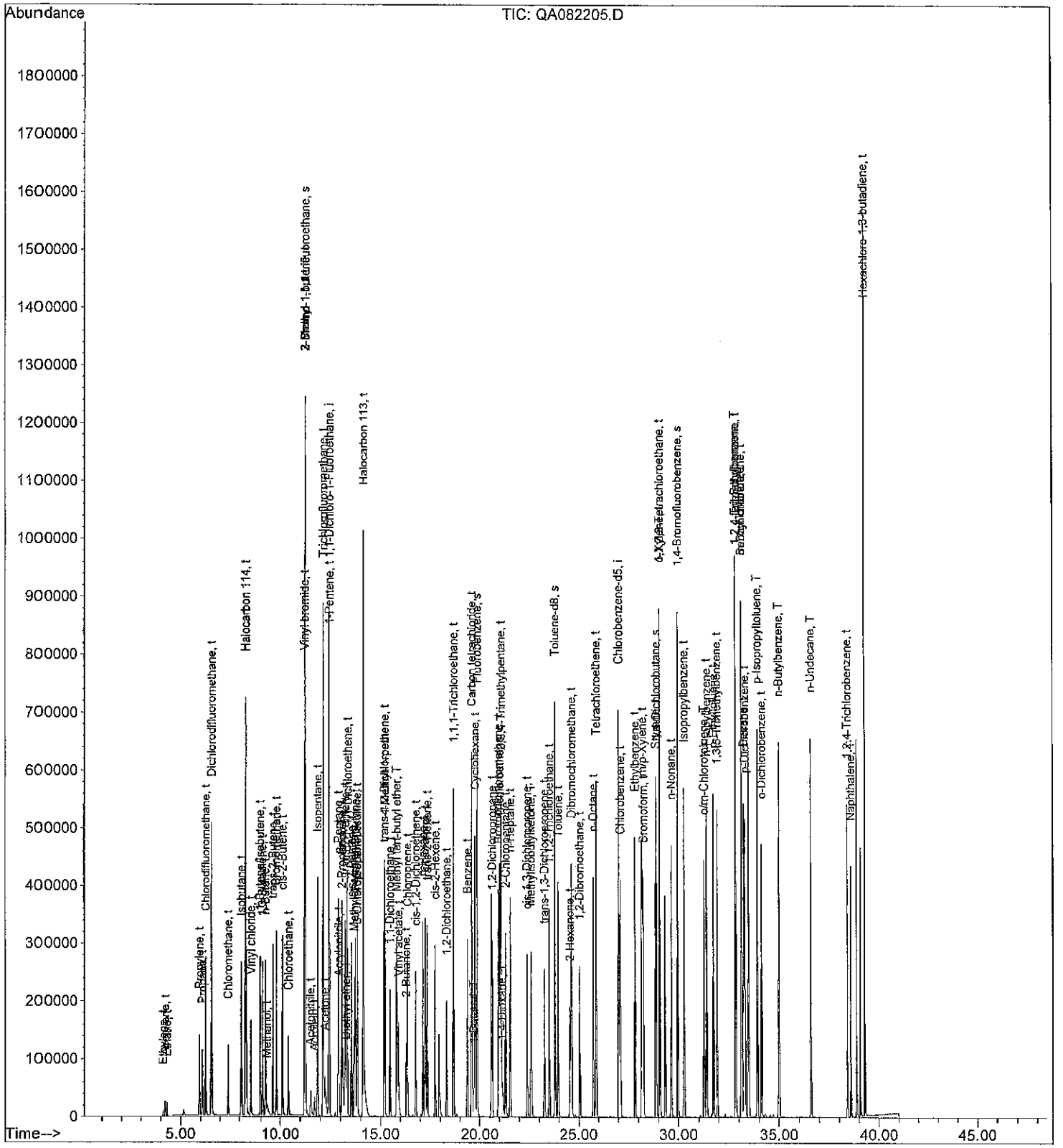
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
149)	p-Ethyltoluene	31.72	105	570229	3.1603 ppbV # S	1
150)	1,3,5-Trimethylbenzene	31.91	105	490305	3.1376 ppbV # S	1
153)	1,2,4-Trimethylbenzene	32.84	105	500816	3.3182 ppbV # S	1
154)	tert-Butylbenzene	32.82	119	591870	3.5660 ppbV # S	1
156)	Benzyl chloride	33.13	91	480005	3.6868 ppbV S	77
157)	m-Dichlorobenzene	33.13	146	369938	3.3857 ppbV # S	35
158)	n-Decane	33.25	57	281849	2.3960 ppbV S	95
159)	p-Dichlorobenzene	33.31	146	354349	3.3636 ppbV S	96
162)	p-Isopropyltoluene	33.92	119	629694	3.4574 ppbV S	94
163)	o-Dichlorobenzene	34.13	146	326250	3.3933 ppbV S	97
169)	n-Butylbenzene	35.00	91	584671	3.1845 ppbV # S	45
171)	n-Undecane	36.59	57	337933	2.5819 ppbV S	92
172)	1,2,4-Trichlorobenzene	38.41	180	199821	3.7513 ppbV S	98
173)	Naphthalene	38.59	128	374231	2.9348 ppbV S	98
174)	Hexachloro-1,3-butadiene	39.29	225	315211	4.0339 ppbV S	95

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082205.D Vial: 1
Acq On : 22 Aug 2011 1:57 pm Operator: KRW
Sample : 11H0297-BS1,,,,0.01046;LCS Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 15:32 19111 Quant Results File: QA110729.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082206.D Vial: 1
Acq On : 22 Aug 2011 2:53 pm Operator: KRW
Sample : 11H0297-BSD1,,,,0.01046;LCS Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 15:34 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

DAH 9-29-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	814806	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	615631	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	332992	1.7756 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.00%	
65) Fluorobenzene	19.88	96	798230	1.6904 ppbV	0.00
Spiked Amount 2.000			Recovery	= 84.50%	
113) Toluene-d8	23.79	98	701111	1.9156 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.00%	
115) 1,4-Dichlorobutane	28.90	90	88037	1.8555 ppbV	0.00
Spiked Amount 2.000			Recovery	= 93.00%	
141) 1,4-Bromofluorobenzene	29.98	95	484377	2.0761 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	

Target Compounds						Qvalue
3) Ethylene	4.13	26	9158	0.9092 ppbV	S	91
4) Acetylene	4.23	26	39090	1.9512 ppbV	S	92
5) Ethane	4.33	26	18846	1.9812 ppbV	S	99
7) Propylene	5.94	41	90535	1.8595 ppbV	S	84
8) Chlorodifluoromethane	6.26	51	324056	2.3006 ppbV	S	85
9) Propane	6.09	43	42980	1.8032 ppbV	S	82
10) Dichlorodifluoromethane	6.58	85	764075	2.3645 ppbV	S	98
11) Chloromethane	7.43	50	143313	1.9973 ppbV	S	97
12) Isobutane	8.09	43	267355	1.9163 ppbV	S	90
13) Halocarbon 114	8.28	85	623906	1.9963 ppbV	S	98
15) Vinyl chloride	8.53	62	188393	2.0360 ppbV	S	99
16) 1-Butene/Isobutene	8.98	41	191501	1.9203 ppbV	S	83
17) 1,3-Butadiene	9.09	39	132936	2.2308 ppbV #	S	79
18) n-Butane	9.25	43	250869	1.8716 ppbV	S	91
19) Methanol	9.34	31	37462m	2.3871 ppbV	S	
20) trans-2-Butene	9.64	41	179539	2.0149 ppbV	S	85
23) Bromomethane	9.82	94	231622	2.2487 ppbV	S	94
24) cis-2-Butene	10.13	41	196683	2.2394 ppbV	S	89
25) Chloroethane	10.41	64	103843	2.2717 ppbV	S	89
26) Vinyl bromide	11.22	106	253735	2.3020 ppbV	S	83
27) 3-Methyl-1-butene	11.24	55	445677	2.4566 ppbV	S	90
29) Acetonitrile	11.53	41	82637m	1.9251 ppbV	S	
30) Acrolein	11.73	56	39647	2.0096 ppbV	S	93
31) Isopentane	11.89	41	208226	2.1631 ppbV	S	86
32) Trichlorofluoromethane	12.17	101	978637	2.6966 ppbV	S	99
33) 1-Pentene	12.48	42	164305	2.2908 ppbV #	S	1
34) Acetone	12.27	43	209685m	2.1537 ppbV	S	
35) 2-Propanol	13.08	45	198310m	3.5502 ppbV	S	
36) Acrylonitrile	12.94	52	64128	2.0443 ppbV	S	95
37) n-Pentane	12.91	43	281741	2.3533 ppbV	S	95
38) Diethyl ether	13.30	74	57656m	2.2743 ppbV	S	
39) Isoprene	13.09	67	162497	2.7532 ppbV	S	93
40) trans-2-Pentene	13.25	55	237361	2.5260 ppbV	S	95
41) 1,1-Dichloroethene	13.34	61	352812	2.6919 ppbV	S	94
42) cis-2-Pentene	13.55	55	227892	2.7523 ppbV	S	96

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082206.D Vial: 1
Acq On : 22 Aug 2011 2:53 pm Operator: KRW
Sample : 11H0297-BSD1,,,,0.01046;LCS Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 15:34 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
43)	Methylene chloride	13.68	49	155749	2.3250	ppbV		S	91
44)	2-Methyl-2-butene	13.73	55	235652	2.7456	ppbV		S	96
45)	Carbon Disulfide	13.82	76	590684	1.9285	ppbV		S	100
46)	3-Chloropropene	13.84	41	116889	3.0927	ppbV		S	85
47)	Halocarbon 113	14.15	151	434959	2.5987	ppbV		S	98
50)	trans-1,2-Dichloroethene	15.20	61	204686	2.2242	ppbV		S	93
51)	4-Methyl-1-pentene	15.23	43	189597	2.2720	ppbV		S	88
53)	1,1-Dichloroethane	15.49	63	249958	2.3044	ppbV		S	97
56)	Methyl tert-butyl ether	15.82	73	566568m	3.0833	ppbV		S	
58)	Vinyl acetate	15.92	43	268403	1.9942	ppbV		S	98
62)	2-Butanone	16.30	43	220963	1.9310	ppbV		S	96
63)	Chloroprene	16.38	53	211541	2.7624	ppbV		S	91
68)	cis-1,2-Dichloroethene	16.80	61	179052	2.4700	ppbV		S	93
71)	n-Hexane	17.15	57	192441	2.6431	ppbV		S	92
72)	Chloroform	17.27	83	343270	2.4801	ppbV		S	99
74)	trans-2-Hexene	17.37	55	216269	2.2860	ppbV		S	96
77)	cis-2-Hexene	17.77	55	171969	2.0840	ppbV		S	96
79)	1,2-Dichloroethane	18.33	62	238752	2.5178	ppbV	#	S	5
81)	1,1,1-Trichloroethane	18.68	97	509809	2.7778	ppbV		S	99
84)	Benzene	19.37	78	358250	2.7093	ppbV		S	90
85)	Carbon tetrachloride	19.59	117	532107	3.3279	ppbV	#	S	1
86)	1-Butanol	19.68	56	36668	1.4814	ppbV		S	90
87)	Cyclohexane	19.76	56	305054	2.6443	ppbV	#	S	100
92)	1,2-Dichloropropane	20.64	63	126880	2.6272	ppbV	#	S	1
93)	Bromodichloromethane	20.96	83	361284	3.0812	ppbV	#	S	1
94)	Trichloroethene	21.01	130	197849	2.8810	ppbV	#	S	1
95)	1,4-Dioxane	21.15	88	85158	3.2275	ppbV		S	82
97)	2,2,4-Trimethylpentane	21.08	57	689873	2.7235	ppbV	#	S	1
98)	2-Chloropentane	21.32	70	176132	2.3581	ppbV		S	98
100)	n-Heptane	21.55	71	127065	2.4618	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	22.40	75	218534	3.4817	ppbV	#	S	1
105)	Methylisobutylketone	22.58	43	282246	2.4424	ppbV		S	95
110)	trans-1,3-Dichloropropene	23.27	75	209696	3.0392	ppbV	#	S	1
111)	1,1,2-Trichloroethane	23.51	97	162708	2.8207	ppbV	#	S	1
114)	Toluene	23.96	91	429441	2.7489	ppbV	#	S	1
116)	2-Hexanone	24.57	43	265842	2.7564	ppbV	#	S	1
119)	Dibromochloromethane	24.65	129	342508	3.1007	ppbV	#	S	67
122)	1,2-Dibromoethane	25.05	107	266304	2.9327	ppbV	#	S	1
125)	n-Octane	25.74	43	222602	2.5046	ppbV	#	S	65
126)	Tetrachloroethene	25.89	164	191804	2.8897	ppbV		S	98
128)	Chlorobenzene	27.10	112	354569	2.8705	ppbV	#	S	1
129)	Ethylbenzene	27.83	91	527110	3.4532	ppbV		S	99
130)	m/p-Xylene	28.20	91	935746m	5.8187	ppbV		S	
131)	Bromoform	28.25	173	288715	3.3169	ppbV	#	S	100
134)	Styrene	28.87	104	295154	3.1103	ppbV	#	S	1
135)	1,1,2,2-Tetrachloroethane	29.07	83	316761	2.7807	ppbV		S	97
136)	o-Xylene	29.07	91	459686	3.0665	ppbV	#	S	100
140)	n-Nonane	29.64	43	228528	2.4930	ppbV		S	81
142)	Isopropylbenzene	30.29	105	615559	3.0007	ppbV		S	100
145)	o/m-Chlorotoluene	31.25	91	424446	2.7081	ppbV	#	S	1
147)	n-Propylbenzene	31.38	91	700578	2.7732	ppbV	#	S	35

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082206.D Vial: 1
Acq On : 22 Aug 2011 2:53 pm Operator: KRW
Sample : 11H0297-BSD1,,,,0.01046;LCS Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 15:34 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

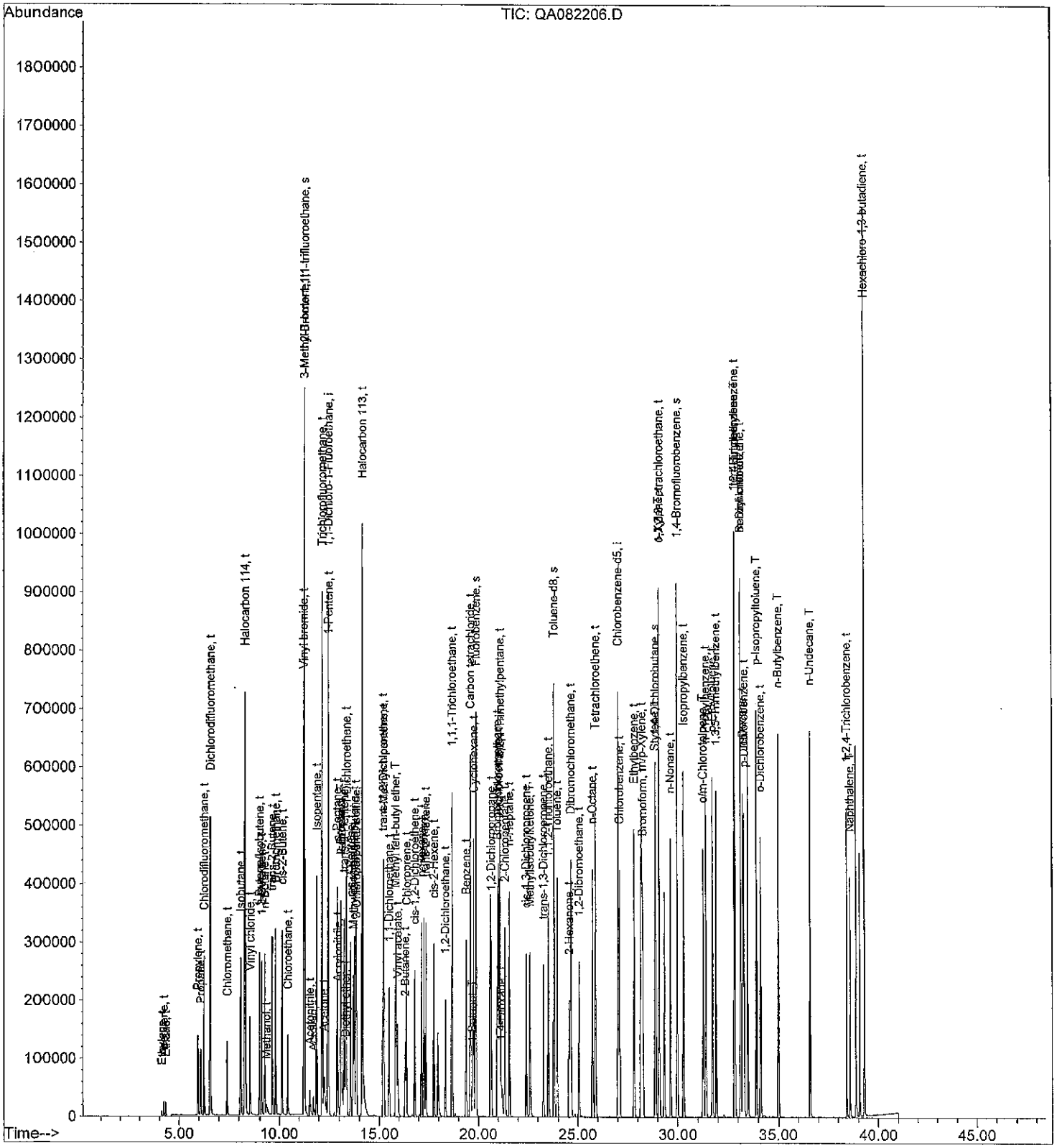
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
149) p-Ethyltoluene	31.72	105	584573	3.1021 ppbV # S	1
150) 1,3,5-Trimethylbenzene	31.91	105	504311	3.0900 ppbV # S	1
153) 1,2,4-Trimethylbenzene	32.84	105	515395	3.2696 ppbV # S	1
154) tert-Butylbenzene	32.83	119	601919	3.4723 ppbV # S	1
156) Benzyl chloride	33.13	91	493356	3.6282 ppbV S	77
157) m-Dichlorobenzene	33.14	146	377399	3.3071 ppbV # S	34
158) n-Decane	33.25	57	289305	2.3548 ppbV S	95
159) p-Dichlorobenzene	33.31	146	359003	3.2629 ppbV S	95
162) p-Isopropyltoluene	33.92	119	651031	3.4225 ppbV S	94
163) o-Dichlorobenzene	34.14	146	337643	3.3625 ppbV S	97
169) n-Butylbenzene	35.00	91	597590	3.1164 ppbV # S	45
171) n-Undecane	36.59	57	338536	2.4765 ppbV S	92
172) 1,2,4-Trichlorobenzene	38.41	180	190383	3.4221 ppbV S	99
173) Naphthalene	38.59	128	352065	2.6436 ppbV S	98
174) Hexachloro-1,3-butadiene	39.29	225	320615	3.9286 ppbV S	96

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

Quantitation Report

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082206.D Vial: 1
Acq On : 22 Aug 2011 2:53 pm Operator: KRW
Sample : 11H0297-BSD1,,,,0.01046;LCS Inst : GCMSQ2
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 15:34 19111 Quant Results File: QA110729.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082208.D Vial: 1
Acq On : 22 Aug 2011 4:50 pm Operator: KRW
Sample : 11H0297-BLK1,,,,CMB HL0938 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 23 11:23 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

DAH 8.29.11

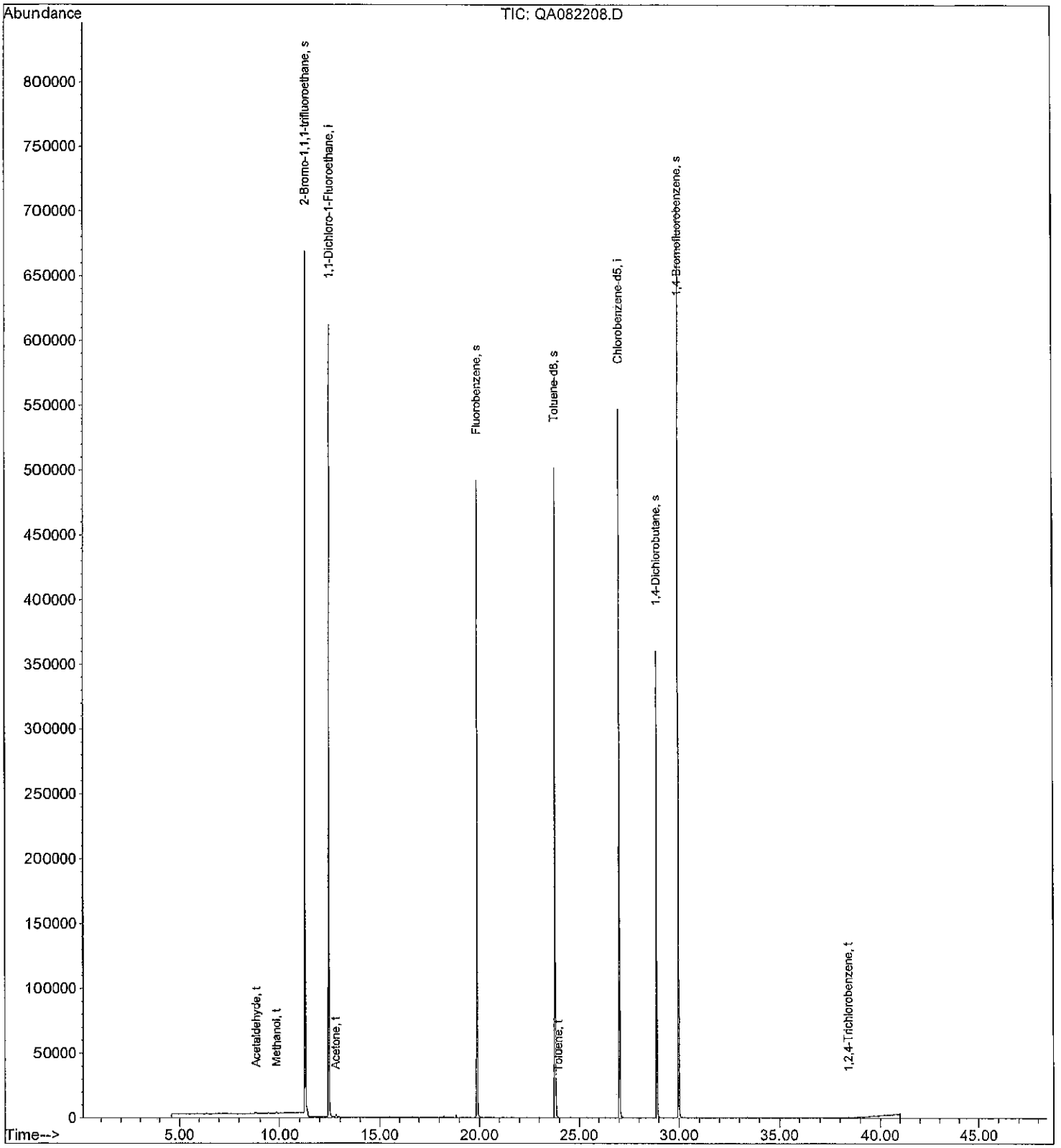
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	651291	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	397464	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	266584	1.7784 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.00%	
65) Fluorobenzene	19.88	96	498508	1.3207 ppbV	0.00
Spiked Amount 2.000			Recovery	= 66.00%	
113) Toluene-d8	23.79	98	427265	1.8082 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	
115) 1,4-Dichlorobutane	28.90	90	54224	1.7701 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.50%	
141) 1,4-Bromofluorobenzene	29.98	95	347481	2.3068 ppbV	0.00
Spiked Amount 2.000			Recovery	= 115.50%	
Target Compounds					Qvalue
14) Acetaldehyde	8.80	44	1952m	0.0852 ppbV	
19) Methanol	9.85	31	1044m	0.0832 ppbV	
34) Acetone	12.80	43	4834m	0.0621 ppbV	
114) Toluene	23.96	91	363	0.0036 ppbV #	1
172) 1,2,4-Trichlorobenzene	38.41	180	136	0.0038 ppbV #	19

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

Quantitation Report

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082208.D Vial: 1
Acq On : 22 Aug 2011 4:50 pm Operator: KRW
Sample : 11H0297-BLK1,,,,CMB HL0938 Inst : GCMSQ2
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 23 11:23 19111 Quant Results File: QA110729.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082209.D Vial: 1
Acq On : 22 Aug 2011 5:48 pm Operator: KRW
Sample : AUH0042-01,,,,;TCESL Inst : GCMSQ2
Misc : 2.7628,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:23 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration COFM overrange
DataAcq Meth : QA110729

DAH 8-29-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	574518	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.02	117	398880	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	203786	1.5411 ppbV	0.00
Spiked Amount 2.000			Recovery	= 77.00%	
65) Fluorobenzene	19.88	96	520418	1.5630 ppbV	0.00
Spiked Amount 2.000			Recovery	= 78.00%	
113) Toluene-d8	23.79	98	440869	1.8592 ppbV	0.00
Spiked Amount 2.000			Recovery	= 93.00%	
115) 1,4-Dichlorobutane	28.90	90	55699	1.8118 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	
141) 1,4-Bromofluorobenzene	29.98	95	343772	2.2741 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	6.23	51	26405344	265.8680 ppbV	S	68
10) Dichlorodifluoromethane	6.60	85	79691	0.3497 ppbV	S	98
11) Chloromethane	7.45	50	7813	0.1544 ppbV	S	91
13) Halocarbon 114	8.30	85	491	0.0022 ppbV #	S	69
15) Vinyl chloride	8.55	62	7697	0.1180 ppbV	S	96
18) n-Butane	9.26	43	126578	1.3393 ppbV	S	88
25) Chloroethane	10.43	64	416	0.0129 ppbV #	S	51
32) Trichlorofluoromethane	12.18	101	31278	0.1222 ppbV	S	97
34) Acetone	12.22	43	520826m	7.5867 ppbV	S	
37) n-Pentane	12.92	43	39207	0.4644 ppbV	S	92
41) 1,1-Dichloroethene	13.34	61	1322	0.0143 ppbV	S	91
43) Methylene chloride	13.68	49	60311	1.2769 ppbV	S	94
45) Carbon Disulfide	13.83	76	3838	0.0178 ppbV	S	99
47) Halocarbon 113	14.15	151	1832	0.0155 ppbV	S	90
50) trans-1,2-Dichloroethene	15.20	61	4775	0.0736 ppbV	S	94
58) Vinyl acetate	15.92	43	15687	0.1653 ppbV	S	95
62) 2-Butanone	16.34	43	121871	1.5105 ppbV	S	98
68) cis-1,2-Dichloroethene	16.80	61	357058	6.9857 ppbV	S	98
71) n-Hexane	17.15	57	21047	0.4100 ppbV	S	92
72) Chloroform	17.27	83	1798	0.0184 ppbV	S	75
81) 1,1,1-Trichloroethane	18.69	97	654	0.0051 ppbV #	S	68
84) Benzene	19.36	78	28102	0.3280 ppbV	S	89
85) Carbon tetrachloride	19.59	117	4049	0.0391 ppbV #	S	1
87) Cyclohexane	19.76	56	7172m	0.0960 ppbV	S	
94) Trichloroethene	21.02	130	20436	0.4593 ppbV #	S	1
100) n-Heptane	21.55	71	7759	0.2320 ppbV #	S	1
105) Methylisobutylketone	22.64	43	5162m	0.0689 ppbV	S	
114) Toluene	23.96	91	437688	4.3242 ppbV #	S	1
116) 2-Hexanone	24.68	43	8859m	0.1418 ppbV	S	
126) Tetrachloroethene	25.89	164	13388	0.3113 ppbV	S	95
128) Chlorobenzene	27.10	112	1022	0.0128 ppbV #	S	1
129) Ethylbenzene	27.83	91	21711	0.2195 ppbV	S	93
130) m/p-Xylene	28.16	91	71115	0.6825 ppbV	S	93
134) Styrene	28.88	104	4099	0.0667 ppbV #	S	28
136) o-Xylene	29.07	91	22906	0.2358 ppbV #	S	100

4.3242 ppb 8-29-11

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082209.D Vial: 1
Acq On : 22 Aug 2011 5:48 pm Operator: KRW
Sample : AUH0042-01,,,,;TCESL Inst : GCMSQ2
Misc : 2.7628,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:23 19111 Quant Results File: QA110729.RES

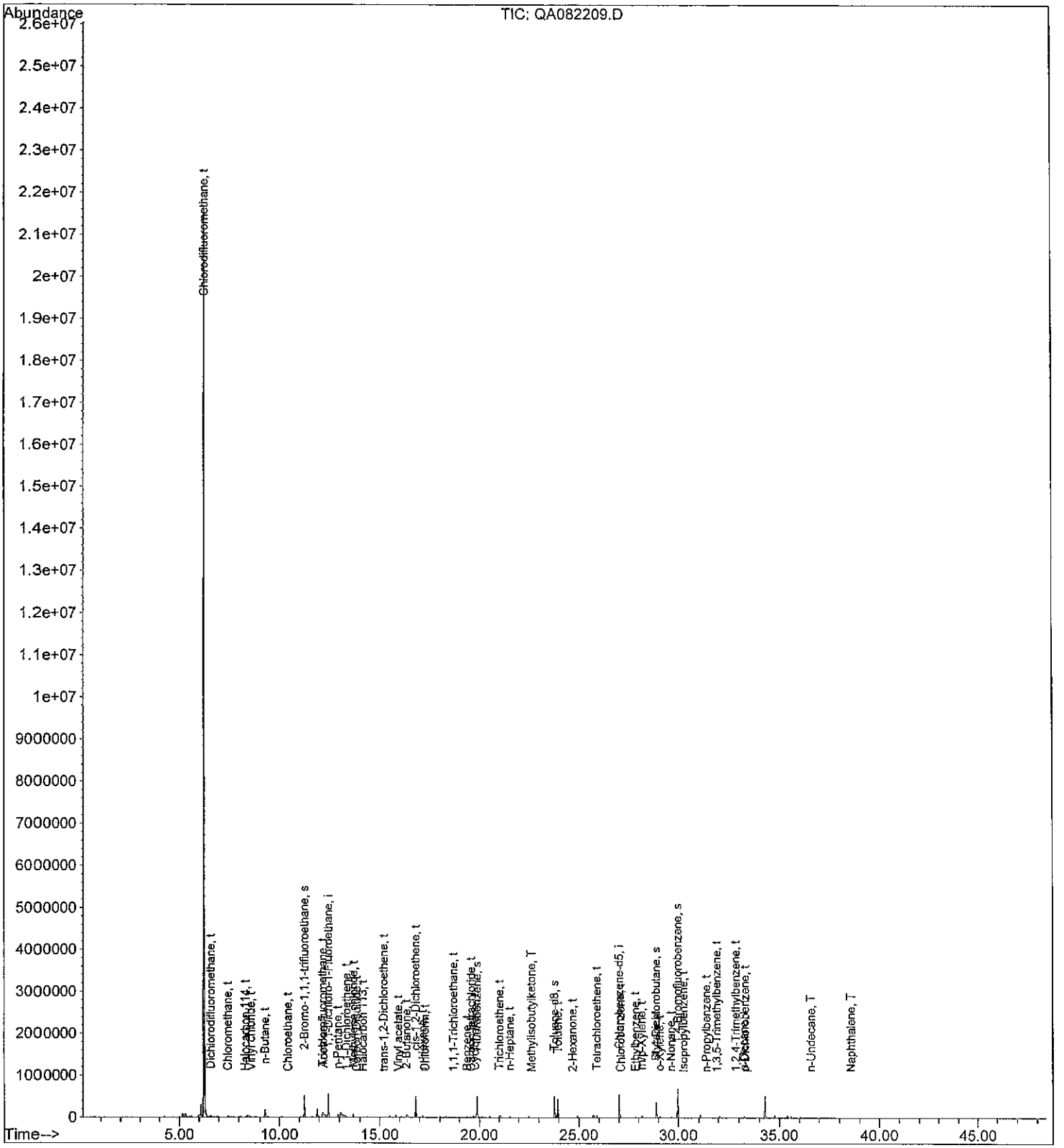
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
140) n-Nonane	29.64	43	8606	0.1449	ppbV	S	88
142) Isopropylbenzene	30.29	105	904	0.0068	ppbV	S	100
147) n-Propylbenzene	31.38	91	3688	0.0225	ppbV #	S	31
150) 1,3,5-Trimethylbenzene	31.91	105	2857	0.0270	ppbV #	S	1
153) 1,2,4-Trimethylbenzene	32.85	105	9409	0.0921	ppbV #	S	1
158) n-Decane	33.25	57	15837	0.1990	ppbV	S	84
159) p-Dichlorobenzene	33.31	146	220	0.0031	ppbV #	S	43
171) n-Undecane	36.58	57	6699	0.0756	ppbV #	S	80
173) Naphthalene	38.59	128	9966	0.1155	ppbV	S	95

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082209.D Vial: 1
Acq On : 22 Aug 2011 5:48 pm Operator: KRW
Sample : AUH0042-01,,,,;TCESL Inst : GCMSQ2
Misc : 2.7628,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:23 19111 Quant Results File: QA110729.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082210.D Vial: 1
Acq On : 22 Aug 2011 6:46 pm Operator: KRW
Sample : AUH0042-02,,,,;TCESL Inst : GCMSQ2
Misc : 3.2422,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:27 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

DAH 9.29.11

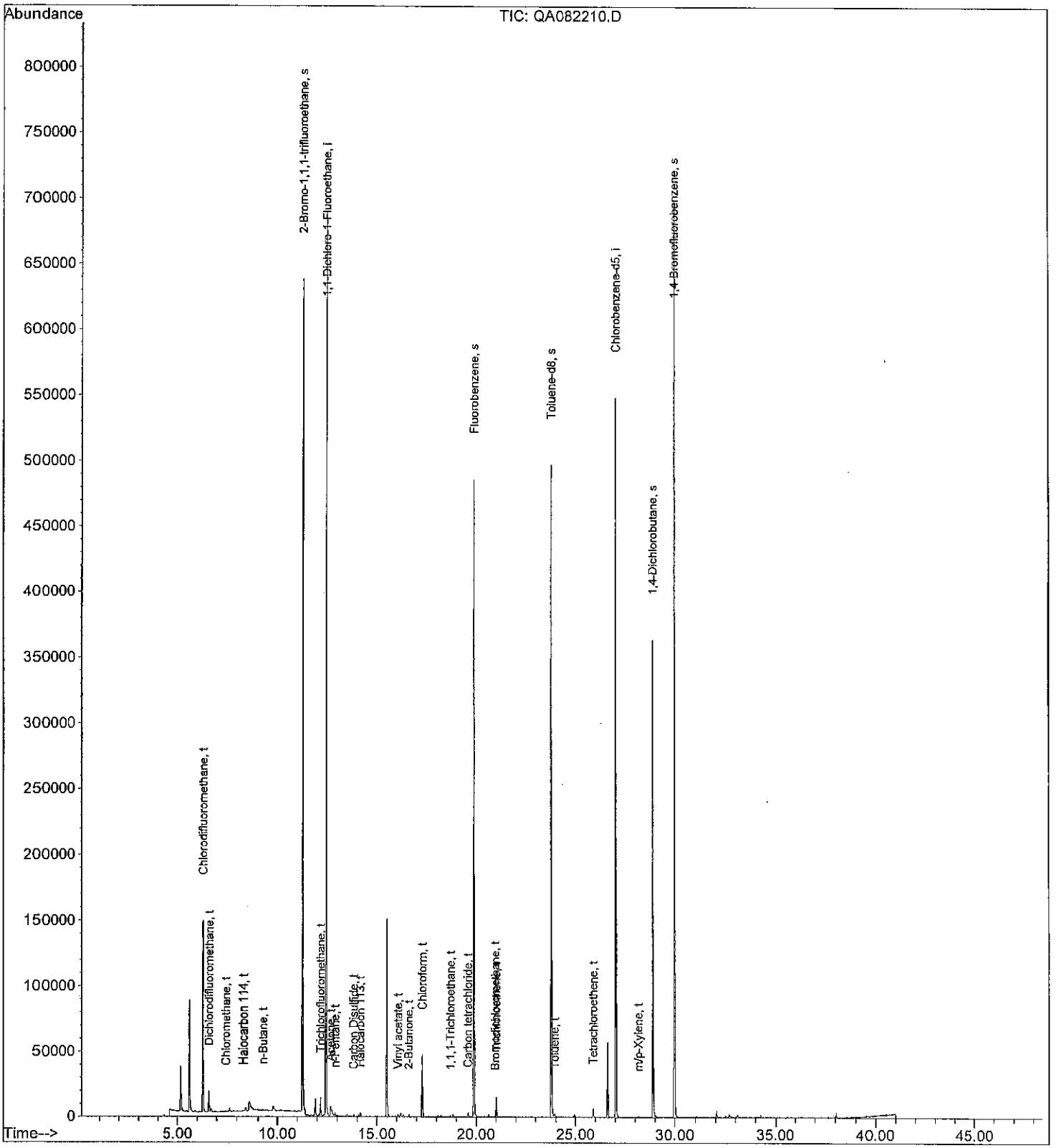
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	743859	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	400213	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	251460	1.4687 ppbV	0.00
Spiked Amount 2.000			Recovery	= 73.50%	
65) Fluorobenzene	19.88	96	485640	1.1265 ppbV	0.00
Spiked Amount 2.000			Recovery	= 56.50%	
113) Toluene-d8	23.79	98	423185	1.7786 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.00%	
115) 1,4-Dichlorobutane	28.90	90	53266	1.7269 ppbV	0.00
Spiked Amount 2.000			Recovery	= 86.50%	
141) 1,4-Bromofluorobenzene	29.99	95	340929	2.2478 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	6.27	51	176038	1.3690 ppbV	S	83
10) Dichlorodifluoromethane	6.60	85	26114	0.0885 ppbV	S	96
11) Chloromethane	7.45	50	798	0.0122 ppbV	S	92
13) Halocarbon 114	8.31	85	330	0.0012 ppbV #	S	27
18) n-Butane	9.25	43	387	0.0032 ppbV	S	67
32) Trichlorofluoromethane	12.18	101	14335	0.0433 ppbV	S	95
34) Acetone	12.69	43	25759m	0.2898 ppbV	S	
37) n-Pentane	12.91	43	1766	0.0162 ppbV	S	87
45) Carbon Disulfide	13.82	76	2290	0.0082 ppbV	S	73
47) Halocarbon 113	14.16	151	1416	0.0093 ppbV	S	89
58) Vinyl acetate	16.06	43	3047m	0.0248 ppbV	S	
62) 2-Butanone	16.61	43	2822m	0.0270 ppbV	S	
72) Chloroform	17.28	83	45801	0.3625 ppbV	S	99
81) 1,1,1-Trichloroethane	18.70	97	1037	0.0062 ppbV	S	77
85) Carbon tetrachloride	19.59	117	2677	0.0258 ppbV #	S	1
93) Bromodichloromethane	20.96	83	661	0.0087 ppbV #	S	1
94) Trichloroethene	21.02	130	6096	0.1365 ppbV #	S	1
114) Toluene	23.96	91	954	0.0094 ppbV #	S	1
126) Tetrachloroethene	25.89	164	1648	0.0382 ppbV	S	89
130) m/p-Xylene	28.17	91	294	0.0028 ppbV #	S	42

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082210.D Vial: 1
Acq On : 22 Aug 2011 6:46 pm Operator: KRW
Sample : AUH0042-02,,,,;TCESL Inst : GCMSQ2
Misc : 3.2422,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:27 19111 Quant Results File: QA110729.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082211.D Vial: 1
Acq On : 22 Aug 2011 7:43 pm Operator: KRW
Sample : AUH0042-03,,,,;TCESL Inst : GCMSQ2
Misc : 2.8070,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:33 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

DAH 8-29-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	668302	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	377909	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	227939	1.4819 ppbV	0.00
Spiked Amount 2.000			Recovery	= 74.00%	
65) Fluorobenzene	19.88	96	471302	1.2169 ppbV	0.00
Spiked Amount 2.000			Recovery	= 61.00%	
113) Toluene-d8	23.79	98	400535	1.7828 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.00%	
115) 1,4-Dichlorobutane	28.90	90	51227	1.7588 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.00%	
141) 1,4-Bromofluorobenzene	29.98	95	324524	2.2659 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	6.26	51	192290	1.6644 ppbV	S	84
10) Dichlorodifluoromethane	6.59	85	32194	0.1215 ppbV	S	96
11) Chloromethane	7.44	50	10428	0.1772 ppbV	S	92
13) Halocarbon 114	8.29	85	2019	0.0079 ppbV	S	77
15) Vinyl chloride	8.54	62	110	0.0014 ppbV	S	76
18) n-Butane	9.25	43	64881	0.5902 ppbV	S	80
23) Bromomethane	9.82	94	256	0.0030 ppbV #	S	17
25) Chloroethane	10.43	64	1355	0.0361 ppbV	S	87
32) Trichlorofluoromethane	12.18	101	21180	0.0712 ppbV	S	98
34) Acetone	12.28	43	262186m	3.2832 ppbV	S	
37) n-Pentane	12.91	43	10972	0.1117 ppbV	S	82
43) Methylene chloride	13.69	49	4296	0.0782 ppbV	S	94
45) Carbon Disulfide	13.82	76	31155	0.1240 ppbV	S	95
47) Halocarbon 113	14.16	151	2006	0.0146 ppbV	S	95
58) Vinyl acetate	15.94	43	9848	0.0892 ppbV	S	89
62) 2-Butanone	16.47	43	21128m	0.2251 ppbV	S	
71) n-Hexane	17.16	57	1735	0.0291 ppbV	S	84
72) Chloroform	17.27	83	5880	0.0518 ppbV	S	95
81) 1,1,1-Trichloroethane	18.69	97	1134	0.0075 ppbV	S	86
84) Benzene	19.36	78	2868	0.0353 ppbV	S	82
85) Carbon tetrachloride	19.59	117	3687	0.0376 ppbV #	S	1
87) Cyclohexane	19.77	56	2128	0.0301 ppbV #	S	100
92) 1,2-Dichloropropane	20.65	63	402	0.0136 ppbV #	S	1
94) Trichloroethene	21.02	130	140060	3.3225 ppbV #	S	1
100) n-Heptane	21.55	71	167	0.0053 ppbV #	S	1
105) Methylisobutylketone	22.71	43	1583m	0.0223 ppbV	S	
114) Toluene	23.96	91	18013	0.1878 ppbV #	S	1
116) 2-Hexanone	24.66	43	1211m	0.0205 ppbV	S	
125) n-Octane	25.73	43	1040	0.0191 ppbV #	S	44
126) Tetrachloroethene	25.89	164	312	0.0077 ppbV	S	84
129) Ethylbenzene	27.83	91	3544	0.0378 ppbV	S	89
130) m/p-Xylene	28.16	91	7975m	0.0808 ppbV	S	
134) Styrene	28.88	104	1069m	0.0184 ppbV	S	
136) o-Xylene	29.07	91	2882	0.0313 ppbV #	S	100
140) n-Nonane	29.63	43	1106	0.0197 ppbV	S	78

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082211.D Vial: 1
Acq On : 22 Aug 2011 7:43 pm Operator: KRW
Sample : AUH0042-03,,,,;TCESL Inst : GCMSQ2
Misc : 2.8070,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:33 19111 Quant Results File: QA110729.RES

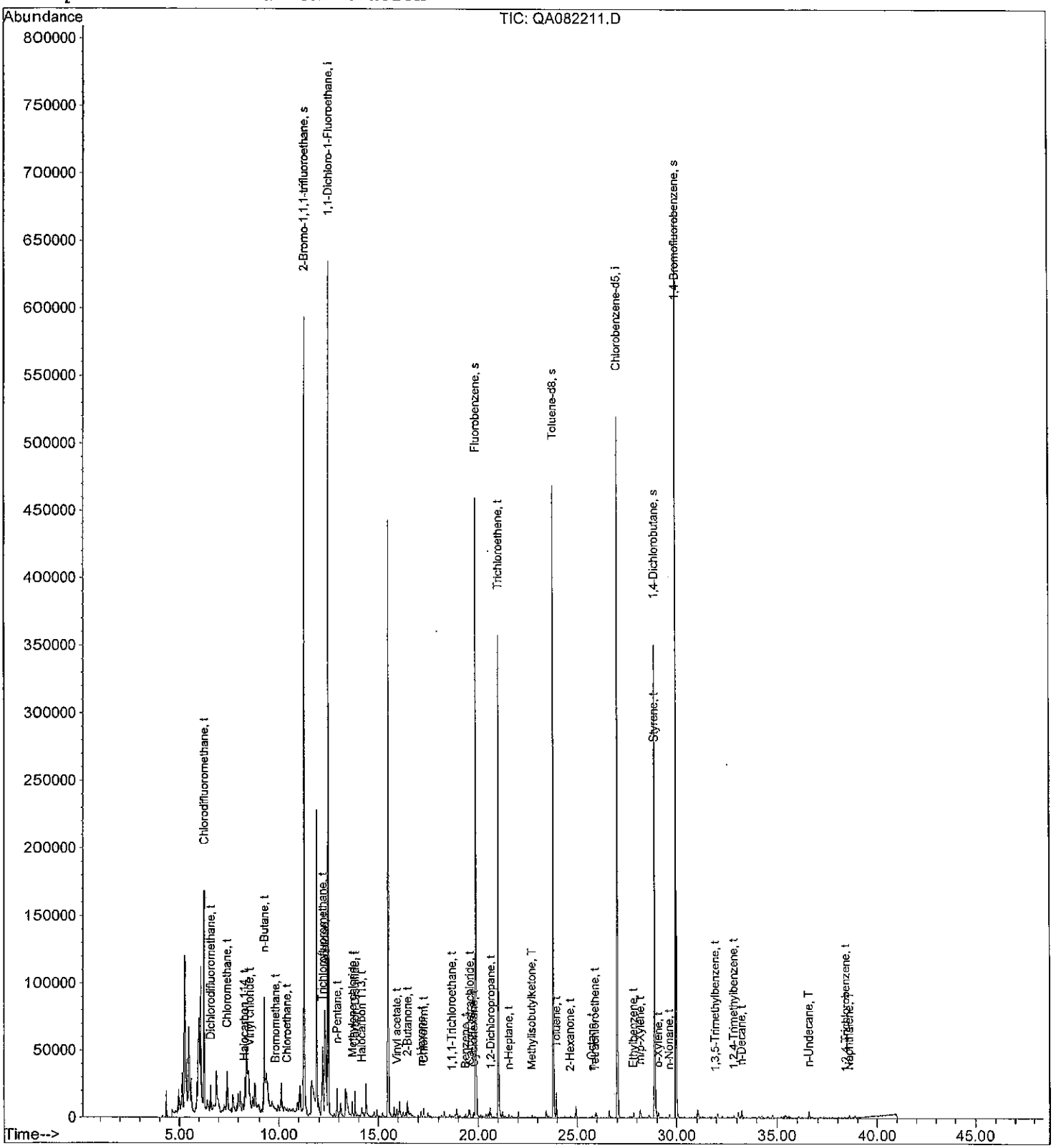
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
150)	1,3,5-Trimethylbenzene	31.93	105	288	0.0029 ppbV # S	1
153)	1,2,4-Trimethylbenzene	32.84	105	1344	0.0139 ppbV # S	1
158)	n-Decane	33.24	57	2223	0.0295 ppbV S	73
171)	n-Undecane	36.58	57	1526	0.0182 ppbV # S	62
172)	1,2,4-Trichlorobenzene	38.41	180	78	0.0023 ppbV # S	65
173)	Naphthalene	38.59	128	1949	0.0238 ppbV S	82

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082211.D Vial: 1
Acq On : 22 Aug 2011 7:43 pm Operator: KRW
Sample : AUH0042-03,,,,;TCESL Inst : GCMSQ2
Misc : 2.8070,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:33 19111 Quant Results File: QA110729.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082212.D Vial: 1
Acq On : 22 Aug 2011 8:41 pm Operator: KRW
Sample : AUH0042-04,,,,;TCESL Inst : GCMSQ2
Misc : 3.6948,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:38 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

DAH 8-29-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	666414	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.02	117	380882	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	235071	1.5326 ppbV	0.00
Spiked Amount 2.000			Recovery	= 76.50%	
65) Fluorobenzene	19.88	96	467093	1.2094 ppbV	0.00
Spiked Amount 2.000			Recovery	= 60.50%	
113) Toluene-d8	23.79	98	409820	1.8099 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	
115) 1,4-Dichlorobutane	28.90	90	53211	1.8127 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	
141) 1,4-Bromofluorobenzene	29.98	95	333429	2.3099 ppbV	0.00
Spiked Amount 2.000			Recovery	= 115.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	6.26	51	939530	8.1554 ppbV	S	82
10) Dichlorodifluoromethane	6.59	85	20804	0.0787 ppbV	S	95
11) Chloromethane	7.44	50	4328	0.0737 ppbV	S	93
13) Halocarbon 114	8.33	85	133m	0.0005 ppbV	S	
15) Vinyl chloride	8.55	62	841	0.0111 ppbV	S	90
17) 1,3-Butadiene	9.10	39	139	0.0029 ppbV #	S	24
18) n-Butane	9.26	43	16411	0.1497 ppbV	S	67
29) Acetonitrile	11.78	41	1638m	0.0467 ppbV	S	
32) Trichlorofluoromethane	12.17	101	14411	0.0486 ppbV	S	92
34) Acetone	12.37	43	282961m	3.5534 ppbV	S	
37) n-Pentane	12.92	43	5615	0.0573 ppbV	S	88
43) Methylene chloride	13.68	49	823	0.0150 ppbV	S	83
45) Carbon Disulfide	13.82	76	24066	0.0961 ppbV	S	97
47) Halocarbon 113	14.15	151	1205	0.0088 ppbV #	S	68
58) Vinyl acetate	15.99	43	7035	0.0639 ppbV	S	91
62) 2-Butanone	16.49	43	20994m	0.2243 ppbV	S	
68) cis-1,2-Dichloroethene	16.81	61	1459	0.0246 ppbV	S	87
71) n-Hexane	17.15	57	420	0.0071 ppbV	S	94
72) Chloroform	17.28	83	1456	0.0129 ppbV	S	80
79) 1,2-Dichloroethane	18.34	62	564	0.0073 ppbV #	S	1
81) 1,1,1-Trichloroethane	18.69	97	114m	0.0008 ppbV	S	
84) Benzene	19.37	78	1660	0.0203 ppbV	S	81
85) Carbon tetrachloride	19.59	117	915	0.0092 ppbV #	S	3
87) Cyclohexane	19.76	56	573	0.0080 ppbV #	S	100
94) Trichloroethene	21.03	130	1939	0.0456 ppbV #	S	1
100) n-Heptane	21.55	71	157	0.0049 ppbV #	S	1
105) Methylisobutylketone	22.65	43	1704m	0.0238 ppbV	S	
114) Toluene	23.95	91	18387	0.1902 ppbV #	S	1
116) 2-Hexanone	24.58	43	5146	0.0862 ppbV #	S	1
125) n-Octane	25.74	43	313	0.0057 ppbV #	S	35
129) Ethylbenzene	27.83	91	5329	0.0564 ppbV	S	94
130) m/p-Xylene	28.16	91	12220	0.1228 ppbV	S	93
134) Styrene	28.87	104	12551	0.2138 ppbV #	S	2
136) o-Xylene	29.07	91	3923	0.0423 ppbV #	S	100
140) n-Nonane	29.64	43	820	0.0145 ppbV	S	80

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082212.D Vial: 1
Acq On : 22 Aug 2011 8:41 pm Operator: KRW
Sample : AUH0042-04,,,,;TCESL Inst : GCMSQ2
Misc : 3.6948,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:38 19111 Quant Results File: QA110729.RES

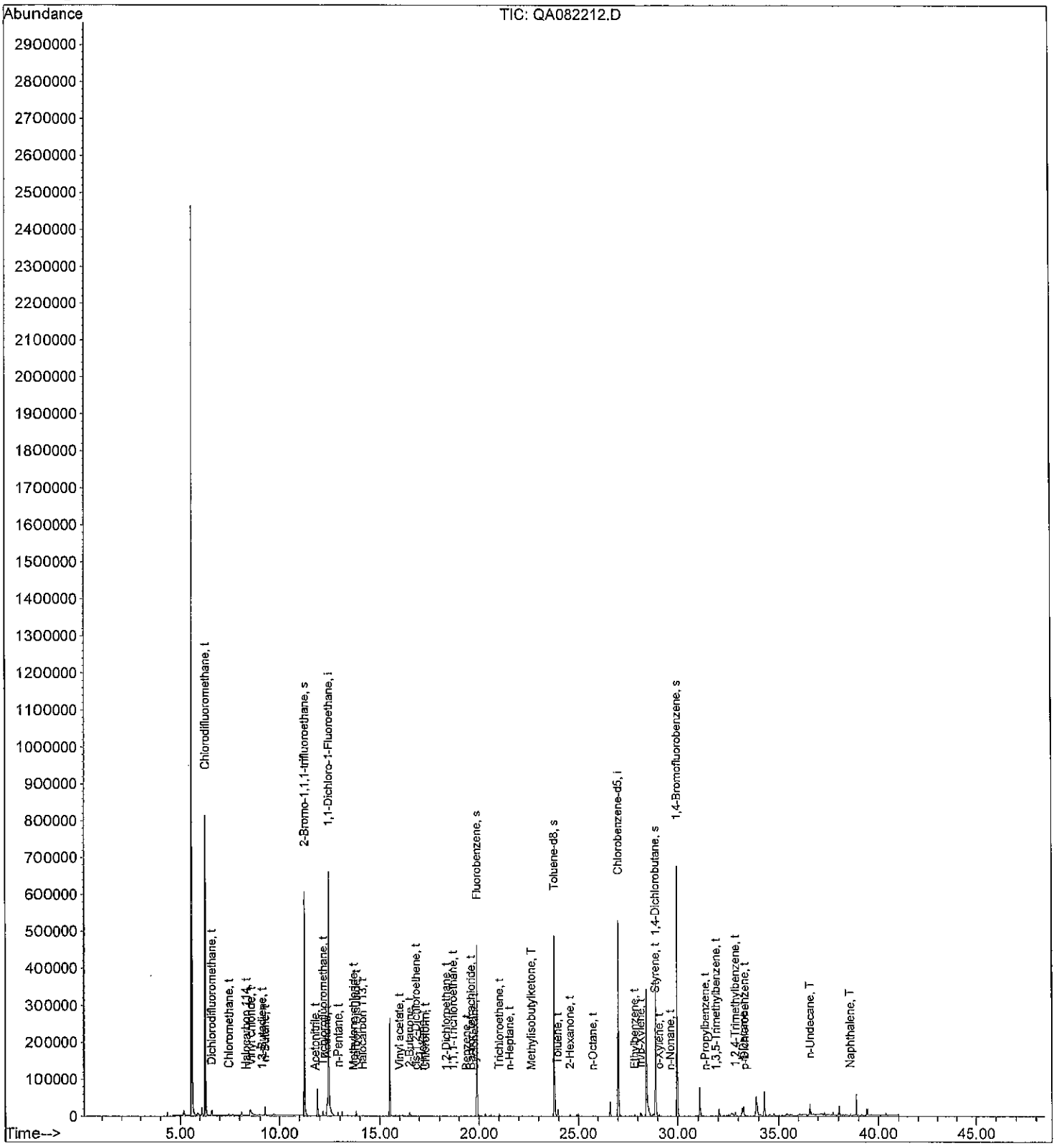
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
147) n-Propylbenzene	31.37	91	992	0.0063 ppbV # S	43
150) 1,3,5-Trimethylbenzene	31.91	105	1088	0.0108 ppbV # S	1
153) 1,2,4-Trimethylbenzene	32.85	105	3897	0.0400 ppbV # S	1
158) n-Decane	33.25	57	10029	0.1319 ppbV S	81
159) p-Dichlorobenzene	33.31	146	582	0.0085 ppbV S	79
171) n-Undecane	36.60	57	10580	0.1251 ppbV # S	67
173) Naphthalene	38.59	128	3279	0.0398 ppbV S	85

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082212.D Vial: 1
Acq On : 22 Aug 2011 8:41 pm Operator: KRW
Sample : AUH0042-04,,,,;TCESL Inst : GCMSQ2
Misc : 3.6948,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:38 19111 Quant Results File: QA110729.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082213.D Vial: 1
Acq On : 22 Aug 2011 9:39 pm Operator: KRW
Sample : AUH0042-05,,,,;TCESL Inst : GCMSQ2
Misc : 2.4439,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:44 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

DAH 8-29-11

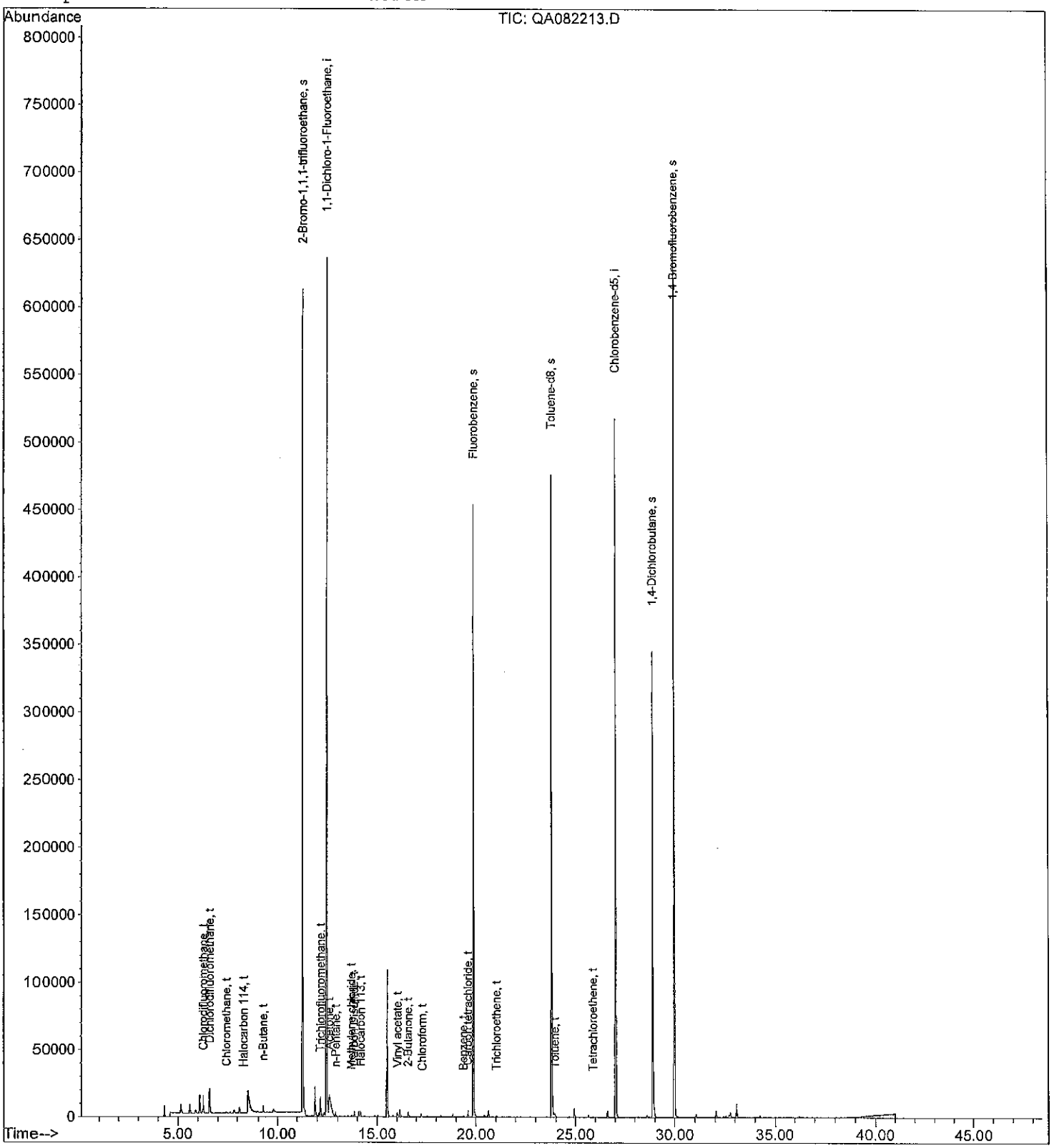
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	686074	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	380799	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	236862	1.5000 ppbV	0.00
Spiked Amount 2.000			Recovery	= 75.00%	
65) Fluorobenzene	19.88	96	459784	1.1564 ppbV	0.00
Spiked Amount 2.000			Recovery	= 58.00%	
113) Toluene-d8	23.79	98	401770	1.7747 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.50%	
115) 1,4-Dichlorobutane	28.90	90	52283	1.7815 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.00%	
141) 1,4-Bromofluorobenzene	29.98	95	326968	2.2656 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	6.28	51	15963	0.1346 ppbV	S	82
10) Dichlorodifluoromethane	6.60	85	28965	0.1065 ppbV	S	96
11) Chloromethane	7.43	50	886	0.0147 ppbV	S	93
13) Halocarbon 114	8.30	85	445	0.0017 ppbV #	S	60
18) n-Butane	9.26	43	3561	0.0316 ppbV	S	63
32) Trichlorofluoromethane	12.17	101	16132	0.0528 ppbV	S	99
34) Acetone	12.58	43	85762m	1.0461 ppbV	S	
37) n-Pentane	12.92	43	2114	0.0210 ppbV	S	73
43) Methylene chloride	13.68	49	799	0.0142 ppbV #	S	79
45) Carbon Disulfide	13.82	76	6301	0.0244 ppbV	S	96
47) Halocarbon 113	14.16	151	1813	0.0129 ppbV	S	86
58) Vinyl acetate	16.01	43	7758m	0.0685 ppbV	S	
62) 2-Butanone	16.57	43	7402m	0.0768 ppbV	S	
72) Chloroform	17.28	83	207	0.0018 ppbV #	S	31
84) Benzene	19.37	78	1117	0.0137 ppbV	S	56
85) Carbon tetrachloride	19.60	117	3531	0.0357 ppbV #	S	12
94) Trichloroethene	21.02	130	384	0.0090 ppbV #	S	1
114) Toluene	23.96	91	1183	0.0122 ppbV #	S	1
126) Tetrachloroethene	25.89	164	164	0.0040 ppbV #	S	25

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082213.D Vial: 1
Acq On : 22 Aug 2011 9:39 pm Operator: KRW
Sample : AUH0042-05,,,,;TCESL Inst : GCMSQ2
Misc : 2.4439,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:44 19111 Quant Results File: QA110729.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082214.D Vial: 1
Acq On : 22 Aug 2011 10:36 pm Operator: KRW
Sample : AUH0042-06,,,,;TCESL Inst : GCMSQ2
Misc : 2.5830,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:49 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

8-29-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	567295	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.02	117	385836	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	233144	1.7856 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.50%	
65) Fluorobenzene	19.88	96	473641	1.4407 ppbV	0.00
Spiked Amount 2.000			Recovery	= 72.00%	
113) Toluene-d8	23.79	98	416536	1.8159 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.00%	
115) 1,4-Dichlorobutane	28.90	90	52199	1.7554 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.00%	
141) 1,4-Bromofluorobenzene	29.98	95	334129	2.2850 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	6.26	51	380149	3.8763 ppbV	S	83
10) Dichlorodifluoromethane	6.60	85	32195	0.1431 ppbV	S	92
11) Chloromethane	7.44	50	1179	0.0236 ppbV	S	86
13) Halocarbon 114	8.28	85	459	0.0021 ppbV #	S	27
18) n-Butane	9.25	43	50677	0.5430 ppbV	S	78
25) Chloroethane	10.43	64	377	0.0118 ppbV #	S	49
32) Trichlorofluoromethane	12.17	101	19247	0.0762 ppbV	S	97
34) Acetone	12.62	43	60845m	0.8976 ppbV	S	
37) n-Pentane	12.92	43	10330	0.1239 ppbV	S	68
43) Methylene chloride	13.68	49	427	0.0092 ppbV #	S	22
45) Carbon Disulfide	13.82	76	15786	0.0740 ppbV	S	97
47) Halocarbon 113	14.16	151	2493	0.0214 ppbV	S	94
58) Vinyl acetate	16.02	43	7524m	0.0803 ppbV	S	
62) 2-Butanone	16.57	43	8973m	0.1126 ppbV	S	
71) n-Hexane	17.16	57	1198	0.0236 ppbV	S	95
72) Chloroform	17.28	83	2866	0.0297 ppbV	S	88
81) 1,1,1-Trichloroethane	18.69	97	714	0.0056 ppbV	S	88
84) Benzene	19.37	78	4491	0.0542 ppbV	S	87
85) Carbon tetrachloride	19.60	117	3259	0.0325 ppbV #	S	1
87) Cyclohexane	19.77	56	770m	0.0107 ppbV	S	
94) Trichloroethene	21.02	130	46650	1.0839 ppbV #	S	1
100) n-Heptane	21.53	71	116	0.0036 ppbV #	S	1
114) Toluene	23.96	91	15103	0.1543 ppbV #	S	1
126) Tetrachloroethene	25.89	164	819	0.0197 ppbV #	S	79
128) Chlorobenzene	27.10	112	418	0.0054 ppbV #	S	1
129) Ethylbenzene	27.83	91	1341	0.0140 ppbV	S	84
130) m/p-Xylene	28.18	91	3324m	0.0330 ppbV	S	
134) Styrene	28.87	104	1222	0.0205 ppbV #	S	1
136) o-Xylene	29.07	91	2279	0.0243 ppbV #	S	100
140) n-Nonane	29.65	43	91	0.0016 ppbV #	S	27
150) 1,3,5-Trimethylbenzene	31.94	105	979m	0.0096 ppbV	S	
153) 1,2,4-Trimethylbenzene	32.85	105	1223	0.0124 ppbV #	S	1
158) n-Decane	33.25	57	892	0.0116 ppbV #	S	44
159) p-Dichlorobenzene	33.31	146	14022	0.2033 ppbV	S	86
171) n-Undecane	36.58	57	338	0.0039 ppbV #	S	27

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082214.D Vial: 1
Acq On : 22 Aug 2011 10:36 pm Operator: KRW
Sample : AUH0042-06,,,,;TCESL Inst : GCMSQ2
Misc : 2.5830,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:49 19111 Quant Results File: QA110729.RES

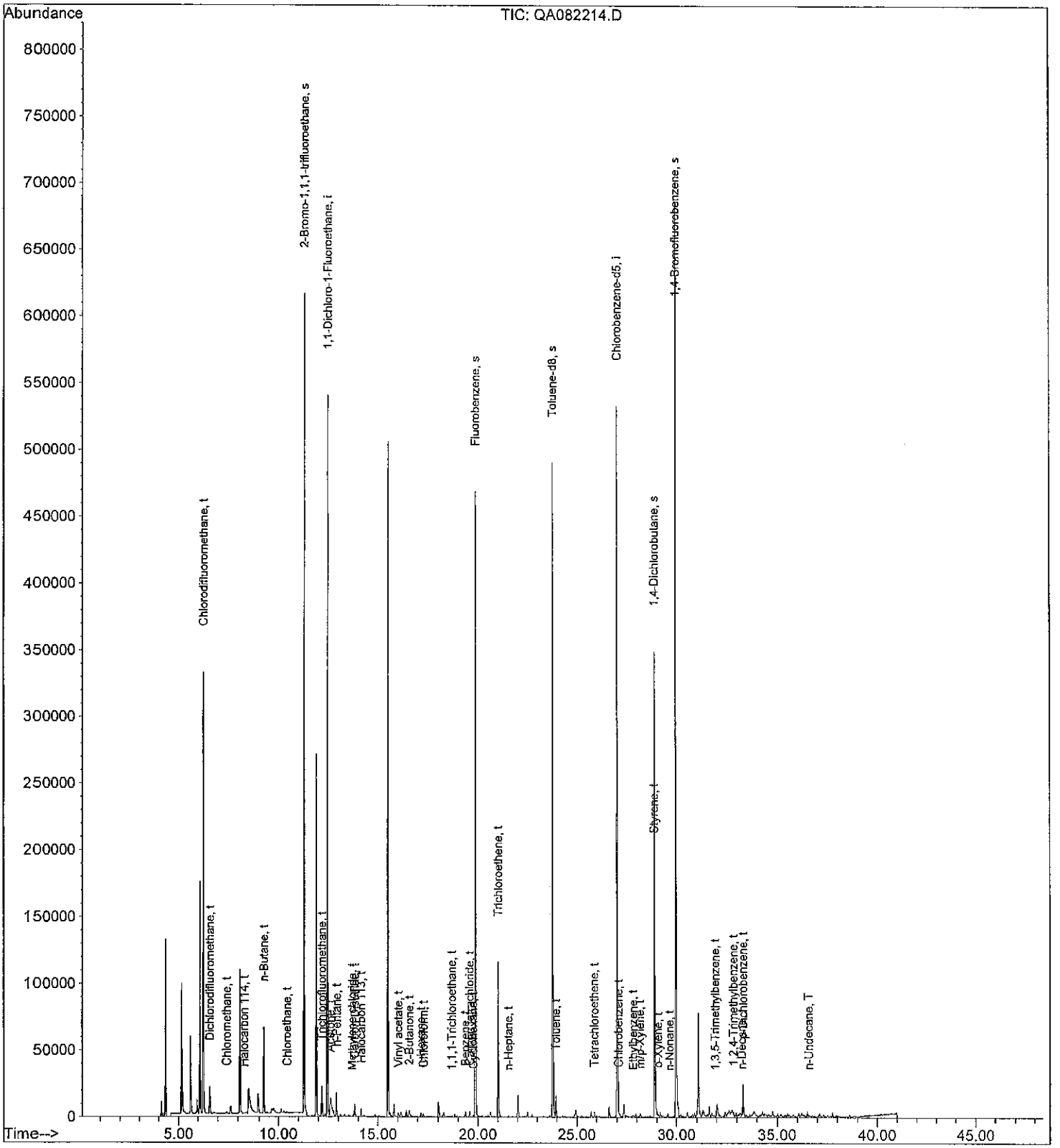
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082214.D Vial: 1
Acq On : 22 Aug 2011 10:36 pm Operator: KRW
Sample : AUH0042-06,,,,;TCESL Inst : GCMSQ2
Misc : 2.5830,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:49 19111 Quant Results File: QA110729.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082215.D Vial: 1
Acq On : 22 Aug 2011 11:34 pm Operator: KRW
Sample : AUH0042-07,,,,;TCESL Inst : GCMSQ2
Misc : 3.2422,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:54 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

DAH 8-29-11

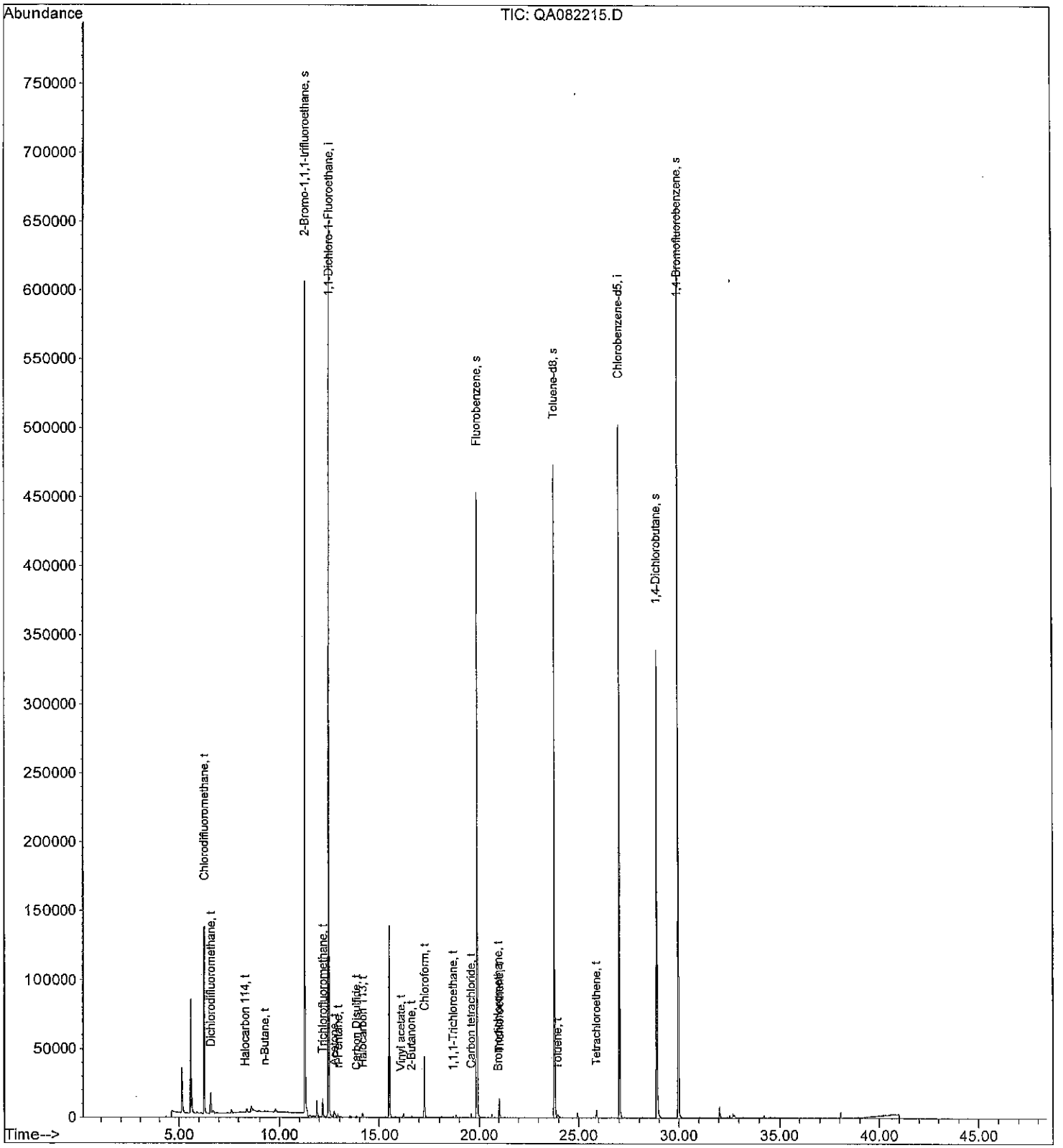
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	692806	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	365559	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	231562	1.4522 ppbV	0.00
Spiked Amount 2.000			Recovery	= 72.50%	
65) Fluorobenzene	19.88	96	449930	1.1206 ppbV	0.00
Spiked Amount 2.000			Recovery	= 56.00%	
113) Toluene-d8	23.79	98	398635	1.8343 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.50%	
115) 1,4-Dichlorobutane	28.90	90	50482	1.7918 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.50%	
141) 1,4-Bromofluorobenzene	29.98	95	318984	2.3024 ppbV	0.00
Spiked Amount 2.000			Recovery	= 115.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	6.27	51	161698	1.3501 ppbV	S	82
10) Dichlorodifluoromethane	6.60	85	24238	0.0882 ppbV	S	97
13) Halocarbon 114	8.32	85	312	0.0012 ppbV #	S	27
18) n-Butane	9.26	43	458	0.0040 ppbV #	S	51
32) Trichlorofluoromethane	12.17	101	13542	0.0439 ppbV	S	98
34) Acetone	12.73	43	13535m	0.1635 ppbV	S	
37) n-Pentane	12.92	43	1391	0.0137 ppbV	S	92
45) Carbon Disulfide	13.82	76	1934	0.0074 ppbV	S	94
47) Halocarbon 113	14.15	151	1312	0.0092 ppbV	S	86
58) Vinyl acetate	16.07	43	1281m	0.0112 ppbV	S	
62) 2-Butanone	16.61	43	1817m	0.0187 ppbV	S	
72) Chloroform	17.28	83	42420	0.3604 ppbV	S	96
81) 1,1,1-Trichloroethane	18.69	97	843	0.0054 ppbV	S	90
85) Carbon tetrachloride	19.59	117	2355	0.0248 ppbV #	S	16
93) Bromodichloromethane	20.96	83	466	0.0067 ppbV #	S	1
94) Trichloroethene	21.02	130	5648	0.1385 ppbV #	S	1
114) Toluene	23.96	91	883	0.0095 ppbV #	S	1
126) Tetrachloroethene	25.88	164	1533	0.0389 ppbV	S	90

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082215.D Vial: 1
Acq On : 22 Aug 2011 11:34 pm Operator: KRW
Sample : AUH0042-07,,,,;TCESL Inst : GCMSQ2
Misc : 3.2422,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:54 19111 Quant Results File: QA110729.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082216.D Vial: 1
Acq On : 23 Aug 2011 12:32 am Operator: KRW
Sample : AUH0042-08,,,,;TCESL Inst : GCMSQ2
Misc : 2.6955,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:59 19111 Quant Results File: QA110729.RES

Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

DAH 8-29-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	12.46	81	676191	2.0000 ppbV	0.00
82) Chlorobenzene-d5	27.03	117	361501	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	11.26	83	228247	1.4666 ppbV	0.00
Spiked Amount 2.000			Recovery	= 73.50%	
65) Fluorobenzene	19.88	96	462010	1.1790 ppbV	0.00
Spiked Amount 2.000			Recovery	= 59.00%	
113) Toluene-d8	23.79	98	398516	1.8543 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	
115) 1,4-Dichlorobutane	28.90	90	51398	1.8448 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.00%	
141) 1,4-Bromofluorobenzene	29.98	95	315641	2.3039 ppbV	0.00
Spiked Amount 2.000			Recovery	= 115.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	6.26	51	188523	1.6128 ppbV	S	83
10) Dichlorodifluoromethane	6.59	85	34053	0.1270 ppbV	S	97
11) Chloromethane	7.44	50	5465	0.0918 ppbV	S	95
13) Halocarbon 114	8.30	85	2381	0.0092 ppbV	S	81
18) n-Butane	9.25	43	84793	0.7623 ppbV	S	81
25) Chloroethane	10.42	64	764	0.0201 ppbV	S	83
29) Acetonitrile	11.46	41	910	0.0255 ppbV #	S	55
32) Trichlorofluoromethane	12.17	101	20619	0.0685 ppbV	S	98
34) Acetone	12.17	43	213970m	2.6482 ppbV	S	
37) n-Pentane	12.92	43	9934	0.1000 ppbV	S	88
43) Methylene chloride	13.68	49	1998	0.0359 ppbV	S	78
45) Carbon Disulfide	13.82	76	26563	0.1045 ppbV	S	97
47) Halocarbon 113	14.15	151	1810	0.0130 ppbV #	S	77
58) Vinyl acetate	15.91	43	11645	0.1043 ppbV	S	95
62) 2-Butanone	16.37	43	15645m	0.1648 ppbV	S	
71) n-Hexane	17.14	57	1406	0.0233 ppbV	S	97
72) Chloroform	17.28	83	635	0.0055 ppbV	S	79
81) 1,1,1-Trichloroethane	18.68	97	1037	0.0068 ppbV #	S	67
84) Benzene	19.36	78	2382	0.0307 ppbV	S	73
85) Carbon tetrachloride	19.60	117	3039	0.0324 ppbV #	S	1
87) Cyclohexane	19.78	56	1292	0.0191 ppbV #	S	100
92) 1,2-Dichloropropane	20.64	63	318	0.0112 ppbV #	S	1
94) Trichloroethene	21.02	130	125171	3.1041 ppbV #	S	1
100) n-Heptane	21.55	71	185	0.0061 ppbV #	S	1
105) Methylisobutylketone	22.72	43	1547m	0.0228 ppbV	S	
114) Toluene	23.96	91	18733	0.2042 ppbV #	S	1
116) 2-Hexanone	24.67	43	669m	0.0118 ppbV	S	
125) n-Octane	25.75	43	1170	0.0224 ppbV #	S	23
126) Tetrachloroethene	25.87	164	413m	0.0106 ppbV	S	
129) Ethylbenzene	27.84	91	3571	0.0398 ppbV	S	89
130) m/p-Xylene	28.16	91	8192	0.0867 ppbV	S	92
134) Styrene	28.88	104	1675m	0.0301 ppbV	S	
136) o-Xylene	29.07	91	2810	0.0319 ppbV #	S	100
140) n-Nonane	29.64	43	907	0.0168 ppbV	S	89
150) 1,3,5-Trimethylbenzene	31.91	105	601	0.0063 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082216.D Vial: 1
Acq On : 23 Aug 2011 12:32 am Operator: KRW
Sample : AUH0042-08,,,,;TCESL Inst : GCMSQ2
Misc : 2.6955,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:59 19111 Quant Results File: QA110729.RES

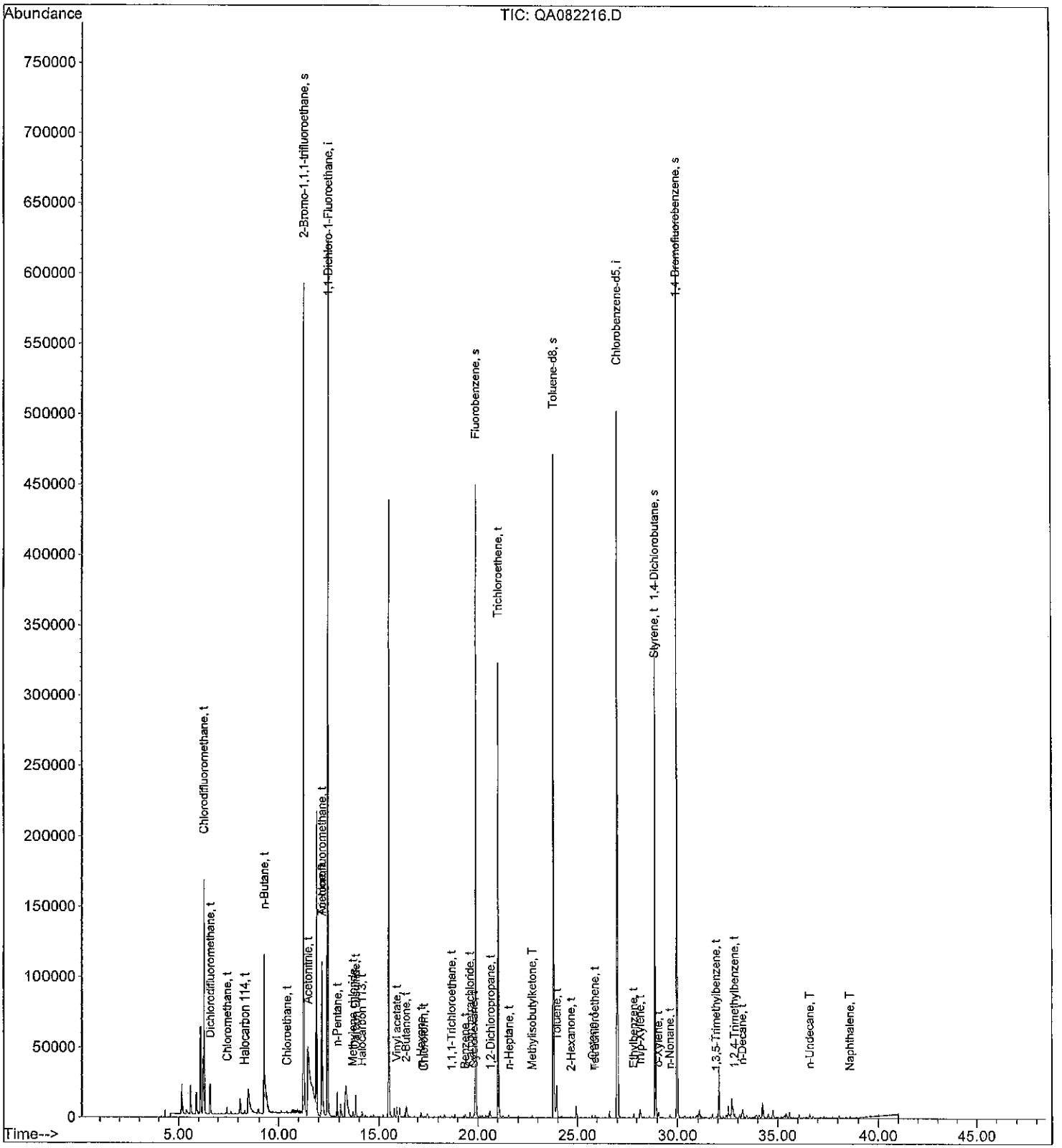
Quant Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration
DataAcq Meth : QA110729

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
153) 1,2,4-Trimethylbenzene	32.84	105	1884	0.0204 ppbV # S	1
158) n-Decane	33.23	57	3712m	0.0515 ppbV S	
171) n-Undecane	36.60	57	1050	0.0131 ppbV # S	64
173) Naphthalene	38.59	128	1121	0.0143 ppbV S	72

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

Data File : O:\MSVOC6\HPCHEM\6\DATA\Q110822\QA082216.D Vial: 1
Acq On : 23 Aug 2011 12:32 am Operator: KRW
Sample : AUH0042-08,,,,;TCESL Inst : GCMSQ2
Misc : 2.6955,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 16:59 19111 Quant Results File: QA110729.RES

Method : O:\MSVOC6\HPCHEM\6\METHODS\QA110729.M (RTE Integrator)
Title :
Last Update : Mon Aug 01 13:22:07 2011
Response via : Initial Calibration



INSTRUMENT GCMS-R1 ANALYST / DATE: UW 8/29/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: Batch ID: 11H04CM

DAILY CHECK —	INSERT: CHANGED (Y / N)	SEPTA: CHANGED (Y / N)	COLUMN: CHANGED (Y / N)	AUTOSAMPLER MAINT. —
M. PUMP OIL —	TURBO OIL NA —	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: RH0328.u Elect Mult. 1024 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: Entech

GC PROGRAM:
GC Meth. RH110824.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#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID:

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	Warmup	RA1865	0.52	5	RA082901	0.01043	VK-VSP-34-17 Low pressure
2	11H04cal-ccv1	⊥		5	02	⊥	⊥ Not used
3	Warmup	RA1878		9	03	0.01946	VK-VSP-34-18
4	11H04cal-ccv1	⊥		9	04	⊥	RA1848 ⊥
5	-BS1	RA1843		1	05	0.01946	VK-VSP-34-19
6	-BSD1	⊥	⊥	1	06	⊥	⊥
7	-BLK1	RA2153	0.52	13	07	1.0	MB
8	AU11004-01	HL0889	⊥	1	08	2.7185	
9	05	5427	⊥	5	09	2.6696	

Austin Laboratory
Instrument Sequence (continued)

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	LLH0404-Dup1	5424	0.5L	5	RA082910	2.6446	
11	AVH0047-07	RA2410		7	11	2.5377	
12	09	RA2301		9	12	2.6271	
13	10	6666		10	13	1.0	
14	11	239		11	14	1.0	
15	AVH0047-03REL	260	0.1L	3	15		
16	AVH0042-01REL		1	2	16		
17	AVH0079-01	RA2276	0.5L	12	17	3.3125	
18	Dup 2	1		12	18	1	
19	02	RL0932		13	19	3.4852	
20	03	RL0934	1	14	20	3.4316	
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

Sequence Name: C:\msdchem\1\sequence\R110829.S
Comment:
Operator: KRW
Data Path: C:\MSDCHEM\1\DATA\R110829\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

8/30/11
LM

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

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

Line			Sample Name/Misc Info
1)	Sample	1	RA082901 RA110824 WARMUP
2)	Sample	1	RA082902 RA110824 11H0404-CCV1,,,,0.01043;CCAL Low precision Not used
3)	Sample	1	RA082903 RA110824 WARMUP,,,,0.01046;CCAL
4)	Sample	1	RA082904 RA110824 11H0404-CCV1,,,,0.01046;CCAL
5)	Sample	1	RA082905 RA110824 11H0404-BS1,,,,0.01046;LCS
6)	Sample	1	RA082906 RA110824 11H0404-BSD1,,,,0.01046;LCS
7)	Sample	1	RA082907 RA110824 11H0404-BLK1
8)	Sample	1	RA082908 RA110824 AUH0047-01,,,,;TCESL
9)	Sample	1	RA082909 RA110824 AUH0047-05,,,,;TCESL
10)	Sample	1	RA082910 RA110824 11H0404-DUP1,,,,;TCESL
11)	Sample	1	RA082911 RA110824 AUH0047-07,,,,;TCESL
12)	Sample	1	RA082912 RA110824 AUH0047-09,,,,;TCESL
13)	Sample	1	RA082913 RA110824 AUH0047-10,,,,;TCESL
14)	Sample	1	RA082914 RA110824 AUH0047-11,,,,;TCESL
15)	Sample	1	RA082915 RA110824 AUH0047-03RE1,,,,;TCESL
16)	Sample	1	RA082916 RA110824 AUH0042-01RE1,,,,;TCESL
17)	Sample	1	RA082917 RA110824 AUH0079-01
18)	Sample	1	RA082918 RA110824 11H0404-DUP2
19)	Sample	1	RA082919 RA110824 AUH0079-02
20)	Sample	1	RA082920 RA110824 AUH0079-03

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

Sequence Name: C:\Smart\R110829.SEQ
Date: 08-30-2011
Time: 08:35:46
Int. Std Volume: 200 cc

8/30/11
[illegible]

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time	
WARMUP	1	5	500	0	C:\Smart\C053011V2.MPT	12:00	
11H0404-CCV1	1	5	500	0	C:\Smart\C053011V2.MPT	12:00	– Low pressure - Not used
WARMUP	1	9	500	0	C:\Smart\C053011V2.MPT	12:00	
11H0404-CCV1	1	9	500	0	C:\Smart\C053011V2.MPT	12:00	
11H0404-BS1	1	1	500	0	C:\Smart\C053011V2.MPT	12:00	
11H0404-BSD1	1	1	500	0	C:\Smart\C053011V2.MPT	12:00	
11H0404-BLK1	1	13	500	0	C:\Smart\C053011V2.MPT	12:00	
AUH0047-01	1	1	500	0	C:\Smart\C053011V2.MPT	12:00	
AUH0047-05	1	5	500	0	C:\Smart\C053011V2.MPT	12:00	
11H0404-DUP1	1	5	500	0	C:\Smart\C053011V2.MPT	12:00	
AUH0047-07	1	7	500	0	C:\Smart\C053011V2.MPT	12:00	
AUH0047-09	1	9	500	0	C:\Smart\C053011V2.MPT	12:00	
AUH0047-10	1	10	500	0	C:\Smart\C053011V2.MPT	12:00	
AUH0047-11	1	11	500	0	C:\Smart\C053011V2.MPT	12:00	
AUH0047-03RE1	1	3	100	0	C:\Smart\C053011V2.MPT	12:00	
AUH0042-01RE1	1	2	100	0	C:\Smart\C053011V2.MPT	12:00	
AUH0079-01	1	12	500	0	C:\Smart\C053011V2.MPT	12:00	
11H0404-DUP2	1	12	500	0	C:\Smart\C053011V2.MPT	12:00	
AUH0079-02	1	13	500	0	C:\Smart\C053011V2.MPT	12:00	
AUH0079-03	1	14	500	0	C:\Smart\C053011V2.MPT	12:00	

BFB

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082904.D Vial: 1
Acq On : 29 Aug 2011 3:06 pm Operator: KRW
Sample : 11H0404-CCV1,,,,0.01046;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :

8/29/11
VM

Spectrum Information: Average of 29.110 to 29.154 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	29.8	4670	PASS
75	95	30	66	64.4	10101	PASS
95	95	100	100	100.0	15688	PASS
96	95	5	9	6.8	1062	PASS
173	174	0.00	2	0.6	69	PASS
174	95	50	120	69.3	10867	PASS
175	174	4	9	7.3	797	PASS
176	174	93	101	93.6	10174	PASS
177	176	5	9	6.8	687	PASS

RA082904.D RA110824.M Mon Aug 29 15:59:30 2011 KRW

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082904.D Vial: 1
Acq On : 29 Aug 2011 3:06 pm Operator: KRW
Sample : 11H0404-CCV1,,,,0.01046;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:17 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	209924	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	81003	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	83478	1.9458 ppbV	0.02
Spiked Amount 2.000			Recovery	= 97.50%	
65) Fluorobenzene	19.00	96	182338	1.7860 ppbV	0.01
Spiked Amount 2.000			Recovery	= 89.50%	
113) Toluene-d8	22.92	98	146059	2.0550 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.50%	
115) 1,4-Dichlorobutane	28.06	90	11722	2.0437 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.00%	
141) 1,4-Bromofluorobenzene	29.13	95	54873	2.0606 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	32736	4.9162 ppbV	S	96
4) Acetylene	3.54	26	50838	4.0900 ppbV	S	90
5) Ethane	3.63	26	12266	3.2961 ppbV	S	98
7) Propylene	5.21	41	90381	4.8111 ppbV	S	97
9) Propane	5.37	43	39468	4.5740 ppbV	S	92
10) Dichlorodifluoromethane	5.87	85	489647	4.5686 ppbV	S	98
11) Chloromethane	6.73	50	121585	4.6205 ppbV	S	98
12) Isobutane	7.37	43	248382	4.5594 ppbV	S	93
13) Halocarbon 114	7.59	85	418090	4.3931 ppbV	S	89
14) Acetaldehyde	7.55	44	59850m	5.0239 ppbV	S	
15) Vinyl chloride	7.81	62	133097	4.4438 ppbV	S	98
16) 1-Butene/Isobutene	8.25	41	174166	4.5393 ppbV	S	75
17) 1,3-Butadiene	8.36	39	118508	4.9402 ppbV	S	97
18) n-Butane	8.52	43	210716	4.4371 ppbV	S	94
19) Methanol	8.33	31	21370m	3.5347 ppbV	S	
20) trans-2-Butene	8.90	41	161013	4.5322 ppbV	S	90
23) Bromomethane	9.06	94	120467	4.3675 ppbV	S	91
24) cis-2-Butene	9.37	41	171188	4.8637 ppbV	S	90
25) Chloroethane	9.64	64	69820	4.4093 ppbV	S	90
26) Vinyl bromide	10.44	106	138509	5.0563 ppbV	S	85
27) 3-Methyl-1-butene	10.46	55	345550	5.0098 ppbV	S	80
28) Ethanol	10.49	45	41614m	4.2830 ppbV	S	
29) Acetonitrile	10.64	41	115867m	5.1477 ppbV	S	
30) Acrolein	10.87	56	57010	5.6169 ppbV #	S	45
31) Isopentane	11.09	41	167365	4.7094 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	470456	4.8513 ppbV #	S	71
33) 1-Pentene	11.67	42	190671	5.0255 ppbV #	S	1
34) Acetone	11.16	43	312740m	5.6773 ppbV	S	
36) Acrylonitrile	12.09	52	104200	5.6651 ppbV #	S	1
37) n-Pentane	12.10	43	253146	5.0044 ppbV	S	85
39) Isoprene	12.27	67	163417	4.7711 ppbV	S	95
40) trans-2-Pentene	12.43	55	293442	5.1069 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	274552	4.9946 ppbV #	S	10
42) cis-2-Pentene	12.72	55	285754	5.0221 ppbV #	S	1
43) Methylene chloride	12.85	49	181498	4.9245 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082904.D Vial: 1
Acq On : 29 Aug 2011 3:06 pm Operator: KRW
Sample : 11H0404-CCV1,,,,0.01046;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:17 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
44)	2-Methyl-2-butene	12.91	55	307335	5.2928	ppbV	#	S	1
45)	Carbon Disulfide	12.95	76	434687	5.1538	ppbV		S	96
46)	3-Chloropropene	13.01	41	168278	4.9763	ppbV	#	S	1
47)	Halocarbon 113	13.32	151	184570	4.8249	ppbV	#	S	100
48)	Neohexane	13.47	43	210560	5.0665	ppbV	#	S	1
49)	Cyclopentene	14.18	67	303045	4.7648	ppbV	#	S	1
50)	trans-1,2-Dichloroethene	14.34	61	229700	4.9487	ppbV	#	S	1
51)	4-Methyl-1-pentene	14.38	43	216288	5.0197	ppbV		S	89
53)	1,1-Dichloroethane	14.63	63	289780	4.4802	ppbV	#	S	100
54)	Cyclopentane	14.62	42	245637	4.4376	ppbV		S	80
55)	2,3-Dimethylbutane	14.73	43	319846	4.3405	ppbV	#	S	63
56)	Methyl tert-butyl ether	14.81	73	394413	4.3448	ppbV	#	S	1
57)	Isohexane	14.94	42	166759	4.4379	ppbV	#	S	42
58)	Vinyl acetate	15.05	43	482100	5.4982	ppbV	#	S	47
62)	2-Butanone	15.34	43	339924	5.0828	ppbV	#	S	1
63)	Chloroprene	15.51	53	291786	4.6488	ppbV		S	75
64)	3-Methylpentane	15.54	57	275395	4.4334	ppbV		S	94
66)	2-Methyl-1-pentene	15.77	56	241189m	4.3059	ppbV		S	
67)	1-Hexene	15.81	41	166289	4.6491	ppbV	#	S	56
68)	cis-1,2-Dichloroethene	15.94	61	228935	4.6322	ppbV	#	S	1
69)	Bromochloromethane	16.17	130	96078	4.2800	ppbV	#	S	1
71)	n-Hexane	16.30	57	238321	4.6848	ppbV	#	S	1
72)	Chloroform	16.41	83	352170	4.4432	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	298132	4.7360	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	242570	4.3961	ppbV		S	96
78)	Methylcyclopentane	17.43	56	283703	4.4165	ppbV		S	87
79)	1,2-Dichloroethane	17.45	62	312047	4.9336	ppbV		S	90
80)	2,4-Dimethylpentane	17.62	43	335836	4.6117	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.80	97	409990	4.6926	ppbV	#	S	1
84)	Benzene	18.48	78	341766	5.0566	ppbV		S	74
85)	Carbon tetrachloride	18.70	117	406164	5.2473	ppbV	#	S	1
86)	1-Butanol	18.67	56	85800	4.0581	ppbV		S	97
87)	Cyclohexane	18.87	56	240860	5.1260	ppbV	#	S	1
88)	Isoheptane	19.27	43	357472	5.1781	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.34	56	291787	5.0006	ppbV	#	S	66
91)	3-Methylhexane	19.65	43	283993	5.1850	ppbV	#	S	79
92)	1,2-Dichloropropane	19.75	63	137621	5.1786	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	331755	5.0193	ppbV	#	S	1
94)	Trichloroethene	20.14	130	135846	4.8267	ppbV	#	S	1
95)	1,4-Dioxane	20.18	88	47657	4.3439	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	792012	4.9755	ppbV		S	91
98)	2-Chloropentane	20.45	70	204653	5.2502	ppbV	#	S	12
100)	n-Heptane	20.70	71	137665	5.1254	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	173374	5.0742	ppbV	#	S	1
105)	Methylisobutylketone	21.64	43	389821	5.9031	ppbV	#	S	1
106)	Methylcyclohexane	21.62	83	258984	5.0064	ppbV		S	91
110)	trans-1,3-Dichloropropene	22.41	75	168717	5.3968	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	107530	5.2014	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	477901	5.2314	ppbV		S	94
114)	Toluene	23.09	91	336912	5.5164	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	356314	5.4481	ppbV	#	S	9

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082904.D Vial: 1
Acq On : 29 Aug 2011 3:06 pm Operator: KRW
Sample : 11H0404-CCV1,,,,0.01046;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:17 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
119) Dibromochloromethane	23.77	129	190760	5.1852 ppbV # S	36
120) 3-Methylheptane	23.85	85	193580	5.1638 ppbV # S	1
122) 1,2-Dibromoethane	24.18	107	137164	4.9927 ppbV # S	1
125) n-Octane	24.92	43	347835	5.7097 ppbV # S	50
126) Tetrachloroethene	25.02	164	121434	5.3706 ppbV S	97
128) Chlorobenzene	26.23	112	171767	5.3732 ppbV # S	1
129) Ethylbenzene	26.98	91	360204	5.8402 ppbV S	97
130) m/p-Xylene	27.35	91	614708m	11.4838 ppbV S	
131) Bromoform	27.38	173	118751	5.3187 ppbV # S	1
134) Styrene	28.02	104	145179	5.7390 ppbV # S	21
135) 1,1,2,2-Tetrachloroethane	28.23	83	180221	4.6165 ppbV S	92
136) o-Xylene	28.23	91	322660	5.8635 ppbV S	88
140) n-Nonane	28.84	43	304786	5.9075 ppbV # S	72
142) Isopropylbenzene	29.45	105	455975	5.3595 ppbV S	100
144) alpha-Pinene	30.24	93	522859	5.4161 ppbV S	95
147) n-Propylbenzene	30.56	91	392018	4.8965 ppbV # S	35
148) m-Ethyltoluene	30.82	105	292646	4.4803 ppbV S	89
149) p-Ethyltoluene	30.90	105	274214	4.6311 ppbV S	89
150) 1,3,5-Trimethylbenzene	31.09	105	339539	4.9249 ppbV S	87
151) o-Ethyltoluene	31.49	105	339898	4.4455 ppbV S	88
152) beta-Pinene	31.77	93	378079	3.9097 ppbV # S	1
153) 1,2,4-Trimethylbenzene	32.02	105	316174	5.0766 ppbV # S	1
156) Benzyl chloride	32.30	91	292240	8.0730 ppbV S	98
157) m-Dichlorobenzene	32.30	146	121410	4.7129 ppbV S	85
158) n-Decane	32.47	57	368170	5.9094 ppbV S	74
159) p-Dichlorobenzene	32.48	146	136099	5.5080 ppbV S	84
161) 1,2,3-Trimethylbenzene	33.04	105	445358	6.1101 ppbV S	86
163) o-Dichlorobenzene	33.29	146	174059	6.1442 ppbV S	94
164) Limonene	33.47	68	264358	6.9343 ppbV S	83
165) Indan	33.49	117	292198	6.9747 ppbV S	90
166) Indene	33.71	115	304148	8.3104 ppbV S	92
167) m-Diethylbenzene	33.92	105	380952	6.3193 ppbV # S	28
168) p-Diethylbenzene	34.15	119	318395	6.4042 ppbV # S	1
171) n-Undecane	35.84	57	517799	6.0086 ppbV S	74
172) 1,2,4-Trichlorobenzene	37.85	180	213536	6.9849 ppbV # S	100
173) Naphthalene	38.04	128	560870	5.8977 ppbV S	96
174) Hexachloro-1,3-butadiene	38.81	225	317909	6.9449 ppbV S	96

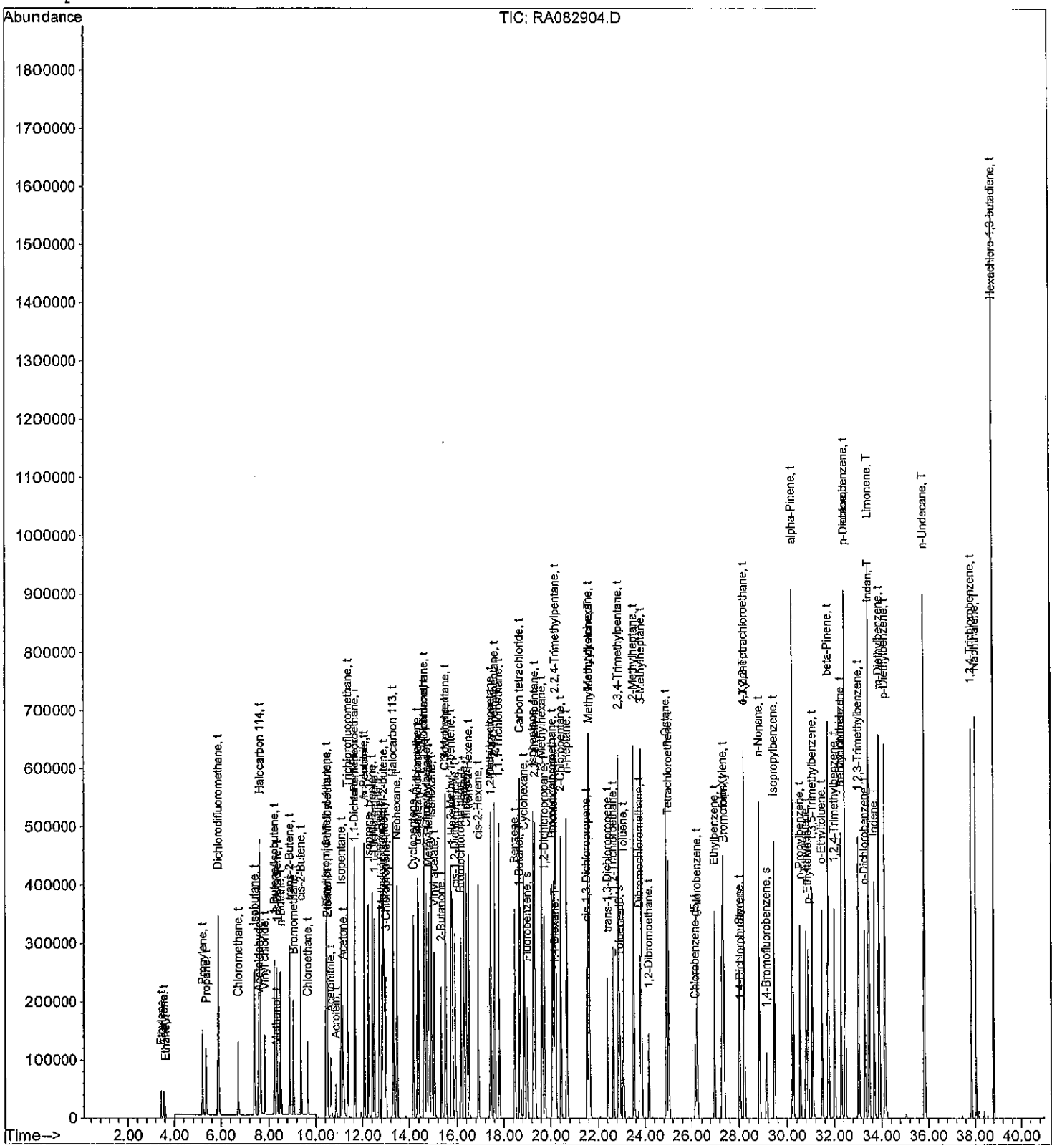
5.1852

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082904.D Vial: 1
Acq On : 29 Aug 2011 3:06 pm Operator: KRW
Sample : 11H0404-CCV1,,,,0.01046;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:17 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082905.D Vial: 1
Acq On : 29 Aug 2011 4:07 pm Operator: KRW
Sample : 11H0404-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:19 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

AMP 8-22-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	210490	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	79434	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	84563	1.9657 ppbV	0.02
Spiked Amount 2.000			Recovery	= 98.50%	
65) Fluorobenzene	19.00	96	179322	1.7517 ppbV	0.01
Spiked Amount 2.000			Recovery	= 87.50%	
113) Toluene-d8	22.92	98	139258	1.9980 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
115) 1,4-Dichlorobutane	28.05	90	11742	2.0876 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.50%	
141) 1,4-Bromofluorobenzene	29.13	95	54920	2.1031 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	32362	4.8469 ppbV	S	94
4) Acetylene	3.54	26	50734	4.0707 ppbV	S	91
5) Ethane	3.63	26	11703	3.1363 ppbV	S	98
7) Propylene	5.21	41	89519	4.7524 ppbV	S	98
8) Chlorodifluoromethane	5.57	51	291500	5.2552 ppbV	S	97
9) Propane	5.37	43	38938	4.5005 ppbV	S	93
10) Dichlorodifluoromethane	5.88	85	512256	4.7667 ppbV	S	98
11) Chloromethane	6.73	50	129183	4.8960 ppbV	S	98
12) Isobutane	7.38	43	246807	4.5183 ppbV	S	93
13) Halocarbon 114	7.59	85	388946	4.0759 ppbV	S	91
15) Vinyl chloride	7.81	62	141641	4.7164 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	173943	4.5213 ppbV	S	76
17) 1,3-Butadiene	8.36	39	123845	5.1488 ppbV	S	99
18) n-Butane	8.52	43	211915	4.4504 ppbV	S	95
19) Methanol	8.33	31	22705m	3.7455 ppbV	S	
20) trans-2-Butene	8.90	41	160362	4.5017 ppbV	S	91
23) Bromomethane	9.06	94	128958	4.6628 ppbV	S	92
24) cis-2-Butene	9.37	41	171493	4.8592 ppbV	S	92
25) Chloroethane	9.65	64	74060	4.6645 ppbV	S	93
26) Vinyl bromide	10.43	106	125552	4.5710 ppbV	S	86
27) 3-Methyl-1-butene	10.46	55	349226	5.0495 ppbV	S	80
29) Acetonitrile	10.64	41	105326m	4.6668 ppbV	S	
30) Acrolein	10.87	56	49862	4.8995 ppbV #	S	48
31) Isopentane	11.09	41	167492	4.7003 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	489664	5.0358 ppbV #	S	70
33) 1-Pentene	11.67	42	195298	5.1336 ppbV #	S	1
34) Acetone	11.16	43	289030m	5.2328 ppbV	S	
35) 2-Propanol	11.92	45	236469	5.6714 ppbV #	S	1
36) Acrylonitrile	12.09	52	93900	5.0914 ppbV #	S	1
37) n-Pentane	12.10	43	258019	5.0870 ppbV	S	85
38) Diethyl ether	12.28	74	68118	5.4158 ppbV #	S	1
39) Isoprene	12.27	67	170988	4.9787 ppbV	S	95
40) trans-2-Pentene	12.43	55	287962	4.9981 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	290030	5.2620 ppbV #	S	10
42) cis-2-Pentene	12.72	55	285142	4.9979 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082905.D Vial: 1
Acq On : 29 Aug 2011 4:07 pm Operator: KRW
Sample : 11H0404-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:19 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	Methylene chloride	12.85	49	191621	5.1852	ppbV	# S	1
44)	2-Methyl-2-butene	12.91	55	300420	5.1598	ppbV	# S	1
45)	Carbon Disulfide	12.95	76	344999	4.0794	ppbV	S	95
46)	3-Chloropropene	13.01	41	162914	4.8048	ppbV	# S	1
47)	Halocarbon 113	13.32	151	197685	5.1539	ppbV	# S	100
50)	trans-1,2-Dichloroethene	14.34	61	224757	4.8292	ppbV	# S	1
51)	4-Methyl-1-pentene	14.38	43	218139	5.0490	ppbV	S	90
53)	1,1-Dichloroethane	14.63	63	289148	4.4584	ppbV	# S	100
56)	Methyl tert-butyl ether	14.81	73	422581	4.6425	ppbV	# S	1
58)	Vinyl acetate	15.05	43	392286	4.4619	ppbV	# S	47
62)	2-Butanone	15.34	43	307590	4.5869	ppbV	# S	1
63)	Chloroprene	15.51	53	288361	4.5819	ppbV	S	77
68)	cis-1,2-Dichloroethene	15.94	61	234634	4.7347	ppbV	# S	1
71)	n-Hexane	16.30	57	222666	4.3653	ppbV	# S	1
72)	Chloroform	16.41	83	361440	4.5479	ppbV	# S	1
74)	trans-2-Hexene	16.51	55	292722	4.6375	ppbV	# S	1
77)	cis-2-Hexene	16.91	55	241119	4.3580	ppbV	S	94
79)	1,2-Dichloroethane	17.45	62	314526	4.9594	ppbV	S	90
81)	1,1,1-Trichloroethane	17.81	97	415097	4.7383	ppbV	# S	1
84)	Benzene	18.48	78	342656	5.1699	ppbV	S	73
85)	Carbon tetrachloride	18.71	117	368986	4.8611	ppbV	# S	1
86)	1-Butanol	18.67	56	83323	4.0188	ppbV	S	95
87)	Cyclohexane	18.87	56	228053	4.9493	ppbV	# S	1
92)	1,2-Dichloropropane	19.75	63	137868	5.2904	ppbV	# S	1
93)	Bromodichloromethane	20.08	83	354068	5.4627	ppbV	# S	1
94)	Trichloroethene	20.14	130	136621	4.9502	ppbV	# S	1
95)	1,4-Dioxane	20.18	88	32679	3.0375	ppbV	# S	11
97)	2,2,4-Trimethylpentane	20.22	57	755236	4.8382	ppbV	S	91
98)	2-Chloropentane	20.45	70	178040	4.6577	ppbV	# S	12
100)	n-Heptane	20.70	71	131524	4.9935	ppbV	# S	1
104)	cis-1,3-Dichloropropene	21.54	75	182133	5.4359	ppbV	# S	1
105)	Methylisobutylketone	21.64	43	338700	5.2303	ppbV	# S	1
110)	trans-1,3-Dichloropropene	22.41	75	152299	4.9679	ppbV	# S	1
111)	1,1,2-Trichloroethane	22.65	97	107280	5.2918	ppbV	# S	1
114)	Toluene	23.09	91	331694	5.5383	ppbV	# S	1
116)	2-Hexanone	23.63	43	234783	5.5338	ppbV	# S	23
119)	Dibromochloromethane	23.77	129	197747	5.4813	ppbV	# S	41
122)	1,2-Dibromoethane	24.18	107	130838	4.8565	ppbV	# S	1
125)	n-Octane	24.92	43	332245	5.5615	ppbV	# S	49
126)	Tetrachloroethene	25.02	164	120812	5.4486	ppbV	S	97
128)	Chlorobenzene	26.23	112	171096	5.4580	ppbV	# S	1
129)	Ethylbenzene	26.98	91	361435	5.9759	ppbV	S	97
130)	m/p-Xylene	27.35	91	618153m	11.7762	ppbV	S	
131)	Bromoform	27.38	173	121906	5.5679	ppbV	# S	1
134)	Styrene	28.02	104	145749	5.8753	ppbV	# S	21
135)	1,1,2,2-Tetrachloroethane	28.23	83	184298	4.8142	ppbV	S	93
136)	o-Xylene	28.22	91	326973	6.0592	ppbV	S	89
140)	n-Nonane	28.84	43	304785	6.0242	ppbV	# S	72
142)	Isopropylbenzene	29.45	105	464413	5.5665	ppbV	S	100
145)	o/m-Chlorotoluene	30.41	91	242927	6.5343	ppbV	# S	1
147)	n-Propylbenzene	30.56	91	396526	5.0506	ppbV	# S	34

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082905.D Vial: 1
Acq On : 29 Aug 2011 4:07 pm Operator: KRW
Sample : 11H0404-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:19 19111 Quant Results File: RA110824.RES

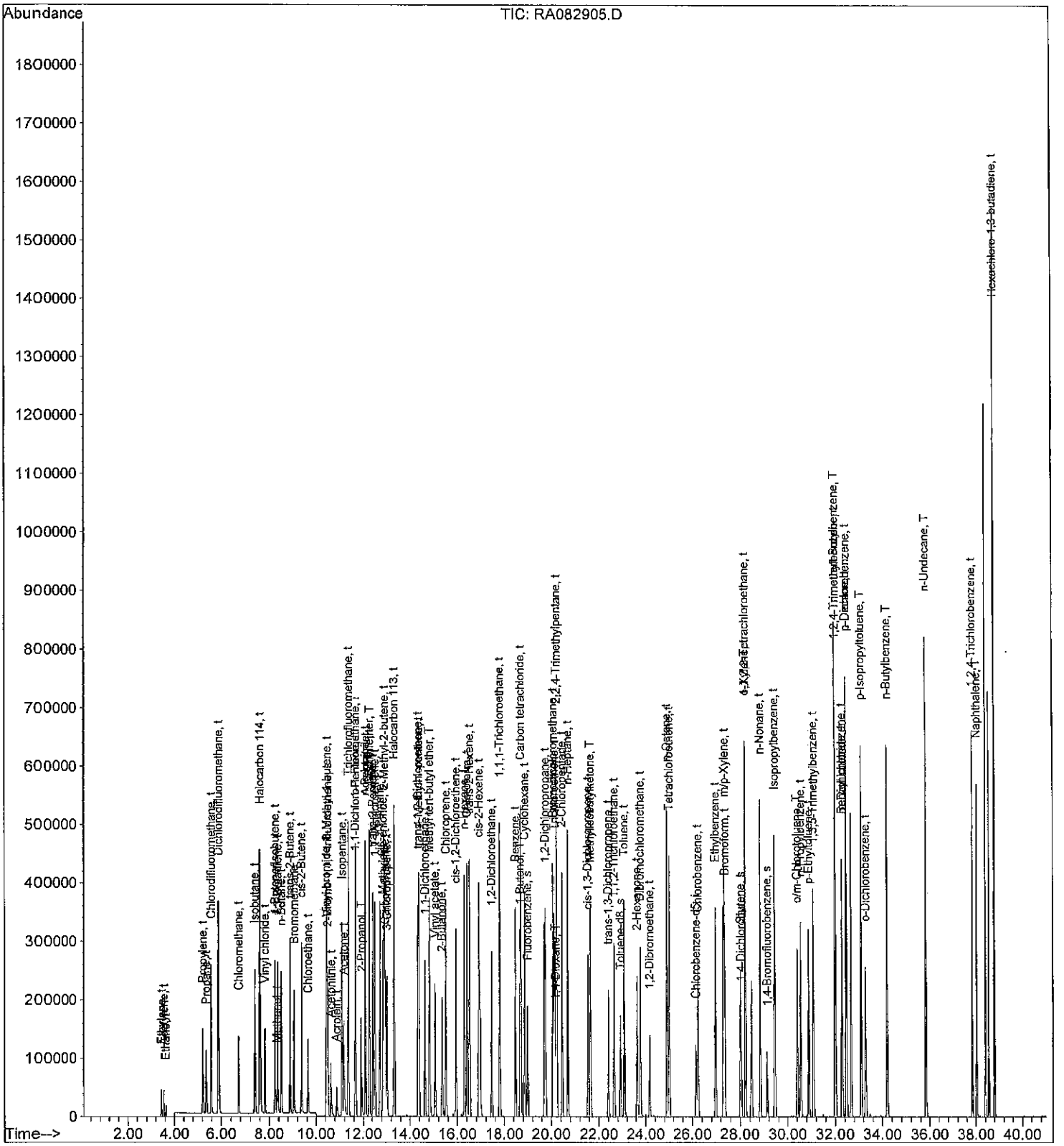
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
149)	p-Ethyltoluene	30.90	105	304974	5.2524	ppbV		S	88
150)	1,3,5-Trimethylbenzene	31.09	105	337250	4.9883	ppbV		S	85
153)	1,2,4-Trimethylbenzene	32.02	105	296740	4.8587	ppbV	#	S	1
154)	tert-Butylbenzene	32.00	119	483748	6.1259	ppbV	#	S	58
156)	Benzyl chloride	32.30	91	264138	7.4408	ppbV		S	99
157)	m-Dichlorobenzene	32.30	146	105590	4.1798	ppbV		S	85
158)	n-Decane	32.47	57	310882	5.0885	ppbV		S	73
159)	p-Dichlorobenzene	32.48	146	106131	4.3800	ppbV		S	85
162)	p-Isopropyltoluene	33.11	119	531303	7.4492	ppbV	#	S	43
163)	o-Dichlorobenzene	33.29	146	135298	4.8703	ppbV		S	93
169)	n-Butylbenzene	34.19	91	565912	8.2200	ppbV	#	S	1
171)	n-Undecane	35.84	57	466964	5.5258	ppbV		S	74
172)	1,2,4-Trichlorobenzene	37.85	180	201786	6.7309	ppbV	#	S	100
173)	Naphthalene	38.04	128	457886	4.9099	ppbV		S	95
174)	Hexachloro-1,3-butadiene	38.81	225	312612	6.9641	ppbV		S	97

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082905.D Vial: 1
Acq On : 29 Aug 2011 4:07 pm Operator: KRW
Sample : 11H0404-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:19 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082906.D Vial: 1
Acq On : 29 Aug 2011 5:08 pm Operator: KRW
Sample : 11H0404-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:23 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	206830	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	77625	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	79797	1.8878 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.50%	
65) Fluorobenzene	19.00	96	175945	1.7491 ppbV	0.01
Spiked Amount 2.000			Recovery	= 87.50%	
113) Toluene-d8	22.92	98	136330	2.0016 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
115) 1,4-Dichlorobutane	28.06	90	11814	2.1494 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.50%	
141) 1,4-Bromofluorobenzene	29.14	95	54379	2.1310 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	30871	4.7055 ppbV	S	95
4) Acetylene	3.54	26	47830	3.9056 ppbV	S	90
5) Ethane	3.63	26	12149	3.3135 ppbV	S	99
7) Propylene	5.21	41	84413	4.5606 ppbV	S	96
8) Chlorodifluoromethane	5.57	51	283164	5.1952 ppbV	S	97
9) Propane	5.37	43	36474	4.2903 ppbV	S	91
10) Dichlorodifluoromethane	5.88	85	497731	4.7135 ppbV	S	98
11) Chloromethane	6.73	50	122610	4.7291 ppbV	S	97
12) Isobutane	7.38	43	233942	4.3586 ppbV	S	93
13) Halocarbon 114	7.59	85	374671	3.9958 ppbV	S	90
15) Vinyl chloride	7.81	62	133642	4.5288 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	165428	4.3761 ppbV	S	75
17) 1,3-Butadiene	8.37	39	117931	4.9897 ppbV	S	96
18) n-Butane	8.52	43	200729	4.2901 ppbV	S	93
19) Methanol	8.33	31	22921m	3.8480 ppbV	S	
20) trans-2-Butene	8.90	41	153990	4.3993 ppbV	S	89
23) Bromomethane	9.06	94	122648	4.5131 ppbV	S	92
24) cis-2-Butene	9.37	41	163817	4.7239 ppbV	S	91
25) Chloroethane	9.64	64	69861	4.4779 ppbV	S	92
26) Vinyl bromide	10.43	106	121331	4.4955 ppbV	S	85
27) 3-Methyl-1-butene	10.46	55	334352	4.9200 ppbV	S	80
29) Acetonitrile	10.64	41	102156m	4.6065 ppbV	S	
30) Acrolein	10.86	56	47684	4.7684 ppbV #	S	42
31) Isopentane	11.09	41	163275	4.6630 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	483510	5.0605 ppbV #	S	71
33) 1-Pentene	11.67	42	191090	5.1119 ppbV #	S	1
34) Acetone	11.16	43	282630m	5.2074 ppbV	S	
35) 2-Propanol	11.92	45	240555	5.8714 ppbV #	S	1
36) Acrylonitrile	12.09	52	92776	5.1195 ppbV #	S	1
37) n-Pentane	12.10	43	248013	4.9763 ppbV	S	85
38) Diethyl ether	12.28	74	66816	5.4063 ppbV #	S	1
39) Isoprene	12.27	67	166856	4.9444 ppbV	S	95
40) trans-2-Pentene	12.43	55	280197	4.9494 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	285345	5.2686 ppbV #	S	10
42) cis-2-Pentene	12.72	55	280593	5.0052 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082906.D Vial: 1
Acq On : 29 Aug 2011 5:08 pm Operator: KRW
Sample : 11H0404-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:23 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Methylene chloride	12.84	49	188927	5.2028 ppbV #	S 1
44)	2-Methyl-2-butene	12.91	55	295574	5.1664 ppbV #	S 1
45)	Carbon Disulfide	12.95	76	340568	4.0983 ppbV	S 95
46)	3-Chloropropene	13.01	41	160044	4.8037 ppbV #	S 1
47)	Halocarbon 113	13.31	151	195671	5.1916 ppbV #	S 100
50)	trans-1,2-Dichloroethene	14.34	61	224832	4.9163 ppbV #	S 1
51)	4-Methyl-1-pentene	14.38	43	213938	5.0394 ppbV	S 83
53)	1,1-Dichloroethane	14.63	63	283709	4.4519 ppbV #	S 100
56)	Methyl tert-butyl ether	14.81	73	411672	4.6027 ppbV #	S 1
58)	Vinyl acetate	15.05	43	389500	4.5086 ppbV #	S 47
62)	2-Butanone	15.34	43	301836	4.5808 ppbV #	S 1
63)	Chloroprene	15.51	53	284405	4.5990 ppbV	S 76
68)	cis-1,2-Dichloroethene	15.94	61	228285	4.6881 ppbV #	S 1
71)	n-Hexane	16.30	57	215353	4.2966 ppbV #	S 1
72)	Chloroform	16.41	83	356066	4.5595 ppbV #	S 1
74)	trans-2-Hexene	16.51	55	286123	4.6132 ppbV #	S 1
77)	cis-2-Hexene	16.91	55	234662	4.3164 ppbV	S 94
79)	1,2-Dichloroethane	17.45	62	313914	5.0373 ppbV	S 88
81)	1,1,1-Trichloroethane	17.81	97	408675	4.7476 ppbV #	S 1
84)	Benzene	18.48	78	332903	5.1398 ppbV	S 74
85)	Carbon tetrachloride	18.71	117	361904	4.8789 ppbV #	S 1
86)	1-Butanol	18.68	56	83694	4.1307 ppbV	S 96
87)	Cyclohexane	18.87	56	219007	4.8637 ppbV #	S 1
92)	1,2-Dichloropropane	19.75	63	135097	5.3049 ppbV #	S 1
93)	Bromodichloromethane	20.08	83	357272	5.6406 ppbV #	S 1
94)	Trichloroethene	20.14	130	136486	5.0605 ppbV #	S 1
95)	1,4-Dioxane	20.18	88	35963	3.4207 ppbV #	S 1
97)	2,2,4-Trimethylpentane	20.22	57	736470	4.8279 ppbV	S 91
98)	2-Chloropentane	20.46	70	172594	4.6204 ppbV #	S 13
100)	n-Heptane	20.70	71	127362	4.9482 ppbV #	S 1
104)	cis-1,3-Dichloropropene	21.54	75	188426	5.7547 ppbV #	S 1
105)	Methylisobutylketone	21.64	43	329883	5.2129 ppbV #	S 1
110)	trans-1,3-Dichloropropene	22.41	75	161597	5.3940 ppbV #	S 1
111)	1,1,2-Trichloroethane	22.65	97	108456	5.4745 ppbV #	S 1
114)	Toluene	23.09	91	328739	5.6169 ppbV #	S 1
116)	2-Hexanone	23.64	43	235568	5.6817 ppbV #	S 23
119)	Dibromochloromethane	23.77	129	201243	5.7082 ppbV #	S 41
122)	1,2-Dibromoethane	24.17	107	140121	5.3222 ppbV #	S 1
125)	n-Octane	24.92	43	322907	5.5312 ppbV #	S 49
126)	Tetrachloroethene	25.02	164	119949	5.5358 ppbV	S 96
128)	Chlorobenzene	26.23	112	170484	5.5652 ppbV #	S 1
129)	Ethylbenzene	26.98	91	350875	5.9365 ppbV	S 97
130)	m/p-Xylene	27.35	91	609553m	11.8830 ppbV	S
131)	Bromoform	27.37	173	122836	5.7411 ppbV #	S 1
134)	Styrene	28.02	104	144269	5.9512 ppbV #	S 22
135)	1,1,2,2-Tetrachloroethane	28.22	83	179385	4.7951 ppbV	S 93
136)	o-Xylene	28.22	91	321579	6.0982 ppbV	S 88
140)	n-Nonane	28.84	43	295507	5.9769 ppbV #	S 71
142)	Isopropylbenzene	29.46	105	451825	5.5419 ppbV	S 100
145)	o/m-Chlorotoluene	30.41	91	237244	6.5301 ppbV #	S 1
147)	n-Propylbenzene	30.56	91	384207	5.0077 ppbV #	S 34

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082906.D Vial: 1
Acq On : 29 Aug 2011 5:08 pm Operator: KRW
Sample : 11H0404-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:23 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

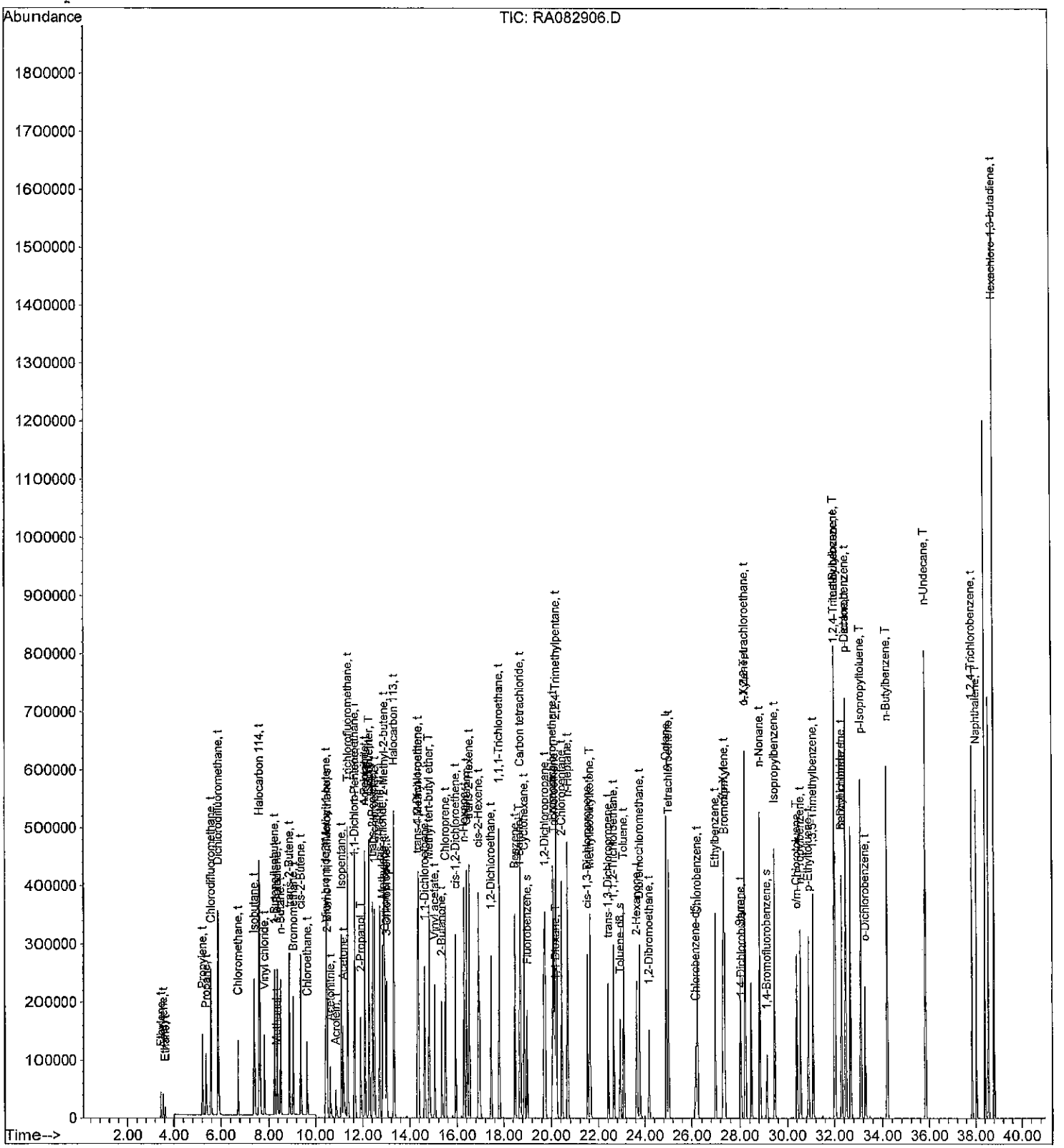
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
149) p-Ethyltoluene	30.90	105	296497	5.2254 ppbV	S 89
150) 1,3,5-Trimethylbenzene	31.09	105	327968	4.9641 ppbV	S 86
153) 1,2,4-Trimethylbenzene	32.02	105	284945	4.7743 ppbV #	S 1
154) tert-Butylbenzene	32.00	119	475359	6.1599 ppbV #	S 59
156) Benzyl chloride	32.30	91	240264	6.9260 ppbV	S 99
157) m-Dichlorobenzene	32.30	146	102312	4.1444 ppbV	S 85
158) n-Decane	32.47	57	295282	4.9457 ppbV	S 72
159) p-Dichlorobenzene	32.48	146	100027	4.2243 ppbV	S 83
162) p-Isopropyltoluene	33.11	119	491234	7.0479 ppbV #	S 43
163) o-Dichlorobenzene	33.29	146	122309	4.5054 ppbV	S 92
169) n-Butylbenzene	34.19	91	545005	8.1008 ppbV #	S 1
171) n-Undecane	35.84	57	457614	5.5413 ppbV	S 73
172) 1,2,4-Trichlorobenzene	37.85	180	197178	6.7305 ppbV #	S 100
173) Naphthalene	38.03	128	447670	4.9122 ppbV	S 95
174) Hexachloro-1,3-butadiene	38.81	225	313258	7.1411 ppbV	S 97

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082906.D Vial: 1
Acq On : 29 Aug 2011 5:08 pm Operator: KRW
Sample : 11H0404-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:23 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082907.D Vial: 1
Acq On : 29 Aug 2011 6:08 pm Operator: KRW
Sample : 11H0404-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:25 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 9-30-11

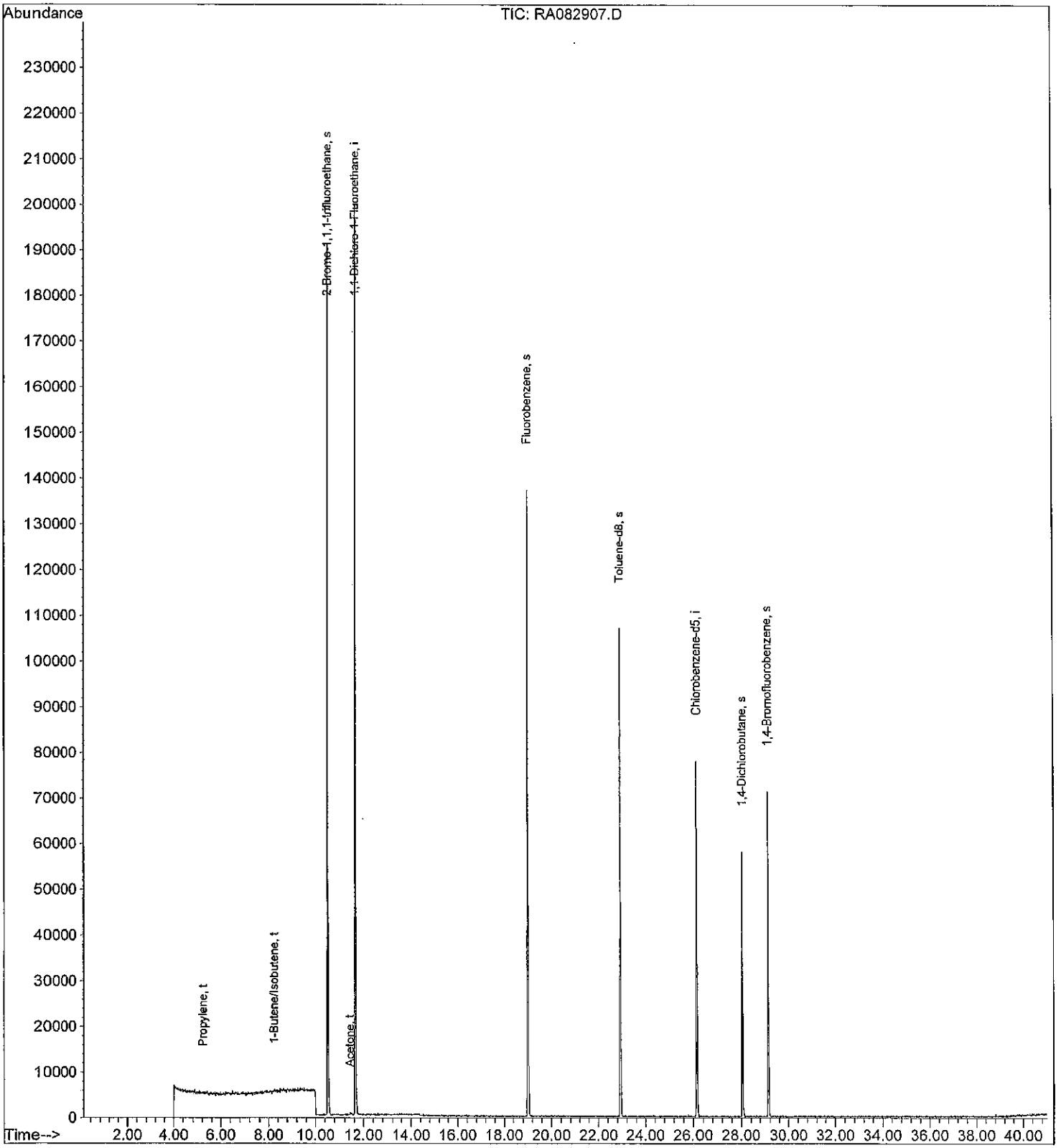
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	197991	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	46917	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	74760	1.8476 ppbV	0.03
Spiked Amount 2.000			Recovery	= 92.50%	
65) Fluorobenzene	19.01	96	124355	1.2915 ppbV	0.02
Spiked Amount 2.000			Recovery	= 64.50%	
113) Toluene-d8	22.92	98	83717	2.0336 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	
115) 1,4-Dichlorobutane	28.05	90	7375	2.2200 ppbV	0.00
Spiked Amount 2.000			Recovery	= 111.00%	
141) 1,4-Bromofluorobenzene	29.13	95	32818	2.1278 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	

Target Compounds					Qvalue
7) Propylene	5.22	41	139m	0.0078 ppbV	
16) 1-Butene/Isobutene	8.23	41	341	0.0094 ppbV #	14
34) Acetone	11.42	43	992m	0.0191 ppbV	

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082907.D Vial: 1
Acq On : 29 Aug 2011 6:08 pm Operator: KRW
Sample : 11H0404-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:25 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082916.D Vial: 1
Acq On : 30 Aug 2011 3:07 am Operator: KRW
Sample : AUH0042-01RE1,,,,;TCESL Inst : GCMS-R1
Misc : 43.3201,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 12:01 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration Rerun for CDFM
DataAcq Meth : RA110824

AAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.67	81	171587	2.0000 ppbV	0.04
82) Chlorobenzene-d5	26.16	117	36196	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.52	83	55061	1.5701 ppbV	0.04
Spiked Amount 2.000			Recovery	= 78.50%	
65) Fluorobenzene	19.01	96	90606	1.0858 ppbV	0.02
Spiked Amount 2.000			Recovery	= 54.50%	
113) Toluene-d8	22.93	98	63923	2.0127 ppbV	0.01
Spiked Amount 2.000			Recovery	= 100.50%	
115) 1,4-Dichlorobutane	28.06	90	5005	1.9528 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
141) 1,4-Bromofluorobenzene	29.14	95	24237	2.0369 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.00%	

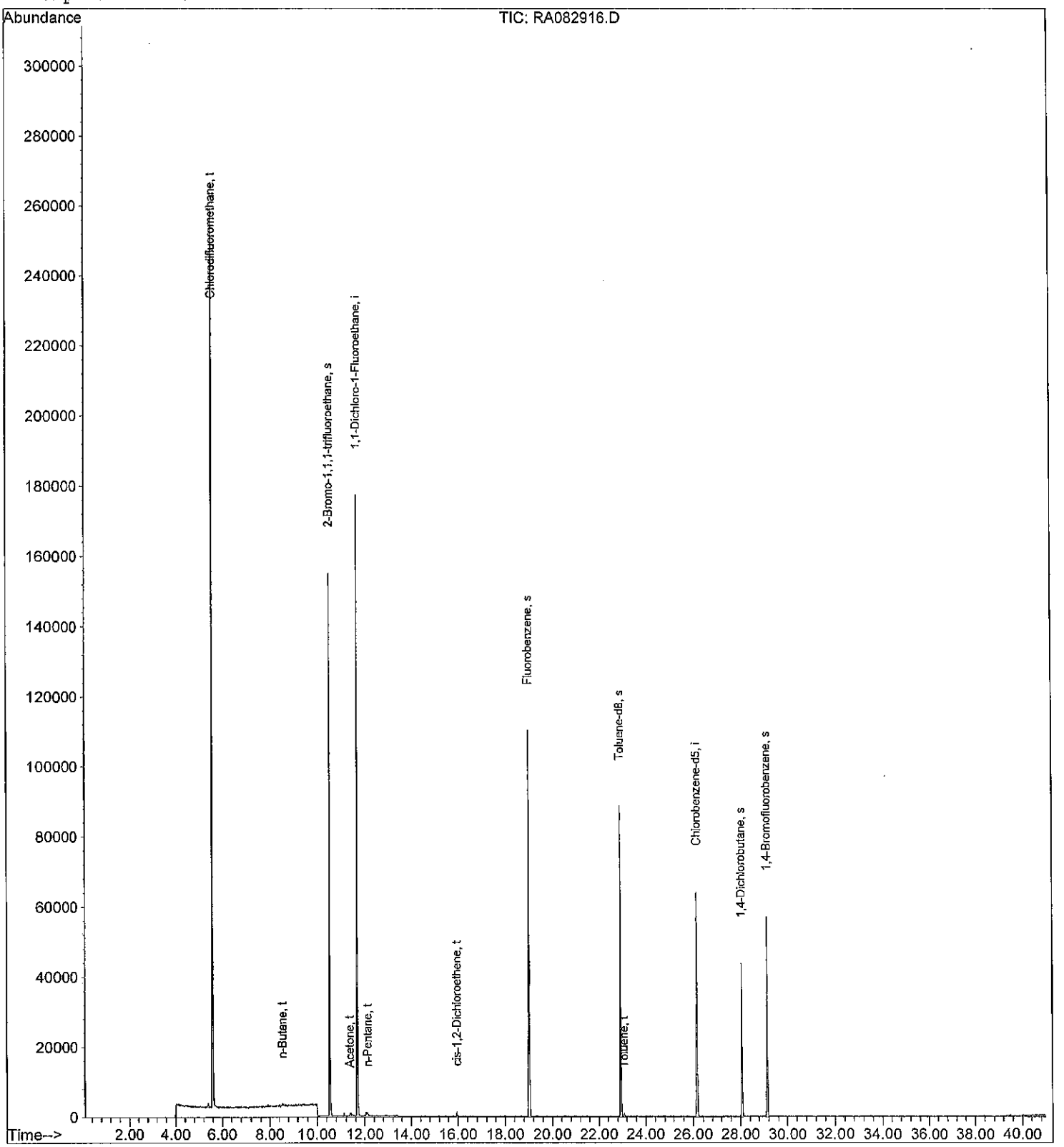
Target Compounds					Qvalue
8) Chlorodifluoromethane	5.57	51	282517	6.2480 ppbV	S 92
18) n-Butane	8.55	43	317	0.0082 ppbV #	S 53
34) Acetone	11.36	43	3108m	0.0690 ppbV	S
37) n-Pentane	12.12	43	413	0.0100 ppbV #	S 59
68) cis-1,2-Dichloroethene	15.95	61	1106	0.0274 ppbV #	S 1
114) Toluene	23.09	91	1050	0.0385 ppbV #	S 1

6.24 ppb AAH 4-14-11

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082916.D Vial: 1
Acq On : 30 Aug 2011 3:07 am Operator: KRW
Sample : AUH0042-01RE1,,,,;TCESL Inst : GCMS-R1
Misc : 43.3201,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 12:01 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



♦ **Data Package Contents** **AUH0043**

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)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Analytical Report

Work Order: AUH0043

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

Wednesday, August 31, 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.

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:	AUH0043 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 20:50

August 31, 2011

LABORATORY REPORT

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

Work Order:	AUH0043
Project Name:	Bannister Complex
Project Number:	[none]
Date Received:	08/03/11

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, 2 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.

Approved By:

Dane Wacasey
Project Manager

NELAP Certification # T104704217-10-6

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 20:50

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION	MATRIX	CONTAINER TYPE
B1SB-U17-VOCS	AUH0043-01	07/29/11 12:43	Air	Passivated Canister
B1SB-U19-SS-VOCS	AUH0043-02	07/29/11 18:34	Air	Passivated Canister
B1SB-K8-VOCS	AUH0043-03	07/30/11 13:12	Air	Passivated Canister
B2B-OB27-SS-VOCS	AUH0043-04	07/29/11 16:08	Air	Passivated Canister
AMBIENT WEST VOCS	AUH0043-05	07/30/11 16:11	Air	Passivated Canister
B1SB-P25-SS-VOCS	AUH0043-06	07/29/11 15:43	Air	Passivated Canister
B1SB-J19-VOCS	AUH0043-07	07/30/11 17:03	Air	Passivated Canister
B1SB-W8-SS-VOCS	AUH0043-08	07/30/11 13:12	Air	Passivated Canister

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50

ANALYTICAL REPORT

Sample ID: AUH0043-01 (B1SB-U17-VOCS - Air) **Sampled: 07/29/11 12:43**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**34.8**		ug/m³ Air	0.484	5.53	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**2.82**	J	ug/m³ Air	0.905	7.74	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Chloromethane	**1.13**	J	ug/m³ Air	0.233	3.23	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	4.02	10.9	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Vinyl chloride	**1.23**	J	ug/m³ Air	0.580	4.00	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.329	3.46	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Butane	**2.07**	J	ug/m³ Air	0.340	3.72	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.963	6.08	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.512	4.13	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Acetonitrile	**0.275**	J	ug/m³ Air	0.169	2.63	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**1.84**	J	ug/m³ Air	0.624	8.79	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Acetone	**32.4**		ug/m³ Air	0.275	3.72	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.435	3.40	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
n-Pentane	**1.18**	J	ug/m³ Air	0.309	4.62	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.377	4.74	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.372	6.20	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Methylene chloride	**2.47**	J	ug/m³ Air	0.497	5.44	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	1.09	4.87	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.747	4.90	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.58	12.0	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.797	6.20	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.627	6.33	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.618	5.64	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Vinyl acetate	**2.07**	J	ug/m³ Air	1.08	5.51	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**2.72**	J	ug/m³ Air	0.614	4.62	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	**30.8**		ug/m³ Air	0.562	6.20	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.604	5.52	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.630	7.64	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.440	6.33	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.828	8.54	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Benzene	ND		ug/m³ Air	0.522	5.00	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	2.68	9.85	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.668	5.39	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.575	7.23	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	2.46	10.5	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Trichloroethene	**14.5**		ug/m³ Air	0.568	8.41	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.526	6.41	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.749	7.10	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	1.22	6.41	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	1.07	7.10	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

ANALYTICAL REPORT

Sample ID: AUH0043-01 (B1SB-U17-VOCS - Air) - cont. **Sampled: 07/29/11 12:43**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.862	8.54	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Toluene	**2.41**	J	ug/m³ Air	0.454	5.90	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.63	6.41	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	3.26	13.3	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	1.20	12.0	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.749	7.31	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.886	10.6	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.522	7.20	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Ethylbenzene	ND		ug/m³ Air	0.951	6.79	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	ND		ug/m³ Air	2.09	13.6	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	2.35	16.2	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.777	6.67	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	3.48	10.7	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	1.05	6.79	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	1.17	8.21	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.992	7.69	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.55	7.69	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	1.27	7.69	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	1.42	7.69	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	1.19	8.10	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	2.47	9.41	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	1.56	9.11	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	2.01	9.41	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	3.13	9.41	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	1.26	10.0	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	1.35	11.6	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.72	8.20	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	2.59	16.7	7.82	08/27/11 13:22	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*89 %*						08/27/11 13:22	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*66 %*						08/27/11 13:22	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*99 %*						08/27/11 13:22	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*101 %*						08/27/11 13:22	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*105 %*						08/27/11 13:22	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50

ANALYTICAL REPORT

Sample ID: AUH0043-02 (B1SB-U19-SS-VOCS - Air) **Sampled: 07/29/11 18:34**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**36.4**		ug/m³ Air	0.393	4.49	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**2.89**	J	ug/m³ Air	0.735	6.28	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Chloromethane	**0.390**	J	ug/m³ Air	0.189	2.62	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	3.26	8.88	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.471	3.25	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.267	2.81	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Butane	**0.332**	J	ug/m³ Air	0.276	3.02	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.782	4.93	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.416	3.35	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Acetonitrile	ND		ug/m³ Air	0.138	2.13	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**1.80**	J	ug/m³ Air	0.507	7.14	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Acetone	**11.6**		ug/m³ Air	0.223	3.02	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.353	2.76	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
n-Pentane	**0.684**	J	ug/m³ Air	0.251	3.75	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.306	3.85	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,1-Dichloroethene	**0.511**	J	ug/m³ Air	0.302	5.04	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Methylene chloride	**0.713**	J	ug/m³ Air	0.404	4.41	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Carbon disulfide	**4.58**		ug/m³ Air	0.888	3.96	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.606	3.98	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.28	9.74	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	**70.7**		ug/m³ Air	0.647	5.04	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.509	5.14	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.502	4.58	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Vinyl acetate	**1.30**	J	ug/m³ Air	0.877	4.47	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**1.98**	J	ug/m³ Air	0.498	3.75	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	**71.3**		ug/m³ Air	0.456	5.04	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.490	4.48	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Chloroform	**3.16**	J	ug/m³ Air	0.512	6.20	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.357	5.14	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.672	6.93	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Benzene	**0.645**	J	ug/m³ Air	0.424	4.06	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	2.17	7.99	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.542	4.37	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.467	5.87	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	2.00	8.51	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Trichloroethene	**1100**	RA, H2	ug/m³ Air	2.30	34.1	31.8	08/30/11 16:51	GCMSR1	KRW	11H0421
Heptane	ND		ug/m³ Air	0.427	5.21	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.608	5.77	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.989	5.20	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.868	5.77	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

ANALYTICAL REPORT

Sample ID: AUH0043-02 (B1SB-U19-SS-VOCS - Air) - cont. **Sampled: 07/29/11 18:34**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.700	6.93	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Toluene	**0.376**	J	ug/m³ Air	0.369	4.79	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.33	5.20	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.65	10.8	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.976	9.76	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.608	5.94	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Tetrachloroethene	**1.28**	J	ug/m³ Air	0.719	8.62	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.424	5.85	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Ethylbenzene	ND		ug/m³ Air	0.772	5.52	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	ND		ug/m³ Air	1.69	11.0	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.91	13.1	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.630	5.41	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.82	8.72	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	0.849	5.52	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.950	6.66	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.806	6.25	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.26	6.25	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	1.03	6.25	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	1.15	6.25	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.964	6.58	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	2.00	7.64	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	1.26	7.39	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.63	7.64	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.54	7.64	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	1.02	8.12	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	1.09	9.43	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.40	6.66	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	2.10	13.5	6.35	08/27/11 14:23	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*89 %*						08/27/11 14:23	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*80 %*	*RA, H2*					08/30/11 16:51	GCMSR1	KRW	11H0421
Surr: Fluorobenzene (39-111%)	*65 %*						08/27/11 14:23	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*51 %*	*RA, H2*					08/30/11 16:51	GCMSR1	KRW	11H0421
Surr: Toluene-d8 (79-118%)	*95 %*						08/27/11 14:23	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*95 %*	*RA, H2*					08/30/11 16:51	GCMSR1	KRW	11H0421
Surr: 1,4-Dichlorobutane (80-130%)	*92 %*						08/27/11 14:23	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*95 %*	*RA, H2*					08/30/11 16:51	GCMSR1	KRW	11H0421
Surr: 4-Bromofluorobenzene (81-131%)	*101 %*						08/27/11 14:23	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*104 %*	*RA, H2*					08/30/11 16:51	GCMSR1	KRW	11H0421

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

ANALYTICAL REPORT

Sample ID: AUH0043-03 (B1SB-K8-VOCS - Air) **Sampled: 07/30/11 13:12**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**18.0**		ug/m³ Air	0.336	3.85	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**2.53**	J	ug/m³ Air	0.629	5.38	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Chloromethane	**1.06**	J	ug/m³ Air	0.162	2.25	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.79	7.60	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.403	2.78	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.229	2.41	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Butane	**1.30**	J	ug/m³ Air	0.237	2.58	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.669	4.22	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.356	2.87	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Acetonitrile	**0.255**	J	ug/m³ Air	0.118	1.83	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**1.95**	J	ug/m³ Air	0.434	6.11	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Acetone	**39.6**		ug/m³ Air	0.191	2.58	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.302	2.36	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
n-Pentane	**1.42**	J	ug/m³ Air	0.215	3.21	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.262	3.30	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.259	4.31	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Methylene chloride	**0.465**	J	ug/m³ Air	0.346	3.78	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.760	3.39	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.519	3.40	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.10	8.33	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.554	4.31	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.436	4.40	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.429	3.92	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Vinyl acetate	**3.14**	J	ug/m³ Air	0.750	3.83	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**3.97**		ug/m³ Air	0.427	3.21	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.390	4.31	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.420	3.83	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.438	5.31	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.306	4.40	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.575	5.93	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Benzene	**0.426**	J	ug/m³ Air	0.363	3.47	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	1.86	6.84	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.464	3.74	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.399	5.02	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.71	7.29	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Trichloroethene	**1.07**	J	ug/m³ Air	0.394	5.84	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.365	4.46	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.521	4.94	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.846	4.45	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.743	4.94	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUH0043-03 (B1SB-K8-VOCS - Air) - cont.								**Sampled: 07/30/11 13:12**		
EPA TO15 - Volatile Organic Compounds by GC/MS - cont.										
1,1,2-Trichloroethane	ND		ug/m³ Air	0.599	5.93	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Toluene	**2.01**	J	ug/m³ Air	0.316	4.10	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.14	4.45	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.26	9.26	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.835	8.35	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.521	5.08	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.616	7.37	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.363	5.01	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Ethylbenzene	**0.694**	J	ug/m³ Air	0.661	4.72	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	**1.89**	J	ug/m³ Air	1.45	9.44	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.64	11.2	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Styrene	**2.92**	J	ug/m³ Air	0.540	4.63	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.41	7.46	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	0.727	4.72	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
n-Nonane	**1.01**	J	ug/m³ Air	0.813	5.70	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.690	5.35	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.08	5.35	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.879	5.35	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.986	5.35	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.825	5.63	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.71	6.54	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
n-Decane	**1.59**	J	ug/m³ Air	1.08	6.33	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.40	6.54	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.18	6.54	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
n-Undecane	**1.00**	J	ug/m³ Air	0.872	6.95	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.936	8.07	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Naphthalene	**1.33**	J	ug/m³ Air	1.20	5.70	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	1.80	11.6	5.44	08/27/11 17:26	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*85 %*						08/27/11 17:26	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*63 %*						08/27/11 17:26	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*98 %*						08/27/11 17:26	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*108 %*						08/27/11 17:26	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*111 %*						08/27/11 17:26	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

ANALYTICAL REPORT

Sample ID: AUH0043-04 (B2B-OB27-SS-VOCS - Air) **Sampled: 07/29/11 16:08**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**4.30**	J	ug/m³ Air	0.437	4.99	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**2.92**	J	ug/m³ Air	0.817	6.98	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Chloromethane	ND		ug/m³ Air	0.210	2.92	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	3.63	9.87	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.523	3.61	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.297	3.12	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Butane	ND		ug/m³ Air	0.307	3.36	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.869	5.48	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.462	3.73	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Acetonitrile	ND		ug/m³ Air	0.153	2.37	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**2.38**	J	ug/m³ Air	0.563	7.93	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Acetone	**4.15**		ug/m³ Air	0.248	3.35	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.392	3.06	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
n-Pentane	**0.706**	J	ug/m³ Air	0.279	4.17	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.340	4.28	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.336	5.60	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Methylene chloride	ND		ug/m³ Air	0.449	4.91	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.987	4.40	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.674	4.42	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.42	10.8	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.719	5.60	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.566	5.72	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.558	5.09	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Vinyl acetate	ND		ug/m³ Air	0.975	4.97	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**0.591**	J	ug/m³ Air	0.554	4.16	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.507	5.60	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.545	4.98	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Chloroform	**1.15**	J	ug/m³ Air	0.569	6.90	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.397	5.72	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.747	7.71	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Benzene	ND		ug/m³ Air	0.471	4.51	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	2.42	8.88	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.603	4.86	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.519	6.53	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	2.22	9.46	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Trichloroethene	ND		ug/m³ Air	0.512	7.59	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.475	5.79	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.676	6.41	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	1.10	5.79	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.965	6.41	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUH0043-04 (B2B-OB27-SS-VOCS - Air) - cont.							**Sampled: 07/29/11 16:08**			
EPA TO15 - Volatile Organic Compounds by GC/MS - cont.										
1,1,2-Trichloroethane	ND		ug/m³ Air	0.778	7.71	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Toluene	ND		ug/m³ Air	0.410	5.32	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.48	5.79	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.94	12.0	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	1.09	10.9	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.676	6.60	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.800	9.58	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.471	6.50	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Ethylbenzene	ND		ug/m³ Air	0.858	6.13	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	ND		ug/m³ Air	1.88	12.3	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	2.12	14.6	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.701	6.02	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	3.14	9.69	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	0.944	6.13	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	1.06	7.41	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.896	6.94	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.40	6.94	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	1.14	6.94	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	1.28	6.94	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	1.07	7.31	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	2.22	8.49	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	1.41	8.22	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.81	8.49	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.83	8.49	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	1.13	9.03	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	1.22	10.5	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.55	7.40	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	2.33	15.1	7.06	08/27/11 15:24	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*84 %*						08/27/11 15:24	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*58 %*						08/27/11 15:24	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*98 %*						08/27/11 15:24	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*106 %*						08/27/11 15:24	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*109 %*						08/27/11 15:24	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

ANALYTICAL REPORT

Sample ID: AUH0043-05 (AMBIENT WEST VOCS - Air) **Sampled: 07/30/11 16:11**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**3.85**		ug/m³ Air	0.318	3.63	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**2.53**	J	ug/m³ Air	0.594	5.08	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Chloromethane	**1.45**	J	ug/m³ Air	0.153	2.12	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.64	7.18	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.380	2.62	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.216	2.27	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Butane	**0.504**	J	ug/m³ Air	0.223	2.44	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.632	3.99	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.336	2.71	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Acetonitrile	**0.277**	J	ug/m³ Air	0.111	1.72	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**1.43**	J	ug/m³ Air	0.409	5.77	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Acetone	**29.2**		ug/m³ Air	0.180	2.44	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.285	2.23	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
n-Pentane	**0.407**	J	ug/m³ Air	0.203	3.03	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.247	3.11	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.244	4.07	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Methylene chloride	ND		ug/m³ Air	0.326	3.57	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.718	3.20	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.490	3.21	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.03	7.87	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.523	4.07	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.411	4.15	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.405	3.70	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Vinyl acetate	**1.38**	J	ug/m³ Air	0.708	3.61	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**3.17**		ug/m³ Air	0.403	3.03	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.368	4.07	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.396	3.62	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.413	5.01	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.289	4.15	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.543	5.60	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Benzene	ND		ug/m³ Air	0.343	3.28	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	1.76	6.46	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.438	3.53	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.377	4.74	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.61	6.88	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Trichloroethene	ND		ug/m³ Air	0.372	5.52	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.345	4.21	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.491	4.66	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.799	4.20	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.701	4.66	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50

ANALYTICAL REPORT

Sample ID: AUH0043-05 (AMBIENT WEST VOCS - Air) - cont. **Sampled: 07/30/11 16:11**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.566	5.60	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Toluene	**0.735**	J	ug/m³ Air	0.298	3.87	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.07	4.20	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.14	8.74	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.789	7.89	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.492	4.80	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.581	6.96	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.343	4.73	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Ethylbenzene	ND		ug/m³ Air	0.624	4.46	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	ND		ug/m³ Air	1.37	8.91	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.54	10.6	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.509	4.37	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.28	7.05	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	0.686	4.46	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.767	5.38	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.651	5.05	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.02	5.05	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.830	5.05	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.931	5.05	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.778	5.31	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.62	6.17	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	1.02	5.97	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.32	6.17	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.06	6.17	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	0.823	6.56	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.884	7.62	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.13	5.38	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	1.70	10.9	5.13	08/27/11 18:27	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*85 %*						08/27/11 18:27	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*60 %*						08/27/11 18:27	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*99 %*						08/27/11 18:27	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*104 %*						08/27/11 18:27	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*106 %*						08/27/11 18:27	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUH0043-06 (B1SB-P25-SS-VOCS - Air)							**Sampled: 07/29/11 15:43**			
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	**2.23**	J	ug/m³ Air	0.291	3.33	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**2.34**	J	ug/m³ Air	0.545	4.66	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Chloromethane	**0.892**	J	ug/m³ Air	0.140	1.94	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.42	6.58	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.349	2.41	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.198	2.08	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Butane	ND		ug/m³ Air	0.205	2.24	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.579	3.66	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.308	2.48	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Acetonitrile	ND		ug/m³ Air	0.102	1.58	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**1.46**	J	ug/m³ Air	0.376	5.29	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Acetone	**6.40**		ug/m³ Air	0.165	2.24	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.261	2.04	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
n-Pentane	ND		ug/m³ Air	0.186	2.78	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.227	2.85	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.224	3.73	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Methylene chloride	ND		ug/m³ Air	0.299	3.27	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.658	2.93	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.449	2.95	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.949	7.21	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.480	3.73	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.377	3.81	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.372	3.39	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Vinyl acetate	ND		ug/m³ Air	0.650	3.31	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**0.718**	J	ug/m³ Air	0.369	2.78	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.338	3.73	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.363	3.32	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.379	4.60	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.265	3.81	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.498	5.14	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Benzene	ND		ug/m³ Air	0.314	3.01	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	1.61	5.92	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.402	3.24	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.346	4.35	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.48	6.31	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Trichloroethene	**0.526**	J	ug/m³ Air	0.341	5.06	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.316	3.86	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.451	4.27	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.733	3.86	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.643	4.27	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUH0043-06 (B1SB-P25-SS-VOCS - Air) - cont.							**Sampled: 07/29/11 15:43**			
EPA TO15 - Volatile Organic Compounds by GC/MS - cont.										
1,1,2-Trichloroethane	ND		ug/m³ Air	0.519	5.14	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Toluene	ND		ug/m³ Air	0.273	3.55	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	0.983	3.86	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	1.96	8.02	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.723	7.23	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.451	4.40	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.533	6.38	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.314	4.33	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Ethylbenzene	ND		ug/m³ Air	0.572	4.09	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	ND		ug/m³ Air	1.25	8.17	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.42	9.73	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.467	4.01	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.09	6.46	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	0.629	4.09	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.704	4.94	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.597	4.63	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	0.932	4.63	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.761	4.63	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.854	4.63	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.714	4.87	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.48	5.66	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	0.937	5.48	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.21	5.66	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	1.88	5.66	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	0.755	6.02	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.810	6.99	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.04	4.93	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	1.56	10.0	4.71	08/27/11 19:26	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*86 %*						08/27/11 19:26	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*65 %*						08/27/11 19:26	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*99 %*						08/27/11 19:26	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*99 %*						08/27/11 19:26	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*108 %*						08/27/11 19:26	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

ANALYTICAL REPORT

Sample ID: AUH0043-07 (B1SB-J19-VOCS - Air) **Sampled: 07/30/11 17:03**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**90.3**		ug/m³ Air	0.377	4.31	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**2.69**	J	ug/m³ Air	0.705	6.02	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Chloromethane	**1.31**	J	ug/m³ Air	0.181	2.52	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	3.13	8.52	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Vinyl chloride	**0.565**	J	ug/m³ Air	0.452	3.11	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.256	2.69	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Butane	**3.32**		ug/m³ Air	0.265	2.90	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.750	4.73	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.399	3.21	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Acetonitrile	**0.250**	J	ug/m³ Air	0.132	2.05	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**2.00**	J	ug/m³ Air	0.486	6.84	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Acetone	**35.0**		ug/m³ Air	0.214	2.89	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.338	2.64	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
n-Pentane	**1.78**	J	ug/m³ Air	0.241	3.59	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.294	3.69	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.290	4.83	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Methylene chloride	ND		ug/m³ Air	0.387	4.23	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.852	3.79	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.581	3.81	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.23	9.34	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.621	4.83	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.488	4.93	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.481	4.39	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Vinyl acetate	ND		ug/m³ Air	0.841	4.29	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**2.76**	J	ug/m³ Air	0.478	3.59	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	**1.34**	J	ug/m³ Air	0.437	4.83	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.470	4.29	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.491	5.95	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.343	4.93	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.645	6.65	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Benzene	ND		ug/m³ Air	0.407	3.89	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	2.08	7.66	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.520	4.19	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.448	5.63	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.91	8.16	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Trichloroethene	**0.838**	J	ug/m³ Air	0.442	6.55	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.409	4.99	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.583	5.53	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.948	4.99	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.832	5.53	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

ANALYTICAL REPORT

Sample ID: AUH0043-07 (B1SB-J19-VOCS - Air) - cont. **Sampled: 07/30/11 17:03**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.671	6.65	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Toluene	**2.11**	J	ug/m³ Air	0.353	4.59	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.27	4.99	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.54	10.4	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.936	9.36	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.583	5.69	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.690	8.26	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.407	5.61	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Ethylbenzene	ND		ug/m³ Air	0.740	5.29	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	ND		ug/m³ Air	1.62	10.6	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.83	12.6	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.605	5.19	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.71	8.36	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	0.815	5.29	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.911	6.39	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.772	5.99	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.21	5.99	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.985	5.99	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	1.10	5.99	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.924	6.31	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.92	7.32	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	1.21	7.09	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.56	7.32	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.44	7.32	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	0.977	7.79	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	1.05	9.04	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.34	6.39	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	2.01	13.0	6.09	08/27/11 20:27	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*84 %*						08/27/11 20:27	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*59 %*						08/27/11 20:27	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*99 %*						08/27/11 20:27	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*106 %*						08/27/11 20:27	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*108 %*						08/27/11 20:27	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

ANALYTICAL REPORT

Sample ID: AUH0043-08 (B1SB-W8-SS-VOCS - Air) **Sampled: 07/30/11 13:12**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**13.5**		ug/m³ Air	0.308	3.52	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**2.40**	J	ug/m³ Air	0.575	4.92	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Chloromethane	**0.407**	J	ug/m³ Air	0.148	2.05	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.56	6.95	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.369	2.54	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.209	2.20	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Butane	**30.2**		ug/m³ Air	0.216	2.36	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.612	3.86	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.325	2.62	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Acetonitrile	ND		ug/m³ Air	0.108	1.67	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**1.84**	J	ug/m³ Air	0.397	5.59	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Acetone	**8.78**		ug/m³ Air	0.175	2.36	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.276	2.16	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
n-Pentane	**10.4**		ug/m³ Air	0.197	2.93	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.240	3.02	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.237	3.94	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Methylene chloride	ND		ug/m³ Air	0.316	3.45	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Carbon disulfide	**1.70**	J	ug/m³ Air	0.695	3.10	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.475	3.11	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.00	7.62	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.507	3.94	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.399	4.03	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.393	3.59	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Vinyl acetate	**0.839**	J	ug/m³ Air	0.686	3.50	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**1.16**	J	ug/m³ Air	0.390	2.93	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.357	3.94	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Hexane	**1.28**	J	ug/m³ Air	0.384	3.51	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Chloroform	**0.405**	J	ug/m³ Air	0.401	4.86	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.280	4.03	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.526	5.43	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Benzene	**1.86**	J	ug/m³ Air	0.332	3.18	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	1.70	6.26	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Cyclohexane	**1.71**	J	ug/m³ Air	0.425	3.42	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.365	4.60	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.56	6.66	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Trichloroethene	**29.2**		ug/m³ Air	0.361	5.34	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.334	4.08	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.476	4.51	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.774	4.07	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.679	4.51	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

ANALYTICAL REPORT

Sample ID: AUH0043-08 (B1SB-W8-SS-VOCS - Air) - cont. **Sampled: 07/30/11 13:12**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.548	5.43	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Toluene	**3.72**	J	ug/m³ Air	0.289	3.75	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.04	4.07	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.07	8.47	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.764	7.64	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.476	4.65	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Tetrachloroethene	**3.35**	J	ug/m³ Air	0.563	6.75	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.332	4.58	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Ethylbenzene	ND		ug/m³ Air	0.605	4.32	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	**2.30**	J	ug/m³ Air	1.33	8.64	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.50	10.3	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.494	4.24	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.21	6.83	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
o-Xylene	**2.56**	J	ug/m³ Air	0.665	4.32	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
n-Nonane	**2.96**	J	ug/m³ Air	0.743	5.22	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Isopropylbenzene	**0.736**	J	ug/m³ Air	0.631	4.89	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	0.985	4.89	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	**4.88**	J	ug/m³ Air	0.804	4.89	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	**3.41**	J	ug/m³ Air	0.902	4.89	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.754	5.15	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.57	5.98	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	0.990	5.79	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.28	5.98	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	1.99	5.98	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	0.798	6.36	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.856	7.38	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.09	5.21	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	1.64	10.6	4.97	08/27/11 21:26	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*84 %*						08/27/11 21:26	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*68 %*						08/27/11 21:26	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*94 %*						08/27/11 21:26	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*105 %*						08/27/11 21:26	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*117 %*						08/27/11 21:26	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0392-BLKI (Blank - Air)										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0.124	1.41	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	ND		ug/m³ Air	0.231	1.98	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Chloromethane	ND		ug/m³ Air	0.0595	0.826	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	1.03	2.80	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.148	1.02	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.0841	0.885	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Butane	ND		ug/m³ Air	0.0870	0.951	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.246	1.55	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.131	1.06	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Acetonitrile	ND		ug/m³ Air	0.0433	0.672	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Trichlorofluoromethane	ND		ug/m³ Air	0.160	2.25	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Acetone	ND		ug/m³ Air	0.0703	0.950	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.111	0.868	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
n-Pentane	ND		ug/m³ Air	0.0791	1.18	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.0964	1.21	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.0952	1.59	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Methylene chloride	ND		ug/m³ Air	0.127	1.39	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.280	1.25	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.191	1.25	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.403	3.07	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.204	1.59	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.160	1.62	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.158	1.44	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Vinyl acetate	ND		ug/m³ Air	0.276	1.41	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
2-Butanone (MEK)	ND		ug/m³ Air	0.157	1.18	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.144	1.59	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.154	1.41	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.161	1.95	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.113	1.62	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.212	2.18	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Benzene	ND		ug/m³ Air	0.134	1.28	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	0.684	2.52	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.171	1.38	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.147	1.85	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	0.629	2.68	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Trichloroethene	ND		ug/m³ Air	0.145	2.15	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0392-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Heptane	ND		ug/m³ Air	0.134	1.64	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.192	1.82	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.311	1.64	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.273	1.82	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,1,2-Trichloroethane	ND		ug/m³ Air	0.220	2.18	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Toluene	ND		ug/m³ Air	0.116	1.51	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	0.418	1.64	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	0.833	3.41	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.307	3.07	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.192	1.87	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.227	2.71	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.134	1.84	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Ethylbenzene	ND		ug/m³ Air	0.243	1.74	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	ND		ug/m³ Air	0.533	3.47	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	0.602	4.13	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.199	1.70	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.888	2.75	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	0.267	1.74	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.299	2.10	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.254	1.97	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	0.396	1.97	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.323	1.97	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.363	1.97	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.303	2.07	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	0.630	2.40	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	0.398	2.33	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	0.513	2.40	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	0.801	2.40	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	0.321	2.56	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.344	2.97	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	0.440	2.10	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	0.661	4.27	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*94%*						08/27/11 12:21	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*68%*						08/27/11 12:21	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*100%*						08/27/11 12:21	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0392-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Surr: 1,4-Dichlorobutane (80-130%)	*101%*						08/27/11 12:21	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*105%*						08/27/11 12:21	GCMSR1	KRW	11H0392
Sample ID: 11H0421-BLK1 (Blank - Air)										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0.124	1.41	2.00	08/30/11 14:54	GCMSR1	KRW	11H0421
Trichloroethene	ND		ug/m³ Air	0.145	2.15	2.00	08/30/11 14:54	GCMSR1	KRW	11H0421
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*90%*						08/30/11 14:54	GCMSR1	KRW	11H0421
Surr: Fluorobenzene (39-111%)	*62%*						08/30/11 14:54	GCMSR1	KRW	11H0421
Surr: Toluene-d8 (79-118%)	*99%*						08/30/11 14:54	GCMSR1	KRW	11H0421
Surr: 1,4-Dichlorobutane (80-130%)	*101%*						08/30/11 14:54	GCMSR1	KRW	11H0421
Surr: 4-Bromofluorobenzene (81-131%)	*107%*						08/30/11 14:54	GCMSR1	KRW	11H0421

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

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: 11H0392-CCV1 (Calibration Check - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Dichlorodifluoromethane	45.0		ug/m³ Air	1.98	2.00	51.1	88%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Chloromethane	18.0		ug/m³ Air	0.826	2.00	21.5	83%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	60.1		ug/m³ Air	2.80	2.00	71.4	84%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Vinyl chloride	21.7		ug/m³ Air	1.02	2.00	26.4	82%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,3-Butadiene	20.7		ug/m³ Air	0.885	2.00	24.2	85%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Butane	20.1		ug/m³ Air	0.951	2.00	24.1	84%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Bromomethane	33.3		ug/m³ Air	1.55	2.00	40.1	83%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Chloroethane	22.3		ug/m³ Air	1.06	2.00	27.3	82%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Acetonitrile	16.4		ug/m³ Air	0.672	2.00	18.0	91%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
Trichlorofluoromethane	53.9		ug/m³ Air	2.25	2.00	60.3	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Acetone	25.9		ug/m³ Air	0.950	2.00	27.3	95%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Acrylonitrile	23.6		ug/m³ Air	0.868	2.00	23.8	100%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
n-Pentane	27.8		ug/m³ Air	1.18	2.00	31.7	88%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,1-Dichloroethene	38.4		ug/m³ Air	1.59	2.00	43.0	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Methylene chloride	33.2		ug/m³ Air	1.39	2.00	37.0	90%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Carbon disulfide	31.0		ug/m³ Air	1.25	2.00	33.5	93%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
Allyl chloride	31.7		ug/m³ Air	1.25	2.00	34.6	92%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,1,2-Trichlorotrifluoroethane	73.4		ug/m³ Air	3.07	2.00	82.3	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
trans-1,2-Dichloroethene	38.2		ug/m³ Air	1.59	2.00	43.0	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,1-Dichloroethane	36.6		ug/m³ Air	1.62	2.00	44.8	82%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Methyl tert-Butyl Ether	32.0		ug/m³ Air	1.44	2.00	38.4	83%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Vinyl acetate	38.0		ug/m³ Air	1.41	2.00	40.4	94%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
2-Butanone (MEK)	29.9		ug/m³ Air	1.18	2.00	33.5	89%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
cis-1,2-Dichloroethene	36.9		ug/m³ Air	1.59	2.00	43.4	85%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Hexane	32.2		ug/m³ Air	1.41	2.00	39.0	83%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Chloroform	44.2		ug/m³ Air	1.95	2.00	53.0	83%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,2-Dichloroethane	40.0		ug/m³ Air	1.62	2.00	44.8	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,1,1-Trichloroethane	51.8		ug/m³ Air	2.18	2.00	60.3	86%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Benzene	31.0		ug/m³ Air	1.28	2.00	35.7	87%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Carbon tetrachloride	63.2		ug/m³ Air	2.52	2.00	68.9	92%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Cyclohexane	32.6		ug/m³ Air	1.38	2.00	38.1	86%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,2-Dichloropropane	45.6		ug/m³ Air	1.85	2.00	51.1	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Bromodichloromethane	65.5		ug/m³ Air	2.68	2.00	70.6	93%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Trichloroethene	51.0		ug/m³ Air	2.15	2.00	56.6	90%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Heptane	40.2		ug/m³ Air	1.64	2.00	44.0	91%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
cis-1,3-Dichloropropene	46.0		ug/m³ Air	1.82	2.00	49.2	93%	70 - 130	GCMSR1	08/27/11 09:20	11H0392

Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

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: 11H0392-CCV1 (Calibration Check - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
4-Methyl-2-pentanone (MIBK)	45.6		ug/m³ Air	1.64	2.00	46.6	98%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
trans-1,3-Dichloropropene	50.0		ug/m³ Air	1.82	2.00	52.1	96%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,1,2-Trichloroethane	55.9		ug/m³ Air	2.18	2.00	60.9	92%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Toluene	41.0		ug/m³ Air	1.51	2.00	42.9	96%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Chlorodibromomethane	88.8		ug/m³ Air	3.41	2.00	92.4	96%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,2-Dibromoethane (EDB)	76.9		ug/m³ Air	3.07	2.00	86.5	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
n-Octane	49.8		ug/m³ Air	1.87	2.00	50.2	99%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Tetrachloroethene	70.7		ug/m³ Air	2.71	2.00	75.0	94%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Chlorobenzene	48.9		ug/m³ Air	1.84	2.00	51.8	94%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Ethylbenzene	49.8		ug/m³ Air	1.74	2.00	48.9	102%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
m-Xylene & p-Xylene	97.8		ug/m³ Air	3.47	2.00	96.0	102%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Bromoform	111		ug/m³ Air	4.13	2.00	114	97%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Styrene	48.0		ug/m³ Air	1.70	2.00	48.4	99%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,1,2,2-Tetrachloroethane	62.2		ug/m³ Air	2.75	2.00	76.6	81%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
o-Xylene	49.6		ug/m³ Air	1.74	2.00	48.5	102%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
n-Nonane	59.2		ug/m³ Air	2.10	2.00	55.8	106%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Isopropylbenzene	51.8		ug/m³ Air	1.97	2.00	50.8	102%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
n-Propylbenzene	47.0		ug/m³ Air	1.97	2.00	51.3	92%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,3,5-Trimethylbenzene	47.6		ug/m³ Air	1.97	2.00	55.9	85%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,2,4-Trimethylbenzene	49.3		ug/m³ Air	1.97	2.00	55.9	88%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Benzyl chloride	**79.0**	**C8**	**ug/m³ Air**	**2.07**	**2.00**	**58.9**	**134%**	**70 - 130**	**GCMSR1**	**08/27/11 09:20**	**11H0392**
1,3-Dichlorobenzene	55.3		ug/m³ Air	2.40	2.00	68.4	81%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
n-Decane	65.1		ug/m³ Air	2.33	2.00	62.5	104%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,4-Dichlorobenzene	64.3		ug/m³ Air	2.40	2.00	67.7	95%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,2-Dichlorobenzene	72.4		ug/m³ Air	2.40	2.00	67.7	107%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
n-Undecane	72.2		ug/m³ Air	2.56	2.00	68.0	106%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
1,2,4-Trichlorobenzene	101		ug/m³ Air	2.97	2.00	84.4	120%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
Naphthalene	61.3		ug/m³ Air	2.10	2.00	59.6	103%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
Hexachlorobutadiene	143		ug/m³ Air	4.27	2.00	120	119%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*95%*								GCMSR1	08/27/11 9:20	11H0392
Surr: Fluorobenzene (70-130%)	*92%*								GCMSR1	08/27/11 9:20	11H0392
Surr: Toluene-d8 (70-130%)	*102%*								GCMSR1	08/27/11 9:20	11H0392
Surr: 1,4-Dichlorobutane (70-130%)	*103%*								GCMSR1	08/27/11 9:20	11H0392
Surr: 4-Bromofluorobenzene (70-130%)	*103%*								GCMSR1	08/27/11 9:20	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

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: 11H0421-CCV1 (Calibration Check - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Trichloroethene	53.2		ug/m³ Air	2.15	2.00	56.6	94%	70 - 130	GCMSR1	08/30/11 11:52	11H0421
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*93%*								GCMSR1	08/30/11 11:52	11H0421
Surr: Fluorobenzene (70-130%)	*85%*								GCMSR1	08/30/11 11:52	11H0421
Surr: Toluene-d8 (70-130%)	*103%*								GCMSR1	08/30/11 11:52	11H0421
Surr: 1,4-Dichlorobutane (70-130%)	*110%*								GCMSR1	08/30/11 11:52	11H0421
Surr: 4-Bromofluorobenzene (70-130%)	*110%*								GCMSR1	08/30/11 11:52	11H0421

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0392-DUP1 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	**4.56**		**4.22**	ug/m³ Air	8	25	11H0392	AUH0046-01	08/27/11 23:25
Dichlorodifluoromethane	**2.74**	**J**	**2.39**	ug/m³ Air	14	25	11H0392	AUH0046-01	08/27/11 23:25
Chloromethane	**1.71**	**J**	**1.37**	ug/m³ Air	22	25	11H0392	AUH0046-01	08/27/11 23:25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Vinyl chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,3-Butadiene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Butane	**0.610**	**R4, J**	**0.472**	ug/m³ Air	26	25	11H0392	AUH0046-01	08/27/11 23:25
Bromomethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Chloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Acetonitrile	**0.370**	**R4, J**	**0.279**	ug/m³ Air	28	25	11H0392	AUH0046-01	08/27/11 23:25
Trichlorofluoromethane	**1.60**	**J**	**1.60**	ug/m³ Air	0.4	25	11H0392	AUH0046-01	08/27/11 23:25
Acetone	**24.0**		**22.6**	ug/m³ Air	6	25	11H0392	AUH0046-01	08/27/11 23:25
Acrylonitrile	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
n-Pentane	**0.547**	**R4, J**	**0.409**	ug/m³ Air	29	25	11H0392	AUH0046-01	08/27/11 23:25
Diethyl ether	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Methylene chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Carbon disulfide	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Allyl chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,1,2-Trichlorotrifluoroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Methyl tert-Butyl Ether	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Vinyl acetate	**2.68**	**J**	**2.67**	ug/m³ Air	0.4	50	11H0392	AUH0046-01	08/27/11 23:25
2-Butanone (MEK)	**2.52**	**J**	**2.36**	ug/m³ Air	6	25	11H0392	AUH0046-01	08/27/11 23:25
cis-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Hexane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Chloroform	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,2-Dichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Benzene	**0.706**	**J**	**0.589**	ug/m³ Air	18	25	11H0392	AUH0046-01	08/27/11 23:25
Carbon tetrachloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Cyclohexane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0392-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Bromodichloromethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Trichloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Heptane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Toluene	**0.612**	J	**0.610**	ug/m³ Air	0.3	25	11H0392	AUH0046-01	08/27/11 23:25
2-Hexanone	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
n-Octane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Tetrachloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Chlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Ethylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
m-Xylene & p-Xylene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Bromoform	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Styrene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
o-Xylene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
n-Nonane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Isopropylbenzene	ND		ND	ug/m³ Air		50	11H0392	AUH0046-01	08/27/11 23:25
n-Propylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Benzyl chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
n-Decane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
n-Undecane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Naphthalene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0392-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*86%*						11H0392		08/27/11 23:25
Surr: Fluorobenzene (39-111%)	*65%*						11H0392		08/27/11 23:25
Surr: Toluene-d8 (79-118%)	*97%*						11H0392		08/27/11 23:25
Surr: 1,4-Dichlorobutane (80-130%)	*100%*						11H0392		08/27/11 23:25
Surr: 4-Bromofluorobenzene (81-131%)	*105%*						11H0392		08/27/11 23:25
Sample ID: 11H0392-DUP2 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	**34.0**		**34.7**	ug/m³ Air	2	25	11H0392	AUH0046-02	08/28/11 1:23
Dichlorodifluoromethane	**2.85**	J	**2.95**	ug/m³ Air	3	25	11H0392	AUH0046-02	08/28/11 1:23
Chloromethane	**1.07**	J	**1.14**	ug/m³ Air	7	25	11H0392	AUH0046-02	08/28/11 1:23
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Vinyl chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,3-Butadiene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Butane	**2.49**	J	**2.57**	ug/m³ Air	3	25	11H0392	AUH0046-02	08/28/11 1:23
Bromomethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Chloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Acetonitrile	**0.284**	J	**0.281**	ug/m³ Air	1	25	11H0392	AUH0046-02	08/28/11 1:23
Trichlorofluoromethane	**2.21**	J	**2.18**	ug/m³ Air	1	25	11H0392	AUH0046-02	08/28/11 1:23
Acetone	**28.2**		**28.9**	ug/m³ Air	2	25	11H0392	AUH0046-02	08/28/11 1:23
Acrylonitrile	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
n-Pentane	**1.28**	J	**1.33**	ug/m³ Air	4	25	11H0392	AUH0046-02	08/28/11 1:23
Diethyl ether	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Methylene chloride	**0.538**	J	**0.570**	ug/m³ Air	6	25	11H0392	AUH0046-02	08/28/11 1:23
Carbon disulfide	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Allyl chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,1,2-Trichlorotrifluoroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Methyl tert-Butyl Ether	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Vinyl acetate	**1.21**	J	**1.29**	ug/m³ Air	6	50	11H0392	AUH0046-02	08/28/11 1:23

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0392-DUP2 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
2-Butanone (MEK)	**2.60**	**J**	**2.66**	ug/m³ Air	2	25	11H0392	AUH0046-02	08/28/11 1:23
cis-1,2-Dichloroethene	**0.418**	**J**	**0.422**	ug/m³ Air	1	25	11H0392	AUH0046-02	08/28/11 1:23
Hexane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Chloroform	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,2-Dichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Benzene	**0.386**	**J**	**0.441**	ug/m³ Air	13	25	11H0392	AUH0046-02	08/28/11 1:23
Carbon tetrachloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Cyclohexane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Bromodichloromethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Trichloroethene	**2.87**	**J**	**2.93**	ug/m³ Air	2	25	11H0392	AUH0046-02	08/28/11 1:23
Heptane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Toluene	**2.81**	**J**	**3.15**	ug/m³ Air	11	25	11H0392	AUH0046-02	08/28/11 1:23
2-Hexanone	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
n-Octane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Tetrachloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Chlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Ethylbenzene	**3.29**	**J**	**3.51**	ug/m³ Air	7	25	11H0392	AUH0046-02	08/28/11 1:23
m-Xylene & p-Xylene	**12.6**		**13.0**	ug/m³ Air	4	25	11H0392	AUH0046-02	08/28/11 1:23
Bromoform	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Styrene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
o-Xylene	**3.11**	**J**	**2.96**	ug/m³ Air	5	25	11H0392	AUH0046-02	08/28/11 1:23
n-Nonane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Isopropylbenzene	ND		ND	ug/m³ Air		50	11H0392	AUH0046-02	08/28/11 1:23
n-Propylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0392-DUP2 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Benzyl chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
n-Decane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
n-Undecane	**ND**	J	0.890	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Naphthalene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*85%*						11H0392		08/28/11 1:23
Surr: Fluorobenzene (39-111%)	*66%*						11H0392		08/28/11 1:23
Surr: Toluene-d8 (79-118%)	*96%*						11H0392		08/28/11 1:23
Surr: 1,4-Dichlorobutane (80-130%)	*105%*						11H0392		08/28/11 1:23
Surr: 4-Bromofluorobenzene (81-131%)	*111%*						11H0392		08/28/11 1:23
Sample ID: 11H0421-DUP1 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	**1.17**	J	1.13	ug/m³ Air	4	25	11H0421	AUH0240-03	08/31/11 2:50
Trichloroethene	ND		ND	ug/m³ Air		25	11H0421	AUH0240-03	08/31/11 2:50
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*78%*						11H0421		08/31/11 2:50
Surr: Fluorobenzene (39-111%)	*52%*						11H0421		08/31/11 2:50
Surr: Toluene-d8 (79-118%)	*95%*						11H0421		08/31/11 2:50
Surr: 1,4-Dichlorobutane (80-130%)	*98%*						11H0421		08/31/11 2:50
Surr: 4-Bromofluorobenzene (81-131%)	*102%*						11H0421		08/31/11 2:50

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

PROJECT QUALITY CONTROL DATA

LCS

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11H0392-BS1 (LCS - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Chlorodifluoromethane	36.4		ug/m³ Air	1.41	2.00	38.1	95%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Dichlorodifluoromethane	47.5		ug/m³ Air	1.98	2.00	51.7	92%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Chloromethane	19.8		ug/m³ Air	0.826	2.00	21.8	91%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	57.4		ug/m³ Air	2.80	2.00	73.1	78%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Vinyl chloride	23.9		ug/m³ Air	1.02	2.00	27.0	89%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,3-Butadiene	22.4		ug/m³ Air	0.885	2.00	23.8	94%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Butane	20.7		ug/m³ Air	0.951	2.00	24.1	86%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Bromomethane	36.0		ug/m³ Air	1.55	2.00	40.6	89%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Chloroethane	24.1		ug/m³ Air	1.06	2.00	27.3	88%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Acetonitrile	15.3		ug/m³ Air	0.672	2.00	17.6	87%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Trichlorofluoromethane	55.7		ug/m³ Air	2.25	2.00	60.0	93%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Acetone	24.3		ug/m³ Air	0.950	2.00	25.6	95%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Acrylonitrile	21.7		ug/m³ Air	0.868	2.00	23.4	93%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
n-Pentane	28.8		ug/m³ Air	1.18	2.00	31.8	91%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Diethyl ether	32.8		ug/m³ Air	1.21	2.00	32.7	100%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,1-Dichloroethene	40.4		ug/m³ Air	1.59	2.00	43.1	94%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Methylene chloride	34.7		ug/m³ Air	1.39	2.00	37.1	94%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Carbon disulfide	25.2		ug/m³ Air	1.25	2.00	33.9	74%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Allyl chloride	28.1		ug/m³ Air	1.25	2.00	33.4	84%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,1,2-Trichlorotrifluoroethane	77.7		ug/m³ Air	3.07	2.00	84.1	92%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
trans-1,2-Dichloroethene	38.1		ug/m³ Air	1.59	2.00	41.9	91%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,1-Dichloroethane	37.7		ug/m³ Air	1.62	2.00	44.0	86%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Methyl tert-Butyl Ether	35.3		ug/m³ Air	1.44	2.00	39.6	89%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Vinyl acetate	33.6		ug/m³ Air	1.41	2.00	39.8	85%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
2-Butanone (MEK)	27.9		ug/m³ Air	1.18	2.00	33.3	84%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
cis-1,2-Dichloroethene	38.8		ug/m³ Air	1.59	2.00	44.0	88%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Hexane	31.4		ug/m³ Air	1.41	2.00	40.6	78%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Chloroform	46.2		ug/m³ Air	1.95	2.00	52.1	89%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2-Dichloroethane	41.3		ug/m³ Air	1.62	2.00	44.0	94%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,1,1-Trichloroethane	53.3		ug/m³ Air	2.18	2.00	58.8	91%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Benzene	31.4		ug/m³ Air	1.28	2.00	34.8	90%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Carbon tetrachloride	61.0		ug/m³ Air	2.52	2.00	71.1	86%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Cyclohexane	30.8		ug/m³ Air	1.38	2.00	38.2	81%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2-Dichloropropane	46.4		ug/m³ Air	1.85	2.00	50.7	91%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Bromodichloromethane	71.6		ug/m³ Air	2.68	2.00	74.3	96%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Trichloroethene	50.5		ug/m³ Air	2.15	2.00	59.6	85%	50 - 150	GCMSR1	08/27/11 10:21	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

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: 11H0392-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Heptane	38.0		ug/m³ Air	1.64	2.00	45.5	84%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
cis-1,3-Dichloropropene	49.9		ug/m³ Air	1.82	2.00	51.3	97%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
4-Methyl-2-pentanone (MIBK)	40.0		ug/m³ Air	1.64	2.00	46.7	86%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
trans-1,3-Dichloropropene	46.9		ug/m³ Air	1.82	2.00	47.0	100%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,1,2-Trichloroethane	58.2		ug/m³ Air	2.18	2.00	59.9	97%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Toluene	40.6		ug/m³ Air	1.51	2.00	41.8	97%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
2-Hexanone	45.2		ug/m³ Air	1.64	2.00	46.3	98%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Chlorodibromomethane	94.8		ug/m³ Air	3.41	2.00	95.3	99%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2-Dibromoethane (EDB)	77.9		ug/m³ Air	3.07	2.00	84.4	92%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
n-Octane	47.5		ug/m³ Air	1.87	2.00	49.9	95%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Tetrachloroethene	72.1		ug/m³ Air	2.71	2.00	70.3	103%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Chlorobenzene	50.6		ug/m³ Air	1.84	2.00	51.5	98%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Ethylbenzene	50.9		ug/m³ Air	1.74	2.00	48.2	106%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
m-Xylene & p-Xylene	101		ug/m³ Air	3.47	2.00	94.5	107%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Bromoform	121		ug/m³ Air	4.13	2.00	113	107%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Styrene	50.2		ug/m³ Air	1.70	2.00	47.7	105%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,1,2,2-Tetrachloroethane	64.0		ug/m³ Air	2.75	2.00	77.6	82%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
o-Xylene	50.8		ug/m³ Air	1.74	2.00	49.1	104%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
n-Nonane	58.4		ug/m³ Air	2.10	2.00	56.0	104%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Isopropylbenzene	52.9		ug/m³ Air	1.97	2.00	51.9	102%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
n-Propylbenzene	48.5		ug/m³ Air	1.97	2.00	51.4	94%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,3,5-Trimethylbenzene	47.5		ug/m³ Air	1.97	2.00	54.0	88%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2,4-Trimethylbenzene	46.9		ug/m³ Air	1.97	2.00	53.5	88%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Benzyl chloride	75.5		ug/m³ Air	2.07	2.00	57.9	130%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,3-Dichlorobenzene	50.3		ug/m³ Air	2.40	2.00	67.3	75%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
n-Decane	57.6		ug/m³ Air	2.33	2.00	63.3	91%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,4-Dichlorobenzene	52.5		ug/m³ Air	2.40	2.00	65.4	80%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2-Dichlorobenzene	59.5		ug/m³ Air	2.40	2.00	67.3	88%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
n-Undecane	64.5		ug/m³ Air	2.56	2.00	69.6	93%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2,4-Trichlorobenzene	92.0		ug/m³ Air	2.97	2.00	84.6	109%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Naphthalene	48.8		ug/m³ Air	2.10	2.00	56.5	86%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Hexachlorobutadiene	138		ug/m³ Air	4.27	2.00	118	117%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*98%*								GCMSR1	08/27/11 10:21	11H0392
Surr: Fluorobenzene (39-111%)	*94%*								GCMSR1	08/27/11 10:21	11H0392
Surr: Toluene-d8 (79-118%)	*99%*								GCMSR1	08/27/11 10:21	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

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: 11H0392-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Surr: 1,4-Dichlorobutane (80-130%)	*109%*								GCMSR1	08/27/11 10:21	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*106%*								GCMSR1	08/27/11 10:21	11H0392
Sample ID: 11H0421-BS1 (LCS - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Chlorodifluoromethane	36.2		ug/m³ Air	1.41	2.00	38.1	95%	50 - 150	GCMSR1	08/30/11 12:53	11H0421
Trichloroethene	52.2		ug/m³ Air	2.15	2.00	59.6	88%	50 - 150	GCMSR1	08/30/11 12:53	11H0421
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*94%*								GCMSR1	08/30/11 12:53	11H0421
Surr: Fluorobenzene (39-111%)	*84%*								GCMSR1	08/30/11 12:53	11H0421
Surr: Toluene-d8 (79-118%)	*97%*								GCMSR1	08/30/11 12:53	11H0421
Surr: 1,4-Dichlorobutane (80-130%)	*106%*								GCMSR1	08/30/11 12:53	11H0421
Surr: 4-Bromofluorobenzene (81-131%)	*109%*								GCMSR1	08/30/11 12:53	11H0421

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

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: 11H0392-BSD1 (LCS Dup - Air)												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Chlorodifluoromethane	35.8		ug/m³ Air	1.41	2.00	38.1	94%	50 - 150	1	25	08/27/11 11:20	11H0392
Dichlorodifluoromethane	46.8		ug/m³ Air	1.98	2.00	51.7	90%	50 - 150	2	25	08/27/11 11:20	11H0392
Chloromethane	19.4		ug/m³ Air	0.826	2.00	21.8	89%	50 - 150	2	25	08/27/11 11:20	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	56.7		ug/m³ Air	2.80	2.00	73.1	78%	50 - 150	1	25	08/27/11 11:20	11H0392
Vinyl chloride	23.7		ug/m³ Air	1.02	2.00	27.0	88%	50 - 150	1	25	08/27/11 11:20	11H0392
1,3-Butadiene	22.1		ug/m³ Air	0.885	2.00	23.8	93%	50 - 150	1	25	08/27/11 11:20	11H0392
Butane	20.4		ug/m³ Air	0.951	2.00	24.1	85%	50 - 150	2	25	08/27/11 11:20	11H0392
Bromomethane	35.6		ug/m³ Air	1.55	2.00	40.6	88%	50 - 150	1	25	08/27/11 11:20	11H0392
Chloroethane	23.9		ug/m³ Air	1.06	2.00	27.3	87%	50 - 150	0.7	25	08/27/11 11:20	11H0392
Acetonitrile	15.3		ug/m³ Air	0.672	2.00	17.6	87%	50 - 150	0.2	25	08/27/11 11:20	11H0392
Trichlorofluoromethane	55.8		ug/m³ Air	2.25	2.00	60.0	93%	50 - 150	0.3	25	08/27/11 11:20	11H0392
Acetone	24.2		ug/m³ Air	0.950	2.00	25.6	95%	50 - 150	0.3	25	08/27/11 11:20	11H0392
Acrylonitrile	22.1		ug/m³ Air	0.868	2.00	23.4	95%	50 - 150	2	25	08/27/11 11:20	11H0392
n-Pentane	28.9		ug/m³ Air	1.18	2.00	31.8	91%	50 - 150	0.4	25	08/27/11 11:20	11H0392
Diethyl ether	32.0		ug/m³ Air	1.21	2.00	32.7	98%	50 - 150	2	25	08/27/11 11:20	11H0392
1,1-Dichloroethene	40.8		ug/m³ Air	1.59	2.00	43.1	95%	50 - 150	1	25	08/27/11 11:20	11H0392
Methylene chloride	34.9		ug/m³ Air	1.39	2.00	37.1	94%	50 - 150	0.6	25	08/27/11 11:20	11H0392
Carbon disulfide	25.4		ug/m³ Air	1.25	2.00	33.9	75%	50 - 150	0.9	25	08/27/11 11:20	11H0392
Allyl chloride	28.4		ug/m³ Air	1.25	2.00	33.4	85%	50 - 150	1	25	08/27/11 11:20	11H0392
1,1,2-Trichlorotrifluoroethane	78.3		ug/m³ Air	3.07	2.00	84.1	93%	50 - 150	0.8	25	08/27/11 11:20	11H0392
trans-1,2-Dichloroethene	38.0		ug/m³ Air	1.59	2.00	41.9	91%	50 - 150	0.4	25	08/27/11 11:20	11H0392
1,1-Dichloroethane	38.1		ug/m³ Air	1.62	2.00	44.0	87%	50 - 150	1	25	08/27/11 11:20	11H0392
Methyl tert-Butyl Ether	35.3		ug/m³ Air	1.44	2.00	39.6	89%	50 - 150	0.04	25	08/27/11 11:20	11H0392
Vinyl acetate	33.6		ug/m³ Air	1.41	2.00	39.8	85%	50 - 150	0.05	50	08/27/11 11:20	11H0392
2-Butanone (MEK)	28.1		ug/m³ Air	1.18	2.00	33.3	84%	50 - 150	0.5	25	08/27/11 11:20	11H0392
cis-1,2-Dichloroethene	38.8		ug/m³ Air	1.59	2.00	44.0	88%	50 - 150	0.04	25	08/27/11 11:20	11H0392
Hexane	31.6		ug/m³ Air	1.41	2.00	40.6	78%	50 - 150	0.5	25	08/27/11 11:20	11H0392
Chloroform	47.1		ug/m³ Air	1.95	2.00	52.1	90%	50 - 150	2	25	08/27/11 11:20	11H0392
1,2-Dichloroethane	42.3		ug/m³ Air	1.62	2.00	44.0	96%	50 - 150	2	25	08/27/11 11:20	11H0392
1,1,1-Trichloroethane	53.6		ug/m³ Air	2.18	2.00	58.8	91%	50 - 150	0.6	25	08/27/11 11:20	11H0392
Benzene	30.9		ug/m³ Air	1.28	2.00	34.8	89%	50 - 150	1	25	08/27/11 11:20	11H0392
Carbon tetrachloride	59.3		ug/m³ Air	2.52	2.00	71.1	83%	50 - 150	3	25	08/27/11 11:20	11H0392
Cyclohexane	29.8		ug/m³ Air	1.38	2.00	38.2	78%	50 - 150	3	25	08/27/11 11:20	11H0392
1,2-Dichloropropane	45.2		ug/m³ Air	1.85	2.00	50.7	89%	50 - 150	3	25	08/27/11 11:20	11H0392
Bromodichloromethane	71.6		ug/m³ Air	2.68	2.00	74.3	96%	50 - 150	0.07	25	08/27/11 11:20	11H0392
Trichloroethene	51.9		ug/m³ Air	2.15	2.00	59.6	87%	50 - 150	3	25	08/27/11 11:20	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 20:50

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: 11H0392-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Heptane	37.1		ug/m³ Air	1.64	2.00	45.5	82%	50 - 150	2	25	08/27/11 11:20	11H0392
cis-1,3-Dichloropropene	52.0		ug/m³ Air	1.82	2.00	51.3	101%	50 - 150	4	25	08/27/11 11:20	11H0392
4-Methyl-2-pentanone (MIBK)	39.4		ug/m³ Air	1.64	2.00	46.7	84%	50 - 150	2	25	08/27/11 11:20	11H0392
trans-1,3-Dichloropropene	50.0		ug/m³ Air	1.82	2.00	47.0	106%	50 - 150	6	25	08/27/11 11:20	11H0392
1,1,2-Trichloroethane	57.9		ug/m³ Air	2.18	2.00	59.9	97%	50 - 150	0.4	25	08/27/11 11:20	11H0392
Toluene	39.7		ug/m³ Air	1.51	2.00	41.8	95%	50 - 150	2	25	08/27/11 11:20	11H0392
2-Hexanone	48.3		ug/m³ Air	1.64	2.00	46.3	104%	50 - 150	6	25	08/27/11 11:20	11H0392
Chlorodibromomethane	95.7		ug/m³ Air	3.41	2.00	95.3	100%	50 - 150	0.9	25	08/27/11 11:20	11H0392
1,2-Dibromoethane (EDB)	84.0		ug/m³ Air	3.07	2.00	84.4	100%	50 - 150	8	25	08/27/11 11:20	11H0392
n-Octane	46.7		ug/m³ Air	1.87	2.00	49.9	94%	50 - 150	2	25	08/27/11 11:20	11H0392
Tetrachloroethene	71.7		ug/m³ Air	2.71	2.00	70.3	102%	50 - 150	0.6	25	08/27/11 11:20	11H0392
Chlorobenzene	50.4		ug/m³ Air	1.84	2.00	51.5	98%	50 - 150	0.3	25	08/27/11 11:20	11H0392
Ethylbenzene	50.5		ug/m³ Air	1.74	2.00	48.2	105%	50 - 150	0.9	25	08/27/11 11:20	11H0392
m-Xylene & p-Xylene	98.6		ug/m³ Air	3.47	2.00	94.5	104%	50 - 150	2	25	08/27/11 11:20	11H0392
Bromoform	124		ug/m³ Air	4.13	2.00	113	111%	50 - 150	3	25	08/27/11 11:20	11H0392
Styrene	50.5		ug/m³ Air	1.70	2.00	47.7	106%	50 - 150	0.6	25	08/27/11 11:20	11H0392
1,1,2,2-Tetrachloroethane	64.4		ug/m³ Air	2.75	2.00	77.6	83%	50 - 150	0.6	25	08/27/11 11:20	11H0392
o-Xylene	50.1		ug/m³ Air	1.74	2.00	49.1	102%	50 - 150	1	25	08/27/11 11:20	11H0392
n-Nonane	57.1		ug/m³ Air	2.10	2.00	56.0	102%	50 - 150	2	25	08/27/11 11:20	11H0392
Isopropylbenzene	51.7		ug/m³ Air	1.97	2.00	51.9	100%	50 - 150	2	50	08/27/11 11:20	11H0392
n-Propylbenzene	48.1		ug/m³ Air	1.97	2.00	51.4	94%	50 - 150	0.8	25	08/27/11 11:20	11H0392
1,3,5-Trimethylbenzene	51.6		ug/m³ Air	1.97	2.00	54.0	96%	50 - 150	8	25	08/27/11 11:20	11H0392
1,2,4-Trimethylbenzene	57.9		ug/m³ Air	1.97	2.00	53.5	108%	50 - 150	21	25	08/27/11 11:20	11H0392
Benzyl chloride	79.0		ug/m³ Air	2.07	2.00	57.9	136%	50 - 150	5	25	08/27/11 11:20	11H0392
1,3-Dichlorobenzene	60.4		ug/m³ Air	2.40	2.00	67.3	90%	50 - 150	18	25	08/27/11 11:20	11H0392
n-Decane	62.6		ug/m³ Air	2.33	2.00	63.3	99%	50 - 150	8	25	08/27/11 11:20	11H0392
1,4-Dichlorobenzene	66.3		ug/m³ Air	2.40	2.00	65.4	101%	50 - 150	23	25	08/27/11 11:20	11H0392
1,2-Dichlorobenzene	72.9		ug/m³ Air	2.40	2.00	67.3	108%	50 - 150	20	25	08/27/11 11:20	11H0392
n-Undecane	61.6		ug/m³ Air	2.56	2.00	69.6	89%	50 - 150	5	25	08/27/11 11:20	11H0392
1,2,4-Trichlorobenzene	87.7		ug/m³ Air	2.97	2.00	84.6	104%	50 - 150	5	25	08/27/11 11:20	11H0392
Naphthalene	46.1		ug/m³ Air	2.10	2.00	56.5	82%	50 - 150	6	25	08/27/11 11:20	11H0392
Hexachlorobutadiene	132		ug/m³ Air	4.27	2.00	118	112%	50 - 150	5	25	08/27/11 11:20	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*97%*										08/27/11 11:20	11H0392
Surr: Fluorobenzene (39-111%)	*96%*										08/27/11 11:20	11H0392
Surr: Toluene-d8 (79-118%)	*98%*										08/27/11 11:20	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0043 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 20:50	

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: 11H0392-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Surr: 1,4-Dichlorobutane (80-130%)	*102%*										08/27/11 11:20	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*106%*										08/27/11 11:20	11H0392
Sample ID: 11H0421-BSD1 (LCS Dup - Air)												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Chlorodifluoromethane	35.5		ug/m³ Air	1.41	2.00	38.1	93%	50 - 150	2	25	08/30/11 13:54	11H0421
Trichloroethene	52.1		ug/m³ Air	2.15	2.00	59.6	87%	50 - 150	0.1	25	08/30/11 13:54	11H0421
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*94%*										08/30/11 13:54	11H0421
Surr: Fluorobenzene (39-111%)	*84%*										08/30/11 13:54	11H0421
Surr: Toluene-d8 (79-118%)	*99%*										08/30/11 13:54	11H0421
Surr: 1,4-Dichlorobutane (80-130%)	*111%*										08/30/11 13:54	11H0421
Surr: 4-Bromofluorobenzene (81-131%)	*110%*										08/30/11 13:54	11H0421

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0043 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 20:50

DATA QUALIFIERS AND DEFINITIONS

C8	Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
RA	Results are from a second analysis of the sample.
ND	Not detected.

549937	Terracon	Good	24 hr - 70%	DTW 07/26/11	DTW 08/11/11	good	
7343491					DTW 08/10/11	good	
7342868					DTW 08/12/11	good	
7300138					DTW 08/09/11	good	
7229273					DTW 08/12/11	good	
7299278					DTW 08/09/11	good	
7300952					DTW 08/10/11	good	Busted gauge
5502898					DTW 08/09/11	good	
7300954					DTW 08/11/11	good	

8/24/11

VOC EQUIPMENT SIGN-OUT LOGBOOK

EQUIPMENT NUMBER	CLIENT	CONDITION SHIPPED OUT	CALIBRATED	INITIALS/DATE OUT	INITIALS/DATE RETURNED	CONDITION ON RETURN	COMMENTS
7300105	TERRACON	GOOD	24HR - 70%	DTW 07/26/11	DTW 08/11/11	good	
7289097					DTW 08/09/11	good	
7340650					DTW 08/09/11	good	
7300971					DTW 08/11/11	good	
7300947					DTW 08/08/11	good	
7343248					DTW 08/10/11	good	
7299272					DTW 08/09/11	good	
7301111					DTW 08/11/11	good	
7343485					DTW 08/09/11	good	
7343492					DTW 08/11/11	good	
7298377					DTW 08/09/11	good	
7343027					DTW 08/10/11	good	
7342987					DTW 08/12/11	good	
7299277					DTW 08/11/11	good	
7300149					DTW 08/12/11	good	
7301037					DTW 08/11/11	good	
7343025					DTW 08/11/11	good	
7300142					DTW 08/11/11	good	
00001			1HR - 70%		DTW 08/12/11	good	
4168475					DTW 08/12/11	good	
00520					DTW 08/12/11	good	
FC023					DTW 08/12/11	good	
A133246					DTW 08/12/11	good	

VOC EQUIPMENT SIGN-OUT LOGBOOK

EQUIPMENT NUMBER	CLIENT	CONDITION SHIPPED OUT	CALIBRATED	INITIALS/DATE OUT	INITIALS/DATE RETURNED	CONDITION ON RETURN	COMMENTS
FC025	Terracon	Good	1HR-70%	DTW 07/26/11	DTW 08/12/11	Bad gauge	
FC029					DTW 08/12/11	good	
7301138					DTW 08/09/11	good	
7299282					DTW 08/08/11	good	
7301142					DTW 08/08/11	good	

TestAmerica – Austin Laboratory Chain of Custody Addendum **Work Order Number** A11H0243

RECEIVED BY: MJB CLIENT: Terracon Lenexa

DATE/TIME RECEIVED: 8/3/11 09:15 PROJECT: Bannister Complex

UNPACKED DATE/TIME: 8/3/11 12:45 LOGIN BY: BJ LOGIN REVIEWED BY: MJB

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: MJB

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: MJB

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

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 approx. amt. of headspace (>6mm) 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: _____ Date: 8/17/11

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE Revised 07/26/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

AUH 0043

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
Address:	13910 W 96th Terr
City/State/Zip	Lenexa KS 66215
Phone:	913-492-7777
FAX:	913-492-7443
Project Name:	GSA
Site:	Bannister Complex
PO #	02107144

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

Samples Collected By: WW K 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)
BISB-U17-VOCs	7/28+29 2011	1156	12:43	-30	-14	7301111	7486	✓								X				
BISB-U19-SS-VOCs	7/29/11	16:23	18:34	>-30	-10	FC029	93289	✓			8/3/11									☆
BISB-K8-VOCs	7/29+30 2011	19:38	13:12	-28	-4	7343248	6588	✓				GOOD				X				
B2B-OB27-SS-VOCs	7/29/11	15:08	16:08	-28	-11	132439	HL2081	✓												☆
Ambient west VOCs	7/29+30 2011	20:23	16:11	-28	-2	7340650	5446	✓									X			
BISB-P25-SS-VOCs	7/29/11	14:43	15:43	-30	-4	7301138	RR2239	✓												☆
BISB-S19-VOCs	7/29+30 2011	19:53	17:03	-25	-4	7299278	HL0800	✓								X				
BISB-W8-SS-VOCs	7/29/11	12:12	13:12	-27	-3	7301142	RA2273	✓												☆

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

Samples Shipped by: Tim Easley	Date/Time: 8-2-11 3:00 pm	Samples Received by: Melanie J. Leary 8/3/11 09:15
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

44/179

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
AUH0043-01	7486	8/22/2011 5:43:42 PM	-14.24	-6.188605	12.6	16.8	1	3.912366	3.912366
AUH0043-02	93289	8/22/2011 5:43:53 PM	-14.24	-4.3222	8.8	16.8	1	3.176108	3.176108
AUH0043-03	6588	8/22/2011 5:44:10 PM	-14.24	-2.652259	5.4	16.8	1	2.71839	2.71839
AUH0043-04	HL2081	8/22/2011 5:44:27 PM	-14.24	-5.40275	11	16.5	1	3.53051	3.53051
AUH0043-05	5446	8/22/2011 5:44:43 PM	-14.24	-1.964637	4	16.8	1	2.566116	2.566116
AUH0043-06	RA2239	8/22/2011 5:45:17 PM	-14.24	-0.982318	2	16.5	1	2.353353	2.353353
AUH0043-07	HL0800	8/22/2011 5:45:37 PM	-14.24	-3.831041	7.8	17	1	3.045454	3.045454
AUH0043-08	RA2273	8/23/2011 12:04:01 PM	-14.24	-1.571709	3.2	16.8	1	2.486523	2.486523

PEER REVIEWED BY DPW

Initial Calibration

Response Factor Report GCMS-R1

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration

8-25-11

Calibration Files
20 =RA082414.D 50 =RA082415.D 100 =RA082416.D
250 =RA082417.D 500 =RA082418.D 750 =RA082419.D

1000 =RA082420.D 20A =RA082405.D 50A =RA082406.D 100A =RA082407.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	0.409	0.404	0.403	0.400	0.405	0.419	0.436	0.402	0.405	0.402	0.40874	2.50
3)	t	Ethylene	0.067	0.064	0.064	0.061	0.058	0.064	0.066				0.06344	4.66
4)	t	Acetylene	0.141	0.116	0.112	0.109	0.111	0.117	0.123				0.11842	9.33
5)	t	Ethane	0.051	0.044	0.040	0.031	0.029	0.026	0.027				0.03545	27.14
6)	t	Halocarbon 134A								0.273	0.239	0.220	0.22989	8.93
7)	t	Propylene	0.209	0.173	0.171	0.163	0.169	0.180	0.188				0.17898	8.66
8)	t	Chlorodifluorometha								0.641	0.552	0.511	0.52705	10.38
9)	t	Propane	0.102	0.079	0.078	0.075	0.076	0.080	0.085				0.08221	11.54
10)	t	Dichlorodifluoromet	1.306	1.013	1.018	0.955	0.932	0.957	0.967				1.02109	12.67
11)	t	Chloromethane	0.307	0.245	0.237	0.232	0.231	0.246	0.256				0.25071	10.43
12)	t	Isobutane	0.632	0.501	0.500	0.479	0.484	0.509	0.529				0.51901	10.10
13)	t	Halocarbon 114	1.165	0.935	0.881	0.835	0.820	0.845	0.866				0.90670	13.23
14)	t	Acetaldehyde								0.127	0.108	0.119	0.11350	6.31
15)	t	Vinyl chloride	0.352	0.274	0.268	0.262	0.265	0.283	0.293				0.28535	10.98
16)	t	1-Butene/Isobutene	0.441	0.362	0.347	0.338	0.341	0.359	0.371				0.36555	9.63
17)	t	1,3-Butadiene	0.278	0.227	0.220	0.214	0.214	0.221	0.227				0.22854	9.78
18)	t	n-Butane	0.559	0.457	0.430	0.416	0.417	0.435	0.453				0.45244	10.98
19)	t	Methanol								0.084	0.066	0.057	0.05760	23.12
20)	t	trans-2-Butene	0.415	0.340	0.323	0.311	0.313	0.329	0.338				0.33847	10.45
21)	t	Neopentane								1.061	0.932	0.863	0.90304	8.30
22)	t	Dichlorofluorometha								0.776	0.702	0.644	0.65682	9.29
23)	t	Bromomethane	0.327	0.264	0.250	0.240	0.243	0.254	0.262				0.26279	11.23
24)	t	cis-2-Butene	0.410	0.335	0.322	0.308	0.313	0.324	0.336				0.33533	10.31
25)	t	Chloroethane	0.190	0.151	0.142	0.136	0.138	0.147	0.153				0.15086	12.07
26)	t	Vinyl bromide								0.299	0.271	0.254	0.26098	7.03
27)	t	3-Methyl-1-butene	0.840	0.660	0.622	0.609	0.604	0.624	0.641				0.65714	12.58
28)	t	Ethanol								0.119	0.079	0.118	0.09257	19.91
29)	t	Acetonitrile								0.232	0.218	0.208	0.21444	3.98
30)	t	Acrolein								0.102	0.094	0.096	0.09670	3.55
31)	t	Isopentane	0.434	0.347	0.330	0.308	0.301	0.322	0.328				0.33859	13.16
32)	t	Trichlorofluorometh	1.219	0.990	0.925	0.857	0.832	0.828	0.815				0.92391	15.66
33)	t	1-Pentene	0.457	0.370	0.344	0.334	0.334	0.344	0.348				0.36147	12.10
34)	t	Acetone								0.626	0.554	0.521	0.52482	9.62
35)	T	2-Propanol								0.526	0.442	0.403	0.39617	18.31
36)	t	Acrylonitrile								0.194	0.170	0.173	0.17524	4.85
37)	t	n-Pentane	0.616	0.495	0.466	0.449	0.441	0.451	0.455				0.48193	12.79
38)	T	Diethyl ether								0.137	0.120	0.115	0.11951	6.80
39)	t	Isoprene	0.410	0.327	0.305	0.302	0.301	0.315	0.323				0.32632	11.79

40)	t	trans-2-Pentene	0.678	0.553	0.521	0.512	0.508	0.525	0.535				0.54743	10.87
41)	t	1,1-Dichloroethene	0.671	0.539	0.514	0.488	0.481	0.486	0.488				0.52371	13.02
42)	t	cis-2-Pentene	0.653	0.558	0.521	0.508	0.503	0.522	0.530				0.54209	9.57
43)	t	Methylene chloride	0.444	0.367	0.344	0.326	0.321	0.327	0.329				0.35114	12.56
44)	t	2-Methyl-2-butene	0.679	0.564	0.526	0.519	0.515	0.532	0.538				0.55322	10.44
45)	t	Carbon Disulfide								0.934	0.847	0.781	0.80356	8.09
46)	t	3-Chloropropene	0.379	0.336	0.312	0.305	0.301	0.309	0.312				0.32217	8.52
47)	t	Halocarbon 113	0.475	0.384	0.357	0.338	0.329	0.333	0.336				0.36445	14.42
48)	t	Neohexane	0.501	0.415	0.388	0.366	0.359	0.370	0.372				0.39594	12.63
49)	t	Cyclopentene	0.754	0.611	0.587	0.564	0.562	0.582	0.581				0.60595	11.12
50)	t	trans-1,2-Dichloroe	0.552	0.452	0.419	0.402	0.391	0.399	0.481				0.44222	13.14
51)	t	4-Methyl-1-pentene	0.507	0.414	0.383	0.371	0.368	0.373	0.459				0.41051	13.03
52)	T	1-Propanol								0.047	0.046	0.039	0.03770	18.18
53)	t	1,1-Dichloroethane	0.771	0.634	0.591	0.567	0.571	0.585	0.595				0.61623	11.65
54)	t	Cyclopentane	0.636	0.529	0.513	0.488	0.492	0.508	0.525				0.52737	9.57
55)	t	2,3-Dimethylbutane	0.879	0.710	0.663	0.645	0.645	0.676	0.696				0.70206	11.63
56)	T	Methyl tert-butyl e	1.004	0.858	0.828	0.807	0.816	0.855	0.886				0.86488	7.75
57)	t	Isohexane	0.453	0.359	0.340	0.328	0.326	0.343	0.355				0.35799	12.25
58)	t	Vinyl acetate								0.902	0.815	0.801	0.83538	4.53
59)	t	cis-4-Methyl-2-pent								0.603	0.559	0.523	0.54093	5.79
60)	t	trans-4-Methyl-2-pe								0.723	0.630	0.603	0.62581	7.12
61)	T	Butyraldehyde								0.055	0.050	0.048	0.05054	4.99
62)	t	2-Butanone								0.684	0.636	0.633	0.63716	3.78
63)	t	Chloroprene	0.721	0.597	0.556	0.570	0.572	0.584	0.585				0.59799	9.30
64)	t	3-Methylpentane	0.723	0.592	0.566	0.544	0.547	0.574	0.596				0.59181	10.32
65)	s	Fluorobenzene	0.902	0.917	0.910	0.970	1.046	1.117	1.173	0.865	0.868	0.882	0.97267	10.07
66)	t	2-Methyl-1-pentene	0.594	0.521	0.537	0.508	0.501	0.516	0.558				0.53365	6.12
67)	t	1-Hexene	0.435	0.328	0.341	0.329	0.310	0.330	0.311				0.34077	12.65
68)	t	cis-1,2-Dichloroeth	0.577	0.466	0.447	0.443	0.441	0.458	0.465				0.47086	10.18
69)	t	Bromochloromethane	0.265	0.214	0.204	0.198	0.197	0.206	0.212				0.21387	11.06
70)	t	2-Ethyl-1-butene								0.358	0.323	0.315	0.32848	4.95
71)	t	n-Hexane	0.558	0.467	0.457	0.451	0.464	0.488	0.509				0.48467	7.80
72)	t	Chloroform	0.947	0.778	0.712	0.703	0.702	0.722	0.721				0.75514	11.71
73)	t	cis-3-Hexene								0.440	0.405	0.387	0.40822	4.91
74)	t	trans-2-Hexene	0.670	0.590	0.553	0.565	0.581	0.609	0.629				0.59974	6.74
75)	t	2-Methyl-2-pentene								0.587	0.544	0.511	0.53084	5.18
76)	t	cis-3-Methyl-2-pent								0.440	0.386	0.374	0.39021	5.94
77)	t	cis-2-Hexene	0.574	0.505	0.492	0.494	0.512	0.545	0.558				0.52570	6.23
78)	t	Methylcyclopentane	0.706	0.610	0.579	0.564	0.581	0.610	0.633				0.61201	7.81
79)	t	1,2-Dichloroethane	0.726	0.631	0.561	0.575	0.572	0.583	0.570				0.60259	9.80
80)	t	2,4-Dimethylpentane	0.842	0.693	0.667	0.637	0.653	0.674	0.690				0.69380	9.87
81)	t	1,1,1-Trichloroetha	1.037	0.854	0.816	0.778	0.772	0.783	0.787				0.83238	11.37
82)	i	Chlorobenzene-d5	----------ISTD----------											
83)	T	Methylcyclopentene								2.163	2.012	1.889	1.82949	11.52
84)	t	Benzene	2.236	1.814	1.749	1.623	1.461	1.412	1.387				1.66879	17.97
85)	t	Carbon tetrachlorid	2.843	2.210	2.159	1.856	1.558	1.421	1.332				1.91116	28.03
86)	T	1-Butanol								0.577	0.534	0.527	0.52203	7.50
87)	t	Cyclohexane	1.631	1.345	1.278	1.092	0.968	0.909	0.897				1.16016	23.44
88)	t	Isoheptane	2.364	1.935	1.894	1.665	1.418	1.338	1.318				1.70453	22.61
89)	t	2,3-Dimethylpentane	2.065	1.639	1.570	1.368	1.199	1.135	1.109				1.44071	23.91
90)	T	Cyclohexene								1.523	1.387	1.263	1.22838	14.63
91)	t	3-Methylhexane	1.897	1.517	1.482	1.309	1.150	1.073	1.038				1.35235	22.60
92)	t	1,2-Dichloropropane	0.881	0.704	0.674	0.638	0.576	0.566	0.554				0.65615	17.44
93)	t	Bromodichloromethan	2.210	1.844	1.709	1.604	1.426	1.354	1.278				1.63194	19.86

94)	t	Trichloroethene	0.943	0.750	0.696	0.686	0.624	0.599	0.565				0.69490	18.18
95)	T	1,4-Dioxane								0.473	0.339	0.258	0.27088	37.67
96)	T	1-Heptene								0.739	0.693	0.661	0.64193	9.86
97)	t	2,2,4-Trimethylpent	5.598	4.471	4.303	3.782	3.269	3.091	2.998				3.93026	23.80
98)	t	2-Chloropentane	1.183	1.016	1.010	0.962	0.881	0.849	0.835				0.96244	12.70
99)	t	trans-3-Heptene								1.298	1.161	1.112	1.08986	10.99
100)	t	n-Heptane	0.870	0.695	0.712	0.644	0.588	0.571	0.562				0.66317	16.36
101)	T	cis-3-Heptene								1.295	1.237	1.172	1.12432	10.83
102)	T	trans-2-Heptene								1.035	1.017	0.964	0.95250	6.39
103)	T	2,4,4-Trimethyl-1-p								3.255	3.010	2.719	2.60919	16.01
104)	t	cis-1,3-Dichloropro	1.020	0.868	0.775	0.856	0.815	0.811	0.760				0.84361	10.32
105)	T	Methylisobutylketon								2.053	1.756	1.605	1.63046	13.38
106)	t	Methylcyclohexane	1.749	1.441	1.425	1.234	1.072	1.021	1.000				1.27726	21.62
107)	T	2,4,4-Trimethyl-2-p								2.494	2.291	2.084	1.98242	16.93
108)	T	2,5-Dimethylhexane								2.421	2.187	1.954	1.88878	17.20
109)	T	2,2,3-Trimethylpent								4.113	3.758	3.345	3.22586	17.42
110)	t	trans-1,3-Dichlorop	0.916	0.787	0.718	0.787	0.751	0.750	0.694				0.77188	9.33
111)	t	1,1,2-Trichloroetha	0.627	0.554	0.509	0.492	0.469	0.467	0.455				0.51043	11.99
112)	t	2,3,4-Trimethylpent	3.252	2.534	2.465	2.174	1.885	1.774	1.704				2.25554	24.24
113)	s	Toluene-d8	1.754	1.772	1.806	1.780	1.746	1.725	1.737	1.706	1.751	1.722	1.75488	1.60
114)	t	Toluene	1.848	1.543	1.498	1.475	1.405	1.404	1.382				1.50795	10.67
115)	s	1,4-Dichlorobutane	0.137	0.141	0.141	0.143	0.142	0.156	0.146	0.141	0.142	0.143	0.14162	3.56
116)	t	2-Hexanone								1.427	1.301	0.983	1.06823	19.35
117)	t	2-Methylheptane	2.186	1.798	1.794	1.534	1.407	1.314	1.270				1.61479	20.39
118)	T	1-Methylcyclohexene								1.370	1.323	1.234	1.21557	8.98
119)	t	Dibromochloromethan	1.157	0.990	0.927	0.888	0.827	0.808	0.761				0.90835	14.74
120)	t	3-Methylheptane	1.213	1.019	1.004	0.898	0.807	0.773	0.765				0.92558	17.74
121)	T	Hexanal								0.205	0.182	0.151	0.16680	11.88
122)	t	1,2-Dibromoethane	0.899	0.741	0.610	0.672	0.627	0.626	0.574				0.67832	16.36
123)	T	2,2,5-Trimethylhexa								4.899	4.543	4.097	3.91739	16.55
124)	T	1-Octene								0.789	0.727	0.721	0.71769	5.43
125)	t	n-Octane	1.787	1.587	1.606	1.503	1.394	1.346	1.306				1.50414	11.31
126)	t	Tetrachloroethene	0.711	0.596	0.550	0.536	0.511	0.508	0.496				0.55827	13.47
127)	T	cis-2-Octene								0.999	0.915	0.923	0.93602	3.72
128)	t	Chlorobenzene	0.941	0.827	0.774	0.763	0.741	0.751	0.728				0.78928	9.40
129)	t	Ethylbenzene	1.633	1.462	1.548	1.521	1.493	1.521	1.483				1.52283	3.69
130)	t	m/p-Xylene	1.482	1.327	1.349	1.310	1.273	1.277	1.233				1.32164	6.09
131)	t	Bromoform	0.698	0.591	0.562	0.534	0.504	0.499	0.470				0.55126	13.84
132)	T	Butyl acrylate								1.204	1.309	1.281	1.16271	12.44
133)	T	Heptanal								0.288	0.294	0.278	0.26820	8.70
134)	t	Styrene	0.691	0.594	0.608	0.613	0.613	0.634	0.619				0.62459	5.08
135)	t	1,1,2,2-Tetrachloro	1.043	0.841	0.833	0.815	1.047	1.067	1.100				0.96387	13.18
136)	t	o-Xylene	1.541	1.377	1.407	1.355	1.303	1.294	1.235				1.35868	7.27
137)	T	1-Nonene								0.560	0.561	0.564	0.58383	3.73
138)	t	cis-4-Nonene								1.194	1.173	1.130	1.17405	2.40
139)	t	trans-4-Nonene								1.213	1.155	1.089	1.12632	5.93
140)	t	n-Nonane	1.405	1.290	1.361	1.277	1.228	1.209	1.147				1.27385	6.97
141)	s	1,4-Bromofluorobenz	0.668	0.666	0.680	0.655	0.648	0.670	0.642	0.662	0.663	0.656	0.65748	2.07
142)	t	Isopropylbenzene	2.304	2.088	2.159	2.077	2.039	2.082	1.955				2.10060	5.17
143)	T	Benzaldehyde								0.566	0.626	0.479	0.53865	14.59
144)	t	alpha-Pinene	3.159	2.653	2.645	2.355	2.050	1.944	1.879				2.38357	19.55
145)	T	o/m-Chlorotoluene								1.027	0.939	0.902	0.93606	4.69
146)	T	p-Chlorotoluene								0.907	0.834	0.818	0.84188	3.83
147)	t	n-Propylbenzene	1.944	1.671	1.791	1.749	2.005	2.443	2.234				1.97675	14.09
148)	t	m-Ethyltoluene	1.453	1.254	1.316	1.331	1.820	2.041	2.073				1.61273	22.07

149)	t	p-Ethyltoluene	1.283	1.147	1.196	1.189	1.648	1.879	1.893				1.46195	22.87
150)	t	1,3,5-Trimethylbenz	1.570	1.376	1.389	1.477	1.978	2.015	2.111				1.70224	18.80
151)	t	o-Ethyltoluene	1.619	1.469	1.519	1.607	2.248	2.314	2.439				1.88778	22.44
152)	t	beta-Pinene	3.027	2.576	2.612	2.372	2.128	2.045	1.952				2.38765	15.94
153)	t	1,2,4-Trimethylbenz	1.313	1.121	1.129	1.403	1.858	1.901	2.038				1.53773	25.09
154)	T	tert-Butylbenzene								1.983	1.896	1.885	1.98826	5.13
155)	T	1-Decene								0.428	0.391	0.386	0.52108	28.11
156)	t	Benzyl chloride	0.788	0.555	0.454	1.019	1.038	1.141	1.261				0.89379	33.94
157)	t	m-Dichlorobenzene	0.561	0.464	0.460	0.534	0.783	0.784	0.867				0.63605	26.72
158)	t	n-Decane	1.761	1.381	1.172	1.664	1.591	1.587	1.612				1.53827	12.87
159)	t	p-Dichlorobenzene	0.515	0.432	0.420	0.557	0.763	0.754	0.829				0.61008	27.77
160)	T	Isobutylbenzene								1.732	1.654	1.623	2.08561	24.73
161)	t	1,2,3-Trimethylbenz	1.610	1.264	1.247	2.032	2.068	2.129	2.247				1.79965	23.39
162)	T	p-Isopropyltoluene								1.402	1.237	1.197	1.79579	34.63
163)	t	o-Dichlorobenzene	0.631	0.486	0.420	0.773	0.812	0.834	0.939				0.69945	27.46
164)	T	Limonene								0.724	0.727	0.691	0.94127	28.72
165)	T	Indan								0.801	0.709	0.689	1.03439	38.19
166)	T	Indene								0.553	0.501	0.484	0.90363	52.60
167)	t	m-Diethylbenzene	1.731	1.408	1.019	1.578	1.477	1.589	1.617				1.48844	15.54
168)	t	p-Diethylbenzene	1.424	1.129	0.818	1.297	1.198	1.345	1.381				1.22752	16.94
169)	T	n-Butylbenzene								1.427	1.202	1.009	1.73340	32.97
170)	T	1-Undecene								0.819	0.905	0.850	0.86908	3.82
171)	T	n-Undecane								1.908	2.159	2.115	2.12773	4.90
172)	t	1,2,4-Trichlorobenz	0.799	0.758	0.864	0.762	0.590	0.584	0.927				0.75482	17.10
173)	T	Naphthalene								1.729	2.099	2.082	2.34807	16.91
174)	t	Hexachloro-1,3-buta	1.368	1.246	1.342	1.201	0.889	0.780	1.086				1.13022	19.87

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

RA110824.M Thu Aug 25 13:00:26 2011 DAH

Calibration Table Report

Method: RA110824.M

Title:

Last Calibration: Thu Aug 25 12:26:45 2011

Calibration Files

Compound	20	50	100	250	500	750	1000	20A	50A	100A	250A	500A	750A	999A	Avg	%RSD
	RA082414.	RA082415.	RA082416.	RA082417.	RA082418.	RA082419.	RA082420.	RA082405.	RA082406.	RA082407.	RA082408.	RA082409.	RA082410.	RA082411.D		
1,1-Dichloro-1-Fluoroethane	ISTD															
2-Bromo-1,1,1-trifluoroethane	0.409	0.404	0.403	0.400	0.405	0.419	0.436	0.402	0.405	0.402	0.402	0.401	0.413	0.422	0.40874	2.50
Ethylene	0.067	0.064	0.064	0.061	0.058	0.064	0.066								0.06344	4.66
Acetylene	0.141	0.116	0.112	0.109	0.111	0.117	0.123								0.11842	9.33
Ethane	0.051	0.044	0.040	0.031	0.029	0.026	0.027								0.03545	27.14
Halocarbon 134A								0.273	0.239	0.220	0.218	0.214	0.220	0.226	0.22989	8.93
Propylene	0.209	0.173	0.171	0.163	0.169	0.180	0.188								0.17898	8.66
Chlorodifluoromethane								0.641	0.552	0.511	0.500	0.487	0.495	0.502	0.52705	10.38
Propane	0.102	0.079	0.078	0.075	0.076	0.080	0.085					0.487			0.08221	11.54
Dichlorodifluoromethane	1.306	1.013	1.018	0.955	0.932	0.957	0.967								1.02109	12.67
Chloromethane	0.307	0.245	0.237	0.232	0.231	0.246	0.256								0.25071	10.43
Isobutane	0.632	0.501	0.500	0.479	0.484	0.509	0.529								0.51901	10.10
Halocarbon 114	1.165	0.935	0.881	0.835	0.820	0.845	0.866								0.90670	13.23
Acetaldehyde								0.127	0.108	0.119	0.109	0.108	0.111	0.113	0.11350	6.31
Vinyl chloride	0.352	0.274	0.268	0.262	0.265	0.283	0.293								0.28535	10.98
1-Butene/Isobutene	0.441	0.362	0.347	0.338	0.341	0.359	0.371								0.36555	9.63
1,3-Butadiene	0.278	0.227	0.220	0.214	0.214	0.221	0.227								0.22854	9.78
n-Butane	0.559	0.457	0.430	0.416	0.417	0.435	0.453								0.45244	10.98
Methanol					0.417			0.084	0.066	0.057	0.051	0.048	0.049	0.048	0.05760	23.12
trans-2-Butene	0.415	0.340	0.323	0.311	0.313	0.329	0.338								0.33847	10.45
Neopentane								1.061	0.932	0.863	0.863	0.843	0.870	0.889	0.90304	8.30
Dichlorofluoromethane								0.776	0.702	0.644	0.629	0.610	0.616	0.620	0.65682	9.29
Bromomethane	0.327	0.264	0.250	0.240	0.243	0.254	0.262								0.26279	11.23
cis-2-Butene	0.410	0.335	0.322	0.308	0.313	0.324	0.336								0.33533	10.31
Chloroethane	0.190	0.151	0.142	0.136	0.138	0.147	0.153								0.15086	12.07
Vinyl bromide								0.299	0.271	0.254	0.249	0.246	0.251	0.257	0.26098	7.03
3-Methyl-1-butene	0.840	0.660	0.622	0.609	0.604	0.624	0.641								0.65714	12.58
Ethanol								0.119	0.079	0.118	0.091	0.083	0.082	0.075	0.09257	19.91
Acetonitrile								0.232	0.218	0.208	0.208	0.207	0.213	0.215	0.21444	3.98
Acrolein								0.102	0.094	0.096	0.093	0.093	0.099	0.100	0.09670	3.55
Isopentane	0.434	0.347	0.330	0.308	0.301	0.322	0.328								0.33859	13.16
Trichlorofluoromethane	1.219	0.990	0.925	0.857	0.832	0.828	0.815								0.92391	15.66
1-Pentene	0.457	0.370	0.344	0.334	0.334	0.344	0.348								0.36147	12.10
Acetone								0.626	0.554	0.521	0.501	0.485	0.492	0.494	0.52482	9.62
2-Propanol								0.526	0.442	0.403	0.377	0.379	0.348	0.299	0.39617	18.31
Acrylonitrile								0.194	0.170	0.173	0.171	0.170	0.172	0.178	0.17524	4.85
n-Pentane	0.616	0.495	0.466	0.449	0.441	0.451	0.455								0.48193	12.79
Diethyl ether								0.137	0.120	0.115	0.117	0.114	0.116	0.118	0.11951	6.80
Isoprene	0.410	0.327	0.305	0.302	0.301	0.315	0.323								0.32632	11.79
trans-2-Pentene	0.678	0.553	0.521	0.512	0.508	0.525	0.535								0.54743	10.87
1,1-Dichloroethene	0.671	0.539	0.514	0.488	0.481	0.486	0.488								0.52371	13.02
cis-2-Pentene	0.653	0.558	0.521	0.508	0.503	0.522	0.530								0.54209	9.57
Methylene chloride	0.444	0.367	0.344	0.326	0.321	0.327	0.329								0.35114	12.56
2-Methyl-2-butene	0.679	0.564	0.526	0.519	0.515	0.532	0.538								0.55322	10.44
Carbon Disulfide								0.934	0.847	0.781	0.775	0.749	0.766	0.773	0.80356	8.09
3-Chloropropene	0.379	0.336	0.312	0.305	0.301	0.309	0.312								0.32217	8.52
Halocarbon 113	0.475	0.384	0.357	0.338	0.329	0.333	0.336								0.36445	14.42
Neohexane	0.501	0.415	0.388	0.366	0.359	0.370	0.372								0.39594	12.63
Cyclopentene	0.754	0.611	0.587	0.564	0.562	0.582	0.581								0.60595	11.12
trans-1,2-Dichloroethene	0.552	0.452	0.419	0.402	0.391	0.399	0.481								0.44222	13.14
4-Methyl-1-pentene	0.507	0.414	0.383	0.371	0.368	0.373	0.459								0.41051	13.03
1-Propanol								0.047	0.046	0.039	0.035	0.037	0.033	0.028	0.03770	18.18
1,1-Dichloroethane	0.771	0.634	0.591	0.567	0.571	0.585	0.595								0.61623	11.65
Cyclopentane	0.636	0.529	0.513	0.488	0.492	0.508	0.525								0.52737	9.57
2,3-Dimethylbutane	0.879	0.710	0.663	0.645	0.645	0.676	0.696								0.70206	11.63
Methyl tert-butyl ether	1.004	0.858	0.828	0.807	0.816	0.855	0.886								0.86488	7.75
Isohexane	0.453	0.359	0.340	0.328	0.326	0.343	0.355								0.35800	12.25

	Vinyl acetate								0.902	0.815	0.801	0.828	0.795	0.844	0.863	0.83538	4.53
	cis-4-Methyl-2-pentene								0.603	0.559	0.523	0.519	0.515	0.527	0.541	0.54093	5.79
	trans-4-Methyl-2-pentene								0.723	0.630	0.603	0.600	0.592	0.611	0.621	0.62581	7.12
	Butyraldehyde								0.055	0.050	0.048	0.049	0.049	0.051	0.052	0.05054	4.99
	2-Butanone								0.684	0.636	0.633	0.624	0.605	0.635	0.643	0.63716	3.78
	Chloroprene	0.721	0.597	0.556	0.570	0.572	0.584	0.585								0.59799	9.30
	3-Methylpentane	0.723	0.592	0.566	0.544	0.547	0.574	0.596								0.59181	10.32
	Fluorobenzene	0.902	0.917	0.910	0.970	1.046	1.117	1.173	0.865	0.868	0.882	0.921	0.947	1.034	1.065	0.97267	10.07
	2-Methyl-1-pentene	0.594	0.521	0.537	0.508	0.501	0.516	0.558								0.53365	6.12
	1-Hexene	0.435	0.328	0.341	0.329	0.310	0.330	0.311								0.34077	12.65
	cis-1,2-Dichloroethene	0.577	0.466	0.447	0.443	0.441	0.458	0.465								0.47086	10.18
	Bromochloromethane	0.265	0.214	0.204	0.198	0.197	0.206	0.212								0.21387	11.06
	2-Ethyl-1-butene								0.358	0.323	0.315	0.314	0.318	0.331	0.340	0.32848	4.95
	n-Hexane	0.558	0.467	0.457	0.451	0.464	0.488	0.509								0.48467	7.80
	Chloroform	0.947	0.778	0.712	0.703	0.702	0.722	0.721								0.75514	11.71
	cis-3-Hexene								0.440	0.405	0.387	0.390	0.393	0.416	0.427	0.40823	4.91
	trans-2-Hexene	0.670	0.590	0.553	0.565	0.581	0.609	0.629								0.59974	6.74
	2-Methyl-2-pentene								0.587	0.544	0.511	0.514	0.508	0.523	0.528	0.53084	5.18
	cis-3-Methyl-2-pentene								0.440	0.386	0.374	0.376	0.374	0.386	0.395	0.39021	5.94
	cis-2-Hexene	0.574	0.505	0.492	0.494	0.512	0.545	0.558								0.52570	6.23
	Methylcyclopentane	0.706	0.610	0.579	0.564	0.581	0.610	0.633								0.61201	7.81
	1,2-Dichloroethane	0.726	0.631	0.561	0.575	0.572	0.583	0.570								0.60260	9.80
	2,4-Dimethylpentane	0.842	0.693	0.667	0.637	0.653	0.674	0.690								0.69380	9.87
	1,1,1-Trichloroethane	1.037	0.854	0.816	0.778	0.772	0.783	0.787								0.83238	11.37
	Chlorobenzene-d5	ISTD	0.439	0.383	0.499	0.606	0.607	0.756								0.54399	22.78
	Methylcyclopentene								2.163	2.012	1.889	1.821	1.727	1.615	1.580	1.82949	11.52
	Benzene	2.236	1.814	1.749	1.623	1.461	1.412	1.387								1.66879	17.97
	Carbon tetrachloride	2.843	2.210	2.159	1.856	1.558	1.421	1.332								1.91116	28.03
	1-Butanol								0.577	0.534	0.527	0.502	0.471			0.52203	7.50
	Cyclohexane	1.631	1.345	1.278	1.092	0.968	0.909	0.897								1.16016	23.44
	Isoheptane	2.364	1.935	1.894	1.665	1.418	1.338	1.318								1.70453	22.61
	2,3-Dimethylpentane	2.065	1.639	1.570	1.368	1.199	1.135	1.109								1.44071	23.91
	Cyclohexene								1.523	1.387	1.263	1.210	1.140	1.046	1.030	1.22838	14.63
	3-Methylhexane	1.897	1.517	1.482	1.309	1.150	1.073	1.038								1.35235	22.60
	1,2-Dichloropropane	0.881	0.704	0.674	0.638	0.576	0.566	0.554								0.65615	17.44
	Bromodichloromethane	2.210	1.844	1.709	1.604	1.426	1.354	1.278								1.63194	19.86
	Trichloroethene	0.943	0.750	0.696	0.686	0.624	0.599	0.565								0.69490	18.18
	1,4-Dioxane								0.473	0.339	0.258	0.201	0.202	0.214	0.208	0.27088	37.67
	1-Heptene								0.739	0.693	0.661	0.649	0.614	0.574	0.563	0.64193	9.86
	2,2,4-Trimethylpentane	5.598	4.471	4.303	3.782	3.269	3.091	2.998								3.93026	23.80
	2-Chloropentane	1.183	1.016	1.010	0.962	0.881	0.849	0.835								0.96244	12.70
	trans-3-Heptene								1.298	1.161	1.112	1.095	1.045	0.976	0.942	1.08986	10.99
	n-Heptane	0.870	0.695	0.712	0.644	0.588	0.571	0.562								0.66317	16.36
	cis-3-Heptene								1.295	1.237	1.172	1.132	1.076	0.994	0.964	1.12432	10.83
	trans-2-Heptene								1.035	1.017	0.964	0.955	0.938	0.885	0.873	0.95250	6.39
	2,4,4-Trimethyl-1-pentene								3.255	3.010	2.719	2.564	2.405	2.188	2.124	2.60919	16.01
	cis-1,3-Dichloropropene	1.02	0.868	0.775	0.856	0.815	0.811	0.76								0.84361	10.32
	Methylisobutylketone								2.053	1.756	1.605	1.6	1.544	1.447	1.410	1.63046	13.38
	Methylcyclohexane	1.749	1.441	1.425	1.234	1.072	1.021	1								1.27726	21.62
	2,4,4-Trimethyl-2-pentene								2.494	2.291	2.084	1.964	1.829	1.646	1.568	1.98242	16.93
	2,5-Dimethylhexane								2.421	2.187	1.954	1.824	1.732	1.575	1.528	1.88878	17.20
	2,2,3-Trimethylpentane								4.113	3.758	3.345	3.175	2.943	2.667	2.581	3.22586	17.42
	trans-1,3-Dichloropropene	0.916	0.787	0.718	0.787	0.751	0.75	0.694								0.77188	9.33
	1,1,2-Trichloroethane	0.627	0.554	0.509	0.492	0.469	0.467	0.455								0.51043	11.99
	2,3,4-Trimethylpentane	3.252	2.534	2.465	2.174	1.885	1.774	1.704								2.25554	24.24
	Toluene-d8	1.754	1.772	1.806	1.78	1.746	1.725	1.737	1.706	1.751	1.722	1.773	1.795	1.754	1.747	1.75488	1.60
	Toluene	1.848	1.543	1.498	1.475	1.405	1.404	1.382								1.50795	10.67
	1,4-Dichlorobutane	0.137	0.141	0.141	0.143	0.142	0.156	0.146	0.141	0.142	0.143	0.139	0.14	0.136	0.136	0.14162	3.56
	2-Hexanone								1.427	1.301	0.983	0.977	0.936	0.924	0.929	1.06823	19.35
	2-Methylheptane	2.186	1.798	1.794	1.534	1.407	1.314	1.27								1.61479	20.39
	1-Methylcyclohexene								1.37	1.323	1.234	1.228	1.184	1.093	1.076	1.21557	8.98
	Dibromochloromethane	1.157	0.99	0.927	0.888	0.827	0.808	0.761								0.90835	14.74
	3-Methylheptane	1.213	1.019	1.004	0.898	0.807	0.773	0.765								0.92558	17.74
	Hexanal								0.205	0.182	0.151	0.155	0.158	0.156	0.160	0.16680	11.88
	1,2-Dibromoethane	0.899	0.741	0.61	0.672	0.627	0.626	0.574								0.67832	16.36
	2,2,5-Trimethylhexane								4.899	4.543	4.097	3.878	3.6	3.267	3.137	3.91739	16.55
	1-Octene								0.789	0.727	0.721	0.723	0.716	0.677	0.670	0.71769	5.43

	n-Octane	1.787	1.587	1.606	1.503	1.394	1.346	1.306								1.50414	11.31
	Tetrachloroethene	0.711	0.596	0.55	0.536	0.511	0.508	0.496								0.55828	13.47
	cis-2-Octene								0.999	0.915	0.923	0.952	0.954	0.908	0.900	0.93602	3.72
	Chlorobenzene	0.941	0.827	0.774	0.763	0.741	0.751	0.728								0.78928	9.40
	Ethylbenzene	1.633	1.462	1.548	1.521	1.493	1.521	1.483								1.52283	3.69
	m/p-Xylene	1.482	1.327	1.349	1.31	1.273	1.277	1.233								1.32164	6.09
	Bromoform	0.698	0.591	0.562	0.534	0.504	0.499	0.47								0.55126	13.84
	Butyl acrylate								1.204	1.309	1.281	0.93	0.996	1.175	1.243	1.16271	12.44
	Heptanal								0.288	0.294	0.278	0.232	0.241	0.266	0.279	0.26820	8.70
	Styrene	0.691	0.594	0.608	0.613	0.613	0.634	0.619								0.62459	5.08
	1,1,2,2-Tetrachloroethane	1.043	0.841	0.833	0.815	1.047	1.067	1.1								0.96387	13.18
	o-Xylene	1.541	1.377	1.407	1.355	1.303	1.294	1.235								1.35868	7.27
	1-Nonene								0.56	0.561	0.564	0.597	0.609	0.591	0.606	0.58383	3.73
	cis-4-Nonene								1.194	1.173	1.13	1.209	1.197	1.153	1.162	1.17405	2.40
	trans-4-Nonene								1.213	1.155	1.089	1.158	1.179	1.038	1.052	1.12632	5.93
	n-Nonane	1.405	1.29	1.361	1.277	1.228	1.209	1.147								1.27385	6.97
	1,4-Bromofluorobenzene	0.668	0.666	0.68	0.655	0.648	0.67	0.642	0.662	0.663	0.656	0.672	0.648	0.638	0.636	0.65748	2.07
	Isopropylbenzene	2.304	2.088	2.159	2.077	2.039	2.082	1.955								2.10060	5.17
	Benzaldehyde								0.566	0.626	0.479	0.39	0.555	0.574	0.580	0.53865	14.59
	alpha-Pinene	3.159	2.653	2.645	2.355	2.05	1.944	1.879								2.38357	19.55
	o/m-Chlorotoluene								1.027	0.939	0.902	0.944	0.916	0.895	0.931	0.93606	4.69
	p-Chlorotoluene								0.907	0.834	0.818	0.843	0.822	0.813	0.856	0.84188	3.83
	n-Propylbenzene	1.944	1.671	1.791	1.749	2.005	2.443	2.234								1.97675	14.09
	m-Ethyltoluene	1.453	1.254	1.316	1.331	1.82	2.041	2.073								1.61273	22.07
	p-Ethyltoluene	1.283	1.147	1.196	1.189	1.648	1.879	1.893								1.46195	22.87
	1,3,5-Trimethylbenzene	1.57	1.376	1.389	1.477	1.978	2.015	2.111								1.70224	18.80
	o-Ethyltoluene	1.619	1.469	1.519	1.607	2.248	2.314	2.439								1.88778	22.44
	beta-Pinene	3.027	2.576	2.612	2.372	2.128	2.045	1.952								2.38765	15.94
	1,2,4-Trimethylbenzene	1.313	1.121	1.129	1.403	1.858	1.901	2.038								1.53773	25.09
	tert-Butylbenzene								1.983	1.896	1.885	1.914	2.007	2.068	2.164	1.98826	5.13
	1-Decene								0.428	0.391	0.386	0.416	0.635	0.678	0.712	0.52108	28.11
	Benzyl chloride	0.788	0.555	0.454	1.019	1.038	1.141	1.261								0.89379	33.94
	m-Dichlorobenzene	0.561	0.464	0.46	0.534	0.783	0.784	0.867								0.63605	26.72
	n-Decane	1.761	1.381	1.172	1.664	1.591	1.587	1.612								1.53827	12.87
	p-Dichlorobenzene	0.515	0.432	0.42	0.557	0.763	0.754	0.829								0.61008	27.77
	Isobutylbenzene								1.732	1.654	1.623	1.748	2.351	2.665	2.828	2.08561	24.73
	1,2,3-Trimethylbenzene	1.61	1.264	1.247	2.032	2.068	2.129	2.247								1.79965	23.39
	p-Isopropyltoluene								1.402	1.237	1.197	1.365	2.459	2.446	2.464	1.79579	34.63
	o-Dichlorobenzene	0.631	0.486	0.42	0.773	0.812	0.834	0.939								0.69945	27.46
	Limonene								0.724	0.727	0.691	0.762	1.179	1.236	1.269	0.94127	28.72
	Indan								0.801	0.709	0.689	0.721	1.25	1.462	1.608	1.03439	38.19
	Indene								0.553	0.501	0.484	0.556	1.378	1.409	1.445	0.90363	52.60
	m-Diethylbenzene	1.731	1.408	1.019	1.578	1.477	1.589	1.617								1.48844	15.54
	p-Diethylbenzene	1.424	1.129	0.818	1.297	1.198	1.345	1.381								1.22752	16.94
	n-Butylbenzene								1.427	1.202	1.009	1.55	2.394	2.273	2.278	1.73340	32.97
	1-Undecene								0.819	0.905	0.85	0.888	0.906	0.842	0.874	0.86908	3.82
	n-Undecane								1.908	2.159	2.115	2.199	2.22	2.118	2.174	2.12773	4.90
	1,2,4-Trichlorobenzene	0.799	0.758	0.864	0.762	0.59	0.584	0.927								0.75482	17.10
	Naphthalene								1.729	2.099	2.082	2.369	2.757	2.615	2.785	2.34807	16.91
	Hexachloro-1,3-butadiene	1.368	1.246	1.342	1.201	0.889	0.78	1.086					2.757			1.13022	19.87
						0.329								8-25-11			
	Thu Aug 25 13:02:17 2011					8-25-11											

Compound List Report GCMS-R1

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
Total Cpnds : 174

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,1-Dichloro-1-Fluoroethane	81	11.63	1.000	A	3	A	B
2	S	2-Bromo-1,1,1-trifluoroethane	83	10.49	0.902	A	3	A	B
3	T	Ethylene	26	3.43	0.295	A	3	A	B
4	T	Acetylene	26	3.54	0.304	A	3	A	B
5	T	Ethane	26	3.62	0.312	A	2	A	B
6	T	Halocarbon 134A	69	4.42	0.380	A	3	A	B
7	T	Propylene	41	5.21	0.448	A	3	A	B
8	T	Chlorodifluoromethane	51	5.56	0.479	A	3	A	B
9	T	Propane	43	5.36	0.461	A	3	A	B
10	T	Dichlorodifluoromethane	85	5.88	0.505	A	3	A	B
11	T	Chloromethane	50	6.72	0.578	A	3	A	B
12	T	Isobutane	43	7.37	0.634	A	3	A	B
13	T	Halocarbon 114	85	7.58	0.652	A	3	A	B
14	T	Acetaldehyde	44	7.54	0.648	A	3	A	B
15	T	Vinyl chloride	62	7.81	0.672	A	3	A	B
16	T	1-Butene/Isobutene	41	8.25	0.709	A	3	A	B
17	T	1,3-Butadiene	39	8.36	0.719	A	3	A	B
18	T	n-Butane	43	8.51	0.732	A	3	A	B
19	T	Methanol	31	8.31	0.714	A	1	A	B
20	T	trans-2-Butene	41	8.89	0.765	A	3	A	B
21	T	Neopentane	57	8.93	0.768	A	3	A	B
22	T	Dichlorofluoromethane	67	10.18	0.875	A	3	A	B
23	T	Bromomethane	94	9.05	0.778	A	3	A	B
24	T	cis-2-Butene	41	9.37	0.806	A	3	A	B
25	T	Chloroethane	64	9.64	0.829	A	3	A	B
26	T	Vinyl bromide	106	10.41	0.896	A	3	A	B
27	T	3-Methyl-1-butene	55	10.45	0.899	A	3	A	B
28	T	Ethanol	45	10.46	0.900	A	2	A	B
29	T	Acetonitrile	41	10.61	0.912	A	3	A	B
30	T	Acrolein	56	10.84	0.932	A	3	A	B
31	T	Isopentane	41	11.08	0.953	A	3	A	B
32	T	Trichlorofluoromethane	101	11.35	0.976	A	3	A	B
33	T	1-Pentene	42	11.66	1.003	A	3	A	B
34	T	Acetone	43	11.13	0.958	A	2	A	B
35	T	2-Propanol	45	11.88	1.022	A	3	A	B
36	T	Acrylonitrile	52	12.06	1.038	A	3	A	B
37	T	n-Pentane	43	12.08	1.039	A	3	A	B
38	T	Diethyl ether	74	12.25	1.054	A	3	A	B
39	T	Isoprene	67	12.26	1.054	A	3	A	B
40	T	trans-2-Pentene	55	12.41	1.068	A	3	A	B
41	T	1,1-Dichloroethene	61	12.50	1.075	A	3	A	B
42	T	cis-2-Pentene	55	12.71	1.093	A	3	A	B
43	T	Methylene chloride	49	12.83	1.104	A	3	A	B
44	T	2-Methyl-2-butene	55	12.90	1.109	A	3	A	B
45	T	Carbon Disulfide	76	12.92	1.112	A	1	A	B
46	T	3-Chloropropene	41	13.00	1.118	A	2	A	B
47	T	Halocarbon 113	151	13.30	1.144	A	3	A	B
48	T	Neohexane	43	13.46	1.158	A	3	A	B
49	T	Cyclopentene	67	14.17	1.218	A	3	A	B
50	T	trans-1,2-Dichloroethene	61	14.33	1.233	A	3	A	B
51	T	4-Methyl-1-pentene	43	14.37	1.236	A	3	A	B
52	T	1-Propanol	59	14.31	1.231	A	3	A	B
53	T	1,1-Dichloroethane	63	14.62	1.258	A	3	A	B
54	T	Cyclopentane	42	14.61	1.257	A	3	A	B
55	T	2,3-Dimethylbutane	43	14.72	1.266	A	3	A	B
56	T	Methyl tert-butyl ether	73	14.80	1.273	A	3	A	B
57	T	Isohexane	42	14.93	1.284	A	3	A	B
58	T	Vinyl acetate	43	15.03	1.292	A	2	A	B
59	T	cis-4-Methyl-2-pentene	69	14.86	1.279	A	3	A	B
60	T	trans-4-Methyl-2-pentene	69	14.99	1.290	A	3	A	B
61	T	Butyraldehyde	72	15.09	1.298	A	3	A	B
62	T	2-Butanone	43	15.31	1.317	A	3	A	B
63	T	Chloroprene	53	15.50	1.333	A	3	A	B
64	T	3-Methylpentane	57	15.53	1.336	A	3	A	B
65	S	Fluorobenzene	96	18.99	1.634	A	2	A	B

66		T	2-Methyl-1-pentene	56	15.76	1.355	A	3	A	B
67		T	1-Hexene	41	15.80	1.359	A	3	A	B
68		T	cis-1,2-Dichloroethene	61	15.93	1.370	A	3	A	B
69		T	Bromochloromethane	130	16.16	1.390	A	3	A	B
70		T	2-Ethyl-1-butene	69	16.25	1.398	A	3	A	B
71		T	n-Hexane	57	16.29	1.401	A	3	A	B
72		T	Chloroform	83	16.40	1.411	A	3	A	B
73		T	cis-3-Hexene	55	16.43	1.413	A	3	A	B
74		T	trans-2-Hexene	55	16.51	1.420	A	3	A	B
75		T	2-Methyl-2-pentene	41	16.60	1.428	A	3	A	B
76		T	cis-3-Methyl-2-pentene	69	16.72	1.438	A	3	A	B
77		T	cis-2-Hexene	55	16.91	1.454	A	3	A	B
78		T	Methylcyclopentane	56	17.43	1.499	A	3	A	B
79		T	1,2-Dichloroethane	62	17.45	1.501	A	3	A	B
80		T	2,4-Dimethylpentane	43	17.61	1.515	A	3	A	B
81		T	1,1,1-Trichloroethane	97	17.79	1.531	A	3	A	B
82	I		Chlorobenzene-d5	117	26.16	1.000	A	3	A	B
83		T	Methylcyclopentene	67	18.43	0.705	A	3	A	B
84		T	Benzene	78	18.48	0.706	A	3	A	B
85		T	Carbon tetrachloride	117	18.70	0.715	A	3	A	B
86		T	1-Butanol	56	18.66	0.713	A	3	A	B
87		T	Cyclohexane	56	18.87	0.721	A	3	A	B
88		T	Isoheptane	43	19.27	0.737	A	3	A	B
89		T	2,3-Dimethylpentane	56	19.34	0.739	A	3	A	B
90		T	Cyclohexene	67	19.57	0.748	A	3	A	B
91		T	3-Methylhexane	43	19.65	0.751	A	3	A	B
92		T	1,2-Dichloropropane	63	19.75	0.755	A	3	A	B
93		T	Bromodichloromethane	83	20.07	0.767	A	3	A	B
94		T	Trichloroethene	130	20.14	0.770	A	3	A	B
95		T	1,4-Dioxane	88	20.16	0.771	A	3	A	B
96		T	1-Heptene	55	20.19	0.772	A	3	A	B
97		T	2,2,4-Trimethylpentane	57	20.22	0.773	A	3	A	B
98		T	2-Chloropentane	70	20.45	0.782	A	3	A	B
99		T	trans-3-Heptene	41	20.60	0.788	A	3	A	B
100		T	n-Heptane	71	20.70	0.791	A	3	A	B
101		T	cis-3-Heptene	41	20.74	0.793	A	3	A	B
102		T	trans-2-Heptene	55	20.89	0.799	A	3	A	B
103		T	2,4,4-Trimethyl-1-pentene	57	21.15	0.808	A	3	A	B
104		T	cis-1,3-Dichloropropene	75	21.54	0.823	A	3	A	B
105		T	Methylisobutylketone	43	21.63	0.827	A	3	A	B
106		T	Methylcyclohexane	83	21.61	0.826	A	3	A	B
107		T	2,4,4-Trimethyl-2-pentene	55	21.89	0.837	A	3	A	B
108		T	2,5-Dimethylhexane	57	22.08	0.844	A	3	A	B
109		T	2,2,3-Trimethylpentane	57	22.17	0.848	A	3	A	B
110		T	trans-1,3-Dichloropropene	75	22.41	0.857	A	3	A	B
111		T	1,1,2-Trichloroethane	97	22.65	0.866	A	3	A	B
112		T	2,3,4-Trimethylpentane	43	22.87	0.874	A	3	A	B
113		S	Toluene-d8	98	22.92	0.876	A	2	A	B
114		T	Toluene	91	23.09	0.883	A	3	A	B
115		S	1,4-Dichlorobutane	90	28.05	1.072	A	3	A	B
116		T	2-Hexanone	43	23.63	0.903	A	3	A	B
117		T	2-Methylheptane	43	23.53	0.899	A	3	A	B
118		T	1-Methylcyclohexene	81	23.53	0.900	A	3	A	B
119		T	Dibromochloromethane	129	23.77	0.909	A	3	A	B
120		T	3-Methylheptane	85	23.85	0.912	A	3	A	B
121		T	Hexanal	44	24.02	0.918	A	3	A	B
122		T	1,2-Dibromoethane	107	24.17	0.924	A	3	A	B
123		T	2,2,5-Trimethylhexane	57	24.29	0.929	A	3	A	B
124		T	1-Octene	55	24.45	0.935	A	3	A	B
125		T	n-Octane	43	24.92	0.953	A	3	A	B
126		T	Tetrachloroethene	164	25.02	0.957	A	3	A	B
127		T	cis-2-Octene	55	25.40	0.971	A	3	A	B
128		T	Chlorobenzene	112	26.23	1.003	A	3	A	B
129		T	Ethylbenzene	91	26.98	1.031	A	3	A	B
130		T	m/p-Xylene	91	27.35	1.046	A	3	A	B
131		T	Bromoform	173	27.38	1.047	A	3	A	B
132		T	Butyl acrylate	55	27.95	1.069	A	3	A	B
133		T	Heptanal	70	28.09	1.074	A	3	A	B
134		T	Styrene	104	28.02	1.071	A	3	A	B
135		T	1,1,2,2-Tetrachloroethane	83	28.23	1.079	A	3	A	B
136		T	o-Xylene	91	28.23	1.079	A	3	A	B
137		T	1-Nonene	56	28.41	1.086	A	3	A	B
138		T	cis-4-Nonene	55	28.59	1.093	A	3	A	B
139		T	trans-4-Nonene	55	28.68	1.096	A	3	A	B

140	T	n-Nonane	43	28.84	1.103	A	3	A	B
141	S	1,4-Bromofluorobenzene	95	29.14	1.114	A	3	A	B
142	T	Isopropylbenzene	105	29.46	1.126	A	3	A	B
143	T	Benzaldehyde	77	30.16	1.153	A	3	A	B
144	T	alpha-Pinene	93	30.24	1.156	A	3	A	B
145	T	o/m-Chlorotoluene	91	30.42	1.163	A	3	A	B
146	T	p-Chlorotoluene	91	30.57	1.169	A	3	A	B
147	T	n-Propylbenzene	91	30.56	1.168	A	3	A	B
148	T	m-Ethyltoluene	105	30.81	1.178	A	3	A	B
149	T	p-Ethyltoluene	105	30.90	1.181	A	3	A	B
150	T	1,3,5-Trimethylbenzene	105	31.09	1.189	A	3	A	B
151	T	o-Ethyltoluene	105	31.49	1.204	A	3	A	B
152	T	beta-Pinene	93	31.77	1.214	A	3	A	B
153	T	1,2,4-Trimethylbenzene	105	32.02	1.224	A	3	A	B
154	T	tert-Butylbenzene	119	32.00	1.223	A	3	A	B
155	T	1-Decene	56	32.07	1.226	A	3	A	B
156	T	Benzyl chloride	91	32.30	1.235	A	3	A	B
157	T	m-Dichlorobenzene	146	32.30	1.235	A	3	A	B
158	T	n-Decane	57	32.48	1.242	A	3	A	B
159	T	p-Dichlorobenzene	146	32.48	1.242	A	3	A	B
160	T	Isobutylbenzene	91	32.57	1.245	A	3	A	B
161	T	1,2,3-Trimethylbenzene	105	33.04	1.263	A	3	A	B
162	T	p-Isopropyltoluene	119	33.11	1.266	A	3	A	B
163	T	o-Dichlorobenzene	146	33.30	1.273	A	3	A	B
164	T	Limonene	68	33.47	1.279	A	3	A	B
165	T	Indan	117	33.49	1.280	A	3	A	B
166	T	Indene	115	33.71	1.289	A	3	A	B
167	T	m-Diethylbenzene	105	33.92	1.297	A	3	A	B
168	T	p-Diethylbenzene	119	34.15	1.306	A	3	A	B
169	T	n-Butylbenzene	91	34.19	1.307	A	3	A	B
170	T	1-Undecene	55	35.47	1.356	A	3	A	B
171	T	n-Undecane	57	35.84	1.370	A	3	A	B
172	T	1,2,4-Trichlorobenzene	180	37.85	1.447	A	3	A	B
173	T	Naphthalene	128	38.04	1.454	A	3	A	B
174	T	Hexachloro-1,3-butadiene	225	38.81	1.484	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

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	Purity (102	0.01046		Purity (ext)	0.0106				
Compounc	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	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Acetylene	74-86-2	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Ethane	74-84-0	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Halocarbor	811-97-2	0.0106	20.4	51	102	255	510	765	1020
Propylene	115-07-1	0.01046	19.8	49.5	99	247.5	495	742.5	990
Chlorodiflu	75-45-6	0.0106	21	52.5	105	262.5	525	787.5	1050
Propane	74-98-6	0.01046	19.6	49	98	245	490	735	980
Dichlorodif	75-71-8	0.01046	19.8	49.5	99	247.5	495	742.5	990
Chlorometl	74-87-3	0.01046	20	50	100	250	500	750	1000
Isobutane	75-28-5	0.01046	19.6	49	98	245	490	735	980
Halocarbor	76-14-2	0.01046	19.6	49	98	245	490	735	980
Acetaldehy	75-07-0	0.0106	20.4	51	102	255	510	765	1020
Vinyl chlori	75-01-4	0.01046	19.8	49.5	99	247.5	495	742.5	990
1-Butene/I:	106-98-9	0.01046	19.4	48.5	97	242.5	485	727.5	970
1,3-Butadie	106-99-0	0.01046	21	52.5	105	262.5	525	787.5	1050
n-Butane	106-97-8	0.01046	19.4	48.5	97	242.5	485	727.5	970
Methanol	67-56-1	0.0106	20.8	52	104	260	520	780	1040
trans-2-Bu	624-64-6	0.01046	19.4	48.5	97	242.5	485	727.5	970
Neopentan	463-82-1	0.0106	21	52.5	105	262.5	525	787.5	1050
Dichloroflu	75-43-4	0.0106	21.2	53	106	265	530	795	1060
Bromometl	74-83-9	0.01046	19.8	49.5	99	247.5	495	742.5	990
cis-2-Buter	590-18-1	0.01046	20.8	52	104	260	520	780	1040
Chloroetha	75-00-3	0.01046	19.8	49.5	99	247.5	495	742.5	990
Vinyl Brom	593-60-2	0.0106	20.6	51.5	103	257.5	515	772.5	1030
3-Methyl-1	563-45-1	0.01046	21	52.5	105	262.5	525	787.5	1050
Ethanol	64-17-5	0.0106	20.4	51	102	255	510	765	1020
Acetonitrile	75-05-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Acrolein	107-02-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Isopentane	78-78-4	0.01046	19.8	49.5	99	247.5	495	742.5	990
Trichloroflu	75-69-4	0.01046	20.6	51.5	103	257.5	515	772.5	1030
1-Pentene	109-67-1	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Acetone	67-64-1	0.0106	22	55	110	275	550	825	1100
2-Propanol	67-63-0	0.0106	24	60	120	300	600	900	1200
Acrylonitrile	107-13-1	0.0106	21	52.5	105	262.5	525	787.5	1050
n-Pentane	109-66-0	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Diethyl eth	60-29-7	0.0106	20.4	51	102	255	510	765	1020
Isoprene	78-79-5	0.01046	20.4	51	102	255	510	765	1020
trans-2-Pe	646-04-8	0.01046	21	52.5	105	262.5	525	787.5	1050
1,1-Dichlor	75-35-4	0.01046	20.8	52	104	260	520	780	1040
cis-2-Pente	627-20-3	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Methylene	75-09-2	0.01046	20.4	51	102	255	510	765	1020
2-Methyl-2	513-35-9	0.01046	21.4	53.5	107	267.5	535	802.5	1070
Carbon Dis	75-15-0	0.0106	20.6	51.5	103	257.5	515	772.5	1030
3-Chloropr	107-05-1	0.01046	21.2	53	106	265	530	795	1060
Halocarbor	76-13-1	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Neohexane	75-83-2	0.01046	20.4	51	102	255	510	765	1020

Cyclopente	142-29-0	0.01046	19.8	49.5	99	247.5	495	742.5	990
trans-1,2-D	156-60-5	0.01046	20.8	52	104	260	520	780	1040
4-Methyl-1	691-37-2	0.01046	20.4	51	102	255	510	765	1020
1-Propanol	71-23-8	0.0106	24	60	120	300	600	900	1200
1,1-Dichlor	75-34-3	0.01046	21.2	53	106	265	530	795	1060
Cyclopenta	287-92-3	0.01046	20.4	51	102	255	510	765	1020
2,3-Dimeth	79-29-8	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Methyl tert	1634-04-4	0.01046	20.4	51	102	255	510	765	1020
Isohexane	107-83-5	0.01046	20.8	52	104	260	520	780	1040
Vinyl Aceta	108-05-4	0.0106	22	55	110	275	550	825	1100
cis-4-Meth	691-38-3	0.0106	20.8	52	104	260	520	780	1040
trans-4-Me	674-76-0	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Butyraldeh	123-72-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
2-Butanon	78-93-3	0.0106	21.8	54.5	109	272.5	545	817.5	1090
Chloroprer	126-99-8	0.01046	20.2	50.5	101	252.5	505	757.5	1010
3-Methylpe	96-14-0	0.01046	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	0.01046	20.4	51	102	255	510	765	1020
1-Hexene	592-41-6	0.01046	20.2	50.5	101	252.5	505	757.5	1010
cis-1,2-Dic	156-59-2	0.01046	21	52.5	105	262.5	525	787.5	1050
Bromochlo	74-97-5	0.01046	20.4	51	102	255	510	765	1020
2-Ethyl-1-b	760-21-4	0.0106	20	50	100	250	500	750	1000
n-Hexane	110-54-3	0.01046	21.2	53	106	265	530	795	1060
Chloroform	67-66-3	0.01046	20.8	52	104	260	520	780	1040
cis-3-Hexe	7642-09-3	0.0106	20.6	51.5	103	257.5	515	772.5	1030
trans-2-He	4050-45-7	0.01046	21	52.5	105	262.5	525	787.5	1050
2-Methyl-2	625-27-4	0.0106	20.2	50.5	101	252.5	505	757.5	1010
cis-3-Meth	922-62-3	0.0106	21	52.5	105	262.5	525	787.5	1050
cis-2-Hexe	7688-21-3	0.01046	19.4	48.5	97	242.5	485	727.5	970
1,2-Dichlor	107-06-2	0.01046	21.2	53	106	265	530	795	1060
Methylcycl	96-37-7	0.01046	20.2	50.5	101	252.5	505	757.5	1010
2,4-Dimeth	108-08-7	0.01046	20.6	51.5	103	257.5	515	772.5	1030
1,1,1-Trich	71-55-6	0.01046	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	0.0106	22	55	110	275	550	825	1100
Benzene	71-43-2	0.01046	21.4	53.5	107	267.5	535	802.5	1070
1-Butanol	71-36-3	0.0106	19.4	48.5	97	242.5	485	727.5	970
Carbon tet	56-23-5	0.01046	21	52.5	105	262.5	525	787.5	1050
Cyclohexa	110-82-7	0.01046	21.2	53	106	265	530	795	1060
Isoheptane	31394-54-4	0.01046	20.6	51.5	103	257.5	515	772.5	1030
2,3-Dimeth	565-59-3	0.01046	20.4	51	102	255	510	765	1020
Cyclohexe	110-83-8	0.0106	20.2	50.5	101	252.5	505	757.5	1010
3-Methylhe	589-34-4	0.01046	20.4	51	102	255	510	765	1020
1,2-Dichlor	78-87-5	0.01046	21.2	53	106	265	530	795	1060
Bromodich	75-27-4	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Trichloroet	79-01-6	0.01046	20.2	50.5	101	252.5	505	757.5	1010
1,4-Dioxan	123-91-1	0.0106	20.8	52	104	260	520	780	1040
1-Heptene	592-76-7	0.0106	20	50	100	250	500	750	1000
2,2,4-Trim	540-84-1	0.01046	20.4	51	102	255	510	765	1020
2-Chlorope	625-29-6	0.01046	20.4	51	102	255	510	765	1020
trans-3-He	14686-14-7	0.0106	21.4	53.5	107	267.5	535	802.5	1070
n-Heptane	142-82-5	0.01046	20.6	51.5	103	257.5	515	772.5	1030

cis-3-Hept	7642-10-6	0.0106	21.4	53.5	107	267.5	535	802.5	1070	
trans-2-He	14686-13-	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
2,4,4-Trim	107-39-1	0.0106	20.4	51	102	255	510	765	1020	
cis-1,3-Dic	10061-01-	0.01046	20.8	52	104	260	520	780	1040	
Methylisob	108-10-1	0.0106	21.8	54.5	109	272.5	545	817.5	1090	
Methylcycl	108-87-2	0.01046	20.6	51.5	103	257.5	515	772.5	1030	
2,4,4-Trim	107-40-4	0.0106	20.2	50.5	101	252.5	505	757.5	1010	
2,5-Dimeth	592-13-2	0.0106	20.8	52	104	260	520	780	1040	
2,2,3-Trim	564-02-3	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
trans-1,3-D	10061-02-	0.01046	22	55	110	275	550	825	1100	
1,1,2-Trich	79-00-5	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
2,3,4-Trim	565-75-3	0.01046	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	0.01046	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	0.0106	21.4	53.5	107	257.5	535	802.5	1070	
2-Methylhe	592-27-8	0.01046	20.6	51.5	103	267.5	515	772.5	1030	
1-Methylcy	591-49-1	0.0106	21.4	53.5	107	267.5	535	802.5	1070	
Dibromoch	124-48-1	0.01046	20.8	52	104	260	520	780	1040	
3-Methylhe	589-81-1	0.01046	20.4	51	102	255	510	765	1020	
Hexanal	66-25-1	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
1,2-Dibrom	106-93-4	0.01046	21.6	54	108	270	540	810	1080	
2,2,5-Trim	3522-94-9	0.0106	21.8	54.5	109	272.5	545	817.5	1090	
1-Octene	111-66-0	0.0106	20	50	100	250	500	750	1000	
n-Octane	111-65-9	0.01046	20.6	51.5	103	257.5	515	772.5	1030	
Tetrachlor	127-18-4	0.01046	21.2	53	106	265	530	795	1060	
cis-2-Octe	7642-04-8	0.0106	21	52.5	105	262.5	525	787.5	1050	
Chloroben	108-90-7	0.01046	21.6	54	108	270	540	810	1080	
Ethylbenze	100-41-4	0.01046	21.6	54	108	270	540	810	1080	
m/p-Xylene	106-42-3	0.01046	42.4	106	212	530	1060	1590		2120
Bromoform	75-25-2	0.01046	21.2	53	106	265	530	795	1060	
Butyl Acryl	141-32-2	0.0106	22.8	57	114	285	570	855	1140	
Styrene	100-42-5	0.01046	21.8	54.5	109	272.5	545	817.5	1090	
Heptanal	111-71-7	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
1,1,2,2-Tet	79-34-5	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
o-Xylene	95-47-6	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
1-Nonene	124-11-8	0.0106	19.4	48.5	97	242.5	485	727.5	970	
cis-4-None	10405-84-	0.0106	22.8	57	114	285	570	855	1140	
trans-4-No	10405-85-	0.0106	19.2	48	96	240	480	720	960	
n-Nonane	111-84-2	0.01046	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	0.01046	19.8	49.5	99	247.5	495	742.5	990	
Benzaldeh	100-52-7	0.0106	20.8	52	104	260	520	780	1040	
alpha-Pine	80-56-8	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
o/m-Chlor	2/3-CT	0.0106	42.8	107	214	535	1070	1605		2140
p-Chlorotol	106-43-4	0.0106	21.6	54	108	270	540	810	1080	
n-Propylbe	103-65-1	0.01046	20	50	100	250	500	750	1000	
m-Ethyltol	620-14-4	0.01046	20	50	100	250	500	750	1000	
p-Ethyltolu	622-96-8	0.01046	20.2	50.5	101	252.5	505	757.5	1010	
1,3,5-Trim	108-67-8	0.01046	21.8	54.5	109	272.5	545	817.5	1090	
o-Ethyltolu	611-14-3	0.01046	19.8	49.5	99	247.5	495	742.5	990	
beta-Pinen	127-91-3	0.01046	15	37.5	75	187.5	375	562.5	750	

1,2,4-Trim	95-63-6	0.01046	21.8	54.5	109	272.5	545	817.5	1090
tert-Butylb	98-06-6	0.0106	21.4	53.5	107	267.5	535	802.5	1070
1-Decene	872-05-9	0.0106	21.4	53.5	107	267.5	535	802.5	1070
Benzyl chl	100-44-7	0.01046	21.8	54.5	109	272.5	545	817.5	1090
m-Dichloro	541-73-1	0.01046	21.8	54.5	109	272.5	545	817.5	1090
n-Decane	124-18-5	0.01046	20.6	51.5	103	257.5	515	772.5	1030
p-Dichlorol	106-46-7	0.01046	21.6	54	108	270	540	810	1080
Isobutylber	538-93-2	0.0106	22	55	110	275	550	825	1100
1,2,3-Trim	526-73-8	0.01046	19.6	49	98	245	490	735	980
p-Isopropy	99-87-6	0.0106	22	55	110	275	550	825	1100
o-Dichlorol	95-50-1	0.01046	21.6	54	108	270	540	810	1080
Limonene	138-86-3	0.0106	21	52.5	105	262.5	525	787.5	1050
Indan	496-11-7	0.0106	21	52.5	105	262.5	525	787.5	1050
Indene	95-13-6	0.0106	20.6	51.5	103	257.5	515	772.5	1030
m-Diethylb	141-93-5	0.01046	19.4	48.5	97	242.5	485	727.5	970
p-Diethylbe	105-05-5	0.01046	19.8	49.5	99	247.5	495	742.5	990
n-Butylben	104-51-8	0.0106	22.2	55.5	111	277.5	555	832.5	1110
1-Undecen	821-95-4	0.0106	20.8	52	104	260	520	780	1040

INSTRUMENT GCMS-R1 ANALYST / DATE: NOIL 8/24/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: 8/24/11 Batch ID: NA

DAILY CHECK ✓	INSERT: CHANGED (Y/N) N	SEPTA: CHANGED (Y/N) N	COLUMN: CHANGED (Y/N) N	AUTOSAMPLER MAINT. NA
M. PUMP OIL ✓	TURBO OIL NA	FILAMENT CHANGE NO	OTHER NA	
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: R110328.U Elect Mult. 1624 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: Entech

GC PROGRAM:

GC Meth. RA110612.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: NA

GC COLUMN:

Column ID#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID: 341359

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	WARMUP	RA1784	0.5	4	RA082401	0.01046	VOC-VSP-34-15
2	LCS	↓	↓	4	02	↓	↓
3	BLK	RA2153	↓	1	03	1.0	
4	PREFLUSH	RA1703	0.1	10	04	0.01060	VOC-VSP-34-5
5	EXT BLEND 20	↓	0.02	↓	05	↓	↓
6	50		0.05		06		
7	100		0.10		07		
8	250		0.25		08		
9	500	↓	0.5	↓	09	↓	↓

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Instrument Sequence (continued)

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	EXT BLEND 750	RA1703	0.75	10	RA082410	0.01860	VOC-VSP-34-5
11	1000		1.0		11		
12	MB1	RA2153	0.5	1	12	1.0	
13	PREFLUSH	RA1748	0.1	6	13	0.01046	VOC-VSP-34-18
14	102 BLEND 20		0.02		14		
15	50		0.05		15		
16	100		0.10		16		
17	250		0.25		17		
18	500		0.50		18		
19	750		0.75		19		
20	1000		1.0		20		
21	MB	RA2153	0.5	1	21	1.0	
22	ICV 102	AR1865		3	22	0.01043	VOC-VSP-34-17
23	LCS	RA1784		4	23	0.01046	VOC-VSP-34-15
24	EXT	RA1822		9	24	0.01034	VOC-VSP-34-7
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

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Sequence Name: C:\msdchem\1\sequence\R110824.S
Comment:
Operator: KDK
Data Path: C:\MSDCHEM\1\DATA\R110824\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

DMB 8/25/11

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

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

Line			Sample Name/Misc Info
1)	Sample	1	RA082401 RA110612 WARMUP
2)	Sample	1	RA082402 RA110612 LCS
3)	Sample	1	RA082403 RA110612 BLK
4)	Sample	1	RA082404 RA110612 PREFLUSH,,,,0.01060;EXT
5)	Sample	1	RA082405 RA110612 EXT BLEND 20,,,,0.01060;EXT
6)	Sample	1	RA082406 RA110612 EXT BLEND 50,,,,0.01060;EXT
7)	Sample	1	RA082407 RA110612 EXT BLEND 100,,,,0.01060;EXT
8)	Sample	1	RA082408 RA110612 EXT BLEND 250,,,,0.01060;EXT
9)	Sample	1	RA082409 RA110612 EXT BLEND 500,,,,0.01060;EXT
10)	Sample	1	RA082410 RA110612 EXT BLEND 750,,,,0.01060;EXT
11)	Sample	1	RA082411 RA110612 EXT BLEND 1000,,,,0.01060;EXT
12)	Sample	1	RA082412 RA110612 MB
13)	Sample	1	RA082413 RA110612 PREFLUSH,,,,0.01046;102
14)	Sample	1	RA082414 RA110612 102 BLEND 20,,,,0.01046;102
15)	Sample	1	RA082415 RA110612 102 BLEND 50,,,,0.01046;102
16)	Sample	1	RA082416 RA110612 102 BLEND 100,,,,0.01046;102
17)	Sample	1	RA082417 RA110612 102 BLEND 250,,,,0.01046;102
18)	Sample	1	RA082418 RA110612 102 BLEND 500,,,,0.01046;102
19)	Sample	1	RA082419 RA110612 102 BLEND 750,,,,0.01046;102
20)	Sample	1	RA082420 RA110612 102 BLEND 1000,,,,0.01046;102
21)	Sample	1	RA082421 RA110612 MB
22)	Sample	1	RA082422 RA110612 ICV 102,,,,0.01043;102
23)	Sample	1	RA082423 RA110612 ICV LCS,,,,;0.01046;LCS
24)	Sample	1	RA082424 RA110612 ICV EXT,,,,0.01034;EXT

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

Sequence Name: C:\Smart\R110824.SEQ
Date: 08-25-2011
Time: 13:11:16
Int. Std Volume: 200 cc

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
WARMUP	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
LCS	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
BLK	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
PREFLUSH	1	10	100	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 20	1	10	20	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 50	1	10	50	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 100	1	10	100	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 250	1	10	250	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 500	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 750	1	10	750	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 1000	1	10	1000	0	C:\Smart\C053011V2.MPT	12:00
BLK	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
PREFLUSH	1	6	100	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 20	1	6	20	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 50	1	6	50	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 100	1	6	100	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 250	1	6	250	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 500	1	6	500	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 750	1	6	750	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 1000	1	6	1000	0	C:\Smart\C053011V2.MPT	12:00
MB	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
ICV 102	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
ICV LCS	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
ICV EXT	1	9	500	0	C:\Smart\C053011V2.MPT	12:00

BFB

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :

Spectrum Information: Average of 29.110 to 29.160 min.

DAH 8-25-11

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	27.3	5192	PASS
75	95	30	66	63.0	11958	PASS
95	95	100	100	100.0	18993	PASS
96	95	5	9	6.7	1277	PASS
173	174	0.00	2	0.8	107	PASS
174	95	50	120	69.4	13178	PASS
175	174	4	9	7.0	929	PASS
176	174	93	101	95.2	12552	PASS
177	176	5	9	6.4	801	PASS

RA082405.D RA110612.M Thu Aug 25 11:52:28 2011 DAH

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:15 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	294731	2.0000 ppbV	0.01
82) Chlorobenzene-d5	26.16	117	106765	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	118502	1.9908 ppbV	0.02
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.01	96	254928	1.7355 ppbV	0.01
Spiked Amount 2.000			Recovery	= 87.00%	
113) Toluene-d8	22.92	98	182140	2.2409 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.00%	
115) 1,4-Dichlorobutane	28.06	90	15015	1.8799 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.00%	
141) 1,4-Bromofluorobenzene	29.14	95	70657	1.8631 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.44	69	8685	0.2821 ppbV	S	86
8) Chlorodifluoromethane	5.58	51	21043	0.2944 ppbV	S	98
14) Acetaldehyde	7.70	44	4055m	0.3048 ppbV	S	
19) Methanol	8.43	31	2727m	0.3874 ppbV	S	
21) Neopentane	8.95	57	34791	0.2838 ppbV	S	95
22) Dichlorofluoromethane	10.21	67	25705	0.2771 ppbV	S	95
26) Vinyl bromide	10.45	106	9607	0.2611 ppbV	S	83
28) Ethanol	10.54	45	3793m	0.3816 ppbV	S	
29) Acetonitrile	10.71	41	7450	0.2417 ppbV	S	82
30) Acrolein	10.93	56	3273	0.2383 ppbV #	S	34
34) Acetone	11.25	43	21517m	0.2922 ppbV	S	
35) 2-Propanol	11.97	45	19727m	0.3657 ppbV	S	
36) Acrylonitrile	12.13	52	6350	0.2532 ppbV #	S	1
38) Diethyl ether	12.30	74	4379	0.2604 ppbV #	S	1
45) Carbon Disulfide	12.95	76	30042	0.2592 ppbV	S	97
52) 1-Propanol	14.37	59	1768	0.3171 ppbV #	S	1
58) Vinyl acetate	15.07	43	30997	0.3054 ppbV #	S	48
59) cis-4-Methyl-2-pentene	14.88	69	19594	0.2916 ppbV #	S	95
60) trans-4-Methyl-2-pentene	15.02	69	23256	0.3042 ppbV	S	95
61) Butyraldehyde	15.15	72	1779	0.2673 ppbV #	S	1
62) 2-Butanone	15.38	43	23299	0.3112 ppbV #	S	1
70) 2-Ethyl-1-butene	16.27	69	11196	0.2669 ppbV #	S	69
73) cis-3-Hexene	16.45	55	14143	0.2538 ppbV	S	85
75) 2-Methyl-2-pentene	16.62	41	18514	0.2553 ppbV	S	92
76) cis-3-Methyl-2-pentene	16.74	69	14420	0.2787 ppbV	S	92
83) Methylcyclopentene	18.44	67	26925	0.4469 ppbV	S	88
86) 1-Butanol	18.70	56	6341	0.3589 ppbV	S	97
90) Cyclohexene	19.58	67	17409	0.4344 ppbV	S	84
95) 1,4-Dioxane	20.20	88	5569	0.5309 ppbV #	S	50
96) 1-Heptene	20.21	55	8362	0.3409 ppbV #	S	84
99) trans-3-Heptene	20.61	41	15723	0.3887 ppbV	S	82
101) cis-3-Heptene	20.75	41	15681	0.3716 ppbV #	S	14
102) trans-2-Heptene	20.90	55	12065	0.3233 ppbV #	S	62
103) 2,4,4-Trimethyl-1-pentene	21.16	57	37573	0.4451 ppbV	S	94
105) Methylisobutylketone	21.65	43	25323	0.4057 ppbV #	S	1

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:15 19111 Quant Results File: RA110612.RES

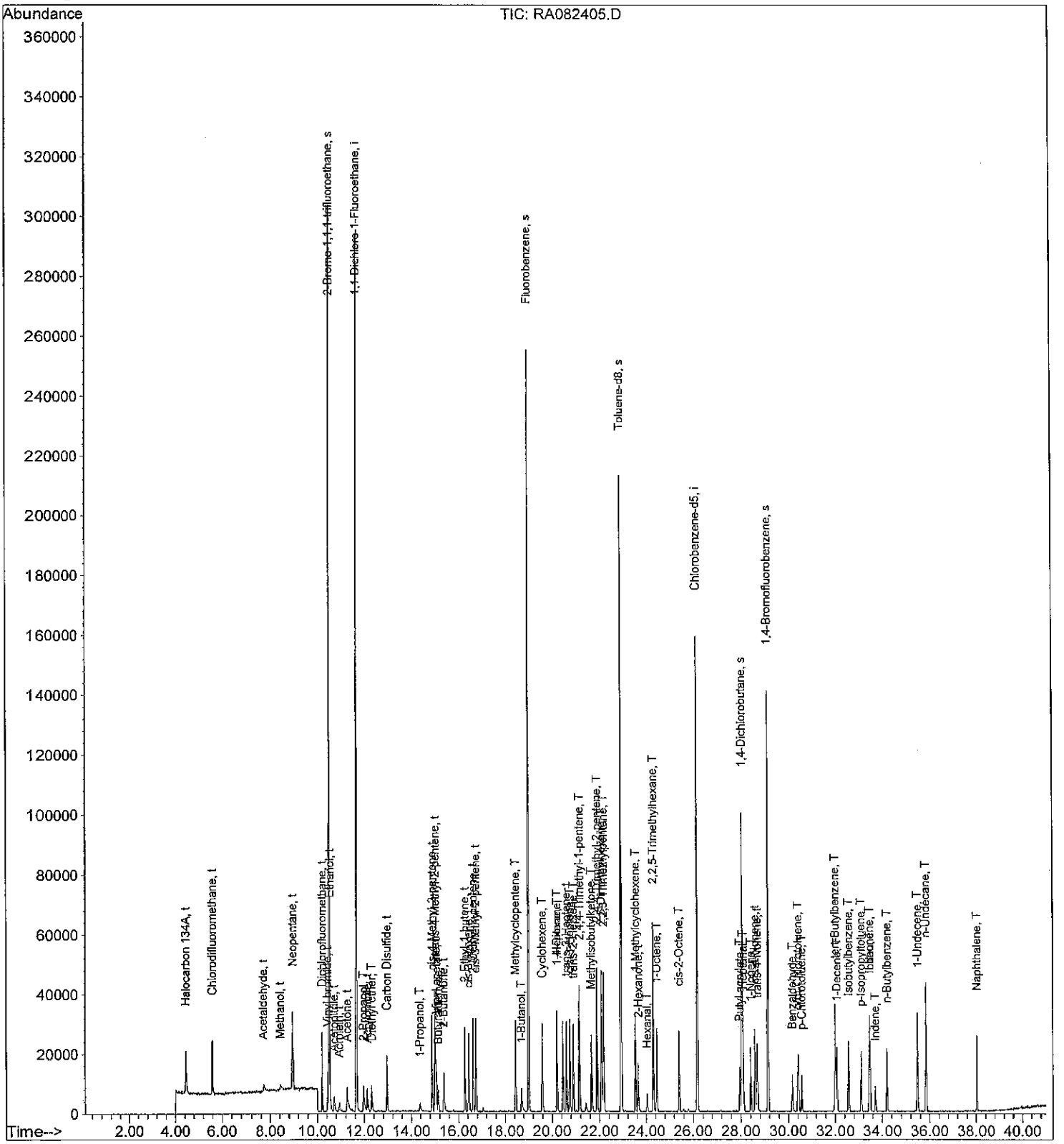
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107)	2,4,4-Trimethyl-2-pentene	21.90	55	28509	0.4310	ppbV		S	78
108)	2,5-Dimethylhexane	22.08	57	28492	0.4363	ppbV		S	91
109)	2,2,3-Trimethylpentane	22.17	57	47940	0.4377	ppbV	#	S	42
116)	2-Hexanone	23.65	43	17280	0.3535	ppbV	#	S	22
118)	1-Methylcyclohexene	23.54	81	16593	0.3760	ppbV		S	94
121)	Hexanal	24.03	44	2394	0.3240	ppbV	#	S	1
123)	2,2,5-Trimethylhexane	24.30	57	60437	0.4624	ppbV		S	95
124)	1-Octene	24.45	55	8931	0.2925	ppbV	#	S	1
127)	cis-2-Octene	25.41	55	11873	0.3017	ppbV		S	91
132)	Butyl acrylate	27.96	55	15537	0.3872	ppbV		S	87
133)	Heptanal	28.09	70	3354	0.3591	ppbV	#	S	22
137)	1-Nonene	28.42	56	6143	0.2232	ppbV		S	86
138)	cis-4-Nonene	28.59	55	15410	0.2703	ppbV	#	S	100
139)	trans-4-Nonene	28.68	55	13174	0.2387	ppbV		S	95
143)	Benzaldehyde	30.18	77	6664	0.5272	ppbV	#	S	36
145)	o/m-Chlorotoluene	30.43	91	24865	0.4909	ppbV	#	S	1
146)	p-Chlorotoluene	30.58	91	11080	0.2315	ppbV	#	S	37
154)	tert-Butylbenzene	32.01	119	24011	0.3163	ppbV	#	S	57
155)	1-Decene	32.07	56	5187	0.2448	ppbV	#	S	1
160)	Isobutylbenzene	32.57	91	21557	0.2722	ppbV	#	S	39
162)	p-Isopropyltoluene	33.11	119	17456	0.2902	ppbV	#	S	45
164)	Limonene	33.46	68	8605	0.2558	ppbV		S	87
165)	Indan	33.48	117	9520	0.2229	ppbV		S	80
166)	Indene	33.71	115	6444	0.2195	ppbV		S	84
169)	n-Butylbenzene	34.19	91	17931	0.3650	ppbV	#	S	1
170)	1-Undecene	35.49	55	9639	0.4241	ppbV	#	S	58
171)	n-Undecane	35.84	57	22003	0.3356	ppbV		S	73
173)	Naphthalene	38.04	128	21321	0.4004	ppbV		S	94

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:15 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082406.D Vial: 1
Acq On : 24 Aug 2011 2:34 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:18 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	285489	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	101888	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	115614	2.0051 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
65) Fluorobenzene	19.00	96	247729	1.7411 ppbV	0.00
Spiked Amount 2.000			Recovery	= 87.00%	
113) Toluene-d8	22.92	98	178420	2.3002 ppbV	0.00
Spiked Amount 2.000			Recovery	= 115.00%	
115) 1,4-Dichlorobutane	28.05	90	14499	1.9022 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.00%	
141) 1,4-Bromofluorobenzene	29.14	95	67579	1.8673 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.44	69	18460	0.6191 ppbV	S	81
8) Chlorodifluoromethane	5.58	51	43887	0.6338 ppbV	S	97
14) Acetaldehyde	7.66	44	8323m	0.6459 ppbV	S	
19) Methanol	8.39	31	5216m	0.7650 ppbV	S	
21) Neopentane	8.95	57	74072	0.6238 ppbV	S	98
22) Dichlorofluoromethane	10.20	67	56268	0.6263 ppbV	S	96
26) Vinyl bromide	10.43	106	21090	0.5918 ppbV	S	84
28) Ethanol	10.51	45	6070m	0.6304 ppbV	S	
29) Acetonitrile	10.68	41	16967m	0.5683 ppbV	S	
30) Acrolein	10.90	56	7333	0.5512 ppbV #	S	46
34) Acetone	11.21	43	46115m	0.6465 ppbV	S	
35) 2-Propanol	11.93	45	40109m	0.7675 ppbV	S	
36) Acrylonitrile	12.11	52	13509	0.5560 ppbV #	S	1
38) Diethyl ether	12.29	74	9235	0.5669 ppbV #	S	1
45) Carbon Disulfide	12.94	76	65987	0.5879 ppbV	S	98
52) 1-Propanol	14.35	59	4144	0.7673 ppbV #	S	1
58) Vinyl acetate	15.05	43	67839	0.6900 ppbV #	S	48
59) cis-4-Methyl-2-pentene	14.88	69	43977	0.6756 ppbV #	S	97
60) trans-4-Methyl-2-pentene	15.01	69	49084	0.6628 ppbV	S	96
61) Butyraldehyde	15.13	72	3899	0.6047 ppbV #	S	1
62) 2-Butanone	15.36	43	52447m	0.7231 ppbV	S	
70) 2-Ethyl-1-butene	16.27	69	24404	0.6007 ppbV #	S	73
73) cis-3-Hexene	16.44	55	31534	0.5842 ppbV	S	88
75) 2-Methyl-2-pentene	16.61	41	41587	0.5921 ppbV	S	94
76) cis-3-Methyl-2-pentene	16.74	69	30670	0.6121 ppbV	S	91
83) Methylcyclopentene	18.43	67	59748	1.0390 ppbV	S	91
86) 1-Butanol	18.68	56	13980	0.8291 ppbV	S	96
90) Cyclohexene	19.59	67	37827	0.9890 ppbV	S	89
95) 1,4-Dioxane	20.19	88	9521	0.9511 ppbV #	S	56
96) 1-Heptene	20.20	55	18711	0.7994 ppbV	S	92
99) trans-3-Heptene	20.61	41	33550	0.8691 ppbV	S	89
101) cis-3-Heptene	20.75	41	35729	0.8871 ppbV #	S	15
102) trans-2-Heptene	20.90	55	28282	0.7940 ppbV #	S	57
103) 2,4,4-Trimethyl-1-pentene	21.15	57	82905	1.0291 ppbV	S	90
105) Methylisobutylketone	21.65	43	51672	0.8674 ppbV #	S	1

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082406.D Vial: 1
Acq On : 24 Aug 2011 2:34 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:18 19111 Quant Results File: RA110612.RES

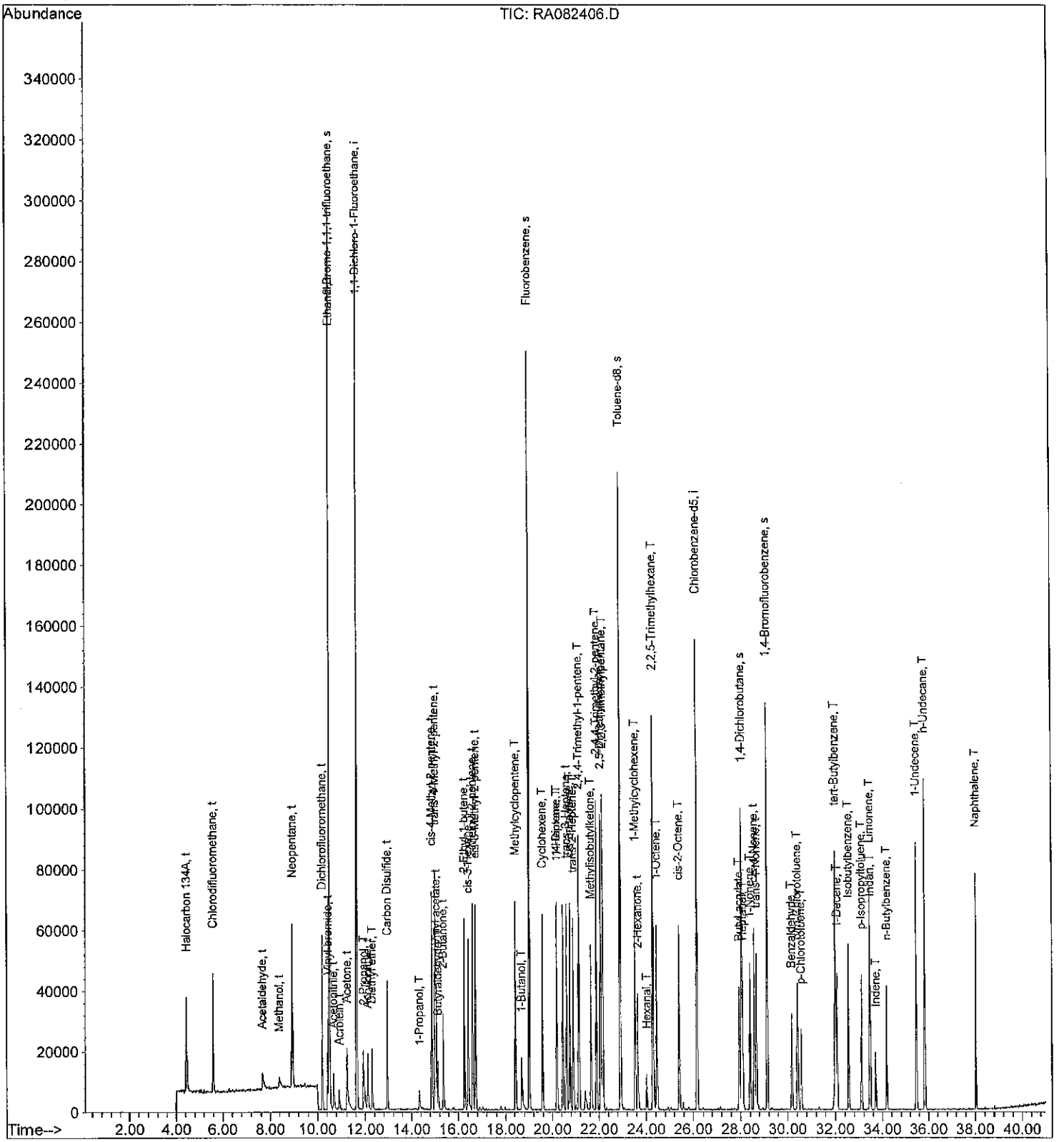
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.90	55	62479	0.9899	ppbV		S	80
108) 2,5-Dimethylhexane	22.08	57	61410	0.9855	ppbV		S	85
109) 2,2,3-Trimethylpentane	22.18	57	104508	0.9999	ppbV	#	S	41
116) 2-Hexanone	23.65	43	37599	0.8059	ppbV	#	S	22
118) 1-Methylcyclohexene	23.54	81	38220	0.9076	ppbV		S	92
121) Hexanal	24.03	44	5071	0.7191	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	133707	1.0719	ppbV		S	93
124) 1-Octene	24.45	55	19622	0.6734	ppbV	#	S	1
127) cis-2-Octene	25.40	55	25948	0.6908	ppbV		S	94
132) Butyl acrylate	27.96	55	40280	1.0518	ppbV		S	87
133) Heptanal	28.10	70	8165	0.9161	ppbV	#	S	71
137) 1-Nonene	28.41	56	14690	0.5594	ppbV		S	96
138) cis-4-Nonene	28.60	55	36114	0.6638	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	29937	0.5684	ppbV		S	97
143) Benzaldehyde	30.17	77	17566	1.4562	ppbV	#	S	34
145) o/m-Chlorotoluene	30.43	91	54229	1.1218	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	24315	0.5323	ppbV	#	S	36
154) tert-Butylbenzene	32.00	119	54787	0.7564	ppbV	#	S	55
155) 1-Decene	32.07	56	11308	0.5592	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	49129	0.6500	ppbV	#	S	51
162) p-Isopropyltoluene	33.11	119	36734	0.6399	ppbV	#	S	45
164) Limonene	33.46	68	20609	0.6420	ppbV		S	87
165) Indan	33.49	117	20095	0.4931	ppbV		S	92
166) Indene	33.71	115	13934	0.4974	ppbV		S	88
169) n-Butylbenzene	34.20	91	36026	0.7684	ppbV	#	S	1
170) 1-Undecene	35.47	55	25412	1.1715	ppbV	#	S	55
171) n-Undecane	35.84	57	59516	0.9511	ppbV		S	73
173) Naphthalene	38.04	128	61816	1.2165	ppbV		S	94

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082406.D Vial: 1
Acq On : 24 Aug 2011 2:34 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:18 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082407.D Vial: 1
Acq On : 24 Aug 2011 3:37 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:26 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	291304	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	108933	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	116962	1.9880 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.00	96	256997	1.7702 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.50%	
113) Toluene-d8	22.92	98	187603	2.2621 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.00%	
115) 1,4-Dichlorobutane	28.06	90	15525	1.9050 ppbV	0.02
Spiked Amount 2.000			Recovery	= 95.50%	
141) 1,4-Bromofluorobenzene	29.13	95	71500	1.8478 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.43	69	34599	1.1371 ppbV	S	82
8) Chlorodifluoromethane	5.57	51	82772	1.1715 ppbV	S	96
14) Acetaldehyde	7.61	44	18675m	1.4203 ppbV	S	
19) Methanol	8.35	31	9090m	1.3065 ppbV	S	
21) Neopentane	8.94	57	139975	1.1553 ppbV	S	96
22) Dichlorofluoromethane	10.19	67	105410	1.1499 ppbV	S	97
26) Vinyl bromide	10.42	106	40450	1.1123 ppbV	S	87
28) Ethanol	10.49	45	18597m	1.8928 ppbV	S	
29) Acetonitrile	10.65	41	33048m	1.0849 ppbV	S	
30) Acrolein	10.88	56	15269	1.1249 ppbV #	S	49
34) Acetone	11.18	43	88498m	1.2159 ppbV	S	
35) 2-Propanol	11.90	45	74684m	1.4006 ppbV	S	
36) Acrylonitrile	12.09	52	28041m	1.1311 ppbV	S	
38) Diethyl ether	12.28	74	18083	1.0879 ppbV #	S	1
45) Carbon Disulfide	12.93	76	124143	1.0839 ppbV	S	95
52) 1-Propanol	14.33	59	7134	1.2946 ppbV #	S	1
58) Vinyl acetate	15.04	43	135957	1.3552 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.87	69	83972	1.2643 ppbV #	S	95
60) trans-4-Methyl-2-pentene	15.00	69	95939	1.2697 ppbV	S	91
61) Butyraldehyde	15.12	72	7626	1.1592 ppbV #	S	1
62) 2-Butanone	15.34	43	106486m	1.4389 ppbV	S	
70) 2-Ethyl-1-butene	16.26	69	48576	1.1718 ppbV #	S	76
73) cis-3-Hexene	16.43	55	61511	1.1169 ppbV	S	95
75) 2-Methyl-2-pentene	16.60	41	79743	1.1127 ppbV	S	95
76) cis-3-Methyl-2-pentene	16.73	69	60607	1.1854 ppbV	S	92
83) Methylcyclopentene	18.43	67	119947	1.9510 ppbV	S	93
86) 1-Butanol	18.67	56	29491m	1.6359 ppbV	S	
90) Cyclohexene	19.58	67	73620	1.8003 ppbV	S	85
95) 1,4-Dioxane	20.18	88	15520	1.4501 ppbV #	S	60
96) 1-Heptene	20.19	55	38164	1.5251 ppbV	S	91
99) trans-3-Heptene	20.61	41	68686	1.6643 ppbV	S	89
101) cis-3-Heptene	20.75	41	72425	1.6819 ppbV #	S	12
102) trans-2-Heptene	20.90	55	57347	1.5059 ppbV #	S	57
103) 2,4,4-Trimethyl-1-pentene	21.14	57	160100	1.8589 ppbV	S	92
105) Methylisobutylketone	21.64	43	101007	1.5860 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082407.D Vial: 1
Acq On : 24 Aug 2011 3:37 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:26 19111 Quant Results File: RA110612.RES

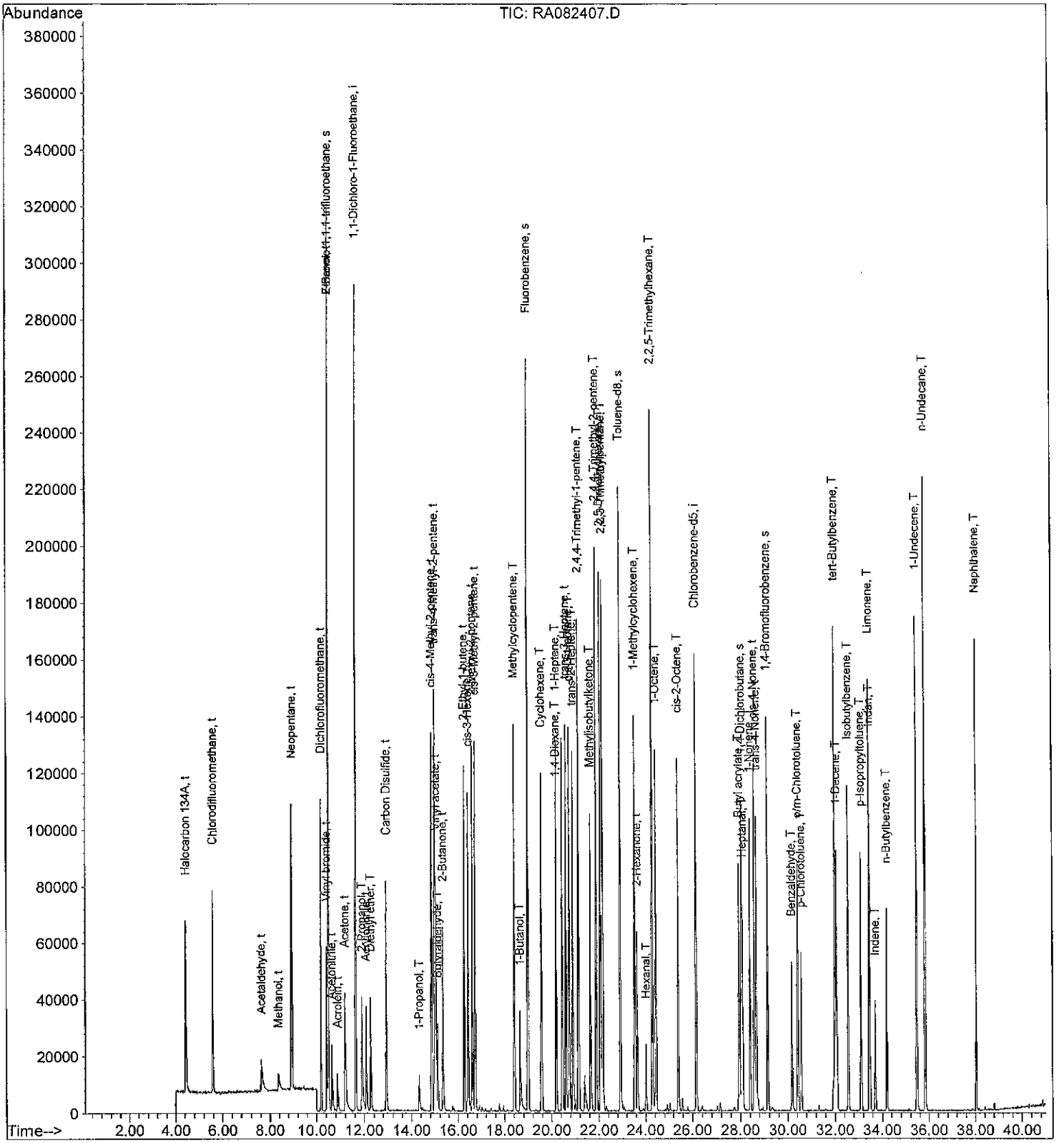
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	121511	1.8006	ppbV		S	81
108) 2,5-Dimethylhexane	22.08	57	117299	1.7606	ppbV		S	87
109) 2,2,3-Trimethylpentane	22.17	57	198894	1.7800	ppbV	#	S	41
116) 2-Hexanone	23.64	43	60744	1.2178	ppbV	#	S	22
118) 1-Methylcyclohexene	23.54	81	76249	1.6936	ppbV		S	92
121) Hexanal	24.03	44	9004	1.1943	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	257823	1.9333	ppbV		S	95
124) 1-Octene	24.44	55	41645	1.3368	ppbV	#	S	1
127) cis-2-Octene	25.41	55	55963	1.3936	ppbV		S	92
132) Butyl acrylate	27.96	55	84331	2.0597	ppbV		S	86
133) Heptanal	28.10	70	16503	1.7318	ppbV	#	S	67
137) 1-Nonene	28.42	56	31580	1.1247	ppbV		S	96
138) cis-4-Nonene	28.59	55	74349	1.2783	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	60379	1.0723	ppbV		S	92
143) Benzaldehyde	30.17	77	28777	2.2313	ppbV	#	S	28
145) o/m-Chlorotoluene	30.42	91	111469	2.1568	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	50988	1.0440	ppbV	#	S	35
154) tert-Butylbenzene	32.00	119	116449	1.5037	ppbV	#	S	55
155) 1-Decene	32.07	56	23847	1.1030	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	103063	1.2754	ppbV	#	S	40
162) p-Isopropyltoluene	33.11	119	76049	1.2390	ppbV	#	S	42
164) Limonene	33.47	68	41906	1.2210	ppbV		S	80
165) Indan	33.49	117	41787	0.9590	ppbV		S	86
166) Indene	33.71	115	28756	0.9601	ppbV		S	86
169) n-Butylbenzene	34.20	91	64635	1.2895	ppbV	#	S	1
170) 1-Undecene	35.47	55	51043	2.2010	ppbV	#	S	64
171) n-Undecane	35.84	57	124530	1.8614	ppbV		S	74
173) Naphthalene	38.04	128	130958	2.4105	ppbV		S	96

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082407.D Vial: 1
Acq On : 24 Aug 2011 3:37 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:26 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082408.D Vial: 1
Acq On : 24 Aug 2011 4:41 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:32 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	285412	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	112455	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	114683	1.9895 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.00	96	262933	1.8484 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	
113) Toluene-d8	22.92	98	199365	2.3287 ppbV	0.00
Spiked Amount 2.000			Recovery	= 116.50%	
115) 1,4-Dichlorobutane	28.05	90	15609	1.8554 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.00%	
141) 1,4-Bromofluorobenzene	29.13	95	75573	1.8919 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.42	69	84082m	2.8205 ppbV	S	
8) Chlorodifluoromethane	5.57	51	198616	2.8690 ppbV	S	96
14) Acetaldehyde	7.56	44	41927m	3.2545 ppbV	S	
19) Methanol	8.33	31	19941m	2.9253 ppbV	S	
21) Neopentane	8.94	57	342793	2.8876 ppbV	S	97
22) Dichlorofluoromethane	10.18	67	252121	2.8071 ppbV	S	97
26) Vinyl bromide	10.42	106	97024	2.7231 ppbV	S	85
28) Ethanol	10.47	45	35279m	3.6648 ppbV	S	
29) Acetonitrile	10.63	41	81102m	2.7173 ppbV	S	
30) Acrolein	10.86	56	36375	2.7351 ppbV #	S	45
34) Acetone	11.16	43	208393m	2.9222 ppbV	S	
35) 2-Propanol	11.90	45	171071m	3.2745 ppbV	S	
36) Acrylonitrile	12.08	52	67919	2.7963 ppbV #	S	1
38) Diethyl ether	12.27	74	45032	2.7652 ppbV #	S	1
45) Carbon Disulfide	12.94	76	302056	2.6917 ppbV	S	95
52) 1-Propanol	14.32	59	15844	2.9346 ppbV #	S	1
58) Vinyl acetate	15.04	43	344466	3.5044 ppbV #	S	47
59) cis-4-Methyl-2-pentene	14.87	69	203976	3.1345 ppbV #	S	97
60) trans-4-Methyl-2-pentene	15.00	69	233800	3.1581 ppbV	S	91
61) Butyraldehyde	15.11	72	19154	2.9716 ppbV #	S	1
62) 2-Butanone	15.33	43	257297m	3.5485 ppbV	S	
70) 2-Ethyl-1-butene	16.26	69	118785	2.9245 ppbV #	S	71
73) cis-3-Hexene	16.43	55	152083	2.8184 ppbV	S	92
75) 2-Methyl-2-pentene	16.60	41	196434	2.7977 ppbV	S	93
76) cis-3-Methyl-2-pentene	16.73	69	149240	2.9791 ppbV	S	92
83) Methylcyclopentene	18.43	67	298392	4.7016 ppbV	S	92
86) 1-Butanol	18.66	56	72531	3.8973 ppbV	S	97
90) Cyclohexene	19.57	67	182055	4.3126 ppbV	S	85
95) 1,4-Dioxane	20.18	88	31221	2.8258 ppbV #	S	51
96) 1-Heptene	20.19	55	96752	3.7452 ppbV	S	92
99) trans-3-Heptene	20.61	41	174575	4.0976 ppbV	S	89
101) cis-3-Heptene	20.75	41	180450	4.0593 ppbV #	S	13
102) trans-2-Heptene	20.90	55	146630	3.7299 ppbV #	S	55
103) 2,4,4-Trimethyl-1-pentene	21.15	57	389701	4.3830 ppbV	S	94
105) Methylisobutylketone	21.64	43	259785	3.9513 ppbV #	S	1

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082408.D Vial: 1
Acq On : 24 Aug 2011 4:41 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:32 19111 Quant Results File: RA110612.RES

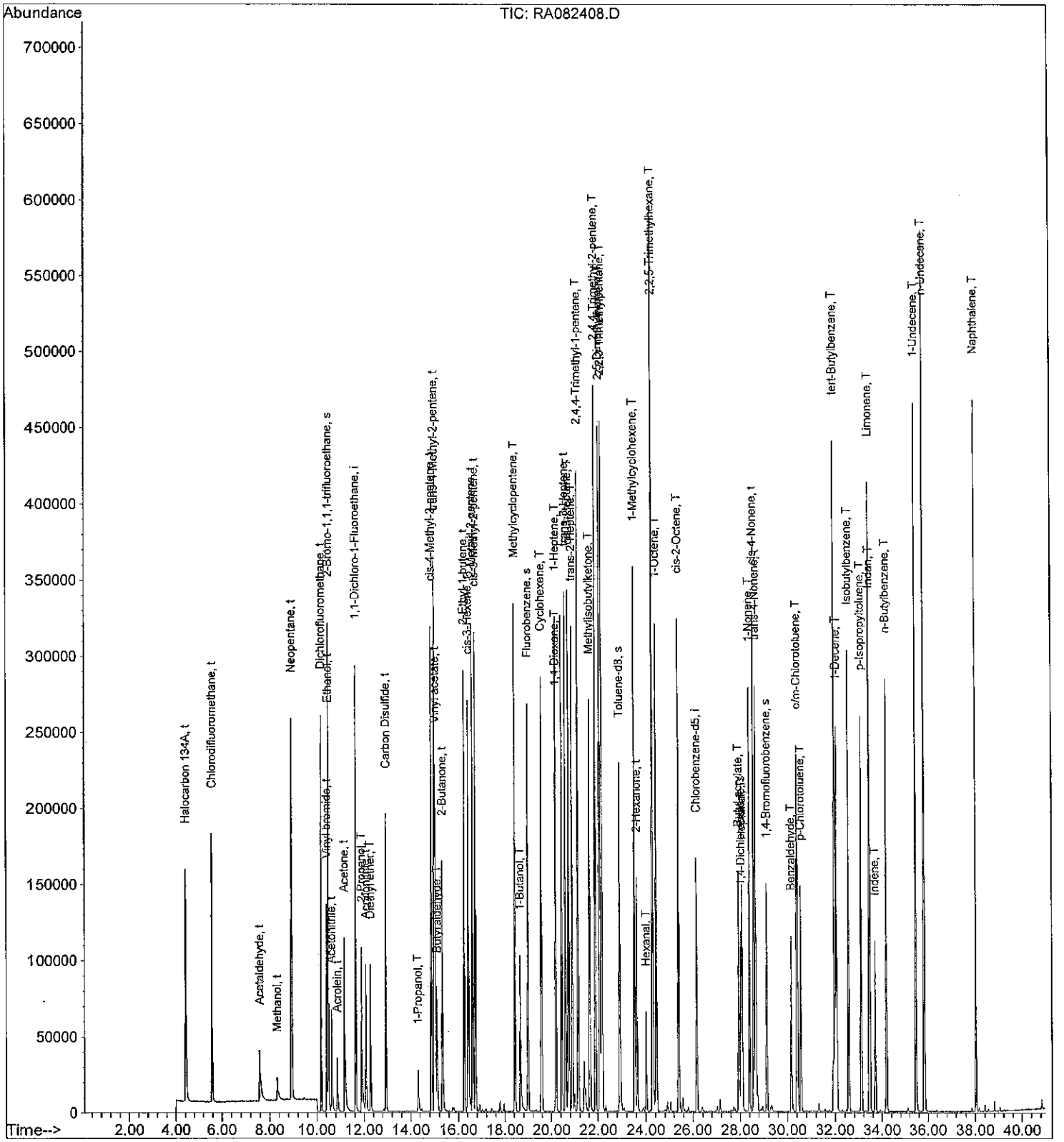
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	295611	4.2434	ppbV		S	82
108) 2,5-Dimethylhexane	22.08	57	282726	4.1107	ppbV		S	87
109) 2,2,3-Trimethylpentane	22.17	57	487302	4.2244	ppbV	#	S	40
116) 2-Hexanone	23.63	43	149956	2.9122	ppbV	#	S	23
118) 1-Methylcyclohexene	23.53	81	195835	4.2134	ppbV		S	90
121) Hexanal	24.02	44	23763	3.0532	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	629876	4.5753	ppbV		S	95
124) 1-Octene	24.45	55	107684	3.3484	ppbV	#	S	1
127) cis-2-Octene	25.41	55	149001	3.5943	ppbV		S	91
132) Butyl acrylate	27.95	55	157984	3.7377	ppbV		S	86
133) Heptanal	28.09	70	35667	3.6257	ppbV	#	S	63
137) 1-Nonene	28.41	56	86274	2.9765	ppbV		S	96
138) cis-4-Nonene	28.59	55	205412	3.4210	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	165705	2.8506	ppbV		S	95
143) Benzaldehyde	30.17	77	60505	4.5445	ppbV	#	S	34
145) o/m-Chlorotoluene	30.42	91	300907	5.6398	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	135706	2.6915	ppbV	#	S	35
154) tert-Butylbenzene	32.00	119	305221	3.8178	ppbV	#	S	59
155) 1-Decene	32.07	56	66393	2.9746	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	286434	3.4335	ppbV	#	S	47
162) p-Isopropyltoluene	33.11	119	223702	3.5305	ppbV	#	S	44
164) Limonene	33.46	68	119289	3.3670	ppbV		S	82
165) Indan	33.49	117	112864	2.5090	ppbV		S	89
166) Indene	33.71	115	85387	2.7616	ppbV		S	94
169) n-Butylbenzene	34.19	91	256439	4.9559	ppbV	#	S	1
170) 1-Undecene	35.47	55	137576	5.7466	ppbV	#	S	54
171) n-Undecane	35.84	57	334195	4.8388	ppbV		S	77
173) Naphthalene	38.04	128	384869	6.8622	ppbV		S	95

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082408.D Vial: 1
Acq On : 24 Aug 2011 4:41 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:32 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082409.D Vial: 1
Acq On : 24 Aug 2011 5:48 pm Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8.25.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.63	81	291437	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.16	117	122198	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	116916	1.9863 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	18.99	96	276131	1.9011 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.00%	
113) Toluene-d8	22.92	98	219328	2.3576 ppbV	0.00
Spiked Amount 2.000			Recovery	= 118.00%	
115) 1,4-Dichlorobutane	28.05	90	17137	1.8746 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.50%	
141) 1,4-Bromofluorobenzene	29.14	95	79131	1.8231 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.42	69	168224	5.5263 ppbV	S	85
8) Chlorodifluoromethane	5.56	51	395317	5.5923 ppbV	S	97
14) Acetaldehyde	7.54	44	84898m	6.4538 ppbV	S	
19) Methanol	8.31	31	38874m	5.5848 ppbV	S	
21) Neopentane	8.93	57	683918	5.6420 ppbV	S	98
22) Dichlorofluoromethane	10.18	67	499417	5.4455 ppbV	S	97
26) Vinyl bromide	10.41	106	195984	5.3868 ppbV	S	85
28) Ethanol	10.46	45	65493m	6.6629 ppbV	S	
29) Acetonitrile	10.61	41	164904m	5.4108 ppbV	S	
30) Acrolein	10.84	56	74073	5.4545 ppbV #	S	45
34) Acetone	11.13	43	412030m	5.6582 ppbV	S	
35) 2-Propanol	11.88	45	351244m	6.5843 ppbV	S	
36) Acrylonitrile	12.06	52	137674	5.5509 ppbV #	S	1
38) Diethyl ether	12.25	74	89631	5.3900 ppbV #	S	1
45) Carbon Disulfide	12.92	76	596209	5.2032 ppbV	S	94
52) 1-Propanol	14.31	59	34057	6.1776 ppbV #	S	1
58) Vinyl acetate	15.03	43	675370	6.7287 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.86	69	413365	6.2209 ppbV #	S	100
60) trans-4-Methyl-2-pentene	14.99	69	471210	6.2333 ppbV	S	92
61) Butyraldehyde	15.09	72	38591	5.8633 ppbV #	S	1
62) 2-Butanone	15.31	43	509153m	6.8769 ppbV	S	
70) 2-Ethyl-1-butene	16.25	69	245597	5.9216 ppbV #	S	75
73) cis-3-Hexene	16.43	55	312844	5.6777 ppbV	S	93
75) 2-Methyl-2-pentene	16.60	41	396238	5.5266 ppbV	S	90
76) cis-3-Methyl-2-pentene	16.72	69	303418	5.9316 ppbV	S	92
83) Methylcyclopentene	18.43	67	615291	8.9218 ppbV	S	93
86) 1-Butanol	18.66	56	148012	7.3189 ppbV	S	98
90) Cyclohexene	19.57	67	372790	8.1266 ppbV	S	84
95) 1,4-Dioxane	20.16	88	67980	5.6622 ppbV #	S	74
96) 1-Heptene	20.19	55	198920	7.0861 ppbV	S	93
99) trans-3-Heptene	20.60	41	362138	7.8222 ppbV	S	90
101) cis-3-Heptene	20.74	41	372665	7.7149 ppbV #	S	14
102) trans-2-Heptene	20.89	55	312839	7.3233 ppbV #	S	55
103) 2,4,4-Trimethyl-1-pentene	21.15	57	794210	8.2204 ppbV	S	94
105) Methylisobutylketone	21.63	43	544824	7.6261 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082409.D Vial: 1
Acq On : 24 Aug 2011 5:48 pm Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:39 19111 Quant Results File: RA110612.RES

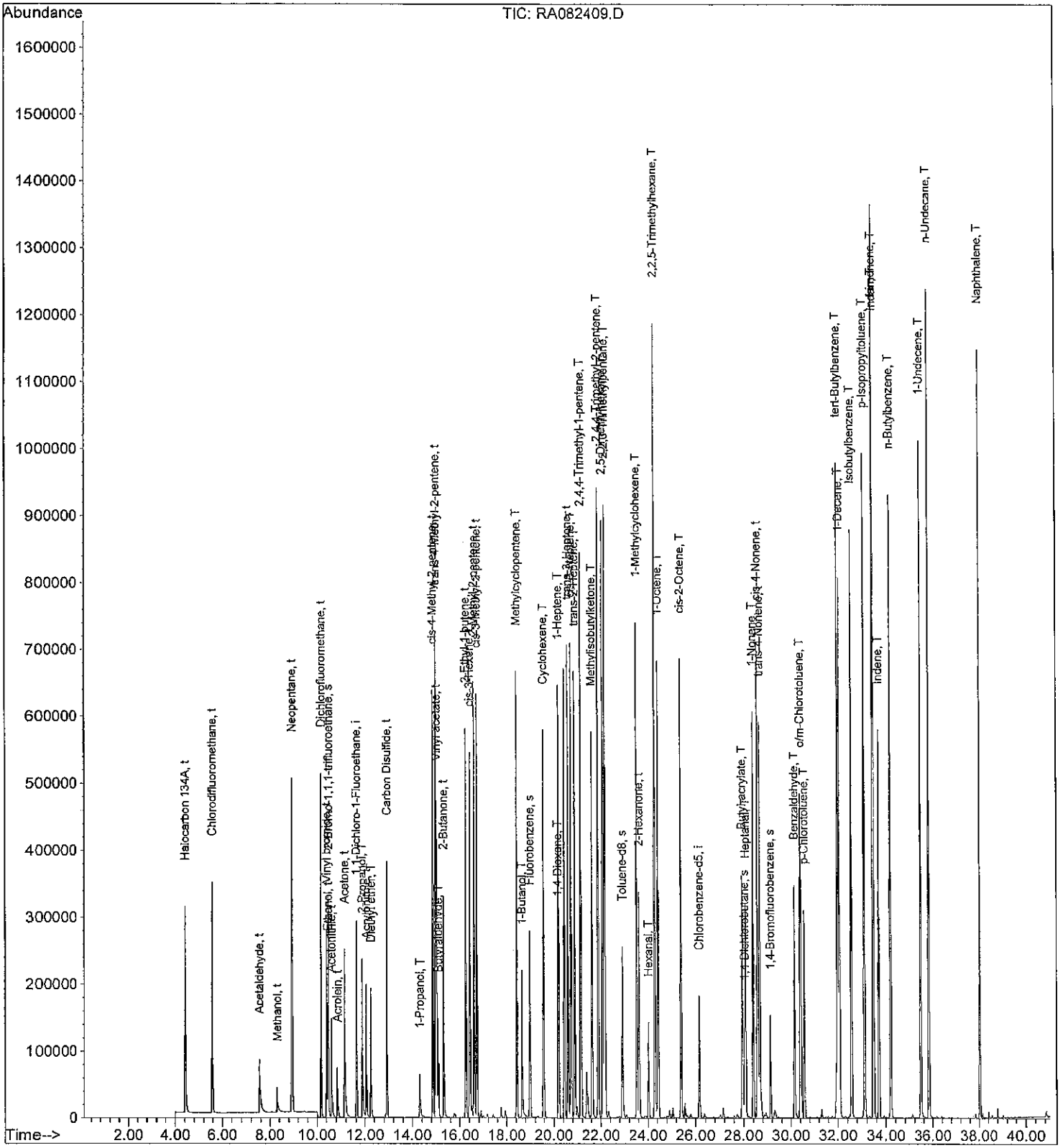
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	598333	7.9041	ppbV		S	83
108) 2,5-Dimethylhexane	22.08	57	583417	7.8063	ppbV		S	90
109) 2,2,3-Trimethylpentane	22.17	57	981472	7.8300	ppbV	#	S	38
116) 2-Hexanone	23.63	43	324238	5.7947	ppbV	#	S	23
118) 1-Methylcyclohexene	23.53	81	410344	8.1248	ppbV		S	92
121) Hexanal	24.02	44	52555	6.2141	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	1270715	8.4943	ppbV		S	96
124) 1-Octene	24.45	55	232004	6.6388	ppbV	#	S	1
127) cis-2-Octene	25.40	55	324494	7.2035	ppbV		S	94
132) Butyl acrylate	27.95	55	367830	8.0086	ppbV		S	86
133) Heptanal	28.09	70	80342	7.5159	ppbV	#	S	59
137) 1-Nonene	28.41	56	191241	6.0718	ppbV		S	98
138) cis-4-Nonene	28.59	55	441924	6.7732	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	366508	5.8022	ppbV		S	94
143) Benzaldehyde	30.16	77	186754	12.9086	ppbV	#	S	30
145) o/m-Chlorotoluene	30.42	91	634644	10.9465	ppbV	#	S	1
146) p-Chlorotoluene	30.57	91	287640	5.2500	ppbV	#	S	35
154) tert-Butylbenzene	32.00	119	695247	8.0030	ppbV	#	S	58
155) 1-Decene	32.07	56	220164	9.0777	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	837384	9.2376	ppbV	#	S	46
162) p-Isopropyltoluene	33.11	119	875910	12.7214	ppbV	#	S	42
164) Limonene	33.47	68	400770	10.4099	ppbV		S	83
165) Indan	33.49	117	424919	8.6930	ppbV		S	90
166) Indene	33.71	115	459520	13.6771	ppbV		S	93
169) n-Butylbenzene	34.19	91	860455	15.3031	ppbV	#	S	1
170) 1-Undecene	35.47	55	305037	11.7255	ppbV	#	S	55
171) n-Undecane	35.84	57	733430	9.7726	ppbV		S	77
173) Naphthalene	38.04	128	973267	15.9698	ppbV		S	96

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082409.D Vial: 1
Acq On : 24 Aug 2011 5:48 pm Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:39 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082410.D Vial: 1
Acq On : 24 Aug 2011 6:56 pm Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:46 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.62	81	290023	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.16	117	137377	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.47	83	119734	2.0441 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 102.00%	
65) Fluorobenzene	18.99	96	299950	2.0751 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 104.00%	
113) Toluene-d8	22.92	98	240981	2.3041 ppbV	0.00
Spiked Amount 2.000			Recovery	= 115.00%	
115) 1,4-Dichlorobutane	28.05	90	18662	1.8158 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	
141) 1,4-Bromofluorobenzene	29.13	95	87665	1.7965 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.42	69	259115m	8.5536 ppbV	S	
8) Chlorodifluoromethane	5.57	51	599586m	8.5233 ppbV	S	
14) Acetaldehyde	7.52	44	130758m	9.9885 ppbV	S	
19) Methanol	8.29	31	59070m	8.5277 ppbV	S	
21) Neopentane	8.93	57	1052536	8.7253 ppbV	S	98
22) Dichlorofluoromethane	10.17	67	753278	8.2536 ppbV	S	97
26) Vinyl bromide	10.40	106	297887	8.2276 ppbV	S	84
28) Ethanol	10.46	45	96660m	9.8815 ppbV	S	
29) Acetonitrile	10.60	41	253418m	8.3556 ppbV	S	
30) Acrolein	10.83	56	116975	8.6556 ppbV #	S	47
34) Acetone	11.12	43	624324m	8.6154 ppbV	S	
35) 2-Propanol	11.88	45	480777m	9.0564 ppbV	S	
36) Acrylonitrile	12.05	52	207774m	8.4182 ppbV	S	
38) Diethyl ether	12.25	74	136722	8.2619 ppbV #	S	1
45) Carbon Disulfide	12.92	76	909011	7.9717 ppbV	S	96
52) 1-Propanol	14.30	59	45919	8.3698 ppbV #	S	1
58) Vinyl acetate	15.02	43	1070242	10.7148 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.85	69	632270	9.5617 ppbV #	S	97
60) trans-4-Methyl-2-pentene	14.98	69	725951	9.6499 ppbV	S	91
61) Butyraldehyde	15.09	72	60117	9.1784 ppbV #	S	1
62) 2-Butanone	15.31	43	798066m	10.8316 ppbV	S	
70) 2-Ethyl-1-butene	16.24	69	381863	9.2520 ppbV	S	75
73) cis-3-Hexene	16.41	55	493466	8.9995 ppbV	S	92
75) 2-Methyl-2-pentene	16.59	41	609329	8.5402 ppbV	S	91
76) cis-3-Methyl-2-pentene	16.72	69	467754	9.1888 ppbV	S	90
83) Methylcyclopentene	18.42	67	970022	12.5113 ppbV	S	94
86) 1-Butanol	18.66	56	132957m	5.8481 ppbV	S	
90) Cyclohexene	19.57	67	577131	11.1911 ppbV	S	86
95) 1,4-Dioxane	20.16	88	121380	8.9930 ppbV	S	76
96) 1-Heptene	20.19	55	313623	9.9378 ppbV	S	94
99) trans-3-Heptene	20.60	41	569997	10.9517 ppbV	S	91
101) cis-3-Heptene	20.74	41	581017	10.6991 ppbV #	S	13
102) trans-2-Heptene	20.89	55	497920	10.3680 ppbV #	S	58
103) 2,4,4-Trimethyl-1-pentene	21.14	57	1218800	11.2212 ppbV	S	96
105) Methylisobutylketone	21.63	43	861159	10.7221 ppbV #	S	1

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082410.D Vial: 1
Acq On : 24 Aug 2011 6:56 pm Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:46 19111 Quant Results File: RA110612.RES

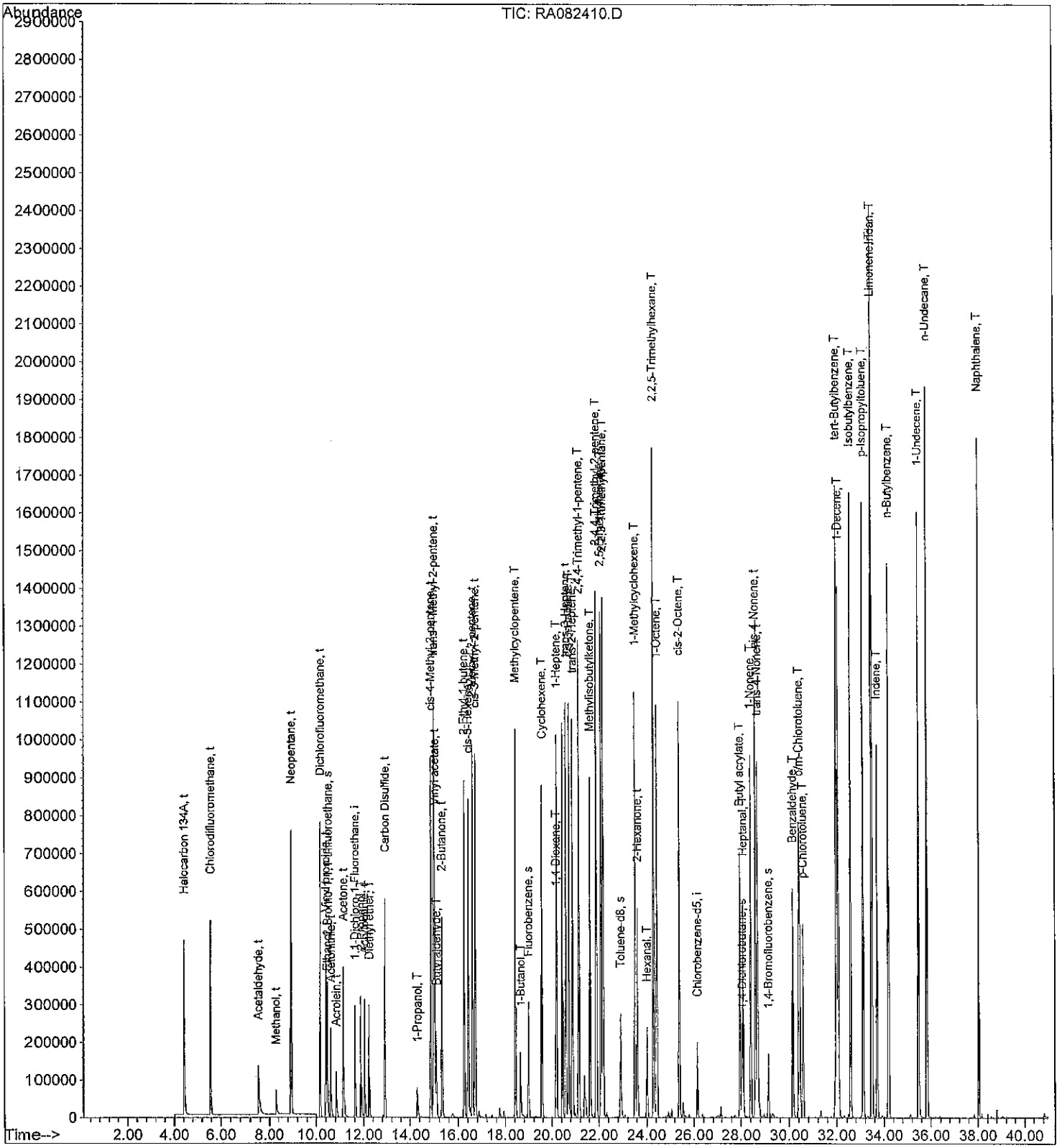
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	907647	10.6654	ppbV		S	86
108) 2,5-Dimethylhexane	22.07	57	894434	10.6455	ppbV		S	91
109) 2,2,3-Trimethylpentane	22.17	57	1500317	10.6468	ppbV	#	S	38
116) 2-Hexanone	23.63	43	539732	8.5801	ppbV	#	S	22
118) 1-Methylcyclohexene	23.53	81	638652	11.2480	ppbV		S	92
121) Hexanal	24.01	44	87745	9.2286	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	1944312	11.5610	ppbV		S	97
124) 1-Octene	24.44	55	369684	9.4097	ppbV	#	S	1
127) cis-2-Octene	25.40	55	520410	10.2762	ppbV		S	93
132) Butyl acrylate	27.95	55	731607	14.1689	ppbV		S	86
133) Heptanal	28.10	70	149755	12.4615	ppbV	#	S	57
137) 1-Nonene	28.41	56	313002	8.8396	ppbV		S	99
138) cis-4-Nonene	28.59	55	717650	9.7838	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	544183	7.6632	ppbV		S	96
143) Benzaldehyde	30.17	77	326084	20.0489	ppbV	#	S	30
145) o/m-Chlorotoluene	30.42	91	1045888	16.0466	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	479625	7.7868	ppbV	#	S	34
154) tert-Butylbenzene	32.00	119	1208529	12.3743	ppbV	#	S	58
155) 1-Decene	32.08	56	395952	14.5218	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	1600608	15.7061	ppbV	#	S	46
162) p-Isopropyltoluene	33.11	119	1469215	18.9807	ppbV	#	S	42
164) Limonene	33.47	68	708655	16.3733	ppbV		S	86
165) Indan	33.49	117	838262	15.2544	ppbV		S	90
166) Indene	33.71	115	792655	20.9857	ppbV		S	93
169) n-Butylbenzene	34.19	91	1377763	21.7959	ppbV	#	S	1
170) 1-Undecene	35.48	55	478167	16.3497	ppbV	#	S	58
171) n-Undecane	35.84	57	1179672	13.9817	ppbV		S	80
173) Naphthalene	38.03	128	1556396	22.7162	ppbV		S	96

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082410.D Vial: 1
Acq On : 24 Aug 2011 6:56 pm Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:46 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082411.D Vial: 1
Acq On : 24 Aug 2011 8:07 pm Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:53 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.61	81	288895	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.16	117	144232	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.47	83	121794	2.0874 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 104.50%	
65) Fluorobenzene	18.99	96	307766	2.1375 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 107.00%	
113) Toluene-d8	22.92	98	251985	2.2948 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.50%	
115) 1,4-Dichlorobutane	28.05	90	19596	1.8161 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	
141) 1,4-Bromofluorobenzene	29.14	95	91666	1.7892 ppbV	0.01
Spiked Amount 2.000			Recovery	= 89.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.41	69	352788m	11.6913 ppbV	S	
8) Chlorodifluoromethane	5.56	51	806696m	11.5123 ppbV	S	
14) Acetaldehyde	7.51	44	176695m	13.5503 ppbV	S	
19) Methanol	8.29	31	76417m	11.0751 ppbV	S	
21) Neopentane	8.92	57	1428579	11.8889 ppbV	S	98
22) Dichlorofluoromethane	10.16	67	1006803	11.0745 ppbV	S	97
26) Vinyl bromide	10.40	106	405293	11.2379 ppbV	S	84
28) Ethanol	10.45	45	117749m	12.0845 ppbV	S	
29) Acetonitrile	10.60	41	339222m	11.2283 ppbV	S	
30) Acrolein	10.82	56	157773m	11.7200 ppbV	S	
34) Acetone	11.11	43	832210m	11.5289 ppbV	S	
35) 2-Propanol	11.88	45	548658m	10.3755 ppbV	S	
36) Acrylonitrile	12.05	52	285506	11.6127 ppbV #	S	1
38) Diethyl ether	12.24	74	184037	11.1645 ppbV #	S	1
45) Carbon Disulfide	12.91	76	1219689	10.7380 ppbV	S	95
52) 1-Propanol	14.30	59	50943	9.3218 ppbV #	S	1
58) Vinyl acetate	15.01	43	1453463	14.6082 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.85	69	861363	13.0771 ppbV #	S	100
60) trans-4-Methyl-2-pentene	14.98	69	979094	13.0657 ppbV	S	89
61) Butyraldehyde	15.08	72	82318	12.6171 ppbV #	S	1
62) 2-Butanone	15.30	43	1073198m	14.6227 ppbV	S	
70) 2-Ethyl-1-butene	16.24	69	521266	12.6789 ppbV	S	79
73) cis-3-Hexene	16.41	55	673861	12.3374 ppbV	S	92
75) 2-Methyl-2-pentene	16.59	41	816398	11.4871 ppbV	S	90
76) cis-3-Methyl-2-pentene	16.72	69	635824	12.5392 ppbV	S	88
83) Methylcyclopentene	18.42	67	1328930	16.3258 ppbV	S	93
86) 1-Butanol	18.65	56	131504m	5.5092 ppbV	S	
90) Cyclohexene	19.56	67	795272	14.6881 ppbV	S	86
95) 1,4-Dioxane	20.15	88	165665	11.6907 ppbV	S	78
96) 1-Heptene	20.19	55	430122	12.9815 ppbV	S	93
99) trans-3-Heptene	20.60	41	770362	14.0979 ppbV	S	91
101) cis-3-Heptene	20.74	41	788873	13.8363 ppbV #	S	14
102) trans-2-Heptene	20.89	55	687013	13.6255 ppbV #	S	58
103) 2,4,4-Trimethyl-1-pentene	21.14	57	1655837	14.5203 ppbV	S	97
105) Methylisobutylketone	21.63	43	1174637	13.9300 ppbV #	S	1

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082411.D Vial: 1
Acq On : 24 Aug 2011 8:07 pm Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:53 19111 Quant Results File: RA110612.RES

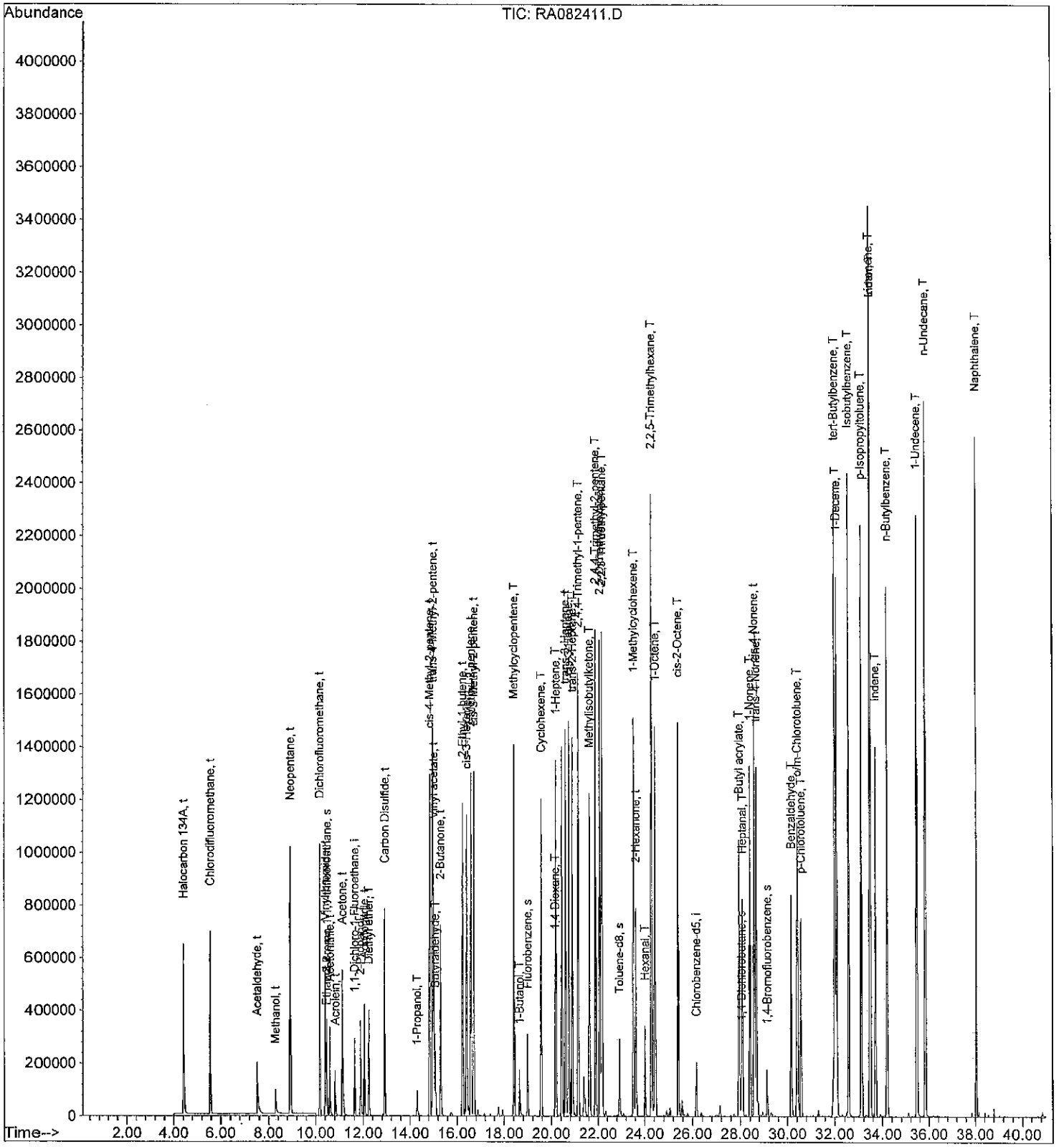
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	1210970	13.5533	ppbV		S	86
108) 2,5-Dimethylhexane	22.08	57	1215107	13.7748	ppbV		S	93
109) 2,2,3-Trimethylpentane	22.17	57	2031899	13.7337	ppbV	#	S	37
116) 2-Hexanone	23.63	43	760102	11.5091	ppbV	#	S	22
118) 1-Methylcyclohexene	23.53	81	879985	14.7618	ppbV		S	93
121) Hexanal	24.01	44	126051	12.6274	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	2614130	14.8050	ppbV		S	97
124) 1-Octene	24.44	55	512527	12.4255	ppbV	#	S	1
127) cis-2-Octene	25.40	55	722563	13.5899	ppbV		S	91
132) Butyl acrylate	27.96	55	1083296	19.9829	ppbV		S	83
133) Heptanal	28.10	70	219711	17.4138	ppbV	#	S	58
137) 1-Nonene	28.41	56	449169	12.0822	ppbV		S	95
138) cis-4-Nonene	28.59	55	1012445	13.1467	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	771897	10.3532	ppbV		S	96
143) Benzaldehyde	30.17	77	461402	27.0204	ppbV	#	S	29
145) o/m-Chlorotoluene	30.42	91	1522196	22.2443	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	706762	10.9291	ppbV	#	S	34
154) tert-Butylbenzene	32.00	119	1770272	17.2645	ppbV	#	S	59
155) 1-Decene	32.08	56	582616	20.3523	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	2377628	22.2218	ppbV	#	S	46
162) p-Isopropyltoluene	33.11	119	2072115	25.4973	ppbV	#	S	41
164) Limonene	33.47	68	1018953	22.4238	ppbV		S	87
165) Indan	33.49	117	1290965	22.3760	ppbV		S	92
166) Indene	33.72	115	1137479	28.6837	ppbV		S	93
169) n-Butylbenzene	34.20	91	1933309	29.1309	ppbV	#	S	1
170) 1-Undecene	35.48	55	694822	22.6285	ppbV	#	S	61
171) n-Undecane	35.84	57	1695152	19.1364	ppbV		S	82
173) Naphthalene	38.04	128	2320649	32.2610	ppbV		S	97

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082411.D Vial: 1
Acq On : 24 Aug 2011 8:07 pm Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:53 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	280235	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	101679	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	114479	2.0227 ppbV	0.01
Spiked Amount 2.000			Recovery	= 101.00%	
65) Fluorobenzene	19.00	96	252721	1.8095 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	
113) Toluene-d8	22.93	98	178378	2.3044 ppbV	0.01
Spiked Amount 2.000			Recovery	= 115.00%	
115) 1,4-Dichlorobutane	28.05	90	13898	1.8271 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.50%	
141) 1,4-Bromofluorobenzene	29.14	95	67898	1.8799 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.00%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	1971m	0.2428 ppbV	S	
4) Acetylene	3.54	26	4178	0.4040 ppbV	S	91
5) Ethane	3.62	26	1508	0.3609 ppbV	S	99
7) Propylene	5.22	41	6068	0.2750 ppbV	S	90
9) Propane	5.37	43	2943	0.2768 ppbV	S	86
10) Dichlorodifluoromethane	5.89	85	37894	0.2998 ppbV	S	97
11) Chloromethane	6.73	50	8988	0.2803 ppbV	S	92
12) Isobutane	7.39	43	18152	0.2836 ppbV	S	86
13) Halocarbon 114	7.60	85	33472	0.2960 ppbV	S	91
15) Vinyl chloride	7.82	62	10217	0.2881 ppbV	S	97
16) 1-Butene/Isobutene	8.26	41	12531	0.2781 ppbV	S	78
17) 1,3-Butadiene	8.37	39	8551	0.3032 ppbV	S	97
18) n-Butane	8.52	43	15898	0.2764 ppbV	S	96
20) trans-2-Butene	8.90	41	11787	0.2799 ppbV	S	89
23) Bromomethane	9.07	94	9480	0.2828 ppbV	S	89
24) cis-2-Butene	9.38	41	12501	0.2950 ppbV	S	87
25) Chloroethane	9.67	64	5504	0.2838 ppbV	S	89
27) 3-Methyl-1-butene	10.47	55	25841	0.3022 ppbV	S	79
31) Isopentane	11.09	41	12583	0.2847 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	36817	0.3073 ppbV #	S	67
33) 1-Pentene	11.67	42	13791	0.2933 ppbV #	S	1
37) n-Pentane	12.10	43	18599	0.2957 ppbV	S	84
39) Isoprene	12.27	67	12269	0.2924 ppbV	S	92
40) trans-2-Pentene	12.43	55	20864	0.2920 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	20458	0.3047 ppbV #	S	9
42) cis-2-Pentene	12.72	55	19704	0.2776 ppbV #	S	1
43) Methylene chloride	12.85	49	13288	0.2899 ppbV #	S	1
44) 2-Methyl-2-butene	12.91	55	21297	0.2969 ppbV #	S	1
46) 3-Chloropropene	13.01	41	11785	0.3149 ppbV #	S	1
47) Halocarbon 113	13.32	151	14353	0.3024 ppbV #	S	100
48) Neohexane	13.48	43	14987	0.2908 ppbV #	S	1
49) Cyclopentene	14.18	67	21889	0.2879 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.34	61	16824	0.3071 ppbV #	S	1
51) 4-Methyl-1-pentene	14.38	43	15146	0.2940 ppbV	S	89
53) 1,1-Dichloroethane	14.64	63	23963	0.3574 ppbV	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.62	42	19028	0.3224	ppbV		S	81
55)	2,3-Dimethylbutane	14.73	43	26014	0.3346	ppbV	#	S	59
56)	Methyl tert-butyl ether	14.84	73	30007m	0.3420	ppbV		S	
57)	Isohexane	14.94	42	13823m	0.3591	ppbV		S	
63)	Chloroprene	15.52	53	21333	0.3545	ppbV		S	81
64)	3-Methylpentane	15.54	57	21824	0.3294	ppbV		S	93
66)	2-Methyl-1-pentene	15.77	56	17765	0.2882	ppbV	#	S	1
67)	1-Hexene	15.80	41	12887m	0.3088	ppbV		S	
68)	cis-1,2-Dichloroethene	15.94	61	17764	0.3043	ppbV	#	S	1
69)	Bromochloromethane	16.17	130	7938	0.2816	ppbV	#	S	1
71)	n-Hexane	16.30	57	17329	0.2915	ppbV	#	S	1
72)	Chloroform	16.41	83	28868	0.2966	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	20636	0.2769	ppbV	#	S	1
77)	cis-2-Hexene	16.92	55	16308	0.2499	ppbV		S	96
78)	Methylcyclopentane	17.42	56	20914	0.2808	ppbV		S	86
79)	1,2-Dichloroethane	17.46	62	22565	0.2743	ppbV		S	87
80)	2,4-Dimethylpentane	17.61	43	25434	0.2993	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.80	97	32218	0.2952	ppbV	#	S	1
84)	Benzene	18.48	78	25445	0.4526	ppbV		S	76
85)	Carbon tetrachloride	18.71	117	31746	0.5056	ppbV	#	S	1
87)	Cyclohexane	18.88	56	18386	0.5218	ppbV	#	S	1
88)	Isoheptane	19.27	43	25897	0.4878	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.35	56	22399m	0.4910	ppbV		S	
91)	3-Methylhexane	19.64	43	20582	0.4931	ppbV	#	S	70
92)	1,2-Dichloropropane	19.75	63	9935	0.4161	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	23735	0.3916	ppbV	#	S	1
94)	Trichloroethene	20.14	130	10130	0.3941	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	60734	0.4918	ppbV		S	88
98)	2-Chloropentane	20.46	70	12836	0.3845	ppbV	#	S	14
100)	n-Heptane	20.70	71	9526	0.4435	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	11286	0.3320	ppbV	#	S	1
106)	Methylcyclohexane	21.62	83	19155	0.4661	ppbV		S	97
110)	trans-1,3-Dichloropropene	22.41	75	10716	0.3130	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	7132	0.3143	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.88	43	35624	0.5145	ppbV		S	93
114)	Toluene	23.08	91	21428	0.3447	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	23945	0.4595	ppbV	#	S	28
119)	Dibromochloromethane	23.77	129	12796	0.3020	ppbV	#	S	37
120)	3-Methylheptane	23.85	85	13162	0.4296	ppbV	#	S	1
122)	1,2-Dibromoethane	24.18	107	10332	0.3153	ppbV	#	S	1
125)	n-Octane	24.92	43	19573	0.3693	ppbV	#	S	47
126)	Tetrachloroethene	25.02	164	8016	0.3216	ppbV		S	92
128)	Chlorobenzene	26.23	112	10814	0.2746	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	18754	0.2798	ppbV		S	92
130)	m/p-Xylene	27.36	91	33419m	0.5520	ppbV		S	
131)	Bromoform	27.38	173	7867	0.2726	ppbV	#	S	1
134)	Styrene	28.03	104	8015	0.2565	ppbV	#	S	27
135)	1,1,2,2-Tetrachloroethane	28.23	83	11869	0.2966	ppbV		S	92
136)	o-Xylene	28.22	91	17534	0.2897	ppbV		S	85
140)	n-Nonane	28.85	43	15238	0.2867	ppbV	#	S	73
142)	Isopropylbenzene	29.45	105	24259	0.2630	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

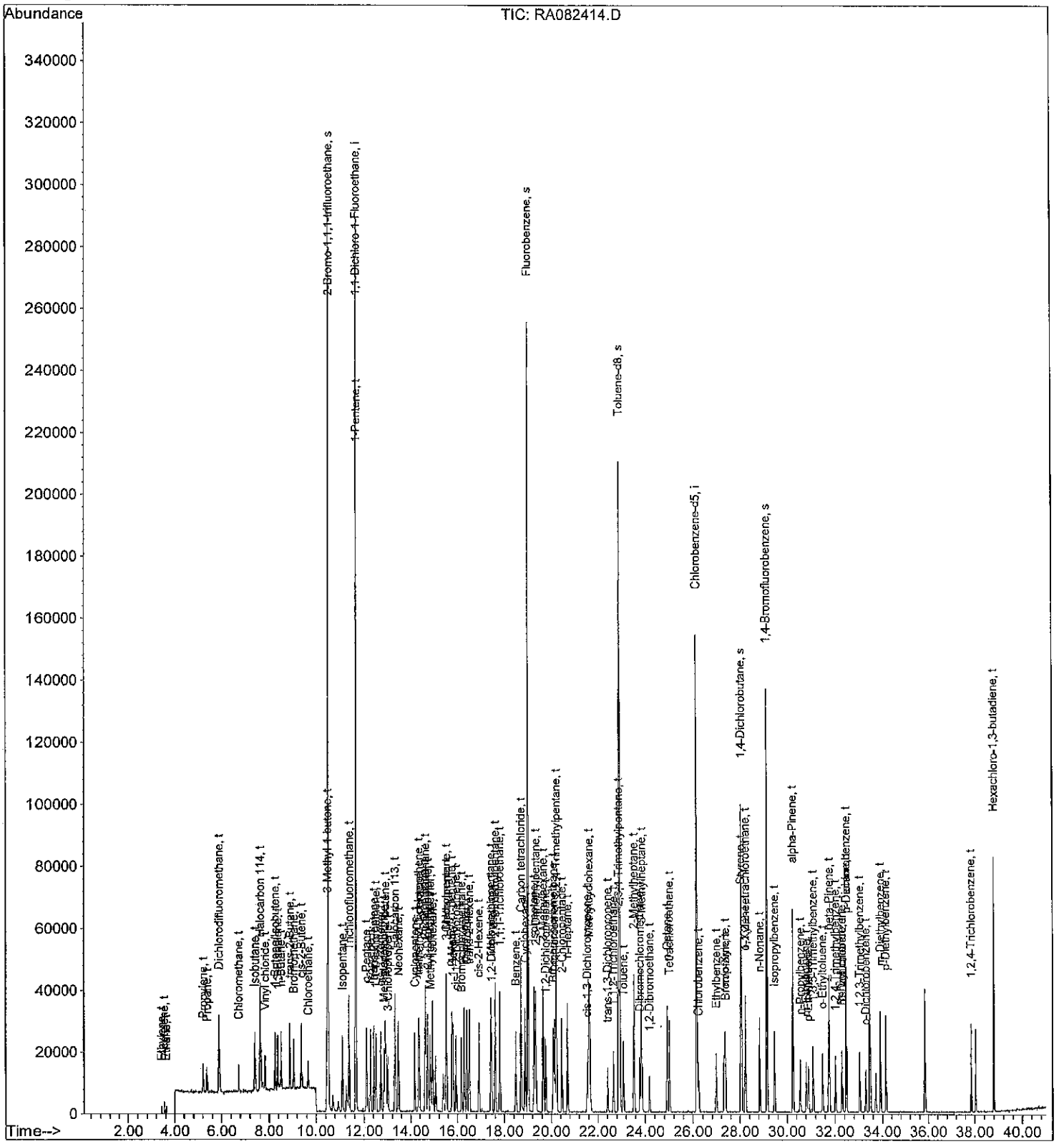
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144) alpha-Pinene	30.24	93	35954	0.4862	ppbV		S	95
147) n-Propylbenzene	30.56	91	20673	0.2360	ppbV	#	S	35
148) m-Ethyltoluene	30.81	105	15451	0.2409	ppbV		S	88
149) p-Ethyltoluene	30.90	105	13780	0.2207	ppbV		S	89
150) 1,3,5-Trimethylbenzene	31.10	105	18196	0.2860	ppbV		S	81
151) o-Ethyltoluene	31.48	105	17052	0.2433	ppbV		S	92
152) beta-Pinene	31.76	93	24147	0.3119	ppbV	#	S	1
153) 1,2,4-Trimethylbenzene	32.02	105	15223	0.2786	ppbV	#	S	1
156) Benzyl chloride	32.29	91	9138	0.2971	ppbV		S	97
157) m-Dichlorobenzene	32.31	146	6500	0.2458	ppbV		S	84
158) n-Decane	32.47	57	19296m	0.3651	ppbV		S	
159) p-Dichlorobenzene	32.47	146	5915	0.2376	ppbV		S	74
161) 1,2,3-Trimethylbenzene	33.03	105	16786	0.3001	ppbV		S	89
163) o-Dichlorobenzene	33.30	146	7253	0.3055	ppbV		S	84
167) m-Diethylbenzene	33.91	105	17862	0.4486	ppbV	#	S	24
168) p-Diethylbenzene	34.15	119	14994	0.4762	ppbV	#	S	1
172) 1,2,4-Trichlorobenzene	37.84	180	9260	0.4563	ppbV	#	S	100
174) Hexachloro-1,3-butadiene	38.81	225	15715	0.3666	ppbV		S	95

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	281748	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	106787	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	113931	2.0022 ppbV	0.01
Spiked Amount 2.000			Recovery	= 100.00%	
65) Fluorobenzene	19.00	96	258247	1.8391 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.00%	
113) Toluene-d8	22.92	98	189206	2.3273 ppbV	0.00
Spiked Amount 2.000			Recovery	= 116.50%	
115) 1,4-Dichlorobutane	28.06	90	15049	1.8837 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.00%	
141) 1,4-Bromofluorobenzene	29.14	95	71125	1.8751 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.00%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	4763m	0.5836 ppbV	S	
4) Acetylene	3.54	26	8598m	0.8269 ppbV	S	
5) Ethane	3.62	26	3263	0.7768 ppbV	S	97
7) Propylene	5.21	41	12607	0.5683 ppbV	S	93
9) Propane	5.37	43	5689	0.5322 ppbV	S	80
10) Dichlorodifluoromethane	5.89	85	73857	0.5812 ppbV	S	98
11) Chloromethane	6.73	50	18079	0.5608 ppbV	S	98
12) Isobutane	7.38	43	36150	0.5617 ppbV	S	93
13) Halocarbon 114	7.60	85	67482	0.5935 ppbV	S	88
15) Vinyl chloride	7.82	62	19973	0.5602 ppbV	S	98
16) 1-Butene/Isobutene	8.26	41	25849	0.5707 ppbV	S	75
17) 1,3-Butadiene	8.37	39	17555	0.6191 ppbV	S	97
18) n-Butane	8.52	43	32641	0.5645 ppbV	S	94
20) trans-2-Butene	8.90	41	24305	0.5740 ppbV	S	89
23) Bromomethane	9.06	94	19230	0.5705 ppbV	S	91
24) cis-2-Butene	9.37	41	25677	0.6027 ppbV	S	90
25) Chloroethane	9.66	64	10993	0.5638 ppbV	S	93
27) 3-Methyl-1-butene	10.46	55	51076	0.5942 ppbV	S	78
31) Isopentane	11.09	41	25346	0.5704 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	75124	0.6236 ppbV #	S	73
33) 1-Pentene	11.67	42	28065	0.5936 ppbV #	S	1
37) n-Pentane	12.10	43	37546	0.5937 ppbV #	S	83
39) Isoprene	12.26	67	24606	0.5832 ppbV	S	96
40) trans-2-Pentene	12.42	55	42799	0.5958 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	41294	0.6118 ppbV #	S	10
42) cis-2-Pentene	12.72	55	42348	0.5934 ppbV #	S	1
43) Methylene chloride	12.85	49	27583	0.5986 ppbV #	S	1
44) 2-Methyl-2-butene	12.90	55	44482	0.6167 ppbV #	S	1
46) 3-Chloropropene	13.01	41	26211	0.6966 ppbV #	S	1
47) Halocarbon 113	13.32	151	29146	0.6107 ppbV #	S	100
48) Neohexane	13.47	43	31176	0.6017 ppbV #	S	1
49) Cyclopentene	14.17	67	44559	0.5830 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.34	61	34598	0.6282 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	31103	0.6005 ppbV	S	90
53) 1,1-Dichloroethane	14.64	63	49514	0.7346 ppbV	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.62	42	39721	0.6693	ppbV		S	80
55)	2,3-Dimethylbutane	14.73	43	52851	0.6760	ppbV	#	S	65
56)	Methyl tert-butyl ether	14.83	73	64490	0.7310	ppbV	#	S	1
57)	Isohexane	14.93	42	27531m	0.7114	ppbV		S	
63)	Chloroprene	15.51	53	44434	0.7344	ppbV		S	80
64)	3-Methylpentane	15.53	57	44933	0.6746	ppbV		S	93
66)	2-Methyl-1-pentene	15.77	56	39191	0.6324	ppbV	#	S	1
67)	1-Hexene	15.80	41	24403m	0.5817	ppbV		S	
68)	cis-1,2-Dichloroethene	15.94	61	36021	0.6137	ppbV	#	S	1
69)	Bromochloromethane	16.17	130	16096	0.5680	ppbV	#	S	1
71)	n-Hexane	16.30	57	36453	0.6098	ppbV	#	S	1
72)	Chloroform	16.41	83	59642	0.6094	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	45650	0.6092	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	36117	0.5505	ppbV		S	95
78)	Methylcyclopentane	17.43	56	45401	0.6062	ppbV		S	89
79)	1,2-Dichloroethane	17.45	62	49243	0.5953	ppbV		S	89
80)	2,4-Dimethylpentane	17.61	43	52596	0.6156	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.81	97	66707	0.6078	ppbV	#	S	1
84)	Benzene	18.48	78	54189	0.9177	ppbV		S	75
85)	Carbon tetrachloride	18.70	117	64791	0.9826	ppbV	#	S	1
87)	Cyclohexane	18.87	56	39827	1.0762	ppbV	#	S	1
88)	Isoheptane	19.27	43	55648	0.9981	ppbV	#	S	32
89)	2,3-Dimethylpentane	19.34	56	46679m	0.9743	ppbV		S	
91)	3-Methylhexane	19.65	43	43199	0.9855	ppbV	#	S	84
92)	1,2-Dichloropropane	19.75	63	20828	0.8305	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	51996	0.8168	ppbV	#	S	1
94)	Trichloroethene	20.14	130	21167	0.7841	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	127356	0.9819	ppbV		S	91
98)	2-Chloropentane	20.46	70	28948	0.8256	ppbV	#	S	14
100)	n-Heptane	20.69	71	19985	0.8859	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	25213	0.7062	ppbV	#	S	1
106)	Methylcyclohexane	21.62	83	41443	0.9601	ppbV		S	96
110)	trans-1,3-Dichloropropene	22.42	75	24186	0.6726	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.66	97	16554	0.6947	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	72897	1.0024	ppbV		S	91
114)	Toluene	23.09	91	46956	0.7192	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	51721	0.9451	ppbV	#	S	1
119)	Dibromochloromethane	23.77	129	28757	0.6463	ppbV	#	S	38
120)	3-Methylheptane	23.85	85	29021	0.9018	ppbV	#	S	1
122)	1,2-Dibromoethane	24.18	107	22338	0.6491	ppbV	#	S	1
125)	n-Octane	24.92	43	45655	0.8203	ppbV	#	S	47
126)	Tetrachloroethene	25.02	164	17644	0.6741	ppbV		S	96
128)	Chlorobenzene	26.24	112	24935	0.6029	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	44081	0.6261	ppbV		S	97
130)	m/p-Xylene	27.35	91	78569m	1.2357	ppbV		S	
131)	Bromoform	27.38	173	17498	0.5773	ppbV	#	S	1
134)	Styrene	28.02	104	18078	0.5508	ppbV	#	S	22
135)	1,1,2,2-Tetrachloroethane	28.23	83	25138	0.5980	ppbV		S	93
136)	o-Xylene	28.23	91	41147	0.6473	ppbV		S	84
140)	n-Nonane	28.84	43	36748	0.6583	ppbV	#	S	70
142)	Isopropylbenzene	29.46	105	57729	0.5959	ppbV		S	100

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

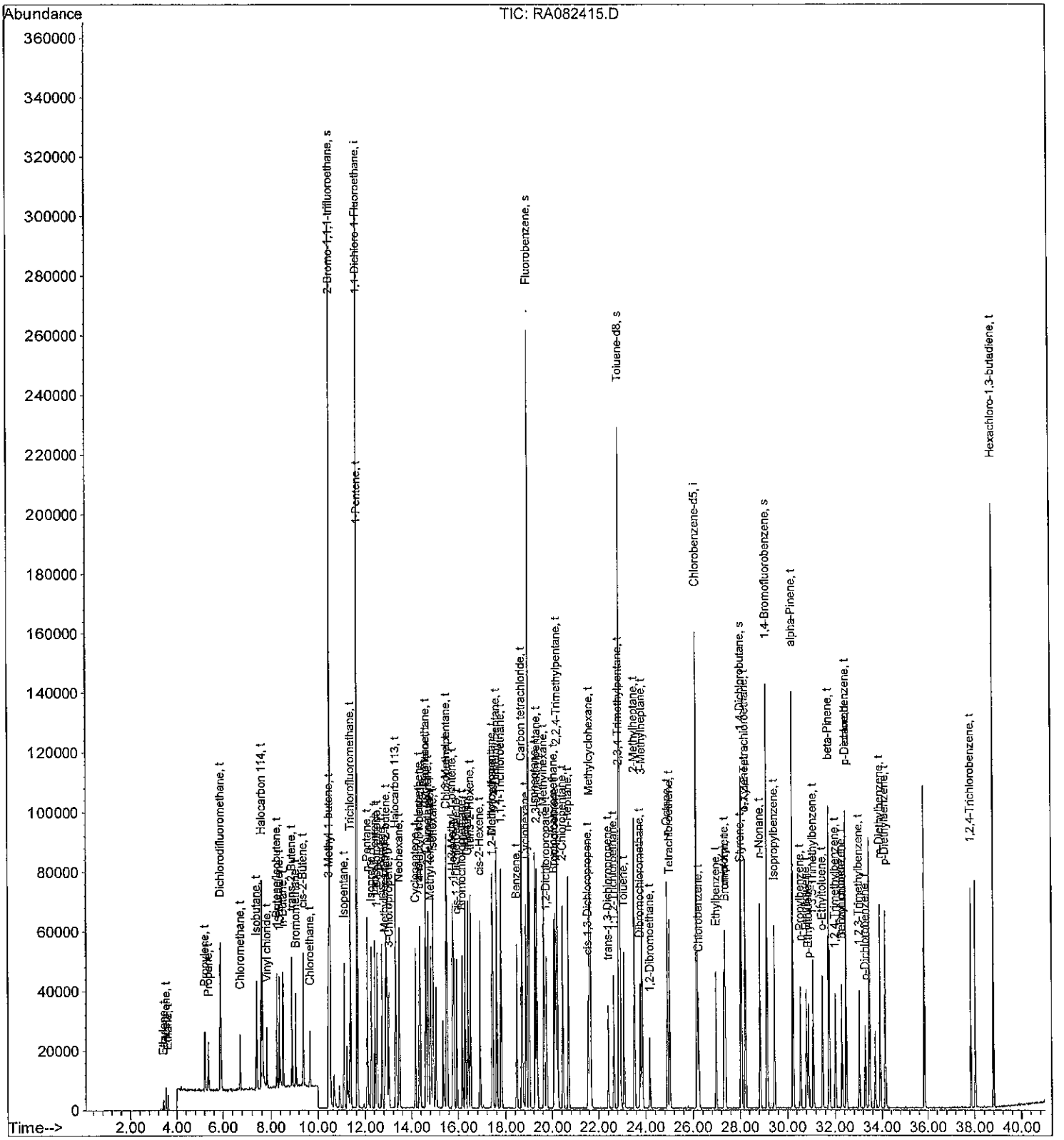
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.25	93	79260	1.0205	ppbV		S	96
147)	n-Propylbenzene	30.56	91	46665	0.5073	ppbV	#	S	36
148)	m-Ethyltoluene	30.81	105	35006	0.5197	ppbV		S	87
149)	p-Ethyltoluene	30.89	105	32336	0.4932	ppbV		S	84
150)	1,3,5-Trimethylbenzene	31.10	105	41885	0.6269	ppbV		S	83
151)	o-Ethyltoluene	31.49	105	40609	0.5518	ppbV		S	86
152)	beta-Pinene	31.77	93	53952	0.6636	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	34127	0.5947	ppbV	#	S	1
156)	Benzyl chloride	32.30	91	16897	0.5232	ppbV		S	94
157)	m-Dichlorobenzene	32.30	146	14111	0.5082	ppbV		S	84
158)	n-Decane	32.47	57	39716m	0.7154	ppbV		S	
159)	p-Dichlorobenzene	32.47	146	13021	0.4980	ppbV		S	79
161)	1,2,3-Trimethylbenzene	33.04	105	34583	0.5887	ppbV		S	85
163)	o-Dichlorobenzene	33.29	146	14669	0.5884	ppbV		S	91
167)	m-Diethylbenzene	33.92	105	38141	0.9120	ppbV	#	S	25
168)	p-Diethylbenzene	34.15	119	31216	0.9440	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	37.85	180	23065	1.0822	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	37598	0.8350	ppbV		S	89

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8.25.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	277742	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	104069	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	111959	1.9959 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
65) Fluorobenzene	19.00	96	252767	1.8260 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.50%	
113) Toluene-d8	22.92	98	187975	2.3726 ppbV	0.00
Spiked Amount 2.000			Recovery	= 118.50%	
115) 1,4-Dichlorobutane	28.06	90	14724	1.8912 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.50%	
141) 1,4-Bromofluorobenzene	29.13	95	70784	1.9148 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.50%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	9370m	1.1647 ppbV	S	
4) Acetylene	3.54	26	16460	1.6058 ppbV	S	91
5) Ethane	3.62	26	5911	1.4274 ppbV	S	95
7) Propylene	5.21	41	24520	1.1212 ppbV	S	96
9) Propane	5.37	43	11111	1.0543 ppbV	S	89
10) Dichlorodifluoromethane	5.88	85	146453	1.1691 ppbV	S	99
11) Chloromethane	6.73	50	34387	1.0821 ppbV	S	96
12) Isobutane	7.37	43	71206	1.1224 ppbV	S	93
13) Halocarbon 114	7.59	85	125454	1.1193 ppbV	S	88
15) Vinyl chloride	7.81	62	38543	1.0966 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	48850	1.0940 ppbV	S	74
17) 1,3-Butadiene	8.36	39	33484	1.1979 ppbV	S	94
18) n-Butane	8.52	43	60588	1.0629 ppbV	S	93
20) trans-2-Butene	8.89	41	45543	1.0911 ppbV	S	93
23) Bromomethane	9.06	94	36011	1.0838 ppbV	S	91
24) cis-2-Butene	9.37	41	48577	1.1567 ppbV	S	90
25) Chloroethane	9.64	64	20350	1.0587 ppbV	S	91
27) 3-Methyl-1-butene	10.46	55	94864	1.1195 ppbV	S	79
31) Isopentane	11.08	41	47425	1.0826 ppbV #	S	1
32) Trichlorofluoromethane	11.35	101	138460	1.1659 ppbV #	S	69
33) 1-Pentene	11.66	42	51448	1.1039 ppbV #	S	1
37) n-Pentane	12.09	43	69788	1.1194 ppbV #	S	84
39) Isoprene	12.26	67	45182	1.0863 ppbV	S	93
40) trans-2-Pentene	12.42	55	79438	1.1218 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	77619	1.1665 ppbV #	S	9
42) cis-2-Pentene	12.71	55	77978	1.1085 ppbV #	S	1
43) Methylene chloride	12.83	49	51009	1.1230 ppbV #	S	1
44) 2-Methyl-2-butene	12.89	55	81699	1.1490 ppbV #	S	1
46) 3-Chloropropene	13.00	41	48049	1.2954 ppbV #	S	1
47) Halocarbon 113	13.31	151	53399	1.1350 ppbV #	S	100
48) Neohexane	13.46	43	57525	1.1263 ppbV #	S	1
49) Cyclopentene	14.17	67	84478	1.1212 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.33	61	63371	1.1673 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	56710	1.1107 ppbV	S	90
53) 1,1-Dichloroethane	14.62	63	91064	1.3705 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
54)	Cyclopentane	14.61	42	75961	1.2985 ppbV		S	82
55)	2,3-Dimethylbutane	14.72	43	97282	1.2623 ppbV	#	S	62
56)	Methyl tert-butyl ether	14.81	73	122729	1.4112 ppbV	#	S	1
57)	Isohexane	14.93	42	51433m	1.3482 ppbV		S	
63)	Chloroprene	15.50	53	81639	1.3687 ppbV		S	77
64)	3-Methylpentane	15.52	57	84721	1.2903 ppbV		S	95
66)	2-Methyl-1-pentene	15.76	56	79542	1.3021 ppbV	#	S	1
67)	1-Hexene	15.80	41	50060m	1.2105 ppbV		S	
68)	cis-1,2-Dichloroethene	15.93	61	68210	1.1789 ppbV	#	S	1
69)	Bromochloromethane	16.16	130	30280	1.0839 ppbV	#	S	1
71)	n-Hexane	16.29	57	70296	1.1929 ppbV	#	S	1
72)	Chloroform	16.40	83	107630	1.1157 ppbV	#	S	1
74)	trans-2-Hexene	16.50	55	84307	1.1413 ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	69357	1.0724 ppbV		S	95
78)	Methylcyclopentane	17.42	56	84951	1.1507 ppbV		S	86
79)	1,2-Dichloroethane	17.45	62	86351	1.0590 ppbV		S	90
80)	2,4-Dimethylpentane	17.61	43	99792	1.1848 ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.80	97	125658	1.1615 ppbV	#	S	1
84)	Benzene	18.47	78	101842	1.7698 ppbV		S	77
85)	Carbon tetrachloride	18.70	117	123367	1.9198 ppbV	#	S	1
87)	Cyclohexane	18.87	56	73744	2.0447 ppbV	#	S	1
88)	Isoheptane	19.26	43	106160	1.9539 ppbV	#	S	31
89)	2,3-Dimethylpentane	19.33	56	87144m	1.8665 ppbV		S	
91)	3-Methylhexane	19.65	43	82285	1.9262 ppbV	#	S	80
92)	1,2-Dichloropropane	19.75	63	38904	1.5918 ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	93936	1.5142 ppbV	#	S	1
94)	Trichloroethene	20.13	130	38269	1.4547 ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	238866	1.8898 ppbV		S	90
98)	2-Chloropentane	20.45	70	56077	1.6411 ppbV	#	S	14
100)	n-Heptane	20.69	71	39907	1.8152 ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	43894	1.2616 ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	79887	1.8991 ppbV		S	96
110)	trans-1,3-Dichloropropene	22.41	75	42996	1.2269 ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	29654	1.2769 ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	138176	1.9496 ppbV		S	93
114)	Toluene	23.09	91	88890	1.3971 ppbV	#	S	1
117)	2-Methylheptane	23.53	43	100577	1.8858 ppbV	#	S	6
119)	Dibromochloromethane	23.77	129	52485	1.2104 ppbV	#	S	38
120)	3-Methylheptane	23.85	85	55762	1.7780 ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	35876	1.0698 ppbV	#	S	1
125)	n-Octane	24.91	43	90033	1.6599 ppbV	#	S	47
126)	Tetrachloroethene	25.02	164	31707	1.2430 ppbV		S	94
128)	Chlorobenzene	26.24	112	45471	1.1282 ppbV	#	S	1
129)	Ethylbenzene	26.98	91	91008	1.3265 ppbV		S	98
130)	m/p-Xylene	27.31	91	155632m	2.5117 ppbV		S	
131)	Bromoform	27.38	173	32422	1.0976 ppbV	#	S	1
134)	Styrene	28.02	104	36099	1.1286 ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	48534	1.1848 ppbV		S	93
136)	o-Xylene	28.22	91	81938	1.3227 ppbV		S	89
140)	n-Nonane	28.84	43	75546	1.3887 ppbV	#	S	70
142)	Isopropylbenzene	29.45	105	116310	1.2319 ppbV		S	100

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

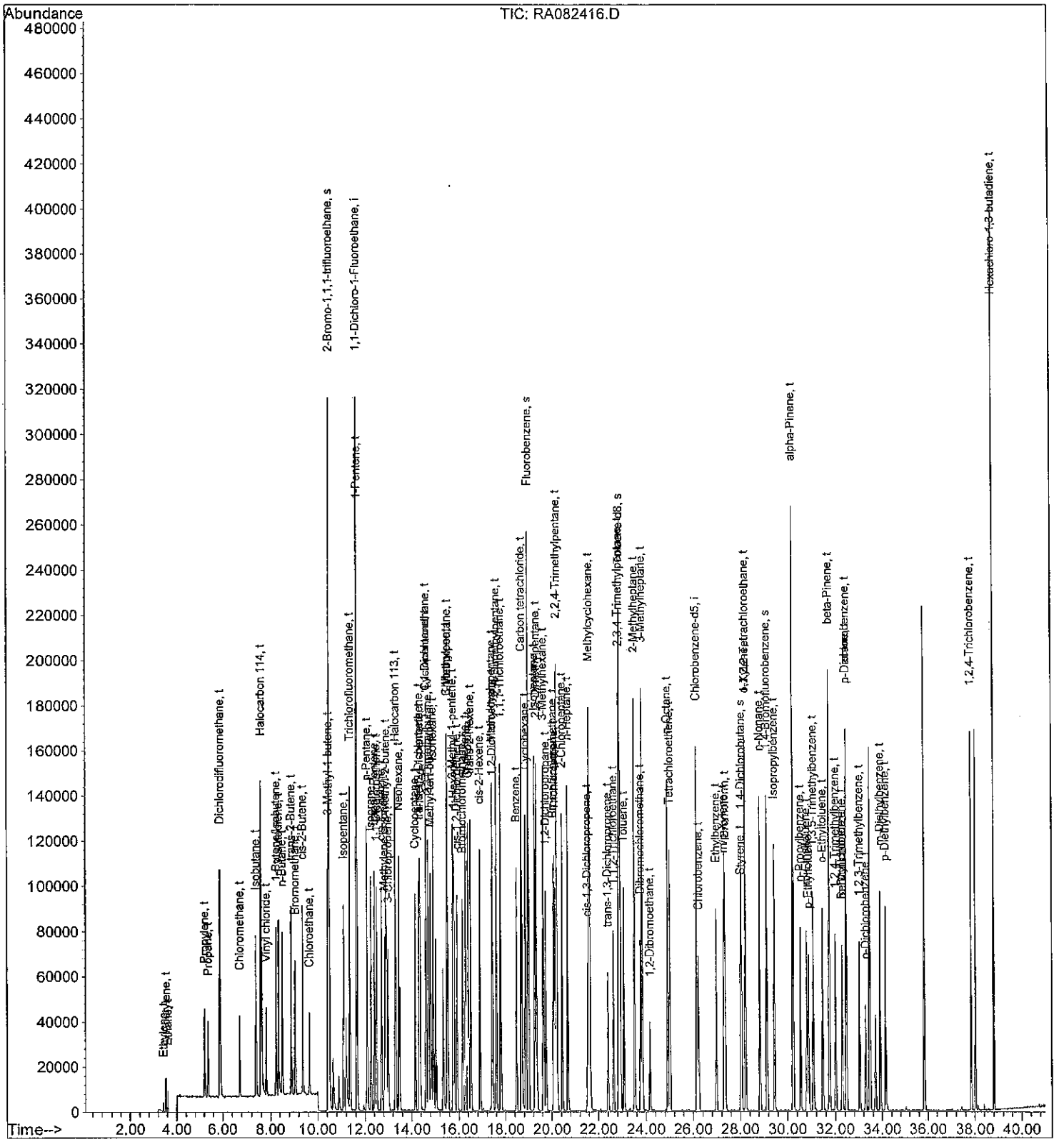
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.24	93	154033	2.0351	ppbV		S	95
147)	n-Propylbenzene	30.56	91	97495	1.0875	ppbV	#	S	34
148)	m-Ethyltoluene	30.81	105	71652	1.0916	ppbV		S	89
149)	p-Ethyltoluene	30.89	105	65727	1.0287	ppbV		S	86
150)	1,3,5-Trimethylbenzene	31.10	105	82379	1.2651	ppbV		S	90
151)	o-Ethyltoluene	31.49	105	81834	1.1410	ppbV		S	89
152)	beta-Pinene	31.77	93	106644	1.3459	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	67008	1.1982	ppbV	#	S	1
156)	Benzyl chloride	32.30	91	26915	0.8551	ppbV		S	97
157)	m-Dichlorobenzene	32.30	146	27307	1.0091	ppbV		S	85
158)	n-Decane	32.47	57	65710	1.2146	ppbV		S	68
159)	p-Dichlorobenzene	32.48	146	24667	0.9681	ppbV		S	83
161)	1,2,3-Trimethylbenzene	33.04	105	66517	1.1618	ppbV		S	87
163)	o-Dichlorobenzene	33.29	146	24713	1.0172	ppbV		S	92
167)	m-Diethylbenzene	33.91	105	53778	1.3195	ppbV	#	S	28
168)	p-Diethylbenzene	34.15	119	44062m	1.3673	ppbV		S	
172)	1,2,4-Trichlorobenzene	37.85	180	51261	2.4679	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	78894	1.7980	ppbV		S	93

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8/25/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	280664	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	116150	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	112400	1.9829 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
65) Fluorobenzene	19.00	96	272300	1.9467 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
113) Toluene-d8	22.92	98	206718	2.3378 ppbV	0.00
Spiked Amount 2.000			Recovery	= 117.00%	
115) 1,4-Dichlorobutane	28.06	90	16627	1.9135 ppbV	0.02
Spiked Amount 2.000			Recovery	= 95.50%	
141) 1,4-Bromofluorobenzene	29.13	95	76130	1.8452 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	22709m	2.7933 ppbV	S	
4) Acetylene	3.54	26	40321	3.8927 ppbV	S	91
5) Ethane	3.62	26	11616	2.7759 ppbV	S	99
7) Propylene	5.21	41	59296	2.6832 ppbV	S	94
9) Propane	5.36	43	26990	2.5344 ppbV	S	92
10) Dichlorodifluoromethane	5.88	85	346789	2.7396 ppbV	S	98
11) Chloromethane	6.73	50	85290	2.6559 ppbV	S	98
12) Isobutane	7.37	43	172198	2.6860 ppbV	S	94
13) Halocarbon 114	7.58	85	300207	2.6505 ppbV	S	88
15) Vinyl chloride	7.81	62	95300	2.6832 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	120491	2.6704 ppbV	S	76
17) 1,3-Butadiene	8.36	39	82337	2.9149 ppbV	S	95
18) n-Butane	8.52	43	147922	2.5681 ppbV	S	96
20) trans-2-Butene	8.89	41	110744	2.6256 ppbV	S	89
23) Bromomethane	9.06	94	87101	2.5942 ppbV	S	94
24) cis-2-Butene	9.37	41	117560	2.7702 ppbV	S	89
25) Chloroethane	9.64	64	49466	2.5466 ppbV	S	93
27) 3-Methyl-1-butene	10.46	55	234524	2.7389 ppbV	S	80
31) Isopentane	11.08	41	111783	2.5252 ppbV #	S	1
32) Trichlorofluoromethane	11.35	101	323795	2.6981 ppbV #	S	71
33) 1-Pentene	11.67	42	126086	2.6771 ppbV #	S	1
37) n-Pentane	12.09	43	169656	2.6930 ppbV	S	85
39) Isoprene	12.26	67	112931	2.6869 ppbV	S	93
40) trans-2-Pentene	12.42	55	197262	2.7566 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	186149	2.7685 ppbV #	S	10
42) cis-2-Pentene	12.72	55	191962	2.7004 ppbV #	S	1
43) Methylene chloride	12.84	49	121876	2.6553 ppbV #	S	1
44) 2-Methyl-2-butene	12.90	55	203625	2.8340 ppbV #	S	1
46) 3-Chloropropene	13.01	41	118809	3.1697 ppbV #	S	1
47) Halocarbon 113	13.31	151	127573	2.6834 ppbV #	S	100
48) Neohexane	13.47	43	137146	2.6573 ppbV #	S	1
49) Cyclopentene	14.17	67	204935	2.6916 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.33	61	153293	2.7943 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	138721	2.6887 ppbV	S	88
53) 1,1-Dichloroethane	14.63	63	220418	3.2826 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
54)	Cyclopentane	14.62	42	182492	3.0870 ppbV	S	81
55)	2,3-Dimethylbutane	14.72	43	238981	3.0687 ppbV #	S	65
56)	Methyl tert-butyl ether	14.81	73	301884	3.4350 ppbV #	S	1
57)	Isohexane	14.93	42	125140m	3.2460 ppbV	S	
63)	Chloroprene	15.50	53	211236	3.5046 ppbV	S	79
64)	3-Methylpentane	15.53	57	205742	3.1008 ppbV	S	96
66)	2-Methyl-1-pentene	15.76	56	190086	3.0793 ppbV #	S	1
67)	1-Hexene	15.80	41	122029m	2.9200 ppbV	S	
68)	cis-1,2-Dichloroethene	15.93	61	170575	2.9173 ppbV #	S	1
69)	Bromochloromethane	16.17	130	74002	2.6215 ppbV #	S	1
71)	n-Hexane	16.29	57	175584	2.9487 ppbV #	S	1
72)	Chloroform	16.40	83	268405	2.7532 ppbV #	S	1
74)	trans-2-Hexene	16.51	55	217758	2.9172 ppbV #	S	1
77)	cis-2-Hexene	16.91	55	175835	2.6904 ppbV	S	97
78)	Methylcyclopentane	17.43	56	209082	2.8026 ppbV	S	89
79)	1,2-Dichloroethane	17.45	62	223755	2.7154 ppbV	S	90
80)	2,4-Dimethylpentane	17.61	43	240639	2.8272 ppbV #	S	1
81)	1,1,1-Trichloroethane	17.80	97	302611	2.7681 ppbV #	S	1
84)	Benzene	18.48	78	263712	4.1062 ppbV	S	81
85)	Carbon tetrachloride	18.70	117	295915	4.1260 ppbV #	S	1
87)	Cyclohexane	18.87	56	175837	4.3683 ppbV #	S	1
88)	Isoheptane	19.27	43	260440	4.2948 ppbV #	S	29
89)	2,3-Dimethylpentane	19.34	56	211949m	4.0674 ppbV	S	
91)	3-Methylhexane	19.65	43	202837	4.2544 ppbV #	S	78
92)	1,2-Dichloropropane	19.75	63	102680	3.7642 ppbV #	S	1
93)	Bromodichloromethane	20.08	83	246048	3.5535 ppbV #	S	1
94)	Trichloroethene	20.14	130	105257	3.5848 ppbV #	S	1
97)	2,2,4-Trimethylpentane	20.22	57	585857	4.1528 ppbV	S	91
98)	2-Chloropentane	20.45	70	149075	3.9089 ppbV #	S	11
100)	n-Heptane	20.70	71	100769	4.1069 ppbV #	S	1
104)	cis-1,3-Dichloropropene	21.54	75	135176	3.4812 ppbV #	S	1
106)	Methylcyclohexane	21.61	83	192957	4.1100 ppbV	S	95
110)	trans-1,3-Dichloropropene	22.41	75	131413	3.3598 ppbV #	S	1
111)	1,1,2-Trichloroethane	22.65	97	80025	3.0874 ppbV #	S	1
112)	2,3,4-Trimethylpentane	22.87	43	340093	4.2995 ppbV	S	94
114)	Toluene	23.09	91	244108	3.4376 ppbV #	S	1
117)	2-Methylheptane	23.53	43	249277	4.1877 ppbV #	S	11
119)	Dibromochloromethane	23.77	129	140248	2.8980 ppbV #	S	41
120)	3-Methylheptane	23.85	85	139124	3.9747 ppbV #	S	1
122)	1,2-Dibromoethane	24.18	107	110147	2.9428 ppbV #	S	1
125)	n-Octane	24.91	43	235165	3.8847 ppbV #	S	48
126)	Tetrachloroethene	25.02	164	86217	3.0285 ppbV	S	94
128)	Chlorobenzene	26.23	112	125124	2.7816 ppbV #	S	1
129)	Ethylbenzene	26.98	91	249395	3.2569 ppbV	S	97
130)	m/p-Xylene	27.31	91	421763m	6.0988 ppbV	S	
131)	Bromoform	27.38	173	85959	2.6073 ppbV #	S	1
134)	Styrene	28.02	104	101449	2.8418 ppbV #	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	132396	2.8958 ppbV	S	94
136)	o-Xylene	28.23	91	220108	3.1835 ppbV	S	89
140)	n-Nonane	28.84	43	197819	3.2582 ppbV #	S	73
142)	Isopropylbenzene	29.45	105	312269	2.9635 ppbV	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.24	93	382717	4.5306	ppbV		S	95
147)	n-Propylbenzene	30.56	91	265570	2.6542	ppbV	#	S	35
148)	m-Ethyltoluene	30.82	105	202203	2.7600	ppbV		S	90
149)	p-Ethyltoluene	30.90	105	182416	2.5581	ppbV		S	88
150)	1,3,5-Trimethylbenzene	31.09	105	244477	3.3640	ppbV		S	87
151)	o-Ethyltoluene	31.49	105	241628	3.0184	ppbV		S	89
152)	beta-Pinene	31.77	93	270176	3.0552	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	232311	3.7221	ppbV	#	S	1
156)	Benzyl chloride	32.30	91	168721	4.8027	ppbV		S	99
157)	m-Dichlorobenzene	32.30	146	88422	2.9276	ppbV		S	84
158)	n-Decane	32.48	57	260278	4.3107	ppbV		S	77
159)	p-Dichlorobenzene	32.48	146	91417	3.2148	ppbV		S	82
161)	1,2,3-Trimethylbenzene	33.04	105	302489	4.7338	ppbV		S	84
163)	o-Dichlorobenzene	33.29	146	126795	4.6759	ppbV		S	93
167)	m-Diethylbenzene	33.92	105	232429	5.1096	ppbV	#	S	28
168)	p-Diethylbenzene	34.15	119	194983	5.4212	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	37.85	180	126132	5.4409	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	196945	4.0215	ppbV		S	94

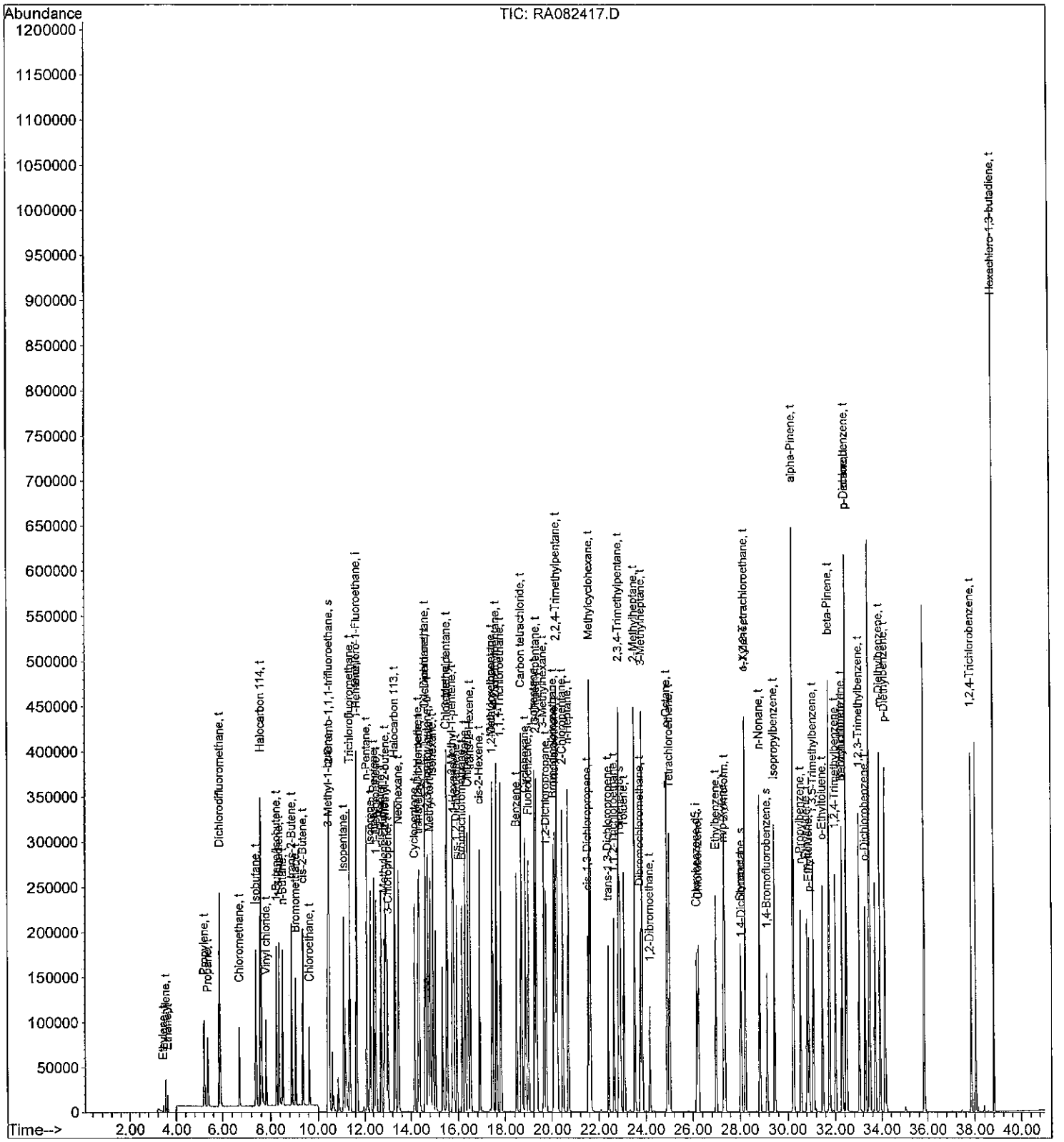
(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

102/179

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

103/179

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	282994	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	137343	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	114746	2.0076 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
65) Fluorobenzene	19.00	96	295961	2.0984 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	
113) Toluene-d8	22.92	98	239836	2.2938 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.50%	
115) 1,4-Dichlorobutane	28.05	90	19497	1.8976 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.00%	
141) 1,4-Bromofluorobenzene	29.13	95	88976	1.8238 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.00%	

Target Compounds					Qvalue
3) Ethylene	3.43	26	43373m	5.2912 ppbV	S
4) Acetylene	3.54	26	82922	7.9397 ppbV	S 91
5) Ethane	3.62	26	21347	5.0594 ppbV	S 99
7) Propylene	5.21	41	124077	5.5684 ppbV	S 98
9) Propane	5.36	43	55071	5.1287 ppbV	S 93
10) Dichlorodifluoromethane	5.88	85	683080	5.3518 ppbV	S 99
11) Chloromethane	6.72	50	171297	5.2903 ppbV	S 96
12) Isobutane	7.37	43	350892	5.4283 ppbV	S 94
13) Halocarbon 114	7.58	85	594788	5.2081 ppbV	S 87
15) Vinyl chloride	7.81	62	194347	5.4269 ppbV	S 98
16) 1-Butene/Isobutene	8.25	41	244909	5.3831 ppbV	S 77
17) 1,3-Butadiene	8.36	39	166404	5.8426 ppbV	S 96
18) n-Butane	8.51	43	299502	5.1569 ppbV	S 95
20) trans-2-Butene	8.89	41	224943	5.2891 ppbV	S 90
23) Bromomethane	9.05	94	178323	5.2673 ppbV	S 93
24) cis-2-Butene	9.37	41	240781	5.6271 ppbV	S 88
25) Chloroethane	9.64	64	101246	5.1695 ppbV	S 92
27) 3-Methyl-1-butene	10.45	55	469397	5.4366 ppbV	S 81
31) Isopentane	11.08	41	220705	4.9446 ppbV #	S 1
32) Trichlorofluoromethane	11.35	101	634340	5.2422 ppbV #	S 71
33) 1-Pentene	11.66	42	254781	5.3651 ppbV #	S 1
37) n-Pentane	12.08	43	336295	5.2942 ppbV	S 85
39) Isoprene	12.26	67	227483	5.3678 ppbV	S 93
40) trans-2-Pentene	12.41	55	394631	5.4693 ppbV #	S 1
41) 1,1-Dichloroethene	12.50	61	370173	5.4600 ppbV #	S 9
42) cis-2-Pentene	12.71	55	383509	5.3506 ppbV #	S 1
43) Methylene chloride	12.83	49	242024	5.2296 ppbV #	S 1
44) 2-Methyl-2-butene	12.90	55	408170	5.6341 ppbV #	S 1
46) 3-Chloropropene	13.00	41	236430	6.2557 ppbV #	S 1
47) Halocarbon 113	13.30	151	250653	5.2289 ppbV #	S 100
48) Neohexane	13.46	43	270977	5.2071 ppbV #	S 1
49) Cyclopentene	14.17	67	411879	5.3651 ppbV #	S 1
50) trans-1,2-Dichloroethene	14.33	61	300714	5.4363 ppbV #	S 1
51) 4-Methyl-1-pentene	14.37	43	277521	5.3347 ppbV	S 91
53) 1,1-Dichloroethane	14.62	63	448031	6.6175 ppbV #	S 100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.61	42	371690	6.2357	ppbV		S	82
55)	2,3-Dimethylbutane	14.72	43	482458	6.1441	ppbV	#	S	63
56)	Methyl tert-butyl ether	14.80	73	616069	6.9522	ppbV	#	S	1
57)	Isohexane	14.93	42	251250	6.4636	ppbV	#	S	47
63)	Chloroprene	15.50	53	427603	7.0359	ppbV		S	80
64)	3-Methylpentane	15.53	57	417303	6.2375	ppbV		S	97
66)	2-Methyl-1-pentene	15.76	56	378534	6.0817	ppbV	#	S	1
67)	1-Hexene	15.80	41	231914m	5.5036	ppbV		S	
68)	cis-1,2-Dichloroethene	15.93	61	342507	5.8097	ppbV	#	S	1
69)	Bromochloromethane	16.16	130	148796	5.2277	ppbV	#	S	1
71)	n-Hexane	16.29	57	363709	6.0577	ppbV	#	S	1
72)	Chloroform	16.40	83	540182	5.4955	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	451689	6.0012	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	367482	5.5765	ppbV		S	94
78)	Methylcyclopentane	17.43	56	434559	5.7771	ppbV		S	92
79)	1,2-Dichloroethane	17.45	62	448518	5.3983	ppbV		S	89
80)	2,4-Dimethylpentane	17.61	43	497413	5.7959	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.79	97	605337	5.4917	ppbV	#	S	1
84)	Benzene	18.48	78	561570	7.3948	ppbV		S	81
85)	Carbon tetrachloride	18.70	117	587687	6.9297	ppbV	#	S	1
87)	Cyclohexane	18.87	56	368531	7.7427	ppbV	#	S	1
88)	Isoheptane	19.27	43	524491	7.3145	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.34	56	439368m	7.1307	ppbV		S	
91)	3-Methylhexane	19.65	43	421247	7.4721	ppbV	#	S	80
92)	1,2-Dichloropropane	19.75	63	219288	6.7986	ppbV	#	S	1
93)	Bromodichloromethane	20.07	83	517331	6.3186	ppbV	#	S	1
94)	Trichloroethene	20.14	130	226472	6.5230	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	1197500	7.1786	ppbV		S	93
98)	2-Chloropentane	20.45	70	322627	7.1543	ppbV	#	S	11
100)	n-Heptane	20.70	71	217678	7.5026	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	304266	6.6267	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	396640	7.1447	ppbV		S	91
110)	trans-1,3-Dichloropropene	22.41	75	296866	6.4186	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	180146	5.8777	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	697248	7.4545	ppbV		S	94
114)	Toluene	23.09	91	550129	6.5516	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	520436	7.3939	ppbV	#	S	12
119)	Dibromochloromethane	23.77	129	308961	5.3991	ppbV	#	S	44
120)	3-Methylheptane	23.85	85	295558	7.1410	ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	243205	5.4951	ppbV	#	S	1
125)	n-Octane	24.92	43	515506	7.2017	ppbV	#	S	49
126)	Tetrachloroethene	25.02	164	194490	5.7775	ppbV		S	97
128)	Chlorobenzene	26.23	112	287501	5.4051	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	578938	6.3939	ppbV		S	98
130)	m/p-Xylene	27.35	91	969639m	11.8576	ppbV		S	
131)	Bromoform	27.38	173	191923	4.9230	ppbV	#	S	1
134)	Styrene	28.02	104	240004	5.6856	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	402456	7.4444	ppbV		S	95
136)	o-Xylene	28.23	91	500822	6.1258	ppbV		S	90
140)	n-Nonane	28.84	43	449897	6.2666	ppbV	#	S	73
142)	Isopropylbenzene	29.46	105	725106	5.8195	ppbV		S	100

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

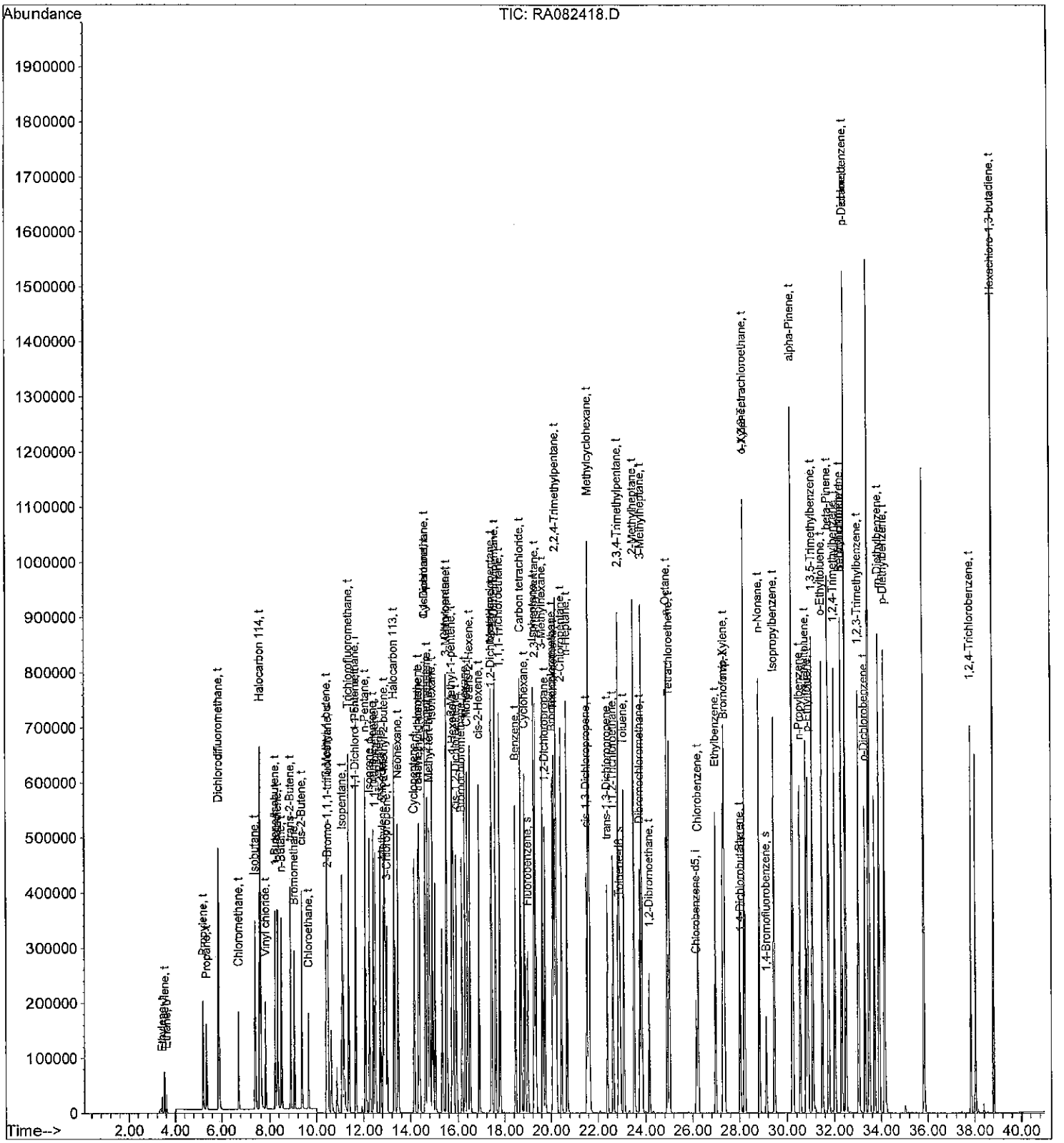
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.24	93	787945	7.8883	ppbV		S	95
147)	n-Propylbenzene	30.56	91	720081	6.0863	ppbV	#	S	35
148)	m-Ethyltoluene	30.81	105	653706	7.5460	ppbV		S	91
149)	p-Ethyltoluene	30.90	105	597705	7.0885	ppbV		S	89
150)	1,3,5-Trimethylbenzene	31.09	105	774513	9.0129	ppbV		S	88
151)	o-Ethyltoluene	31.49	105	799151	8.4426	ppbV		S	88
152)	beta-Pinene	31.77	93	573334	5.4829	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	727367	9.8557	ppbV	#	S	1
156)	Benzyl chloride	32.30	91	406538	9.7866	ppbV		S	98
157)	m-Dichlorobenzene	32.30	146	306445	8.5805	ppbV		S	86
158)	n-Decane	32.48	57	588510	8.2428	ppbV		S	78
159)	p-Dichlorobenzene	32.48	146	295952	8.8015	ppbV		S	85
161)	1,2,3-Trimethylbenzene	33.04	105	727759	9.6317	ppbV		S	87
163)	o-Dichlorobenzene	33.30	146	315085	9.8266	ppbV		S	96
167)	m-Diethylbenzene	33.92	105	514539	9.5659	ppbV	#	S	27
168)	p-Diethylbenzene	34.15	119	425995	10.0165	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	37.85	180	231020	8.4276	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	344831	5.9547	ppbV		S	95

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.63	81	280518	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.16	117	150473	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.48	83	117480	2.0736 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 103.50%	
65) Fluorobenzene	18.99	96	313274	2.2407 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.00%	
113) Toluene-d8	22.92	98	259535	2.2656 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.50%	
115) 1,4-Dichlorobutane	28.05	90	23445	2.0827 ppbV	0.01
Spiked Amount 2.000			Recovery	= 104.00%	
141) 1,4-Bromofluorobenzene	29.13	95	100867	1.8872 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	

Target Compounds					Qvalue
3) Ethylene	3.31	26	71238m	8.7673 ppbV	S
4) Acetylene	3.54	26	130553	12.6106 ppbV	S 91
5) Ethane	3.62	26	28855	6.8992 ppbV	S 98
7) Propylene	5.21	41	195853	8.8672 ppbV	S 98
9) Propane	5.36	43	86576	8.1339 ppbV	S 95
10) Dichlorodifluoromethane	5.87	85	1042868	8.2428 ppbV	S 99
11) Chloromethane	6.72	50	270856	8.4389 ppbV	S 98
12) Isobutane	7.37	43	548691	8.5631 ppbV	S 97
13) Halocarbon 114	7.58	85	911591	8.0525 ppbV	S 89
15) Vinyl chloride	7.80	62	307785	8.6703 ppbV	S 99
16) 1-Butene/Isobutene	8.24	41	382806	8.4884 ppbV	S 77
17) 1,3-Butadiene	8.35	39	255460	9.0485 ppbV	S 95
18) n-Butane	8.50	43	464322	8.0653 ppbV	S 97
20) trans-2-Butene	8.88	41	350723	8.3194 ppbV	S 89
23) Bromomethane	9.04	94	276239	8.2316 ppbV	S 95
24) cis-2-Butene	9.36	41	370267	8.7296 ppbV	S 89
25) Chloroethane	9.63	64	160043	8.2437 ppbV	S 94
27) 3-Methyl-1-butene	10.44	55	721220	8.4270 ppbV	S 82
31) Isopentane	11.07	41	351108	7.9356 ppbV #	S 1
32) Trichlorofluoromethane	11.34	101	938703	7.8260 ppbV #	S 71
33) 1-Pentene	11.65	42	389312	8.2704 ppbV #	S 1
37) n-Pentane	12.07	43	511115	8.1174 ppbV #	S 83
39) Isoprene	12.25	67	353542	8.4159 ppbV	S 94
40) trans-2-Pentene	12.40	55	606694	8.4826 ppbV #	S 1
41) 1,1-Dichloroethene	12.49	61	555665	8.2684 ppbV #	S 9
42) cis-2-Pentene	12.70	55	591153	8.3204 ppbV #	S 1
43) Methylene chloride	12.82	49	366652	7.9924 ppbV #	S 1
44) 2-Methyl-2-butene	12.88	55	625829	8.7147 ppbV #	S 1
46) 3-Chloropropene	12.99	41	360682	9.6276 ppbV #	S 1
47) Halocarbon 113	13.30	151	377325	7.9410 ppbV #	S 100
48) Neohexane	13.46	43	415065	8.0463 ppbV #	S 1
49) Cyclopentene	14.15	67	633484	8.3245 ppbV #	S 1
50) trans-1,2-Dichloroethene	14.32	61	456949	8.3337 ppbV #	S 1
51) 4-Methyl-1-pentene	14.36	43	418971	8.1248 ppbV	S 92
53) 1,1-Dichloroethane	14.61	63	681813	10.1593 ppbV #	S 100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	Cyclopentane	14.60	42	570693	9.6588	ppbV	S	83
55)	2,3-Dimethylbutane	14.71	43	751315	9.6525	ppbV #	S	62
56)	Methyl tert-butyl ether	14.79	73	959975	10.9287	ppbV #	S	1
57)	Isohexane	14.92	42	392758m	10.1932	ppbV	S	
63)	Chloroprene	15.49	53	649547	10.7822	ppbV	S	80
64)	3-Methylpentane	15.52	57	649982	9.8011	ppbV	S	97
66)	2-Methyl-1-pentene	15.75	56	579361	9.3904	ppbV #	S	1
67)	1-Hexene	15.79	41	366848m	8.7827	ppbV	S	
68)	cis-1,2-Dichloroethene	15.92	61	528620	9.0457	ppbV #	S	1
69)	Bromochloromethane	16.15	130	231515	8.2056	ppbV #	S	1
71)	n-Hexane	16.28	57	569114	9.5625	ppbV #	S	1
72)	Chloroform	16.39	83	825688	8.4742	ppbV #	S	1
74)	trans-2-Hexene	16.50	55	703773	9.4330	ppbV #	S	1
77)	cis-2-Hexene	16.89	55	581207	8.8977	ppbV	S	94
78)	Methylcyclopentane	17.41	56	677435	9.0854	ppbV	S	92
79)	1,2-Dichloroethane	17.44	62	680257	8.2597	ppbV	S	90
80)	2,4-Dimethylpentane	17.60	43	764355	8.9850	ppbV #	S	1
81)	1,1,1-Trichloroethane	17.79	97	912829	8.3544	ppbV #	S	1
84)	Benzene	18.47	78	891832	10.7190	ppbV	S	83
85)	Carbon tetrachloride	18.69	117	880435	9.4758	ppbV #	S	1
87)	Cyclohexane	18.86	56	568822	10.9079	ppbV #	S	1
88)	Isoheptane	19.25	43	813642	10.3569	ppbV #	S	29
89)	2,3-Dimethylpentane	19.33	56	683080m	10.1186	ppbV	S	
91)	3-Methylhexane	19.64	43	646260	10.4631	ppbV #	S	80
92)	1,2-Dichloropropane	19.74	63	353808	10.0120	ppbV #	S	1
93)	Bromodichloromethane	20.07	83	806997	8.9965	ppbV #	S	1
94)	Trichloroethene	20.13	130	357149	9.3892	ppbV #	S	1
97)	2,2,4-Trimethylpentane	20.21	57	1860688	10.1809	ppbV	S	94
98)	2-Chloropentane	20.45	70	511209	10.3470	ppbV #	S	10
100)	n-Heptane	20.69	71	347156	10.9212	ppbV #	S	1
104)	cis-1,3-Dichloropropene	21.53	75	497539	9.8905	ppbV #	S	1
106)	Methylcyclohexane	21.61	83	620725	10.2056	ppbV	S	95
110)	trans-1,3-Dichloropropene	22.41	75	486879	9.6084	ppbV #	S	1
111)	1,1,2-Trichloroethane	22.65	97	295143	8.7894	ppbV #	S	1
112)	2,3,4-Trimethylpentane	22.87	43	1078574	10.5252	ppbV	S	94
114)	Toluene	23.09	91	903277	9.8187	ppbV #	S	1
117)	2-Methylheptane	23.53	43	799132	10.3628	ppbV #	S	9
119)	Dibromochloromethane	23.77	129	496191	7.9143	ppbV #	S	46
120)	3-Methylheptane	23.85	85	465343	10.2621	ppbV #	S	1
122)	1,2-Dibromoethane	24.17	107	398834	8.2252	ppbV #	S	1
125)	n-Octane	24.91	43	818018	10.4306	ppbV #	S	50
126)	Tetrachloroethene	25.02	164	318100	8.6249	ppbV	S	98
128)	Chlorobenzene	26.23	112	478725	8.2148	ppbV #	S	1
129)	Ethylbenzene	26.98	91	969779	9.7758	ppbV	S	98
130)	m/p-Xylene	27.35	91	1597984m	17.8364	ppbV	S	
131)	Bromoform	27.38	173	312427	7.3148	ppbV #	S	1
134)	Styrene	28.02	104	407689	8.8152	ppbV #	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	673946	11.3784	ppbV	S	96
136)	o-Xylene	28.23	91	816927	9.1203	ppbV	S	90
140)	n-Nonane	28.84	43	727791	9.2528	ppbV	S	76
142)	Isopropylbenzene	29.45	105	1216567	8.9119	ppbV	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144) alpha-Pinene	30.24	93	1227606	11.2175	ppbV		S	94
147) n-Propylbenzene	30.56	91	1442187	11.1261	ppbV	#	S	35
148) m-Ethyltoluene	30.82	105	1204792	12.6938	ppbV		S	91
149) p-Ethyltoluene	30.90	105	1119857	12.1221	ppbV		S	89
150) 1,3,5-Trimethylbenzene	31.09	105	1296183	13.7673	ppbV		S	88
151) o-Ethyltoluene	31.49	105	1352193	13.0387	ppbV		S	88
152) beta-Pinene	31.77	93	905444	7.9033	ppbV	#	S	1
153) 1,2,4-Trimethylbenzene	32.02	105	1222987	15.1253	ppbV	#	S	1
156) Benzyl chloride	32.30	91	733922	16.1261	ppbV		S	98
157) m-Dichlorobenzene	32.30	146	504564	12.8951	ppbV		S	86
158) n-Decane	32.48	57	964676	12.3325	ppbV		S	81
159) p-Dichlorobenzene	32.48	146	480927	13.0545	ppbV		S	87
161) 1,2,3-Trimethylbenzene	33.04	105	1231750	14.8794	ppbV		S	87
163) o-Dichlorobenzene	33.30	146	531579	15.1318	ppbV		S	97
167) m-Diethylbenzene	33.92	105	909757	15.4376	ppbV	#	S	28
168) p-Diethylbenzene	34.15	119	786139	16.8717	ppbV	#	S	1
172) 1,2,4-Trichlorobenzene	37.85	180	375557	12.5049	ppbV	#	S	100
174) Hexachloro-1,3-butadiene	38.81	225	497080	7.8348	ppbV		S	97

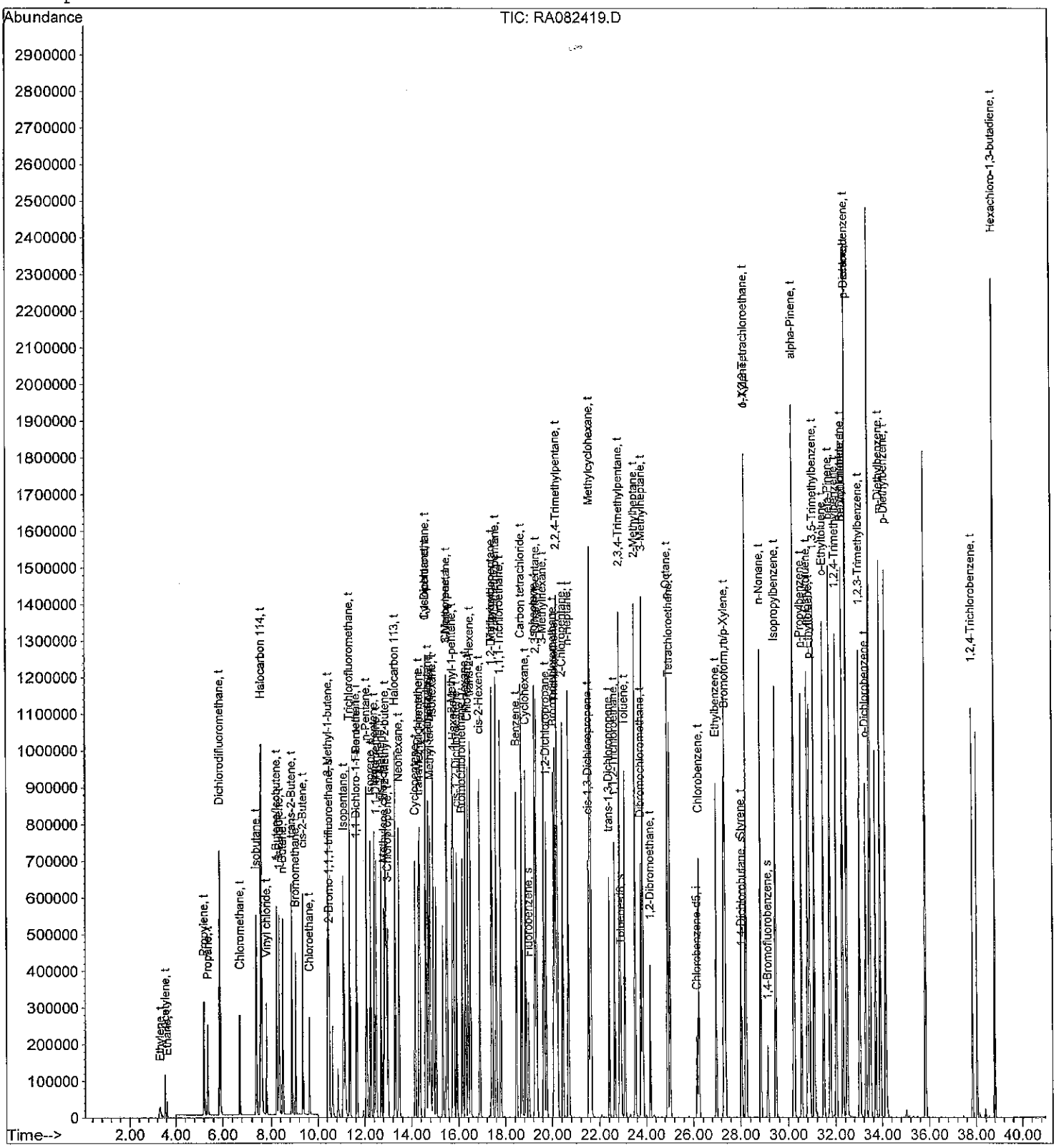
(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

110/179

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.61	81	279668	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.16	117	158540	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.47	83	121857	2.1574 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 108.00%	
65) Fluorobenzene	18.98	96	328035	2.3535 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 117.50%	
113) Toluene-d8	22.92	98	275368	2.2815 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.00%	
115) 1,4-Dichlorobutane	28.05	90	23213	1.9572 ppbV	0.01
Spiked Amount 2.000			Recovery	= 98.00%	
141) 1,4-Bromofluorobenzene	29.13	95	101857	1.8087 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	

Target Compounds						Qvalue
3) Ethylene	3.34	26	97845m	12.0784 ppbV	S	
4) Acetylene	3.54	26	181546	17.5895 ppbV	S	91
5) Ethane	3.62	26	40245	9.6517 ppbV	S	99
7) Propylene	5.21	41	272292	12.3654 ppbV	S	98
9) Propane	5.36	43	121683	11.4670 ppbV	S	96
10) Dichlorodifluoromethane	5.87	85	1399670	11.0965 ppbV	S	99
11) Chloromethane	6.71	50	374662	11.7086 ppbV	S	98
12) Isobutane	7.37	43	758038	11.8663 ppbV	S	97
13) Halocarbon 114	7.57	85	1240650	10.9926 ppbV	S	87
15) Vinyl chloride	7.79	62	424840	12.0041 ppbV	S	99
16) 1-Butene/Isobutene	8.23	41	526901	11.7191 ppbV	S	78
17) 1,3-Butadiene	8.34	39	347955	12.3622 ppbV	S	92
18) n-Butane	8.50	43	643282	11.2078 ppbV	S	98
20) trans-2-Butene	8.87	41	480056	11.4218 ppbV	S	88
23) Bromomethane	9.03	94	379446	11.3414 ppbV	S	95
24) cis-2-Butene	9.35	41	511350	12.0925 ppbV	S	89
25) Chloroethane	9.62	64	221355	11.4365 ppbV	S	94
27) 3-Methyl-1-butene	10.43	55	984758	11.5413 ppbV	S	83
31) Isopentane	11.06	41	474913	10.7664 ppbV #	S	1
32) Trichlorofluoromethane	11.32	101	1228450	10.2728 ppbV #	S	72
33) 1-Pentene	11.63	42	524994	11.1866 ppbV #	S	1
37) n-Pentane	12.06	43	685871	10.9260 ppbV #	S	84
39) Isoprene	12.23	67	482574	11.5224 ppbV	S	95
40) trans-2-Pentene	12.39	55	821845	11.5257 ppbV #	S	1
41) 1,1-Dichloroethene	12.47	61	742165	11.0771 ppbV #	S	10
42) cis-2-Pentene	12.68	55	798769	11.2767 ppbV #	S	1
43) Methylene chloride	12.81	49	491281	10.7416 ppbV #	S	1
44) 2-Methyl-2-butene	12.86	55	841981	11.7603 ppbV #	S	1
46) 3-Chloropropene	12.97	41	483960	12.9575 ppbV #	S	1
47) Halocarbon 113	13.28	151	505451	10.6698 ppbV #	S	100
48) Neohexane	13.43	43	555050	10.7927 ppbV #	S	1
49) Cyclopentene	14.14	67	841556	11.0924 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.31	61	731607	13.3834 ppbV #	S	1
51) 4-Methyl-1-pentene	14.34	43	684480	13.3140 ppbV	S	87
53) 1,1-Dichloroethane	14.60	63	921870	13.7781 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
54)	Cyclopentane	14.58	42	783994	13.3092 ppbV	S	84
55)	2,3-Dimethylbutane	14.70	43	1028312	13.2513 ppbV #	S	62
56)	Methyl tert-butyl ether	14.77	73	1321871	15.0944 ppbV #	S	1
57)	Isohexane	14.90	42	540326m	14.0656 ppbV	S	
63)	Chloroprene	15.47	53	864607	14.3957 ppbV	S	82
64)	3-Methylpentane	15.50	57	898186	13.5849 ppbV	S	97
66)	2-Methyl-1-pentene	15.74	56	831759	13.5222 ppbV #	S	1
67)	1-Hexene	15.78	41	459926m	11.0445 ppbV	S	
68)	cis-1,2-Dichloroethene	15.90	61	714198	12.2584 ppbV #	S	1
69)	Bromochloromethane	16.14	130	316158	11.2397 ppbV #	S	1
71)	n-Hexane	16.27	57	788625	13.2910 ppbV #	S	1
72)	Chloroform	16.37	83	1097512	11.2982 ppbV #	S	1
74)	trans-2-Hexene	16.49	55	966488m	12.9936 ppbV	S	
77)	cis-2-Hexene	16.88	55	792114	12.1633 ppbV	S	94
78)	Methylcyclopentane	17.40	56	935724	12.5876 ppbV	S	95
79)	1,2-Dichloroethane	17.43	62	884285	10.7697 ppbV	S	91
80)	2,4-Dimethylpentane	17.59	43	1040210	12.2648 ppbV #	S	1
81)	1,1,1-Trichloroethane	17.78	97	1220583	11.2049 ppbV #	S	1
84)	Benzene	18.46	78	1230535	14.0373 ppbV	S	84
85)	Carbon tetrachloride	18.68	117	1159832	11.8477 ppbV #	S	1
87)	Cyclohexane	18.85	56	788435	14.3499 ppbV #	S	1
88)	Isoheptane	19.25	43	1125737m	13.6004 ppbV	S	
89)	2,3-Dimethylpentane	19.32	56	938330	13.1924 ppbV #	S	72
91)	3-Methylhexane	19.63	43	877536	13.4846 ppbV #	S	81
92)	1,2-Dichloropropane	19.73	63	487305	13.0880 ppbV #	S	1
93)	Bromodichloromethane	20.06	83	1069979	11.3213 ppbV #	S	1
94)	Trichloroethene	20.12	130	473120	11.8051 ppbV #	S	1
97)	2,2,4-Trimethylpentane	20.21	57	2535460	13.1671 ppbV	S	96
98)	2-Chloropentane	20.43	70	706418	13.5705 ppbV #	S	9
100)	n-Heptane	20.69	71	480158	14.3367 ppbV #	S	1
104)	cis-1,3-Dichloropropene	21.53	75	655679	12.3709 ppbV #	S	1
106)	Methylcyclohexane	21.60	83	853690	13.3216 ppbV	S	98
110)	trans-1,3-Dichloropropene	22.40	75	632685	11.8505 ppbV #	S	1
111)	1,1,2-Trichloroethane	22.64	97	403274	11.3985 ppbV #	S	1
112)	2,3,4-Trimethylpentane	22.87	43	1455654	13.4821 ppbV	S	91
114)	Toluene	23.08	91	1249308	12.8891 ppbV #	S	1
117)	2-Methylheptane	23.52	43	1084668	13.3497 ppbV #	S	10
119)	Dibromochloromethane	23.77	129	655974	9.9305 ppbV #	S	46
120)	3-Methylheptane	23.85	85	646691	13.5357 ppbV #	S	1
122)	1,2-Dibromoethane	24.17	107	513598	10.0530 ppbV #	S	1
125)	n-Octane	24.91	43	1115783	13.5035 ppbV #	S	50
126)	Tetrachloroethene	25.02	164	436250	11.2265 ppbV	S	99
128)	Chlorobenzene	26.23	112	652007	10.6190 ppbV #	S	1
129)	Ethylbenzene	26.98	91	1327827	12.7041 ppbV	S	98
130)	m/p-Xylene	27.35	91	2167109m	22.9580 ppbV	S	
131)	Bromoform	27.38	173	413463	9.1878 ppbV #	S	1
134)	Styrene	28.02	104	559195	11.4759 ppbV #	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	976160	15.6422 ppbV	S	97
136)	o-Xylene	28.23	91	1095403	11.6070 ppbV	S	91
140)	n-Nonane	28.84	43	970333	11.7087 ppbV	S	78
142)	Isopropylbenzene	29.46	105	1604996	11.1591 ppbV	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

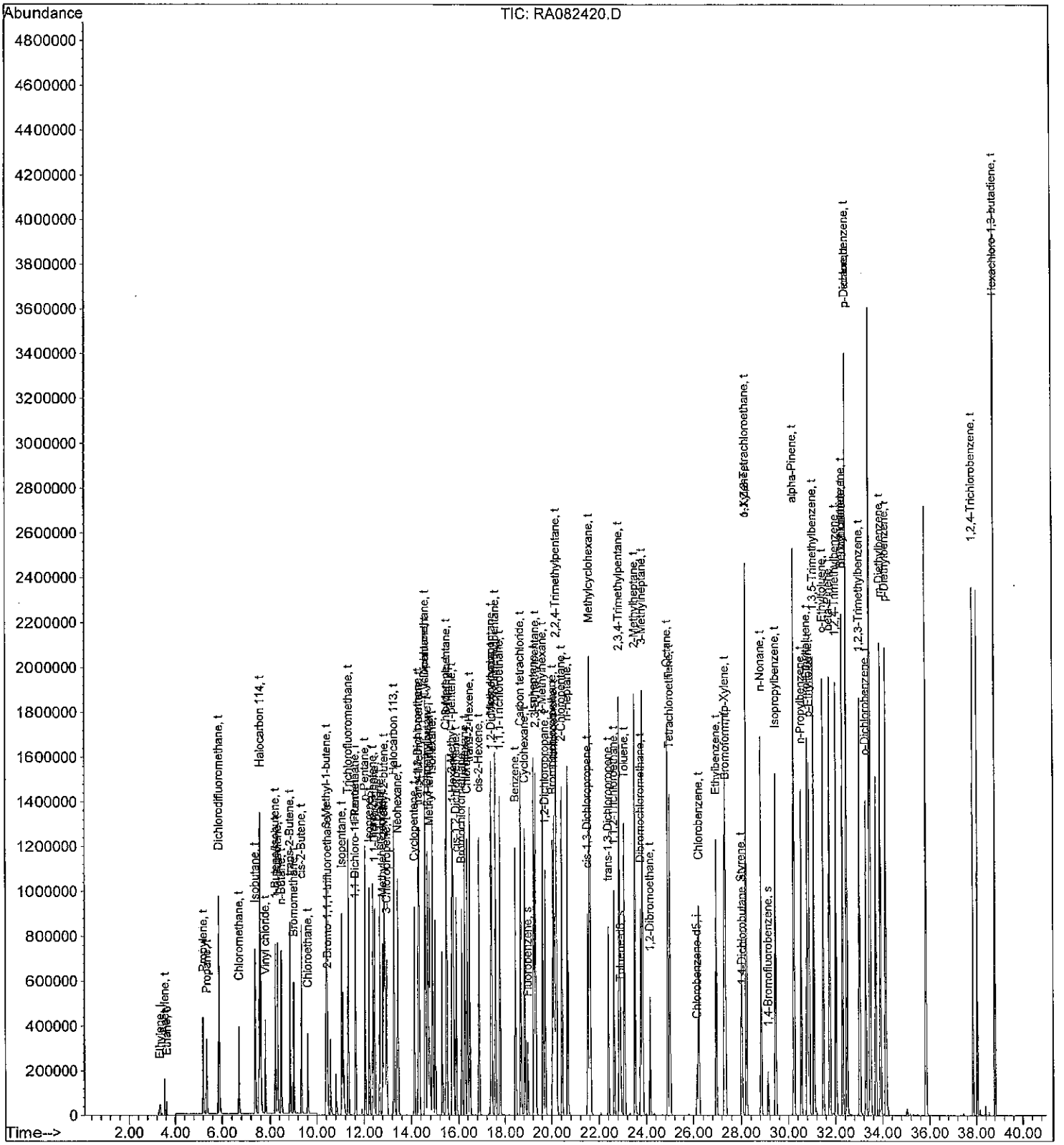
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc Unit			Qvalue
144) alpha-Pinene	30.24	93	1666747	14.4553 ppbV		S	94
147) n-Propylbenzene	30.56	91	1852390	13.5636 ppbV	#	S	35
148) m-Ethyltoluene	30.82	105	1719265	17.1927 ppbV		S	91
149) p-Ethyltoluene	30.90	105	1585406	16.2883 ppbV		S	89
150) 1,3,5-Trimethylbenzene	31.10	105	1908257	19.2371 ppbV		S	88
151) o-Ethyltoluene	31.49	105	2001753	18.3200 ppbV		S	89
152) beta-Pinene	31.77	93	1213853	10.0562 ppbV	#	S	1
153) 1,2,4-Trimethylbenzene	32.03	105	1841850	21.6200 ppbV	#	S	1
156) Benzyl chloride	32.30	91	1139643	23.7667 ppbV		S	99
157) m-Dichlorobenzene	32.30	146	783177	18.9971 ppbV		S	88
158) n-Decane	32.48	57	1376627	16.7034 ppbV		S	84
159) p-Dichlorobenzene	32.48	146	742742	19.1355 ppbV		S	86
161) 1,2,3-Trimethylbenzene	33.04	105	1825611	20.9311 ppbV		S	88
163) o-Dichlorobenzene	33.30	146	840530	22.7089 ppbV		S	98
167) m-Diethylbenzene	33.92	105	1300656	20.9477 ppbV	#	S	27
168) p-Diethylbenzene	34.15	119	1133936	23.0976 ppbV	#	S	1
172) 1,2,4-Trichlorobenzene	37.85	180	837714	26.4739 ppbV	#	S	100
174) Hexachloro-1,3-butadiene	38.81	225	972557	14.5491 ppbV		S	96

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Data by Analytical Batch (s)

INSTRUMENT GCMS-R1 ANALYST / DATE: rcw 8/27/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: Batch ID: 11H0392

DAILY CHECK ✓	INSERT: CHANGED (Y / N)	SEPTA: CHANGED (Y / N)	COLUMN: CHANGED (Y / N)	AUTOSAMPLER MAINT. ✓
M. PUMP OIL ✓	TURBO OIL (NA)	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: RH0328.u Elect Mult. 1624 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: Entech

GC PROGRAM:
GC Meth. RH0824.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: NA

GC COLUMN:
Column ID#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID:

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	Warmup	RA1848	0.5L	2	RH082701	0.0143	VOC-VSP-34-17
2	11H0392-CCV1	↓	↓	2	02	↓	↓
3	BS1	RA1784	↓	6	03	0.0046	VOC-VSP-34-18
4	BSD1	↓	↓	6	04	↓	↓
5	BLK1	RA2753	0.5L	10	05	1.0	MB
6	AUH0043-01	7486	↓	1	06	3.9124	
7	02	9328	↓	2	07	3.1761	
8	04	HL2681	↓	3	08	3.5305	
9	AUH0046-08	101	0.5L	4	09	2.2121	

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Austin Laboratory
Instrument Sequence (continued)

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	AVA0043-03	6584	0.5L	5	RA80710	2.7184	
11	05	5476	↓	6	11	2.5661	
12	06	RA2239	↓	7	12	2.3533	
13	07	HL6800	↓	8	13	3.0454	
14	08	RA2273	↓	9	14	2.9865	
15	AVA0046-01	6389	0.5L	10	15	2.7416	
16	Dup1	↓	↓	10	16	↓	
17	02	252	↓	11	17	2.7184	
18	Dup2	↓	↓	11	18	↓	
19	03	5477	↓	12	19	2.6731	
20	04	969	0.5L	13	20	2.6699	
21	05	HL6618	↓	14	21	2.7011	
22	06	RA2303	↓	15	22	2.7349	
23	07	HL0961	↓	16	23	2.6042	
24	09	5458	0.5L	2	24	2.6730	
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

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Sequence Name: C:\msdchem\1\sequence\R110827.S
Comment:
Operator: KRW
Data Path: C:\MSDCHEM\1\DATA\R110827\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

8/28/11
KRW

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

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

Line			Sample Name/Misc Info
1)	Sample	1	RA082701 RA110824 WARMUP
2)	Sample	1	RA082702 RA110824 11H0392-CCV1,,,,0.01043;CCAL
3)	Sample	1	RA082703 RA110824 11H0392-BS1,,,,0.01046;LCS
4)	Sample	1	RA082704 RA110824 11H0392-BSD1,,,,0.01046;LCS
5)	Sample	1	RA082705 RA110824 11H0392-BLK1
6)	Sample	1	RA082706 RA110824 AUH0043-01,,,,;TCBS
7)	Sample	1	RA082707 RA110824 AUH0043-02,,,,;TCBS
8)	Sample	1	RA082708 RA110824 AUH0043-04,,,,;TCBS
9)	Sample	1	RA082709 RA110824 AUH0046-08,,,,;TCBS
10)	Sample	1	RA082710 RA110824 AUH0043-03,,,,;TCBS
11)	Sample	1	RA082711 RA110824 AUH0043-05,,,,;TCBS
12)	Sample	1	RA082712 RA110824 AUH0043-06,,,,;TCBS
13)	Sample	1	RA082713 RA110824 AUH0043-07,,,,;TCBS
14)	Sample	1	RA082714 RA110824 AUH0043-08,,,,;TCBS
15)	Sample	1	RA082715 RA110824 AUH0046-01,,,,;TCBS
16)	Sample	1	RA082716 RA110824 11H0392-DUP1,,,,;TCBS
17)	Sample	1	RA082717 RA110824 AUH0046-02,,,,;TCBS
18)	Sample	1	RA082718 RA110824 11H0392-DUP2,,,,;TCBS
19)	Sample	1	RA082719 RA110824 AUH0046-03,,,,;TCBS
20)	Sample	1	RA082720 RA110824 AUH0046-04,,,,;TCBS
21)	Sample	1	RA082721 RA110824 AUH0046-05,,,,;TCBS
22)	Sample	1	RA082722 RA110824 AUH0046-06,,,,;TCBS
23)	Sample	1	RA082723 RA110824 AUH0046-07,,,,;TCBS
24)	Sample	1	RA082724 RA110824 AUH0046-09,,,,;TCBS

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

Sequence Name: C:\Smart\R110827.SEQ
Date: 08-28-2011
Time: 10:33:22
Int. Std Volume: 200 cc

8/28/11
LWW

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
WARMUP	1	2	500	0	C:\Smart\C053011V2.MPT	12:00
11H0392-CCV1	1	2	500	0	C:\Smart\C053011V2.MPT	12:00
11H0392-BS1	1	6	500	0	C:\Smart\C053011V2.MPT	12:00
11H0392-BSD1	1	6	500	0	C:\Smart\C053011V2.MPT	12:00
11H0392-BLK1	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-01	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-02	1	2	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-04	1	3	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-08	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-03	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-05	1	6	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-06	1	7	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-07	1	8	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-08	1	9	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-01	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
11H0392-DUP1	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-02	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
11H0392-DUP2	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-03	1	12	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-04	1	13	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-05	1	14	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-06	1	15	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-07	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-09	1	2	500	0	C:\Smart\C053011V2.MPT	12:00

BFB

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082702.D Vial: 1
Acq On : 27 Aug 2011 9:20 am Operator: KRW
Sample : 11H0392-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :

8/27/11
KRW

Spectrum Information: Average of 29.110 to 29.155 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	29.4	4903	PASS
75	95	30	66	64.4	10751	PASS
95	95	100	100	100.0	16691	PASS
96	95	5	9	6.3	1053	PASS
173	174	0.00	2	0.6	73	PASS
174	95	50	120	67.4	11253	PASS
175	174	4	9	7.2	809	PASS
176	174	93	101	93.0	10466	PASS
177	176	5	9	7.0	733	PASS

RA082702.D RA110824.M Sat Aug 27 10:12:56 2011 KRW

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082702.D Vial: 1
Acq On : 27 Aug 2011 9:20 am Operator: KRW
Sample : 11H0392-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 9:59 19111 Quant Results File: RA110824.RES

121/179

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	211096	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	86005	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	81645	1.8925 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.50%	
65) Fluorobenzene	19.00	96	188447	1.8356 ppbV	0.01
Spiked Amount 2.000			Recovery	= 92.00%	
113) Toluene-d8	22.92	98	153327	2.0318 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	
115) 1,4-Dichlorobutane	28.05	90	12605	2.0698 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.50%	
141) 1,4-Bromofluorobenzene	29.13	95	58241	2.0599 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	30554	4.5630 ppbV	S	95
4) Acetylene	3.54	26	52641	4.2116 ppbV	S	89
5) Ethane	3.62	26	12613	3.3705 ppbV	S	99
7) Propylene	5.21	41	85148	4.5073 ppbV	S	96
9) Propane	5.37	43	37227	4.2904 ppbV	S	91
10) Dichlorodifluoromethane	5.87	85	490167	4.5481 ppbV	S	98
11) Chloromethane	6.73	50	115147	4.3515 ppbV	S	97
12) Isobutane	7.37	43	236864	4.3238 ppbV	S	91
13) Halocarbon 114	7.58	85	411345	4.2983 ppbV	S	87
14) Acetaldehyde	7.54	44	53536m	4.4689 ppbV	S	
15) Vinyl chloride	7.81	62	128098	4.2532 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	166018	4.3029 ppbV	S	74
17) 1,3-Butadiene	8.36	39	112833	4.6776 ppbV	S	98
18) n-Butane	8.52	43	202154	4.2332 ppbV	S	94
19) Methanol	8.32	31	23774m	3.9105 ppbV	S	
20) trans-2-Butene	8.89	41	152337	4.2642 ppbV	S	89
23) Bromomethane	9.06	94	118861	4.2853 ppbV	S	93
24) cis-2-Butene	9.37	41	163420	4.6172 ppbV	S	89
25) Chloroethane	9.64	64	67160	4.2178 ppbV	S	93
26) Vinyl bromide	10.43	106	134365	4.8778 ppbV	S	87
27) 3-Methyl-1-butene	10.46	55	329950	4.7571 ppbV	S	80
28) Ethanol	10.48	45	43716	4.4744 ppbV	S	89
29) Acetonitrile	10.63	41	110426	4.8788 ppbV	S	96
30) Acrolein	10.85	56	54754	5.3647 ppbV #	S	45
31) Isopentane	11.08	41	158926	4.4471 ppbV #	S	1
32) Trichlorofluoromethane	11.35	101	467770	4.7968 ppbV #	S	70
33) 1-Pentene	11.67	42	179804	4.7128 ppbV #	S	1
34) Acetone	11.15	43	301726m	5.4469 ppbV	S	
36) Acrylonitrile	12.08	52	100766	5.4480 ppbV #	S	1
37) n-Pentane	12.09	43	239832	4.7149 ppbV	S	86
39) Isoprene	12.26	67	158964	4.6153 ppbV	S	95
40) trans-2-Pentene	12.42	55	283810	4.9119 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	267803	4.8448 ppbV #	S	10
42) cis-2-Pentene	12.72	55	276339	4.8297 ppbV #	S	1
43) Methylene chloride	12.84	49	176977	4.7752 ppbV #	S	1

4.2532 DAH 8-30-11

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082702.D Vial: 1
Acq On : 27 Aug 2011 9:20 am Operator: KRW
Sample : 11H0392-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 9:59 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	2-Methyl-2-butene	12.90	55	293282	5.0227 ppbV # S	1
45)	Carbon Disulfide	12.94	76	422188	4.9778 ppbV S	95
46)	3-Chloropropene	13.00	41	172164	5.0630 ppbV # S	1
47)	Halocarbon 113	13.32	151	184256	4.7900 ppbV # S	100
48)	Neohexane	13.47	43	199773	4.7803 ppbV # S	1
49)	Cyclopentene	14.17	67	295844	4.6257 ppbV # S	1
50)	trans-1,2-Dichloroethene	14.33	61	224858	4.8175 ppbV # S	1
51)	4-Methyl-1-pentene	14.37	43	211762	4.8874 ppbV S	83
53)	1,1-Dichloroethane	14.62	63	294077	4.5214 ppbV # S	100
54)	Cyclopentane	14.62	42	242245	4.3520 ppbV S	80
55)	2,3-Dimethylbutane	14.73	43	314201	4.2402 ppbV # S	62
56)	Methyl tert-butyl ether	14.81	73	404487	4.4310 ppbV # S	1
57)	Isohexane	14.93	42	164868	4.3632 ppbV # S	45
58)	Vinyl acetate	15.04	43	475765	5.3958 ppbV # S	47
62)	2-Butanone	15.33	43	340716	5.0663 ppbV # S	1
63)	Chloroprene	15.50	53	290131	4.5968 ppbV S	77
64)	3-Methylpentane	15.53	57	273377	4.3765 ppbV S	95
66)	2-Methyl-1-pentene	15.77	56	255010	4.5274 ppbV # S	1
67)	1-Hexene	15.80	41	166713	4.6351 ppbV # S	58
68)	cis-1,2-Dichloroethene	15.93	61	231217	4.6524 ppbV # S	1
69)	Bromochloromethane	16.17	130	96524	4.2760 ppbV # S	1
71)	n-Hexane	16.29	57	233993	4.5741 ppbV # S	1
72)	Chloroform	16.40	83	360632	4.5247 ppbV # S	1
74)	trans-2-Hexene	16.51	55	297820	4.7048 ppbV # S	1
77)	cis-2-Hexene	16.91	55	242733	4.3746 ppbV S	95
78)	Methylcyclopentane	17.43	56	281315	4.3550 ppbV S	88
79)	1,2-Dichloroethane	17.45	62	313939	4.9359 ppbV S	90
80)	2,4-Dimethylpentane	17.61	43	327160	4.4676 ppbV # S	1
81)	1,1,1-Trichloroethane	17.80	97	417345	4.7503 ppbV # S	1
84)	Benzene	18.48	78	348191	4.8520 ppbV S	75
85)	Carbon tetrachloride	18.70	117	412988	5.0251 ppbV # S	1
86)	1-Butanol	18.67	56	103762	4.6222 ppbV S	96
87)	Cyclohexane	18.88	56	236099	4.7324 ppbV # S	1
88)	Isoheptane	19.27	43	354505	4.8364 ppbV # S	30
89)	2,3-Dimethylpentane	19.34	56	289440	4.6718 ppbV # S	66
91)	3-Methylhexane	19.64	43	278146	4.7829 ppbV # S	76
92)	1,2-Dichloropropane	19.75	63	139177	4.9326 ppbV # S	1
93)	Bromodichloromethane	20.08	83	343065	4.8885 ppbV # S	1
94)	Trichloroethene	20.14	130	141753	4.7437 ppbV # S	1
95)	1,4-Dioxane	20.17	88	43927	3.7711 ppbV # S	47
97)	2,2,4-Trimethylpentane	20.22	57	782851	4.6320 ppbV S	91
98)	2-Chloropentane	20.45	70	208602	5.0402 ppbV # S	12
100)	n-Heptane	20.70	71	139926	4.9066 ppbV # S	1
104)	cis-1,3-Dichloropropene	21.54	75	183992	5.0718 ppbV # S	1
105)	Methylisobutylketone	21.64	43	390492	5.5694 ppbV # S	1
106)	Methylcyclohexane	21.62	83	260327	4.7396 ppbV S	90
110)	trans-1,3-Dichloropropene	22.41	75	182863	5.5091 ppbV # S	1
111)	1,1,2-Trichloroethane	22.65	97	112437	5.1224 ppbV # S	1
112)	2,3,4-Trimethylpentane	22.87	43	470349	4.8493 ppbV S	95
114)	Toluene	23.09	91	352524	5.4364 ppbV # S	1
117)	2-Methylheptane	23.53	43	350821	5.0521 ppbV # S	10

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082702.D Vial: 1
Acq On : 27 Aug 2011 9:20 am Operator: KRW
Sample : 11H0392-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 9:59 19111 Quant Results File: RA110824.RES

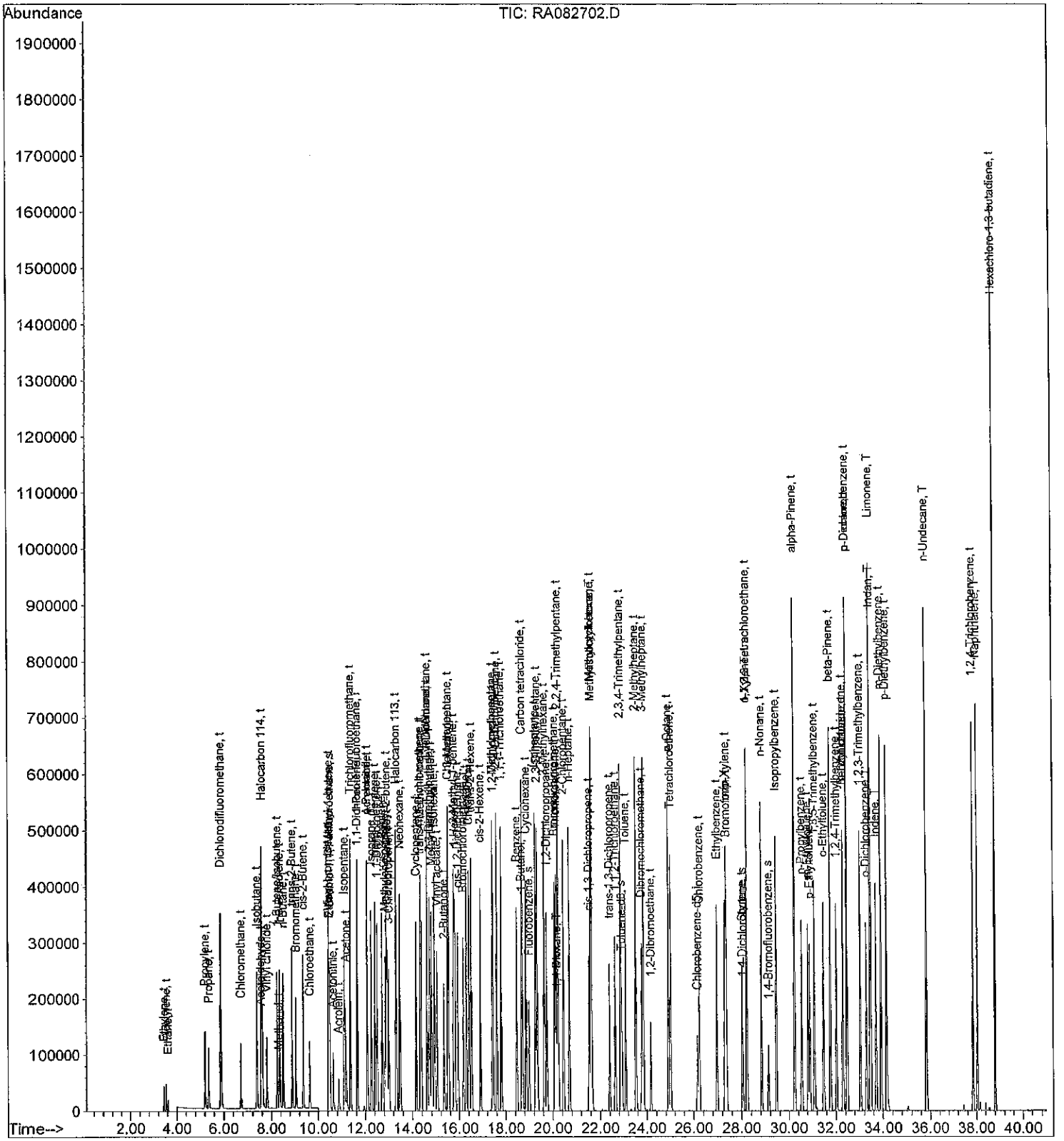
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
119) Dibromochloromethane	23.77	129	203655	5.2137 ppbV # S	38
120) 3-Methylheptane	23.85	85	194684	4.8913 ppbV # S	1
122) 1,2-Dibromoethane	24.17	107	146065	5.0074 ppbV # S	1
125) n-Octane	24.92	43	345059	5.3347 ppbV # S	50
126) Tetrachloroethene	25.02	164	125138	5.2125 ppbV S	97
128) Chlorobenzene	26.24	112	180164	5.3081 ppbV # S	1
129) Ethylbenzene	26.98	91	375189	5.7294 ppbV S	98
130) m/p-Xylene	27.35	91	640223m	11.2648 ppbV S	
131) Bromoform	27.38	173	126861	5.3515 ppbV # S	1
134) Styrene	28.02	104	151441	5.6384 ppbV # S	21
135) 1,1,2,2-Tetrachloroethane	28.23	83	187802	4.5310 ppbV S	94
136) o-Xylene	28.22	91	333387	5.7061 ppbV S	88
140) n-Nonane	28.84	43	309072	5.6422 ppbV # S	71
142) Isopropylbenzene	29.45	105	475705	5.2662 ppbV S	100
144) alpha-Pinene	30.25	93	535951	5.2288 ppbV S	95
147) n-Propylbenzene	30.56	91	406305	4.7798 ppbV # S	34
148) m-Ethyltoluene	30.82	105	309086	4.4568 ppbV S	90
149) p-Ethyltoluene	30.90	105	281983	4.4854 ppbV S	89
150) 1,3,5-Trimethylbenzene	31.10	105	354737	4.8461 ppbV S	86
151) o-Ethyltoluene	31.49	105	355539	4.3797 ppbV S	87
152) beta-Pinene	31.77	93	385715	3.7567 ppbV # S	1
153) 1,2,4-Trimethylbenzene	32.02	105	331501	5.0132 ppbV # S	1
156) Benzyl chloride	32.30	91	293354	7.6324 ppbV S	98
157) m-Dichlorobenzene	32.30	146	125780	4.5986 ppbV S	84
158) n-Decane	32.47	57	369758	5.5897 ppbV S	75
159) p-Dichlorobenzene	32.47	146	140216	5.3446 ppbV S	83
161) 1,2,3-Trimethylbenzene	33.04	105	461867	5.9681 ppbV S	86
163) o-Dichlorobenzene	33.29	146	181185	6.0238 ppbV S	94
164) Limonene	33.47	68	272332	6.7280 ppbV S	83
165) Indan	33.49	117	299285	6.7283 ppbV S	90
166) Indene	33.71	115	312794	8.0496 ppbV S	95
167) m-Diethylbenzene	33.92	105	386205	6.0338 ppbV # S	28
168) p-Diethylbenzene	34.15	119	322062	6.1012 ppbV # S	1
171) n-Undecane	35.84	57	516426	5.6442 ppbV S	76
172) 1,2,4-Trichlorobenzene	37.85	180	221309	6.8181 ppbV # S	100
173) Naphthalene	38.04	128	590123	5.8444 ppbV S	96
174) Hexachloro-1,3-butadiene	38.81	225	325923	6.7059 ppbV S	97

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082702.D Vial: 1
Acq On : 27 Aug 2011 9:20 am Operator: KRW
Sample : 11H0392-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 9:59 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082703.D Vial: 1
Acq On : 27 Aug 2011 10:21 am Operator: KRW
Sample : 11H0392-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:01 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 9.30.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	214145	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	90722	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	85863	1.9619 ppbV	0.02
Spiked Amount 2.000			Recovery	= 98.00%	
65) Fluorobenzene	19.00	96	195848	1.8805 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.00%	
113) Toluene-d8	22.92	98	158113	1.9863 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
115) 1,4-Dichlorobutane	28.05	90	13945	2.1708 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.50%	
141) 1,4-Bromofluorobenzene	29.13	95	62967	2.1113 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	31819	4.6843 ppbV	S	97
4) Acetylene	3.54	26	57124	4.5051 ppbV	S	90
5) Ethane	3.63	26	12401	3.2667 ppbV	S	99
7) Propylene	5.21	41	89301	4.6599 ppbV	S	96
8) Chlorodifluoromethane	5.57	51	290074	5.1402 ppbV	S	97
9) Propane	5.37	43	38370	4.3591 ppbV	S	93
10) Dichlorodifluoromethane	5.88	85	525565	4.8071 ppbV	S	98
11) Chloromethane	6.72	50	128924	4.8028 ppbV	S	98
12) Isobutane	7.38	43	248717	4.4756 ppbV	S	94
13) Halocarbon 114	7.58	85	398303	4.1027 ppbV	S	89
15) Vinyl chloride	7.81	62	143082	4.6831 ppbV	S	98
16) 1-Butene/Isobutene	8.25	41	173527	4.4335 ppbV	S	75
17) 1,3-Butadiene	8.36	39	123870	5.0620 ppbV	S	96
18) n-Butane	8.52	43	211330	4.3623 ppbV	S	96
19) Methanol	8.32	31	23422m	3.7978 ppbV	S	
20) trans-2-Butene	8.90	41	159271	4.3948 ppbV	S	88
23) Bromomethane	9.06	94	130280	4.6302 ppbV	S	93
24) cis-2-Butene	9.37	41	170131	4.7384 ppbV	S	90
25) Chloroethane	9.65	64	73624	4.5579 ppbV	S	92
26) Vinyl bromide	10.43	106	125970	4.5079 ppbV	S	85
27) 3-Methyl-1-butene	10.46	55	344315	4.8935 ppbV	S	80
29) Acetonitrile	10.63	41	104621m	4.5565 ppbV	S	
30) Acrolein	10.86	56	50262	4.8545 ppbV #	S	45
31) Isopentane	11.09	41	164333	4.5329 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	490249	4.9558 ppbV #	S	72
33) 1-Pentene	11.67	42	191523	4.9485 ppbV #	S	1
34) Acetone	11.16	43	287108m	5.1092 ppbV	S	
35) 2-Propanol	11.91	45	249037m	5.8708 ppbV	S	
36) Acrylonitrile	12.08	52	93937	5.0065 ppbV #	S	1
37) n-Pentane	12.09	43	252201	4.8875 ppbV	S	85
38) Diethyl ether	12.27	74	69153	5.4043 ppbV #	S	1
39) Isoprene	12.26	67	170537	4.8808 ppbV	S	94
40) trans-2-Pentene	12.42	55	286171	4.8822 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	285711	5.0951 ppbV #	S	9
42) cis-2-Pentene	12.72	55	282984	4.8754 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082703.D Vial: 1
Acq On : 27 Aug 2011 10:21 am Operator: KRW
Sample : 11H0392-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:01 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
43)	Methylene chloride	12.84	49	187955	4.9992	ppbV	#	S	1
44)	2-Methyl-2-butene	12.90	55	295384	4.9867	ppbV	#	S	1
45)	Carbon Disulfide	12.94	76	348284	4.0479	ppbV		S	95
46)	3-Chloropropene	13.01	41	154757	4.4863	ppbV	#	S	1
47)	Halocarbon 113	13.32	151	197741	5.0673	ppbV	#	S	100
50)	trans-1,2-Dichloroethene	14.34	61	227636	4.8076	ppbV	#	S	1
51)	4-Methyl-1-pentene	14.37	43	222751	5.0678	ppbV		S	82
53)	1,1-Dichloroethane	14.63	63	307449	4.6596	ppbV	#	S	100
56)	Methyl tert-butyl ether	14.81	73	453959	4.9021	ppbV	#	S	1
58)	Vinyl acetate	15.05	43	427172	4.7757	ppbV	#	S	46
62)	2-Butanone	15.33	43	322944	4.7337	ppbV	#	S	1
63)	Chloroprene	15.51	53	302142	4.7189	ppbV		S	78
68)	cis-1,2-Dichloroethene	15.94	61	246574	4.8907	ppbV	#	S	1
71)	n-Hexane	16.29	57	231488	4.4607	ppbV	#	S	1
72)	Chloroform	16.41	83	382617	4.7322	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	307115	4.7825	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	250609	4.4522	ppbV		S	95
79)	1,2-Dichloroethane	17.45	62	329316	5.1040	ppbV		S	90
81)	1,1,1-Trichloroethane	17.80	97	435501	4.8864	ppbV	#	S	1
84)	Benzene	18.48	78	371687	4.9101	ppbV		S	77
85)	Carbon tetrachloride	18.70	117	420317	4.8484	ppbV	#	S	1
86)	1-Butanol	18.67	56	95106	4.0163	ppbV		S	97
87)	Cyclohexane	18.87	56	235260	4.4704	ppbV	#	S	1
92)	1,2-Dichloropropane	19.75	63	149340	5.0176	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	395547	5.3433	ppbV	#	S	1
94)	Trichloroethene	20.14	130	147964	4.6941	ppbV	#	S	1
95)	1,4-Dioxane	20.18	88	43810	3.5655	ppbV	#	S	31
97)	2,2,4-Trimethylpentane	20.22	57	785926	4.4084	ppbV		S	91
98)	2-Chloropentane	20.45	70	191010	4.3752	ppbV	#	S	12
100)	n-Heptane	20.70	71	139649	4.6423	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	210533	5.5017	ppbV	#	S	1
105)	Methylisobutylketone	21.64	43	361438	4.8870	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.41	75	180762	5.1627	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	123476	5.3329	ppbV	#	S	1
114)	Toluene	23.09	91	368848	5.3924	ppbV	#	S	1
116)	2-Hexanone	23.63	43	267575	5.5220	ppbV	#	S	23
119)	Dibromochloromethane	23.77	129	229361	5.5665	ppbV	#	S	40
122)	1,2-Dibromoethane	24.17	107	156042	5.0713	ppbV	#	S	1
125)	n-Octane	24.92	43	347061	5.0867	ppbV	#	S	49
126)	Tetrachloroethene	25.02	164	134590	5.3147	ppbV		S	95
128)	Chlorobenzene	26.23	112	196635	5.4922	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	405062	5.8639	ppbV		S	96
130)	m/p-Xylene	27.36	91	694989m	11.5926	ppbV		S	
131)	Bromoform	27.38	173	146049	5.8406	ppbV	#	S	1
134)	Styrene	28.02	104	166995	5.8942	ppbV	#	S	22
135)	1,1,2,2-Tetrachloroethane	28.23	83	203734	4.6598	ppbV		S	93
136)	o-Xylene	28.23	91	360437	5.8483	ppbV		S	89
140)	n-Nonane	28.84	43	321558	5.5649	ppbV		S	73
142)	Isopropylbenzene	29.45	105	512341	5.3769	ppbV		S	100
145)	o/m-Chlorotoluene	30.41	91	273849	6.4495	ppbV	#	S	1
147)	n-Propylbenzene	30.56	91	442466	4.9345	ppbV	#	S	35

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082703.D Vial: 1
Acq On : 27 Aug 2011 10:21 am Operator: KRW
Sample : 11H0392-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:01 19111 Quant Results File: RA110824.RES

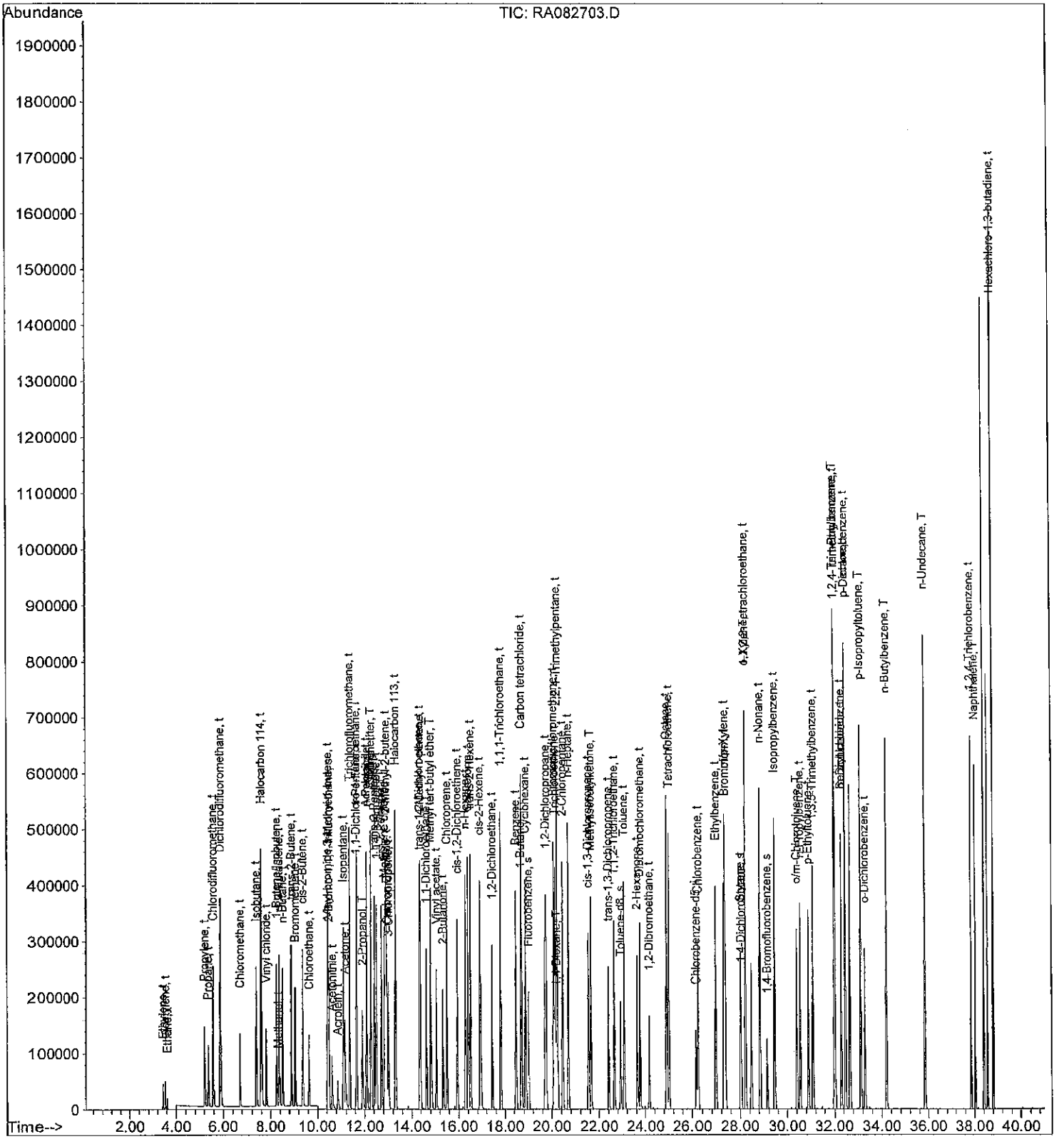
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
149) p-Ethyltoluene	30.90	105	344199	5.1903	ppbV	S	88
150) 1,3,5-Trimethylbenzene	31.09	105	373084	4.8317	ppbV	S	86
153) 1,2,4-Trimethylbenzene	32.02	105	332500	4.7668	ppbV #	S	1
154) tert-Butylbenzene	32.00	119	528338	5.8581	ppbV #	S	59
156) Benzyl chloride	32.30	91	295526	7.2892	ppbV	S	98
157) m-Dichlorobenzene	32.30	146	120729	4.1844	ppbV	S	82
158) n-Decane	32.48	57	345066	4.9452	ppbV	S	75
159) p-Dichlorobenzene	32.48	146	120892	4.3684	ppbV	S	81
162) p-Isopropyltoluene	33.11	119	586290	7.1974	ppbV #	S	42
163) o-Dichlorobenzene	33.30	146	156938	4.9464	ppbV	S	95
169) n-Butylbenzene	34.19	91	604606	7.6894	ppbV #	S	1
171) n-Undecane	35.84	57	486987	5.0457	ppbV	S	73
172) 1,2,4-Trichlorobenzene	37.85	180	212139	6.1958	ppbV #	S	100
173) Naphthalene	38.04	128	495594	4.6530	ppbV	S	96
174) Hexachloro-1,3-butadiene	38.81	225	332881	6.4930	ppbV	S	97

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082703.D Vial: 1
Acq On : 27 Aug 2011 10:21 am Operator: KRW
Sample : 11H0392-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:01 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082704.D Vial: 1
Acq On : 27 Aug 2011 11:20 am Operator: KRW
Sample : 11H0392-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:04 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8.30.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	213816	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	93640	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	84593	1.9359 ppbV	0.02
Spiked Amount 2.000			Recovery	= 97.00%	
65) Fluorobenzene	19.00	96	199123	1.9149 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.50%	
113) Toluene-d8	22.92	98	160936	1.9587 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	
115) 1,4-Dichlorobutane	28.06	90	13546	2.0430 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.00%	
141) 1,4-Bromofluorobenzene	29.14	95	64983	2.1110 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	31322	4.6182 ppbV	S	95
4) Acetylene	3.54	26	56021	4.4250 ppbV	S	90
5) Ethane	3.63	26	12267	3.2363 ppbV	S	98
7) Propylene	5.21	41	87117	4.5529 ppbV	S	97
8) Chlorodifluoromethane	5.57	51	285518	5.0673 ppbV	S	96
9) Propane	5.37	43	38322	4.3604 ppbV	S	90
10) Dichlorodifluoromethane	5.87	85	516619	4.7325 ppbV	S	98
11) Chloromethane	6.73	50	125938	4.6988 ppbV	S	99
12) Isobutane	7.38	43	243004	4.3795 ppbV	S	94
13) Halocarbon 114	7.59	85	393322	4.0576 ppbV	S	89
15) Vinyl chloride	7.81	62	141182	4.6280 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	171331	4.3841 ppbV	S	75
17) 1,3-Butadiene	8.37	39	122131	4.9986 ppbV	S	97
18) n-Butane	8.52	43	207716	4.2943 ppbV	S	94
19) Methanol	8.33	31	23708m	3.8501 ppbV	S	
20) trans-2-Butene	8.90	41	156758	4.3321 ppbV	S	90
23) Bromomethane	9.06	94	128825	4.5855 ppbV	S	92
24) cis-2-Butene	9.38	41	168911	4.7116 ppbV	S	91
25) Chloroethane	9.65	64	73016	4.5272 ppbV	S	91
26) Vinyl bromide	10.43	106	126252	4.5250 ppbV	S	87
27) 3-Methyl-1-butene	10.47	55	342946	4.8816 ppbV	S	80
29) Acetonitrile	10.64	41	104647m	4.5646 ppbV	S	
30) Acrolein	10.87	56	50794	4.9134 ppbV #	S	43
31) Isopentane	11.09	41	163865	4.5270 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	490772	4.9687 ppbV #	S	70
33) 1-Pentene	11.67	42	192035	4.9693 ppbV #	S	1
34) Acetone	11.16	43	285749m	5.0929 ppbV	S	
35) 2-Propanol	11.91	45	201048m	4.7468 ppbV	S	
36) Acrylonitrile	12.09	52	95475	5.0963 ppbV #	S	1
37) n-Pentane	12.10	43	252711	4.9049 ppbV	S	85
38) Diethyl ether	12.28	74	67521	5.2849 ppbV #	S	1
39) Isoprene	12.27	67	170979	4.9010 ppbV	S	94
40) trans-2-Pentene	12.43	55	287946	4.9201 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	288113	5.1459 ppbV #	S	10
42) cis-2-Pentene	12.72	55	285616	4.9283 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082704.D Vial: 1
Acq On : 27 Aug 2011 11:20 am Operator: KRW
Sample : 11H0392-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:04 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
43)	Methylene chloride	12.85	49	188801	5.0294	ppbV	#	S	1
44)	2-Methyl-2-butene	12.91	55	292943	4.9531	ppbV	#	S	1
45)	Carbon Disulfide	12.95	76	350831	4.0838	ppbV		S	94
46)	3-Chloropropene	13.01	41	156252	4.5366	ppbV	#	S	1
47)	Halocarbon 113	13.32	151	199015	5.1078	ppbV	#	S	100
50)	trans-1,2-Dichloroethene	14.34	61	226334	4.7874	ppbV	#	S	1
51)	4-Methyl-1-pentene	14.38	43	213735	4.8702	ppbV		S	91
53)	1,1-Dichloroethane	14.64	63	310461	4.7125	ppbV	#	S	100
56)	Methyl tert-butyl ether	14.82	73	453070	4.9001	ppbV	#	S	1
58)	Vinyl acetate	15.05	43	426748	4.7783	ppbV	#	S	47
62)	2-Butanone	15.34	43	323991	4.7563	ppbV	#	S	1
63)	Chloroprene	15.51	53	305492	4.7786	ppbV		S	77
68)	cis-1,2-Dichloroethene	15.94	61	246287	4.8926	ppbV	#	S	1
71)	n-Hexane	16.30	57	232358	4.4844	ppbV	#	S	1
72)	Chloroform	16.41	83	389197	4.8210	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	309468	4.8266	ppbV	#	S	1
77)	cis-2-Hexene	16.92	55	254053	4.5204	ppbV		S	94
79)	1,2-Dichloroethane	17.45	62	336696	5.2264	ppbV		S	90
81)	1,1,1-Trichloroethane	17.81	97	437312	4.9143	ppbV	#	S	1
84)	Benzene	18.48	78	378414	4.8432	ppbV		S	75
85)	Carbon tetrachloride	18.71	117	421503	4.7106	ppbV	#	S	1
86)	1-Butanol	18.67	56	45459	1.8599	ppbV		S	92
87)	Cyclohexane	18.87	56	235372	4.3332	ppbV	#	S	1
92)	1,2-Dichloropropane	19.75	63	150078	4.8852	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	408003	5.3398	ppbV	#	S	1
94)	Trichloroethene	20.14	130	157033	4.8266	ppbV	#	S	1
95)	1,4-Dioxane	20.18	88	49704	3.9191	ppbV	#	S	50
97)	2,2,4-Trimethylpentane	20.22	57	790128	4.2938	ppbV		S	91
98)	2-Chloropentane	20.46	70	191033	4.2394	ppbV	#	S	11
100)	n-Heptane	20.70	71	140661	4.5302	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	226448	5.7332	ppbV	#	S	1
105)	Methylisobutylketone	21.64	43	367079	4.8086	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.41	75	199098	5.5092	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	126905	5.3102	ppbV	#	S	1
114)	Toluene	23.09	91	371984	5.2687	ppbV	#	S	1
116)	2-Hexanone	23.63	43	294629	5.8909	ppbV	#	S	23
119)	Dibromochloromethane	23.77	129	238805	5.6151	ppbV	#	S	42
122)	1,2-Dibromoethane	24.17	107	173644	5.4675	ppbV	#	S	1
125)	n-Octane	24.92	43	352265	5.0021	ppbV	#	S	49
126)	Tetrachloroethene	25.02	164	138106	5.2836	ppbV		S	97
128)	Chlorobenzene	26.23	112	202358	5.4759	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	414344	5.8114	ppbV		S	97
130)	m/p-Xylene	27.35	91	702815m	11.3578	ppbV		S	
131)	Bromoform	27.38	173	155163	6.0117	ppbV	#	S	1
134)	Styrene	28.02	104	173423	5.9303	ppbV	#	S	21
135)	1,1,2,2-Tetrachloroethane	28.23	83	211580	4.6884	ppbV		S	93
136)	o-Xylene	28.23	91	366794	5.7660	ppbV		S	88
140)	n-Nonane	28.84	43	324552	5.4417	ppbV	#	S	73
142)	Isopropylbenzene	29.46	105	516979	5.2565	ppbV		S	100
145)	o/m-Chlorotoluene	30.41	91	278733	6.3599	ppbV	#	S	1
147)	n-Propylbenzene	30.56	91	453214	4.8969	ppbV	#	S	34

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082704.D Vial: 1
Acq On : 27 Aug 2011 11:20 am Operator: KRW
Sample : 11H0392-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:04 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

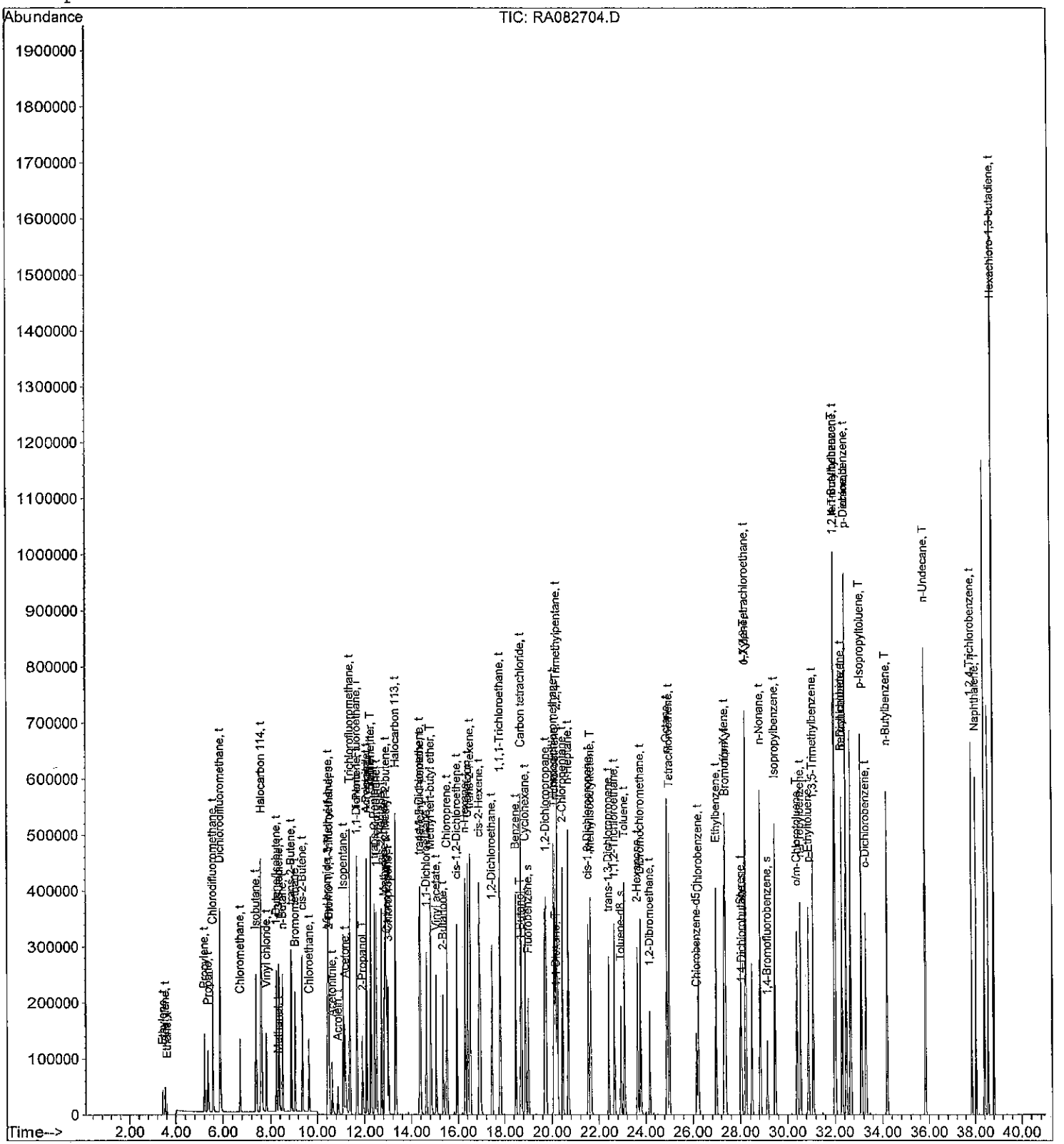
Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
149) p-Ethyltoluene	30.90	105	354863	5.1844	ppbV		S	88
150) 1,3,5-Trimethylbenzene	31.09	105	418568	5.2519	ppbV		S	86
153) 1,2,4-Trimethylbenzene	32.02	105	424000	5.8892	ppbV	#	S	1
154) tert-Butylbenzene	32.00	119	571312	6.1372	ppbV	#	S	59
156) Benzyl chloride	32.30	91	319429	7.6332	ppbV		S	97
157) m-Dichlorobenzene	32.30	146	149645	5.0250	ppbV		S	83
158) n-Decane	32.48	57	387149	5.3754	ppbV		S	76
159) p-Dichlorobenzene	32.48	146	157490	5.5136	ppbV		S	83
162) p-Isopropyltoluene	33.11	119	578155	6.8764	ppbV	#	S	43
163) o-Dichlorobenzene	33.29	146	198458	6.0601	ppbV		S	93
169) n-Butylbenzene	34.19	91	519094	6.3961	ppbV	#	S	1
171) n-Undecane	35.84	57	479667	4.8150	ppbV		S	75
172) 1,2,4-Trichlorobenzene	37.85	180	208921	5.9117	ppbV	#	S	100
173) Naphthalene	38.04	128	483260	4.3958	ppbV		S	96
174) Hexachloro-1,3-butadiene	38.81	225	327484	6.1887	ppbV		S	96

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082704.D Vial: 1
Acq On : 27 Aug 2011 11:20 am Operator: KRW
Sample : 11H0392-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:04 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082705.D Vial: 1
Acq On : 27 Aug 2011 12:21 pm Operator: KRW
Sample : 11H0392-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:05 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

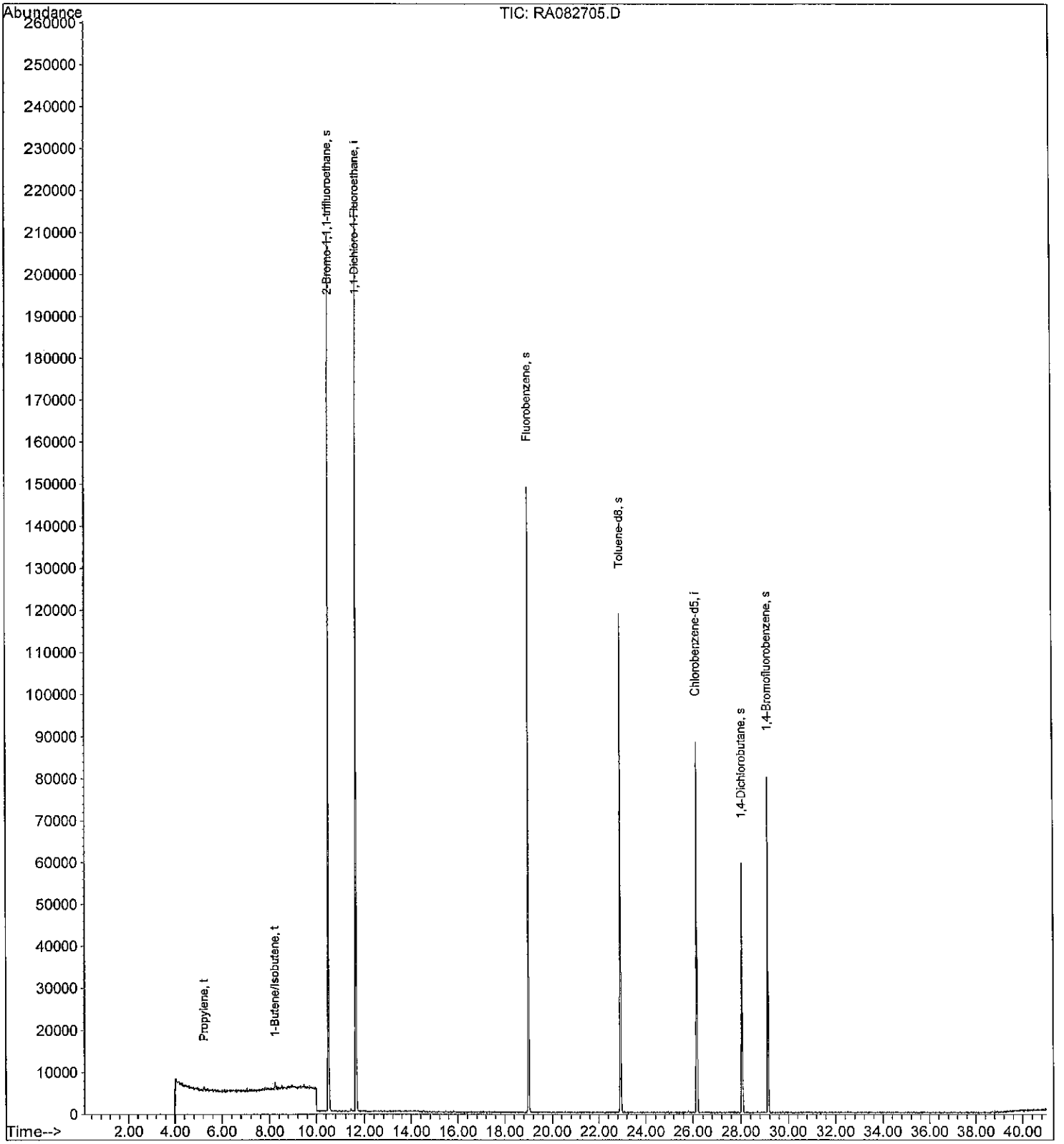
DAH 9.30.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	212944	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	55219	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	81581	1.8746 ppbV	0.02
Spiked Amount 2.000			Recovery	= 93.50%	
65) Fluorobenzene	19.00	96	140999	1.3615 ppbV	0.01
Spiked Amount 2.000			Recovery	= 68.00%	
113) Toluene-d8	22.92	98	96975	2.0015 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
115) 1,4-Dichlorobutane	28.06	90	7934	2.0292 ppbV	0.01
Spiked Amount 2.000			Recovery	= 101.50%	
141) 1,4-Bromofluorobenzene	29.14	95	38282	2.1089 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	
Target Compounds					Qvalue
7) Propylene	5.23	41	322	0.0169 ppbV	85
16) 1-Butene/Isobutene	8.23	41	1000	0.0257 ppbV #	60

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082705.D Vial: 1
Acq On : 27 Aug 2011 12:21 pm Operator: KRW
Sample : 11H0392-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:05 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082706.D Vial: 1
Acq On : 27 Aug 2011 1:22 pm Operator: KRW
Sample : AUH0043-01,,,,;TCESL Inst : GCMS-R1
Misc : 3.9124,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:12 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 9-30-11

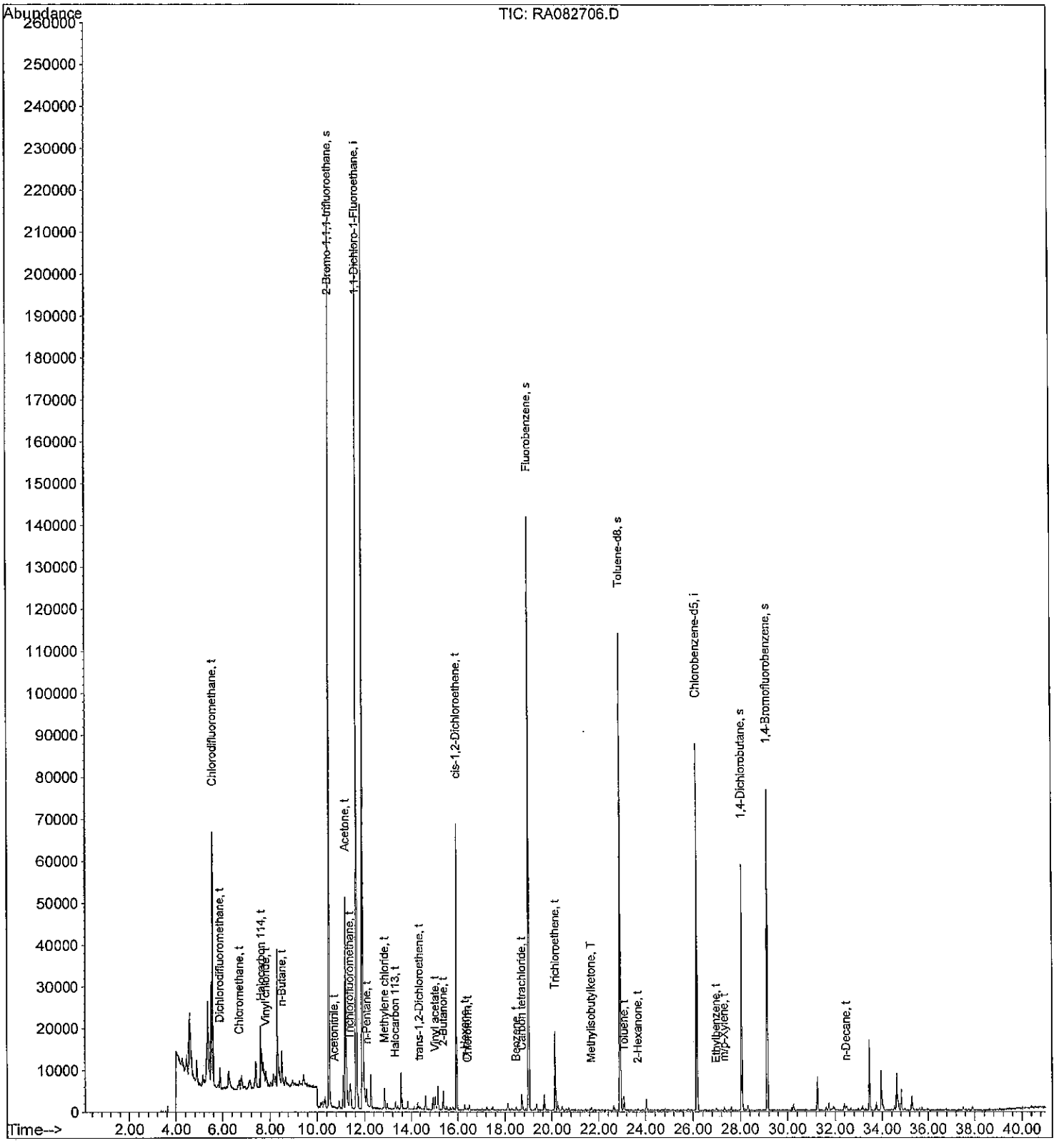
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	201964	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	51632	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	73444	1.7793 ppbV	0.02
Spiked Amount 2.000			Recovery	= 89.00%	
65) Fluorobenzene	19.00	96	129519	1.3186 ppbV	0.01
Spiked Amount 2.000			Recovery	= 66.00%	
113) Toluene-d8	22.92	98	89827	1.9828 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
115) 1,4-Dichlorobutane	28.05	90	7404	2.0252 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	
141) 1,4-Bromofluorobenzene	29.14	95	35711	2.1039 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.57	51	66951	1.2580 ppbV	S	92
10) Dichlorodifluoromethane	5.89	85	7514	0.0729 ppbV	S	99
11) Chloromethane	6.73	50	1769	0.0699 ppbV	S	89
13) Halocarbon 114	7.62	85	562	0.0061 ppbV #	S	71
15) Vinyl chloride	7.81	62	1766	0.0613 ppbV	S	91
18) n-Butane	8.52	43	5075	0.1111 ppbV	S	86
29) Acetonitrile	10.73	41	452m	0.0209 ppbV	S	
32) Trichlorofluoromethane	11.36	101	3899	0.0418 ppbV #	S	64
34) Acetone	11.17	43	92323m	1.7420 ppbV	S	
37) n-Pentane	12.10	43	2476	0.0509 ppbV	S	89
43) Methylene chloride	12.85	49	3226	0.0910 ppbV #	S	1
47) Halocarbon 113	13.32	151	661	0.0180 ppbV #	S	100
50) trans-1,2-Dichloroethene	14.35	61	652	0.0146 ppbV #	S	1
58) Vinyl acetate	15.02	43	6345m	0.0752 ppbV	S	
62) 2-Butanone	15.38	43	7592	0.1180 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.94	61	47261	0.9939 ppbV #	S	1
71) n-Hexane	16.31	57	474	0.0097 ppbV #	S	1
72) Chloroform	16.41	83	489	0.0064 ppbV #	S	1
84) Benzene	18.48	78	857	0.0199 ppbV #	S	64
85) Carbon tetrachloride	18.72	117	746	0.0151 ppbV #	S	19
94) Trichloroethene	20.13	130	6176	0.3443 ppbV #	S	1
105) Methylisobutylketone	21.68	43	581	0.0138 ppbV #	S	1
114) Toluene	23.09	91	3179	0.0817 ppbV #	S	1
116) 2-Hexanone	23.66	43	366	0.0133 ppbV #	S	10
129) Ethylbenzene	26.98	91	458	0.0116 ppbV	S	65
130) m/p-Xylene	27.31	91	886m	0.0260 ppbV	S	
158) n-Decane	32.47	57	711m	0.0179 ppbV	S	

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082706.D Vial: 1
Acq On : 27 Aug 2011 1:22 pm Operator: KRW
Sample : AUH0043-01,,,,;TCESL Inst : GCMS-R1
Misc : 3.9124,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:12 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082707.D Vial: 1
Acq On : 27 Aug 2011 2:23 pm Operator: KRW
Sample : AUH0043-02,,,,;TCESL Inst : GCMS-R1
Misc : 3.1761,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:16 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

TCE

MW 8-30-11

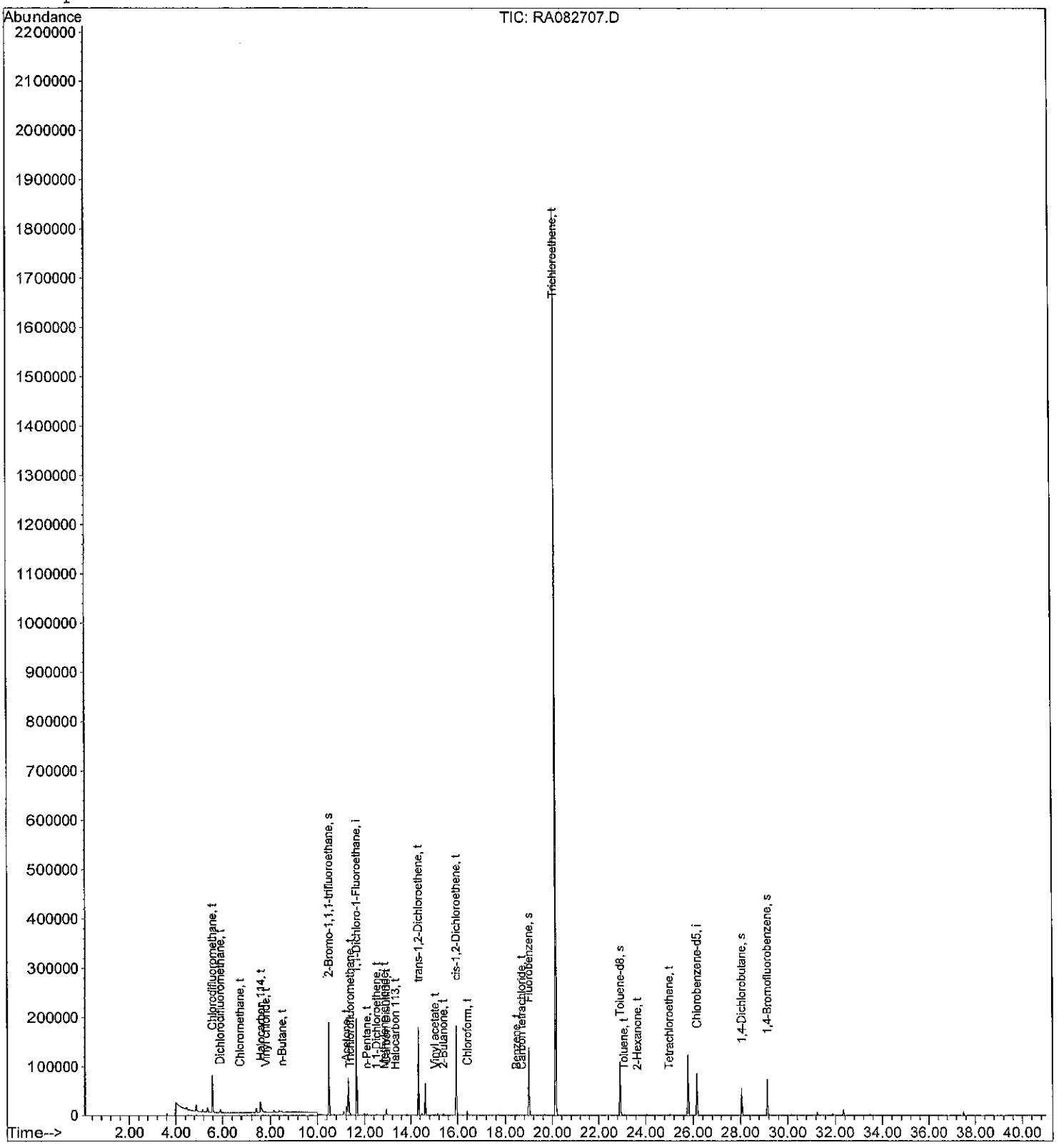
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	192910	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	51622	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	70534	1.7890 ppbV	0.02
Spiked Amount 2.000			Recovery	= 89.50%	
65) Fluorobenzene	19.00	96	122478	1.3055 ppbV	0.01
Spiked Amount 2.000			Recovery	= 65.50%	
113) Toluene-d8	22.92	98	85779	1.8938 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	
115) 1,4-Dichlorobutane	28.05	90	6693	1.8311 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.50%	
141) 1,4-Bromofluorobenzene	29.13	95	34353	2.0243 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.57	51	82299	1.6189 ppbV	S	93
10) Dichlorodifluoromethane	5.89	85	9052	0.0919 ppbV	S	99
11) Chloromethane	6.73	50	718	0.0297 ppbV	S	86
13) Halocarbon 114	7.60	85	718	0.0082 ppbV #	S	62
15) Vinyl chloride	7.81	62	788	0.0286 ppbV	S	93
18) n-Butane	8.52	43	962	0.0220 ppbV	S	86
32) Trichlorofluoromethane	11.37	101	4481	0.0503 ppbV #	S	78
34) Acetone	11.21	43	38909m	0.7686 ppbV	S	
37) n-Pentane	12.10	43	1698	0.0365 ppbV	S	79
41) 1,1-Dichloroethene	12.52	61	1024	0.0203 ppbV #	S	18
43) Methylene chloride	12.86	49	1093	0.0323 ppbV #	S	1
45) Carbon Disulfide	12.95	76	17929	0.2313 ppbV	S	91
47) Halocarbon 113	13.34	151	431m	0.0123 ppbV	S	
50) trans-1,2-Dichloroethene	14.34	61	119814	2.8090 ppbV #	S	1
58) Vinyl acetate	15.03	43	4670m	0.0580 ppbV	S	
62) 2-Butanone	15.38	43	6503	0.1058 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.94	61	128555	2.8305 ppbV #	S	1
72) Chloroform	16.41	83	7431	0.1020 ppbV #	S	1
84) Benzene	18.48	78	1369	0.0318 ppbV	S	72
85) Carbon tetrachloride	18.69	117	745m	0.0151 ppbV	S	
94) Trichloroethene	20.14	130	616340	34.3632 ppbV #	S	1
114) Toluene	23.09	91	611m	0.0157 ppbV	S	
116) 2-Hexanone	23.66	43	294	0.0107 ppbV #	S	10
126) Tetrachloroethene	25.01	164	429	0.0298 ppbV #	S	81

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082707.D Vial: 1
Acq On : 27 Aug 2011 2:23 pm Operator: KRW
Sample : AUH0043-02,,,,;TCESL Inst : GCMS-R1
Misc : 3.1761,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:16 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082708.D Vial: 1
Acq On : 27 Aug 2011 3:24 pm Operator: KRW
Sample : AUH0043-04,,,,;TCESL Inst : GCMS-R1
Misc : 3.5305,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:19 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

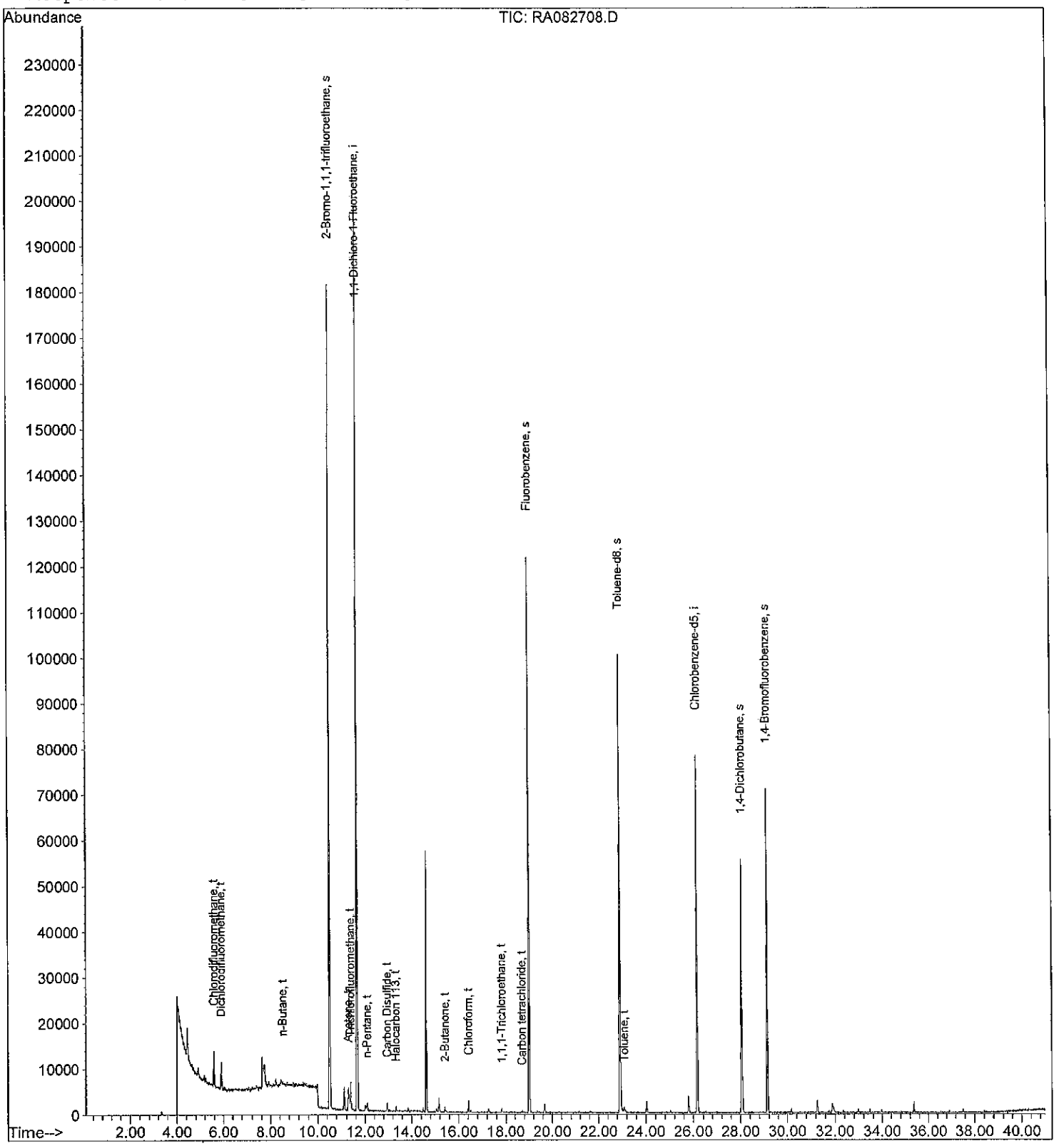
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	194518	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	46617	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	66766	1.6795 ppbV	0.02
Spiked Amount 2.000			Recovery	= 84.00%	
65) Fluorobenzene	19.00	96	109443	1.1569 ppbV	0.01
Spiked Amount 2.000			Recovery	= 58.00%	
113) Toluene-d8	22.92	98	79761	1.9500 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
115) 1,4-Dichlorobutane	28.05	90	7001	2.1209 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	
141) 1,4-Bromofluorobenzene	29.14	95	33290	2.1723 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.50%	

Target Compounds					Qvalue
8) Chlorodifluoromethane	5.58	51	8831	0.1723 ppbV S	93
10) Dichlorodifluoromethane	5.90	85	8315	0.0837 ppbV S	96
18) n-Butane	8.54	43	221	0.0050 ppbV # S	49
32) Trichlorofluoromethane	11.36	101	5384	0.0599 ppbV # S	77
34) Acetone	11.28	43	12634m	0.2475 ppbV S	
37) n-Pentane	12.10	43	1588	0.0339 ppbV # S	70
45) Carbon Disulfide	12.95	76	3044	0.0389 ppbV S	80
47) Halocarbon 113	13.32	151	218	0.0062 ppbV # S	100
62) 2-Butanone	15.41	43	1763	0.0284 ppbV # S	1
72) Chloroform	16.42	83	2463	0.0335 ppbV # S	1
81) 1,1,1-Trichloroethane	17.82	97	837	0.0103 ppbV # S	1
85) Carbon tetrachloride	18.71	117	251	0.0056 ppbV # S	8
114) Toluene	23.09	91	441	0.0125 ppbV # S	1

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082708.D Vial: 1
Acq On : 27 Aug 2011 3:24 pm Operator: KRW
Sample : AUH0043-04,,,,;TCESL Inst : GCMS-R1
Misc : 3.5305,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:19 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082710.D Vial: 1
Acq On : 27 Aug 2011 5:26 pm Operator: KRW
Sample : AUH0043-03,,,,;TCESL Inst : GCMS-R1
Misc : 2.7184,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:24 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

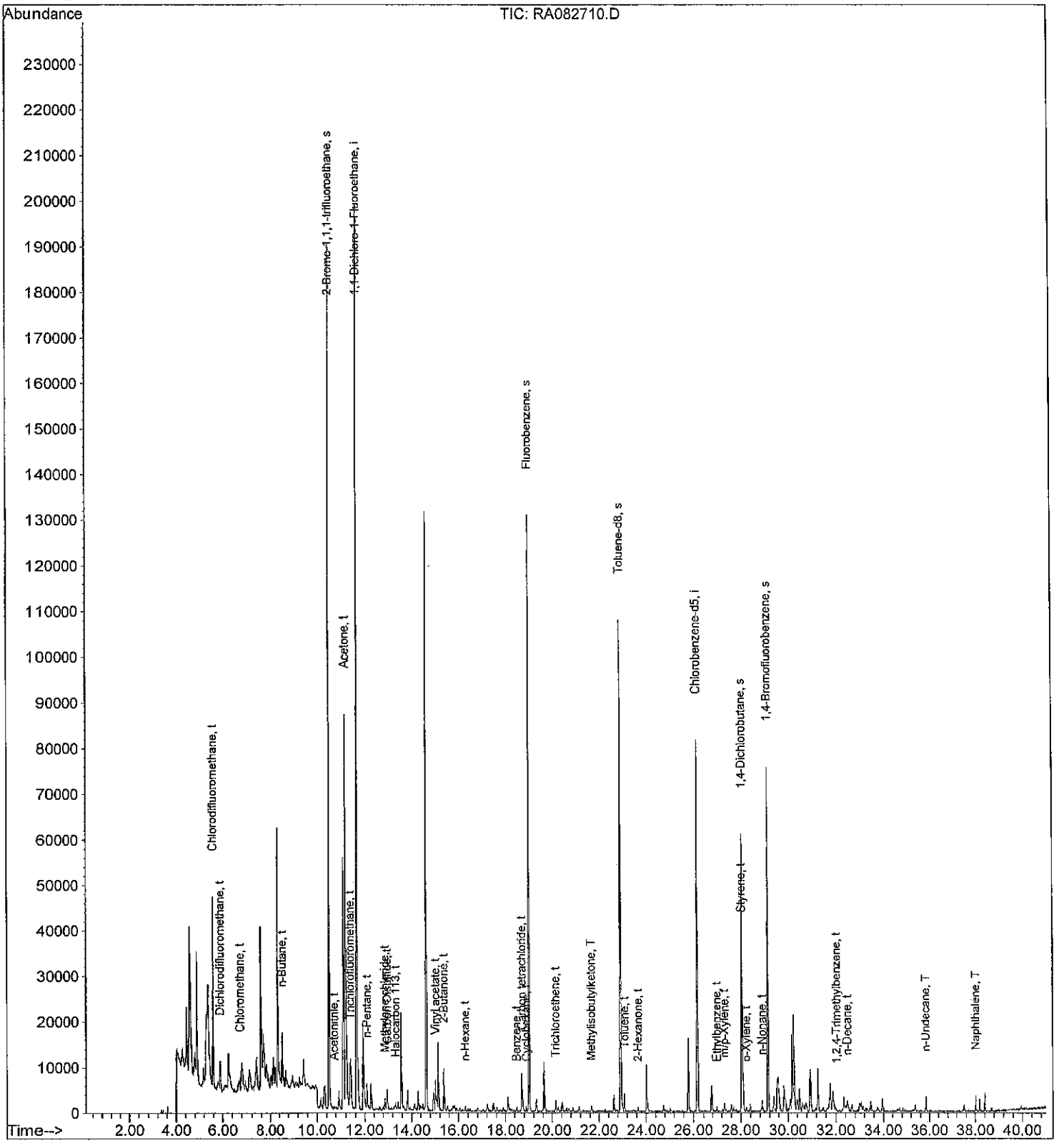
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	192150	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	48572	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	67082	1.7082 ppbV	0.02
Spiked Amount 2.000			Recovery	= 85.50%	
65) Fluorobenzene	19.01	96	117657	1.2590 ppbV	0.02
Spiked Amount 2.000			Recovery	= 63.00%	
113) Toluene-d8	22.92	98	83386	1.9565 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	
115) 1,4-Dichlorobutane	28.05	90	7414	2.1557 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.00%	
141) 1,4-Bromofluorobenzene	29.13	95	35484	2.2222 ppbV	0.00
Spiked Amount 2.000			Recovery	= 111.00%	

Target Compounds					Qvalue
8) Chlorodifluoromethane	5.58	51	47525	0.9386 ppbV	S 93
10) Dichlorodifluoromethane	5.89	85	9237	0.0942 ppbV	S 96
11) Chloromethane	6.73	50	2270	0.0942 ppbV	S 85
18) n-Butane	8.52	43	4358	0.1003 ppbV	S 80
29) Acetonitrile	10.72	41	575	0.0279 ppbV #	S 41
32) Trichlorofluoromethane	11.37	101	5659	0.0638 ppbV #	S 72
34) Acetone	11.17	43	154698m	3.0681 ppbV	S
37) n-Pentane	12.10	43	4084	0.0882 ppbV	S 79
43) Methylene chloride	12.86	49	829	0.0246 ppbV #	S 1
45) Carbon Disulfide	12.95	76	2462	0.0319 ppbV	S 95
47) Halocarbon 113	13.33	151	510	0.0146 ppbV #	S 100
58) Vinyl acetate	15.03	43	13176	0.1642 ppbV #	S 45
62) 2-Butanone	15.37	43	15164	0.2477 ppbV #	S 1
71) n-Hexane	16.29	57	438m	0.0094 ppbV	S
84) Benzene	18.48	78	993	0.0245 ppbV #	S 56
85) Carbon tetrachloride	18.71	117	979	0.0211 ppbV #	S 1
87) Cyclohexane	18.89	56	552	0.0196 ppbV #	S 1
94) Trichloroethene	20.14	130	617	0.0366 ppbV #	S 1
105) Methylisobutylketone	21.66	43	1412	0.0357 ppbV #	S 1
114) Toluene	23.09	91	3588	0.0980 ppbV #	S 1
116) 2-Hexanone	23.66	43	909	0.0350 ppbV #	S 33
129) Ethylbenzene	26.98	91	1088	0.0294 ppbV	S 58
130) m/p-Xylene	27.31	91	2568	0.0800 ppbV	S 90
134) Styrene	28.03	104	1909	0.1259 ppbV #	S 39
136) o-Xylene	28.23	91	846	0.0256 ppbV	S 68
140) n-Nonane	28.90	43	1096m	0.0354 ppbV	S
153) 1,2,4-Trimethylbenzene	32.02	105	597	0.0160 ppbV #	S 1
158) n-Decane	32.48	57	1879m	0.0503 ppbV	S
171) n-Undecane	35.83	57	1495	0.0289 ppbV	S 68
173) Naphthalene	38.03	128	2670	0.0468 ppbV	S 92

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082710.D Vial: 1
Acq On : 27 Aug 2011 5:26 pm Operator: KRW
Sample : AUH0043-03,,,,;TCESL Inst : GCMS-R1
Misc : 2.7184,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:24 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082711.D Vial: 1
Acq On : 27 Aug 2011 6:27 pm Operator: KRW
Sample : AUH0043-05,,,,;TCESL Inst : GCMS-R1
Misc : 2.5661,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:26 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 9-30-11

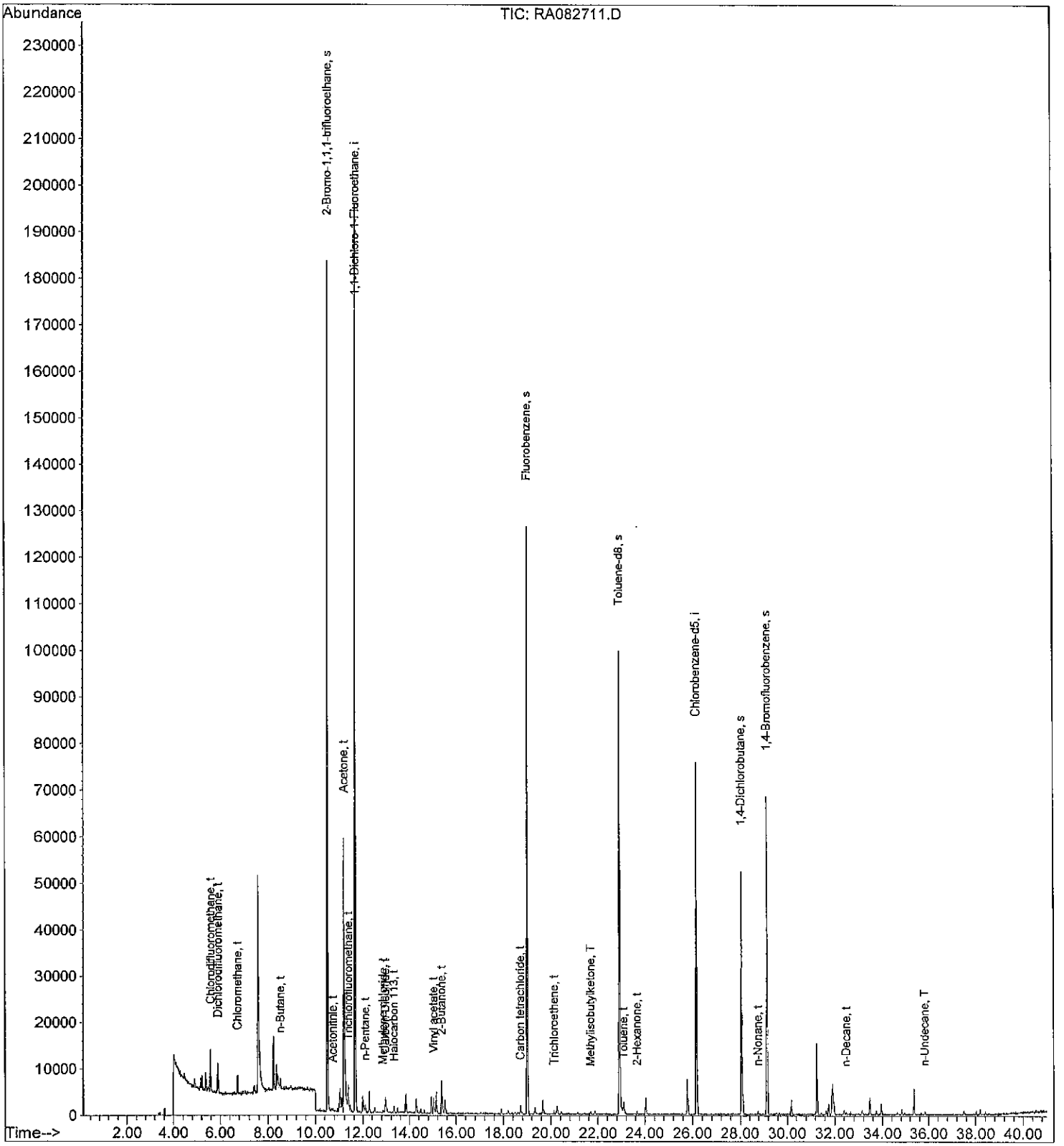
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	191978	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	45273	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	66391	1.6921 ppbV	0.02
Spiked Amount 2.000			Recovery	= 84.50%	
65) Fluorobenzene	19.01	96	112324	1.2031 ppbV	0.02
Spiked Amount 2.000			Recovery	= 60.00%	
113) Toluene-d8	22.92	98	78799	1.9836 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
115) 1,4-Dichlorobutane	28.06	90	6655	2.0760 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	
141) 1,4-Bromofluorobenzene	29.14	95	31555	2.1202 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	

Target Compounds					Qvalue
8) Chlorodifluoromethane	5.59	51	10729	0.2121 ppbV	S 94
10) Dichlorodifluoromethane	5.90	85	9768	0.0997 ppbV	S 97
11) Chloromethane	6.73	50	3296	0.1370 ppbV	S 95
18) n-Butane	8.53	43	1794	0.0413 ppbV	S 88
29) Acetonitrile	10.74	41	661m	0.0321 ppbV	S
32) Trichlorofluoromethane	11.37	101	4397	0.0496 ppbV #	S 71
34) Acetone	11.18	43	120728m	2.3965 ppbV	S
37) n-Pentane	12.09	43	1244	0.0269 ppbV	S 81
43) Methylene chloride	12.86	49	442	0.0131 ppbV #	S 1
45) Carbon Disulfide	12.96	76	2044	0.0265 ppbV	S 78
47) Halocarbon 113	13.33	151	493	0.0141 ppbV #	S 100
58) Vinyl acetate	15.03	43	6138m	0.0765 ppbV	S
62) 2-Butanone	15.38	43	12803	0.2093 ppbV #	S 1
85) Carbon tetrachloride	18.71	117	1151	0.0266 ppbV #	S 1
94) Trichloroethene	20.13	130	188	0.0120 ppbV #	S 1
105) Methylisobutylketone	21.68	43	612	0.0166 ppbV #	S 1
114) Toluene	23.08	91	1296	0.0380 ppbV #	S 1
116) 2-Hexanone	23.66	43	450	0.0186 ppbV #	S 66
140) n-Nonane	28.75	43	619	0.0215 ppbV #	S 37
158) n-Decane	32.48	57	242	0.0069 ppbV #	S 55
171) n-Undecane	35.83	57	380	0.0079 ppbV #	S 24

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082711.D Vial: 1
Acq On : 27 Aug 2011 6:27 pm Operator: KRW
Sample : AUH0043-05,,,,;TCESL Inst : GCMS-R1
Misc : 2.5661,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:26 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082712.D Vial: 1
Acq On : 27 Aug 2011 7:26 pm Operator: KRW
Sample : AUH0043-06,,,,;TCESL Inst : GCMS-R1
Misc : 2.3534,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:27 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	192812	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	48712	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	67639	1.7165 ppbV	0.03
Spiked Amount 2.000			Recovery	= 86.00%	
65) Fluorobenzene	19.01	96	121436	1.2950 ppbV	0.02
Spiked Amount 2.000			Recovery	= 65.00%	
113) Toluene-d8	22.93	98	84397	1.9746 ppbV	0.01
Spiked Amount 2.000			Recovery	= 98.50%	
115) 1,4-Dichlorobutane	28.05	90	6839	1.9828 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
141) 1,4-Bromofluorobenzene	29.14	95	34525	2.1560 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.00%	

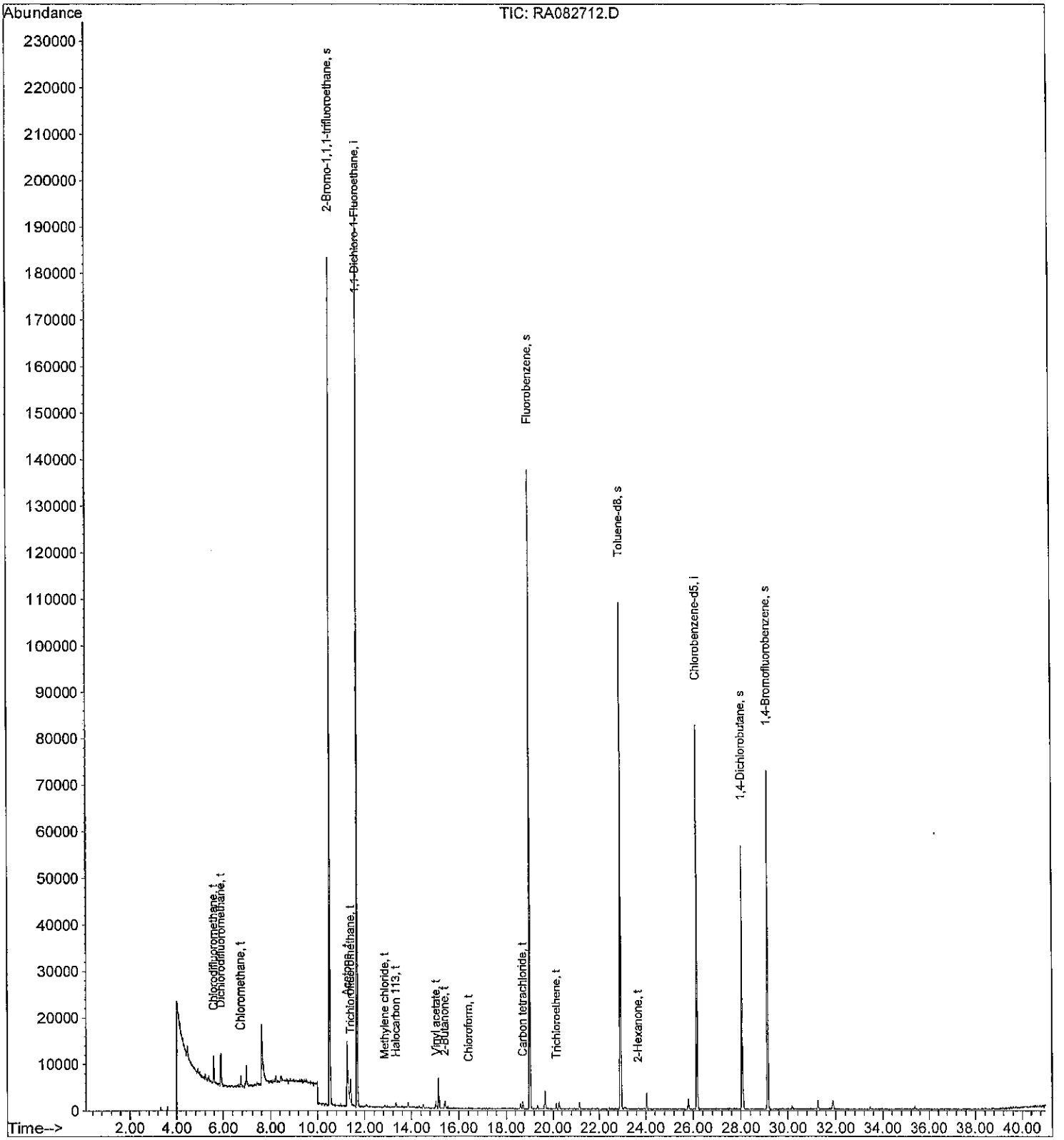
Target Compounds					Qvalue
8) Chlorodifluoromethane	5.59	51	6820	0.1342 ppbV S	95
10) Dichlorodifluoromethane	5.90	85	9886	0.1004 ppbV S	91
11) Chloromethane	6.74	50	2218	0.0918 ppbV S	93
32) Trichlorofluoromethane	11.38	101	4920	0.0552 ppbV # S	86
34) Acetone	11.24	43	28960m	0.5724 ppbV S	
43) Methylene chloride	12.86	49	262	0.0077 ppbV # S	1
47) Halocarbon 113	13.33	151	468	0.0133 ppbV # S	100
58) Vinyl acetate	15.04	43	2797m	0.0347 ppbV S	
62) 2-Butanone	15.41	43	3175	0.0517 ppbV # S	1
72) Chloroform	16.42	83	133	0.0018 ppbV # S	1
85) Carbon tetrachloride	18.72	117	1165	0.0250 ppbV # S	18
94) Trichloroethene	20.16	130	352	0.0208 ppbV # S	1
116) 2-Hexanone	23.67	43	370	0.0142 ppbV # S	10

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082712.D Vial: 1
Acq On : 27 Aug 2011 7:26 pm Operator: KRW
Sample : AUH0043-06,,,,;TCESL Inst : GCMS-R1
Misc : 2.3534,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:27 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082713.D Vial: 1
Acq On : 27 Aug 2011 8:27 pm Operator: KRW
Sample : AUH0043-07,,,,;TCESL Inst : GCMS-R1
Misc : 3.0454,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:30 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

AMK 8-30-11

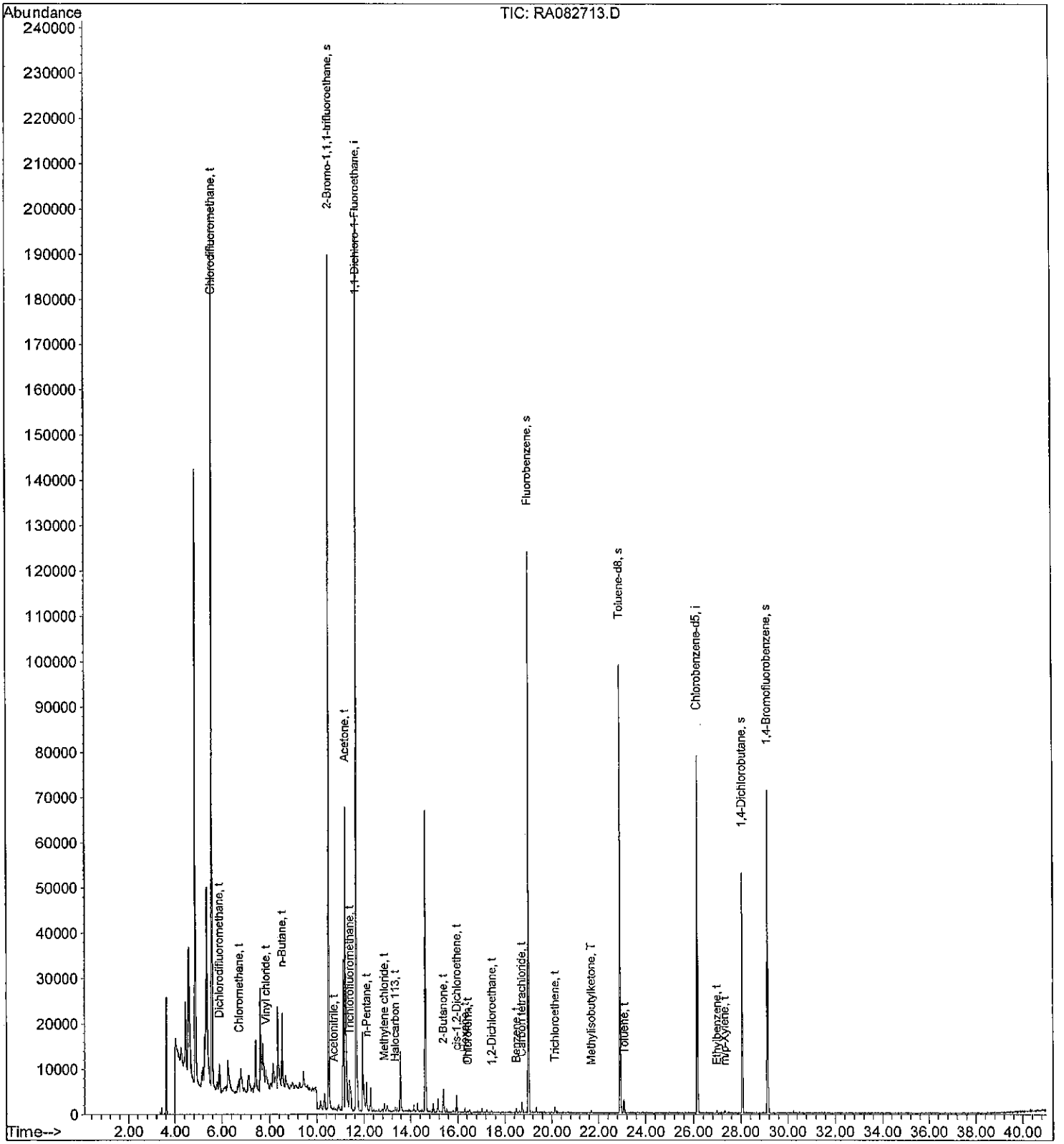
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	191199	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	44927	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	65677	1.6808 ppbV	0.02
Spiked Amount 2.000			Recovery	= 84.00%	
65) Fluorobenzene	19.01	96	109998	1.1829 ppbV	0.02
Spiked Amount 2.000			Recovery	= 59.00%	
113) Toluene-d8	22.92	98	77693	1.9709 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.50%	
115) 1,4-Dichlorobutane	28.06	90	6716	2.1111 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	
141) 1,4-Bromofluorobenzene	29.14	95	31925	2.1616 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.57	51	211236	4.1924 ppbV	S	93
10) Dichlorodifluoromethane	5.90	85	8721	0.0893 ppbV	S	96
11) Chloromethane	6.73	50	2496	0.1041 ppbV	S	96
15) Vinyl chloride	7.82	62	991	0.0363 ppbV	S	83
18) n-Butane	8.53	43	9906	0.2290 ppbV	S	90
29) Acetonitrile	10.72	41	500m	0.0244 ppbV	S	
32) Trichlorofluoromethane	11.36	101	5152	0.0583 ppbV #	S	70
34) Acetone	11.18	43	121319m	2.4180 ppbV	S	
37) n-Pentane	12.11	43	4562	0.0990 ppbV	S	85
43) Methylene chloride	12.86	49	464	0.0138 ppbV #	S	1
47) Halocarbon 113	13.33	151	415	0.0119 ppbV #	S	100
62) 2-Butanone	15.38	43	9377	0.1539 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.94	61	2492	0.0554 ppbV #	S	1
71) n-Hexane	16.30	57	516	0.0111 ppbV #	S	1
72) Chloroform	16.43	83	334	0.0046 ppbV #	S	1
79) 1,2-Dichloroethane	17.46	62	288	0.0050 ppbV #	S	46
84) Benzene	18.48	78	752	0.0201 ppbV	S	50
85) Carbon tetrachloride	18.71	117	932m	0.0217 ppbV	S	
94) Trichloroethene	20.14	130	400	0.0256 ppbV #	S	1
105) Methylisobutylketone	21.69	43	626	0.0171 ppbV #	S	1
114) Toluene	23.09	91	3112	0.0919 ppbV #	S	1
129) Ethylbenzene	26.98	91	762	0.0223 ppbV	S	88
130) m/p-Xylene	27.31	91	1134m	0.0382 ppbV	S	

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082713.D Vial: 1
Acq On : 27 Aug 2011 8:27 pm Operator: KRW
Sample : AUH0043-07,,,,;TCESL Inst : GCMS-R1
Misc : 3.0454,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:30 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082714.D Vial: 1
Acq On : 27 Aug 2011 9:26 pm Operator: KRW
Sample : AUH0043-08,,,,;TCESL Inst : GCMS-R1
Misc : 2.4865,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:33 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

MW 8.30.11

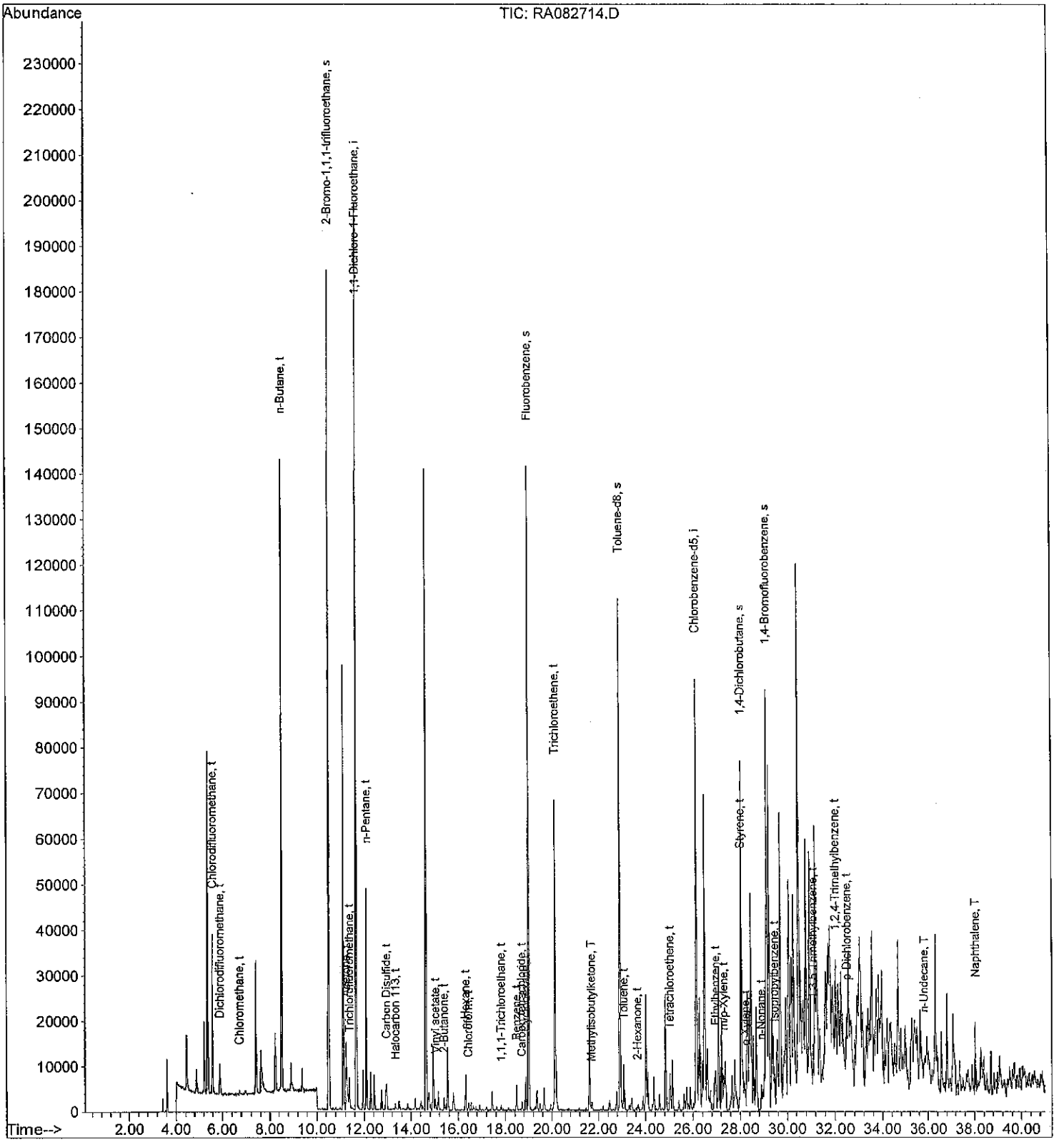
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	193978	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	54698	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	66747	1.6837 ppbV	0.03
Spiked Amount 2.000			Recovery	= 84.00%	
65) Fluorobenzene	19.01	96	127358	1.3500 ppbV	0.02
Spiked Amount 2.000			Recovery	= 67.50%	
113) Toluene-d8	22.92	98	89756	1.8701 ppbV	0.00
Spiked Amount 2.000			Recovery	= 93.50%	
115) 1,4-Dichlorobutane	28.05	90	8165	2.1081 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	
141) 1,4-Bromofluorobenzene	29.13	95	41951m	2.3330 ppbV	0.00
Spiked Amount 2.000			Recovery	= 116.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.58	51	39175	0.7664 ppbV	S	92
10) Dichlorodifluoromethane	5.90	85	9675	0.0977 ppbV	S	97
11) Chloromethane	6.73	50	962	0.0396 ppbV	S	78
18) n-Butane	8.53	43	111972	2.5517 ppbV	S	91
32) Trichlorofluoromethane	11.37	101	5899	0.0658 ppbV #	S	74
34) Acetone	11.22	43	37845m	0.7435 ppbV	S	
37) n-Pentane	12.11	43	33193	0.7101 ppbV	S	86
45) Carbon Disulfide	12.96	76	8537	0.1095 ppbV	S	98
47) Halocarbon 113	13.35	151	480m	0.0136 ppbV	S	
58) Vinyl acetate	15.04	43	3879m	0.0479 ppbV	S	
62) 2-Butanone	15.41	43	4887	0.0791 ppbV #	S	1
71) n-Hexane	16.30	57	3422	0.0728 ppbV #	S	1
72) Chloroform	16.43	83	1226	0.0167 ppbV #	S	1
81) 1,1,1-Trichloroethane	17.83	97	969	0.0120 ppbV #	S	1
84) Benzene	18.48	78	5355	0.1173 ppbV	S	63
85) Carbon tetrachloride	18.72	117	1281	0.0245 ppbV #	S	8
87) Cyclohexane	18.88	56	3162	0.0997 ppbV #	S	1
94) Trichloroethene	20.14	130	20731	1.0908 ppbV #	S	1
105) Methylisobutylketone	21.70	43	461m	0.0103 ppbV	S	
114) Toluene	23.09	91	8195	0.1987 ppbV #	S	1
116) 2-Hexanone	23.67	43	1078m	0.0369 ppbV	S	
126) Tetrachloroethene	25.02	164	1515	0.0992 ppbV	S	96
129) Ethylbenzene	26.97	91	816m	0.0196 ppbV	S	
130) m/p-Xylene	27.33	91	3854m	0.1066 ppbV	S	
134) Styrene	28.02	104	139m	0.0081 ppbV	S	
136) o-Xylene	28.23	91	4412	0.1187 ppbV	S	90
140) n-Nonane	28.89	43	3948m	0.1133 ppbV	S	
142) Isopropylbenzene	29.46	105	1731	0.0301 ppbV #	S	100
150) 1,3,5-Trimethylbenzene	31.10	105	9302	0.1998 ppbV	S	84
153) 1,2,4-Trimethylbenzene	32.02	105	5860	0.1393 ppbV #	S	1
159) p-Dichlorobenzene	32.49	146	606	0.0363 ppbV #	S	1
171) n-Undecane	35.82	57	642	0.0110 ppbV	S	75
173) Naphthalene	38.04	128	1143	0.0178 ppbV	S	72

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082714.D Vial: 1
Acq On : 27 Aug 2011 9:26 pm Operator: KRW
Sample : AUH0043-08,,,,;TCESL Inst : GCMS-R1
Misc : 2.4865,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:33 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082715.D Vial: 1
Acq On : 27 Aug 2011 10:26 pm Operator: KRW
Sample : AUH0046-01,,,,;TCESL Inst : GCMS-R1
Misc : 2.7416,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:35 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	202909	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	53562	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	78247	1.8869 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.50%	
65) Fluorobenzene	19.01	96	129951	1.3169 ppbV	0.02
Spiked Amount 2.000			Recovery	= 66.00%	
113) Toluene-d8	22.93	98	89820	1.9112 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.50%	
115) 1,4-Dichlorobutane	28.05	90	7406	1.9527 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
141) 1,4-Bromofluorobenzene	29.14	95	36334	2.0635 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	

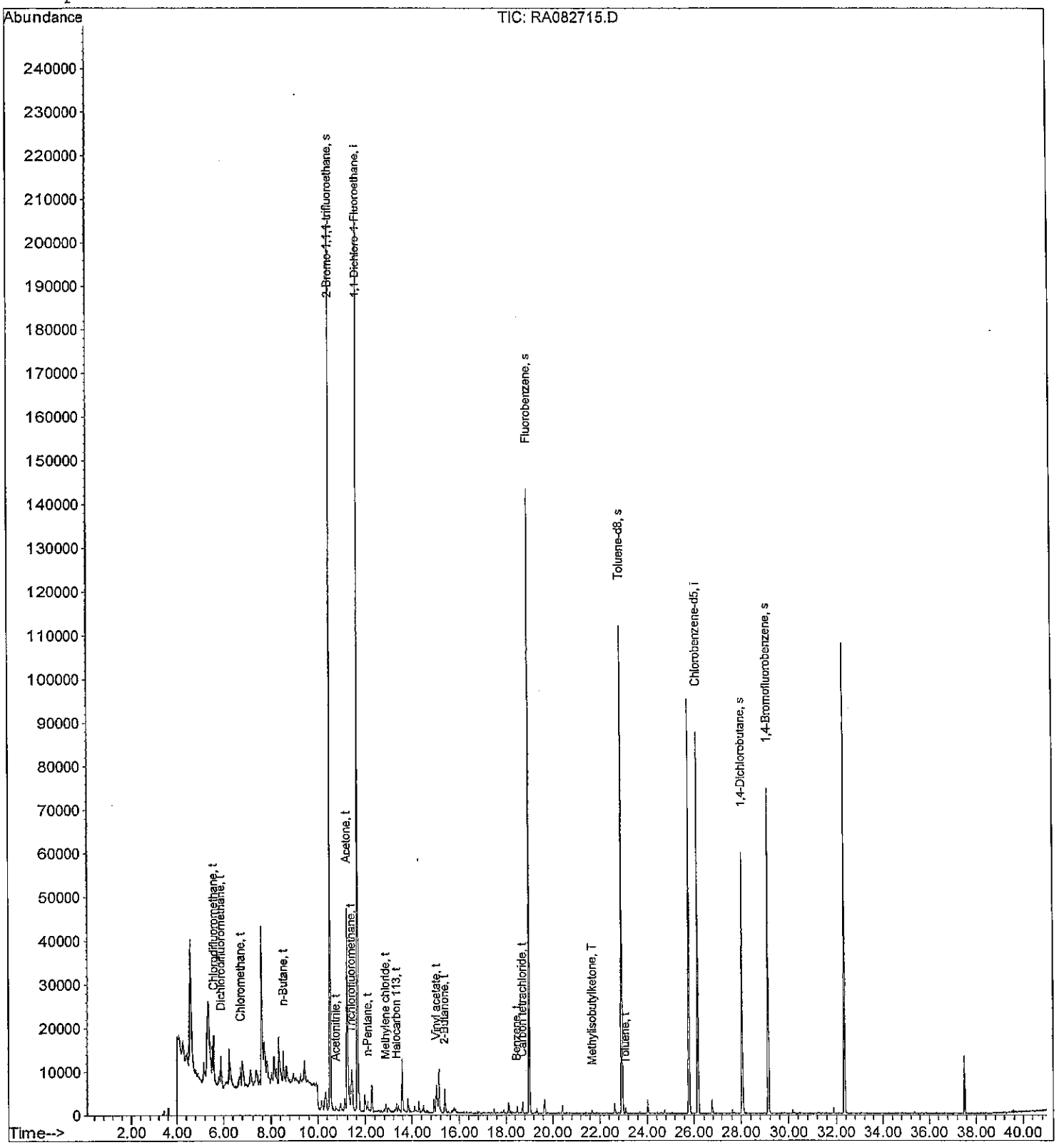
Target Compounds					Qvalue
8) Chlorodifluoromethane	5.58	51	12575	0.2352 ppbV	S 96
10) Dichlorodifluoromethane	5.89	85	10467	0.1010 ppbV	S 94
11) Chloromethane	6.73	50	3846	0.1512 ppbV	S 96
18) n-Butane	8.53	43	2147	0.0468 ppbV	S 91
29) Acetonitrile	10.74	41	875m	0.0402 ppbV	S
32) Trichlorofluoromethane	11.37	101	4874	0.0520 ppbV #	S 67
34) Acetone	11.20	43	98012m	1.8408 ppbV	S
37) n-Pentane	12.11	43	1652	0.0338 ppbV	S 74
43) Methylene chloride	12.86	49	391	0.0110 ppbV #	S 1
47) Halocarbon 113	13.34	151	735	0.0199 ppbV #	S 100
58) Vinyl acetate	15.03	43	11759m	0.1387 ppbV	S
62) 2-Butanone	15.39	43	10057	0.1556 ppbV #	S 1
84) Benzene	18.48	78	1800	0.0403 ppbV #	S 75
85) Carbon tetrachloride	18.72	117	1018	0.0199 ppbV #	S 1
105) Methylisobutylketone	21.68	43	782m	0.0179 ppbV	S
114) Toluene	23.09	91	1194	0.0296 ppbV #	S 1

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082715.D Vial: 1
Acq On : 27 Aug 2011 10:26 pm Operator: KRW
Sample : AUH0046-01,,,,;TCESL Inst : GCMS-R1
Misc : 2.7416,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:35 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082716.D Vial: 1
Acq On : 27 Aug 2011 11:25 pm Operator: KRW
Sample : 11H0392-DUP1,,,,;TCESL Inst : GCMS-R1
Misc : 2.7416,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:37 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

AAA 8.30.11

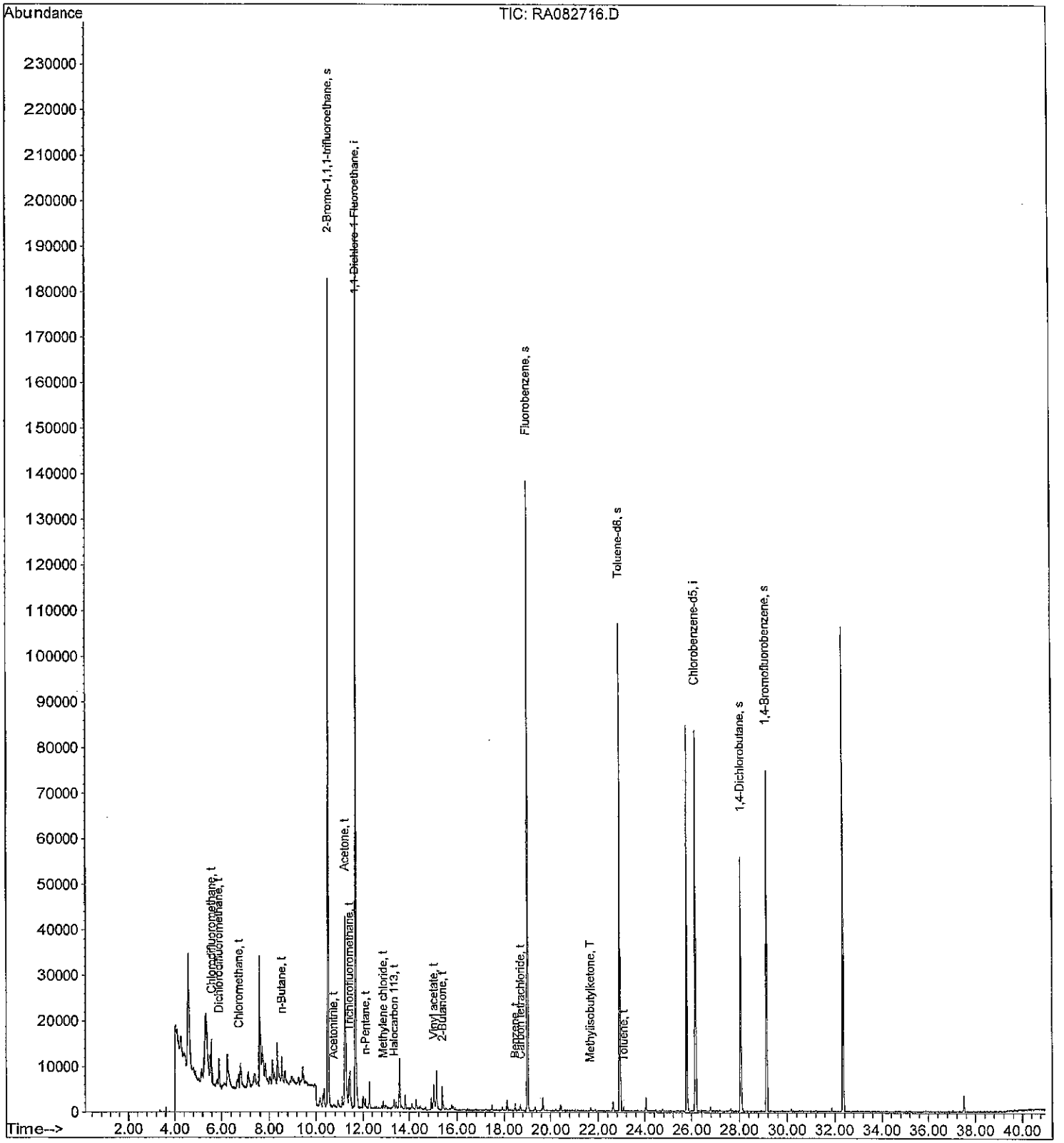
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	191002	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	49799	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	67418	1.7271 ppbV	0.03
Spiked Amount 2.000			Recovery	= 86.50%	
65) Fluorobenzene	19.01	96	120009	1.2919 ppbV	0.02
Spiked Amount 2.000			Recovery	= 64.50%	
113) Toluene-d8	22.92	98	84960	1.9444 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.00%	
115) 1,4-Dichlorobutane	28.06	90	7076	2.0067 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
141) 1,4-Bromofluorobenzene	29.14	95	34322	2.0965 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.59	51	10958	0.2177 ppbV	S	95
10) Dichlorodifluoromethane	5.90	85	8597	0.0882 ppbV	S	94
11) Chloromethane	6.74	50	2896	0.1210 ppbV	S	96
18) n-Butane	8.53	43	1563	0.0362 ppbV	S	70
29) Acetonitrile	10.75	41	621m	0.0303 ppbV	S	
32) Trichlorofluoromethane	11.38	101	4572	0.0518 ppbV #	S	86
34) Acetone	11.19	43	87017m	1.7361 ppbV	S	
37) n-Pentane	12.10	43	1166	0.0253 ppbV	S	77
43) Methylene chloride	12.86	49	366	0.0109 ppbV #	S	1
47) Halocarbon 113	13.34	151	584	0.0168 ppbV #	S	100
58) Vinyl acetate	15.03	43	11017	0.1381 ppbV #	S	43
62) 2-Butanone	15.39	43	8891	0.1461 ppbV #	S	1
84) Benzene	18.49	78	1396	0.0336 ppbV	S	60
85) Carbon tetrachloride	18.72	117	969	0.0204 ppbV #	S	1
105) Methylisobutylketone	21.67	43	886	0.0218 ppbV #	S	1
114) Toluene	23.09	91	1107	0.0295 ppbV #	S	1

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082716.D Vial: 1
Acq On : 27 Aug 2011 11:25 pm Operator: KRW
Sample : 11H0392-DUP1,,,,;TCESL Inst : GCMS-R1
Misc : 2.7416,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:37 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082717.D Vial: 1
Acq On : 28 Aug 2011 12:24 am Operator: KRW
Sample : AUH0046-02,,,,;TCESL Inst : GCMS-R1
Misc : 2.7184,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:40 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

MM 9-20-11

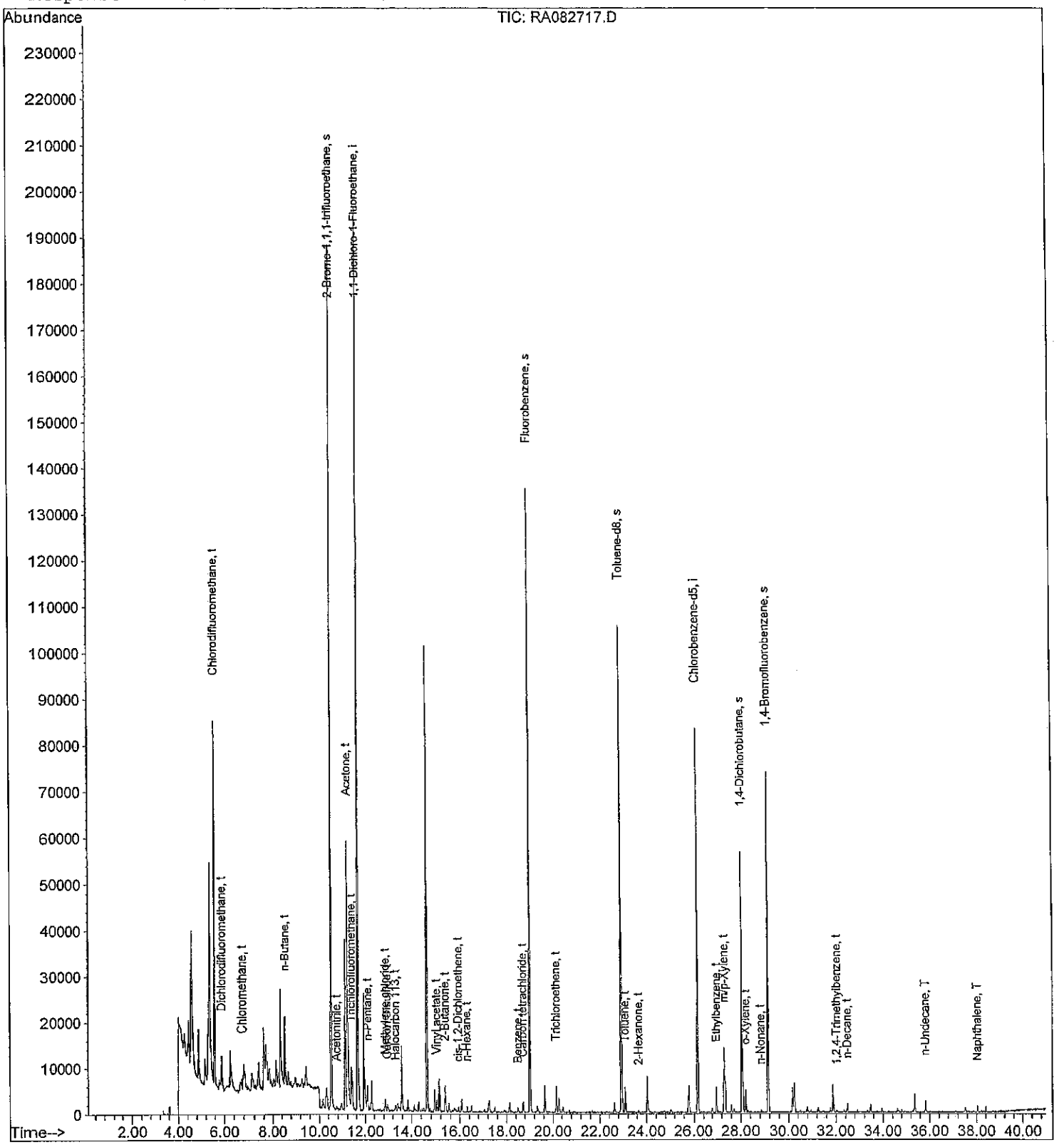
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	191834	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	48326	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	66278	1.6905 ppbV	0.03
Spiked Amount 2.000			Recovery	= 84.50%	
65) Fluorobenzene	19.01	96	118778	1.2731 ppbV	0.02
Spiked Amount 2.000			Recovery	= 63.50%	
113) Toluene-d8	22.93	98	82771	1.9520 ppbV	0.01
Spiked Amount 2.000			Recovery	= 97.50%	
115) 1,4-Dichlorobutane	28.06	90	6695	1.9565 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	
141) 1,4-Bromofluorobenzene	29.13	95	34802	2.1906 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.57	51	89338	1.7672 ppbV	S	95
10) Dichlorodifluoromethane	5.89	85	10385	0.1060 ppbV	S	98
11) Chloromethane	6.73	50	2282	0.0949 ppbV	S	94
18) n-Butane	8.53	43	8365	0.1928 ppbV	S	82
29) Acetonitrile	10.74	41	640m	0.0311 ppbV	S	
32) Trichlorofluoromethane	11.37	101	6399	0.0722 ppbV #	S	68
34) Acetone	11.18	43	110089m	2.1869 ppbV	S	
37) n-Pentane	12.11	43	3685	0.0797 ppbV	S	81
43) Methylene chloride	12.87	49	961	0.0285 ppbV #	S	1
45) Carbon Disulfide	12.95	76	2030	0.0263 ppbV	S	78
47) Halocarbon 113	13.33	151	554m	0.0158 ppbV	S	
58) Vinyl acetate	15.03	43	5073m	0.0633 ppbV	S	
62) 2-Butanone	15.38	43	9918	0.1623 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.95	61	874	0.0194 ppbV #	S	1
71) n-Hexane	16.30	57	454	0.0098 ppbV #	S	1
84) Benzene	18.49	78	897m	0.0222 ppbV	S	
85) Carbon tetrachloride	18.71	117	796	0.0172 ppbV #	S	1
94) Trichloroethene	20.14	130	1652	0.0984 ppbV #	S	1
114) Toluene	23.09	91	4996	0.1371 ppbV #	S	1
116) 2-Hexanone	23.66	43	690	0.0267 ppbV #	S	10
129) Ethylbenzene	26.98	91	5125	0.1393 ppbV	S	91
130) m/p-Xylene	27.32	91	16980	0.5317 ppbV	S	91
136) o-Xylene	28.23	91	4320	0.1316 ppbV	S	87
140) n-Nonane	28.84	43	266	0.0086 ppbV #	S	49
153) 1,2,4-Trimethylbenzene	32.02	105	428	0.0115 ppbV #	S	1
158) n-Decane	32.47	57	832	0.0224 ppbV #	S	65
171) n-Undecane	35.84	57	1164	0.0226 ppbV #	S	73
173) Naphthalene	38.04	128	1767	0.0311 ppbV	S	73

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082717.D Vial: 1
Acq On : 28 Aug 2011 12:24 am Operator: KRW
Sample : AUH0046-02,,,,;TCESL Inst : GCMS-R1
Misc : 2.7184,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:40 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082718.D Vial: 1
Acq On : 28 Aug 2011 1:23 am Operator: KRW
Sample : 11H0392-DUP2,,,,;TCESL Inst : GCMS-R1
Misc : 2.7184,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:42 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

MW 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	189356	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	49969	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	66165	1.7097 ppbV	0.03
Spiked Amount 2.000			Recovery	= 85.50%	
65) Fluorobenzene	19.01	96	122151	1.3264 ppbV	0.02
Spiked Amount 2.000			Recovery	= 66.50%	
113) Toluene-d8	22.92	98	84475	1.9267 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.50%	
115) 1,4-Dichlorobutane	28.06	90	7444	2.1039 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	
141) 1,4-Bromofluorobenzene	29.13	95	36336	2.2120 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.50%	

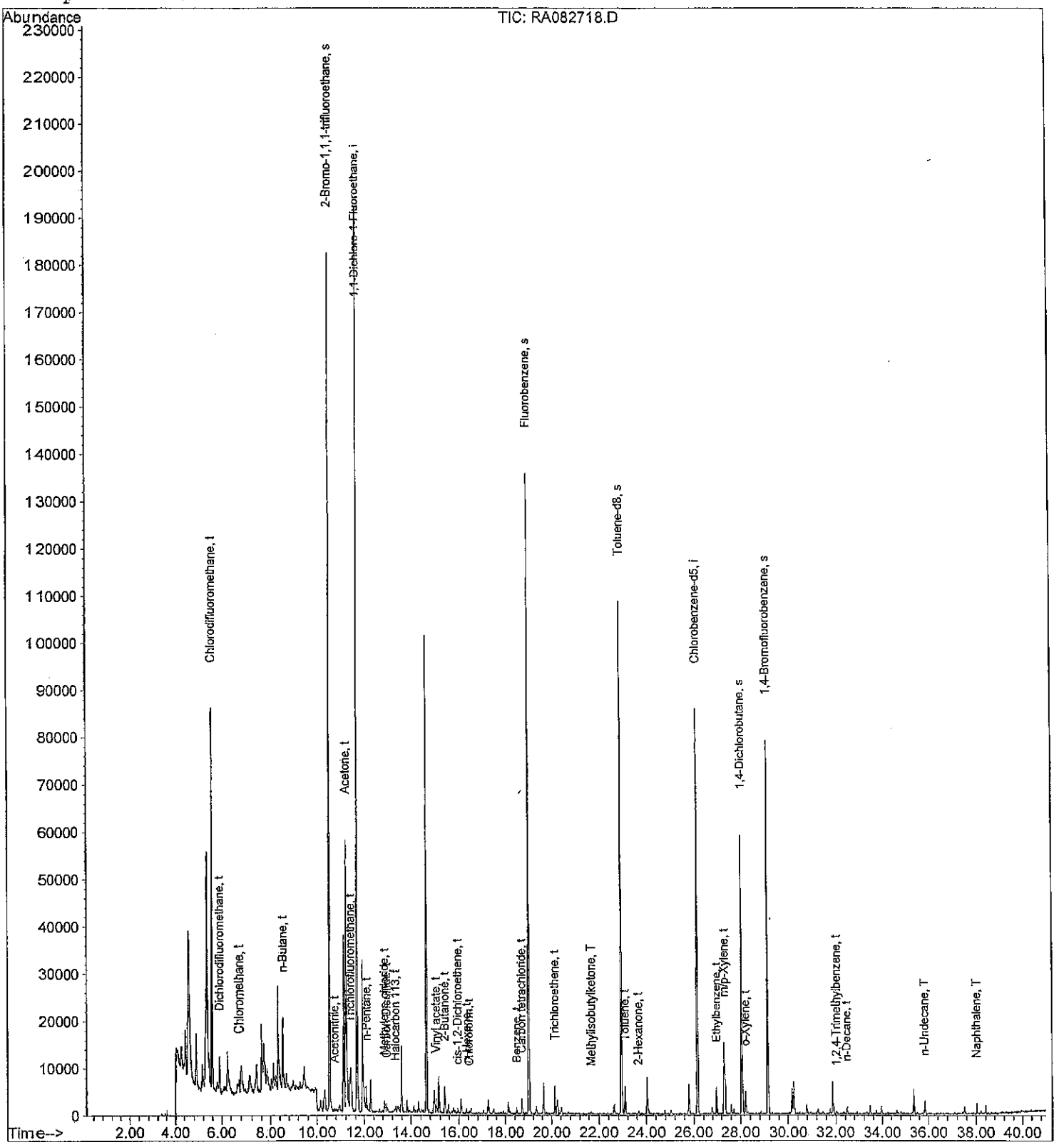
Target Compounds						Qvalue
8) Chlorodifluoromethane	5.58	51	90041	1.8044 ppbV	S	92
10) Dichlorodifluoromethane	5.90	85	10594	0.1096 ppbV	S	96
11) Chloromethane	6.73	50	2412	0.1016 ppbV	S	97
18) n-Butane	8.53	43	8531	0.1992 ppbV	S	80
29) Acetonitrile	10.73	41	626m	0.0308 ppbV	S	
32) Trichlorofluoromethane	11.37	101	6249	0.0714 ppbV #	S	69
34) Acetone	11.18	43	111189m	2.2377 ppbV	S	
37) n-Pentane	12.11	43	3776	0.0828 ppbV	S	85
43) Methylene chloride	12.87	49	1004	0.0302 ppbV #	S	1
45) Carbon Disulfide	12.96	76	1840	0.0242 ppbV	S	85
47) Halocarbon 113	13.33	151	452	0.0131 ppbV #	S	100
58) Vinyl acetate	15.03	43	5333m	0.0674 ppbV	S	
62) 2-Butanone	15.39	43	10022	0.1661 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.94	61	873	0.0196 ppbV #	S	1
71) n-Hexane	16.32	57	456	0.0099 ppbV #	S	1
72) Chloroform	16.42	83	280	0.0039 ppbV #	S	1
84) Benzene	18.49	78	1060	0.0254 ppbV	S	55
85) Carbon tetrachloride	18.72	117	932	0.0195 ppbV #	S	23
94) Trichloroethene	20.15	130	1739	0.1002 ppbV #	S	1
105) Methylisobutylketone	21.68	43	630	0.0155 ppbV #	S	1
114) Toluene	23.10	91	5789	0.1537 ppbV #	S	1
116) 2-Hexanone	23.67	43	567m	0.0212 ppbV	S	
129) Ethylbenzene	26.99	91	5659	0.1487 ppbV	S	90
130) m/p-Xylene	27.31	91	18251	0.5527 ppbV	S	93
136) o-Xylene	28.22	91	4249	0.1252 ppbV	S	79
153) 1,2,4-Trimethylbenzene	32.02	105	474	0.0123 ppbV #	S	1
158) n-Decane	32.48	57	759m	0.0197 ppbV	S	
171) n-Undecane	35.84	57	1359	0.0256 ppbV #	S	65
173) Naphthalene	38.03	128	1985	0.0338 ppbV	S	94

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082718.D Vial: 1
Acq On : 28 Aug 2011 1:23 am Operator: KRW
Sample : 11H0392-DUP2,,,,;TCESL Inst : GCMS-R1
Misc : 2.7184,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:42 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



INSTRUMENT GCMS-R1 ANALYST / DATE: uw 8/30/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: Batch ID: 11H0421

DAILY CHECK —	INSERT: CHANGED (Y / N)	SEPTA: CHANGED (Y / N)	COLUMN: CHANGED (Y / N)	AUTOSAMPLER MAINT. —
M. PUMP OIL —	TURBO OIL NA —	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: R110328.u Elect Mult. 1624 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: Entech

GC PROGRAM:

GC Meth. RA110824.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#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID:

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	Warmup	RA1865	0.5L	7	R083001	0.01043	VRC-VSP-34-17
2	11H0421-CCV1	↓	↓	7	02	↓	↓
3	-BS1	RA1748	↓	11	03	0.07046	VRC-VSP-34-18
4	-BSD1	↓	↓	11	04	↓	↓
5	-BLK1	RA2153	↓	15	05	1.0	MB
6	Test CCV1	RA1824	0.5L	1	06	0.000096	VRC-VSP-34-10
7	AVH0043-02RE1	93289	↓	2	07	3.7761	
8	AVH0046-03RE1	5477	↓	3	08	7.4750	
9	AVH0184-01	RA2128	↓	4	09	2.5059	

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	AVH0184-02	TC2012	0.5L	5	RA083010	2.5824	
11	03	RA2267	↓	6	11	2.7893	
12	04	TC2035	↓	7	12	2.7960	
13	AVH0073-01	RA2390	0.5L	8	13	2.8293	
14	AVH0240-01	7205	↓	9	14	2.3761	
15	02	7301	↓	10	15	2.2163	
16	03	VJ010	↓	11	16	2.1968	
17	Dup1	↓	↓	11	17	2.1965	
18	04	7309	↓	12	18	2.1809	
19	Dup2	↓	0.5L	12	19	↓	
20	05	RA2282	↓	13	20	2.3394	
21	06	RA2129	↓	14	21	2.0941	
22	07	H0981	↓	15	22	2.1434	
23	TestCCV1	RA1821	0.5L	1	23	0.000096	VR2-VSP-3410
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

Sequence Name: C:\msdchem\1\sequence\R110830.S
Comment:
Operator: KRW
Data Path: C:\MSDCHEM\1\DATA\R110830\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

8/31/11
KW

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

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

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

Line			Sample Name/Misc Info
1)	Sample	1	RA083001 RA110824 WARMUP
2)	Sample	1	RA083002 RA110824 11H0421-CCV1,,,,0.01043;CCAL
3)	Sample	1	RA083003 RA110824 11H0421-BS1,,,,0.01046;LCS
4)	Sample	1	RA083004 RA110824 11H0421-BSD1,,,,0.01046;LCS
5)	Sample	1	RA083005 RA110824 11H0421-BLK1
6)	Sample	1	RA083006 RA110824 TEST CCV1,,,,0.00009;CCAL
7)	Sample	1	RA083007 RA110824 AUH0043-02RE1
8)	Sample	1	RA083008 RA110824 AUH0046-03RE1
9)	Sample	1	RA083009 RA110824 AUH0184-01
10)	Sample	1	RA083010 RA110824 AUH0184-02
11)	Sample	1	RA083011 RA110824 AUH0184-03
12)	Sample	1	RA083012 RA110824 AUH0184-04
13)	Sample	1	RA083013 RA110824 AUH0073-01RE1
14)	Sample	1	RA083014 RA110824 AUH0240-01
15)	Sample	1	RA083015 RA110824 AUH0240-02
16)	Sample	1	RA083016 RA110824 AUH0240-03
17)	Sample	1	RA083017 RA110824 11H0428-DUP1
18)	Sample	1	RA083018 RA110824 AUH0240-04
19)	Sample	1	RA083019 RA110824 11H0428-DUP2
20)	Sample	1	RA083020 RA110824 AUH0240-05
21)	Sample	1	RA083021 RA110824 AUH0240-06
22)	Sample	1	RA083022 RA110824 AUH0240-07
23)	Sample	1	RA083023 RA110824 TEST CCV1,,,,0.00009;CCAL

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

Sequence Name: C:\Smart\R110830.SEQ
Date: 08-31-2011
Time: 09:52:46
Int. Std Volume: 200 cc

8/31/11
LEW

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
WARMUP	1	7	500	0	C:\Smart\C053011V2.MPT	12:00
11H0421-CCV1	1	7	500	0	C:\Smart\C053011V2.MPT	12:00
11H0421-BS1	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
11H0421-BSD1	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
11H0421-BLK1	1	15	500	0	C:\Smart\C053011V2.MPT	12:00
TESTCCV1	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-02RE1	1	2	100	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-03RE1	1	3	100	0	C:\Smart\C053011V2.MPT	12:00
AUH0184-01	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0184-02	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0184-03	1	6	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0184-04	1	7	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0073-01RE1	1	8	100	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-01	1	9	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-02	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-03	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
11H0421-DUP1	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-04	1	12	500	0	C:\Smart\C053011V2.MPT	12:00
11H0421-DUP2	1	12	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-05	1	13	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-06	1	14	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-07	1	15	500	0	C:\Smart\C053011V2.MPT	12:00
TESTCCV1	1	1	500	0	C:\Smart\C053011V2.MPT	12:00

BFB

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083002.D Vial: 1
Acq On : 30 Aug 2011 11:52 am Operator: KRW
Sample : 11H0421-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :

8/30/11
LW

Spectrum Information: Average of 29.114 to 29.153 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	29.2	4938	PASS
75	95	30	66	63.0	10654	PASS
95	95	100	100	100.0	16920	PASS
96	95	5	9	6.9	1174	PASS
173	174	0.00	2	0.7	73	PASS
174	95	50	120	66.3	11220	PASS
175	174	4	9	7.4	826	PASS
176	174	93	101	93.9	10531	PASS
177	176	5	9	6.2	653	PASS

RA083002.D RA110824.M Tue Aug 30 12:42:13 2011 KRW

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083002.D Vial: 1
Acq On : 30 Aug 2011 11:52 am Operator: KRW
Sample : 11H0421-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:48 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-31-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	194072	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	76401	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	73691	1.8579 ppbV	0.02
Spiked Amount 2.000			Recovery	= 93.00%	
65) Fluorobenzene	19.00	96	159883	1.6940 ppbV	0.00
Spiked Amount 2.000			Recovery	= 84.50%	
113) Toluene-d8	22.93	98	137447	2.0503 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.50%	
115) 1,4-Dichlorobutane	28.05	90	11868	2.1938 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.50%	
141) 1,4-Bromofluorobenzene	29.14	95	55333	2.2031 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.00%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	28828	4.6829 ppbV	S	94
4) Acetylene	3.54	26	47080	4.0971 ppbV	S	89
5) Ethane	3.62	26	11055	3.2133 ppbV	S	96
7) Propylene	5.21	41	77719	4.4750 ppbV	S	95
9) Propane	5.36	43	35064	4.3956 ppbV	S	91
10) Dichlorodifluoromethane	5.88	85	451221	4.5540 ppbV	S	98
11) Chloromethane	6.73	50	105153	4.3224 ppbV	S	98
12) Isobutane	7.38	43	215095	4.2709 ppbV	S	90
13) Halocarbon 114	7.59	85	372325	4.2318 ppbV	S	88
14) Acetaldehyde	7.55	44	43228	3.9250 ppbV #	S	100
15) Vinyl chloride	7.81	62	114737	4.1437 ppbV	S	97
16) 1-Butene/Isobutene	8.25	41	152722	4.3055 ppbV	S	74
17) 1,3-Butadiene	8.37	39	106400	4.7978 ppbV	S	98
18) n-Butane	8.52	43	185614	4.2278 ppbV	S	92
19) Methanol	8.33	31	24709m	4.4209 ppbV	S	
20) trans-2-Butene	8.90	41	141266	4.3011 ppbV	S	89
23) Bromomethane	9.06	94	106298	4.1686 ppbV	S	91
24) cis-2-Butene	9.37	41	151032	4.6415 ppbV	S	90
25) Chloroethane	9.65	64	61425	4.1960 ppbV	S	91
26) Vinyl bromide	10.43	106	124264	4.9068 ppbV	S	88
27) 3-Methyl-1-butene	10.46	55	312484	4.9005 ppbV	S	80
28) Ethanol	10.49	45	44081	4.9075 ppbV	S	93
29) Acetonitrile	10.64	41	106743	5.1297 ppbV	S	95
30) Acrolein	10.86	56	51489	5.4873 ppbV #	S	53
31) Isopentane	11.09	41	153598	4.6750 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	445654	4.9709 ppbV #	S	71
33) 1-Pentene	11.67	42	173980	4.9601 ppbV #	S	1
34) Acetone	11.16	43	287046m	5.6365 ppbV	S	
36) Acrylonitrile	12.09	52	95925	5.6412 ppbV #	S	1
37) n-Pentane	12.10	43	231947	4.9599 ppbV	S	85
39) Isoprene	12.27	67	148810	4.6995 ppbV	S	94
40) trans-2-Pentene	12.43	55	268574	5.0559 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	256146	5.0404 ppbV #	S	10
42) cis-2-Pentene	12.72	55	262458	4.9895 ppbV #	S	1
43) Methylene chloride	12.84	49	171611	5.0366 ppbV #	S	1

5.6365 DAH 9-14-11

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083002.D Vial: 1
Acq On : 30 Aug 2011 11:52 am Operator: KRW
Sample : 11H0421-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:48 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	2-Methyl-2-butene	12.91	55	278975	5.1968 ppbV # S	1
45)	Carbon Disulfide	12.95	76	396263	5.0819 ppbV S	95
46)	3-Chloropropene	13.01	41	165753	5.3021 ppbV # S	1
47)	Halocarbon 113	13.32	151	171908	4.8610 ppbV # S	100
48)	Neohexane	13.47	43	192862	5.0197 ppbV # S	1
49)	Cyclopentene	14.18	67	280209	4.7656 ppbV # S	1
50)	trans-1,2-Dichloroethene	14.34	61	216170	5.0376 ppbV # S	1
51)	4-Methyl-1-pentene	14.38	43	195386	4.9050 ppbV S	82
53)	1,1-Dichloroethane	14.63	63	253628	4.2415 ppbV # S	100
54)	Cyclopentane	14.62	42	208164	4.0678 ppbV S	80
55)	2,3-Dimethylbutane	14.73	43	270838	3.9756 ppbV # S	64
56)	Methyl tert-butyl ether	14.82	73	338998	4.0393 ppbV # S	1
57)	Isohexane	14.94	42	142912	4.1140 ppbV # S	45
58)	Vinyl acetate	15.05	43	422211	5.2085 ppbV # S	48
62)	2-Butanone	15.34	43	297661	4.8144 ppbV # S	1
63)	Chloroprene	15.51	53	264646	4.5608 ppbV S	74
64)	3-Methylpentane	15.53	57	236891	4.1251 ppbV S	94
66)	2-Methyl-1-pentene	15.77	56	220034m	4.2491 ppbV S	
67)	1-Hexene	15.81	41	154632	4.6763 ppbV # S	55
68)	cis-1,2-Dichloroethene	15.94	61	204627	4.4785 ppbV # S	1
69)	Bromochloromethane	16.17	130	85049	4.0982 ppbV # S	1
71)	n-Hexane	16.30	57	203554	4.3282 ppbV # S	1
72)	Chloroform	16.41	83	323466	4.4144 ppbV # S	1
74)	trans-2-Hexene	16.51	55	265189	4.5568 ppbV # S	1
77)	cis-2-Hexene	16.91	55	212814	4.1718 ppbV S	96
78)	Methylcyclopentane	17.43	56	243925	4.1074 ppbV S	86
79)	1,2-Dichloroethane	17.45	62	298812	5.1102 ppbV S	89
80)	2,4-Dimethylpentane	17.62	43	292348	4.3424 ppbV # S	1
81)	1,1,1-Trichloroethane	17.81	97	379460	4.6980 ppbV # S	1
84)	Benzene	18.48	78	304628	4.7786 ppbV S	72
85)	Carbon tetrachloride	18.71	117	377412	5.1695 ppbV # S	1
86)	1-Butanol	18.67	56	51497	2.5824 ppbV S	96
87)	Cyclohexane	18.87	56	206936	4.6693 ppbV # S	1
88)	Isoheptane	19.27	43	311716	4.7872 ppbV # S	30
89)	2,3-Dimethylpentane	19.34	56	254927	4.6320 ppbV # S	62
91)	3-Methylhexane	19.65	43	246249	4.7667 ppbV # S	75
92)	1,2-Dichloropropane	19.75	63	125620	5.0117 ppbV # S	1
93)	Bromodichloromethane	20.08	83	323187	5.1842 ppbV # S	1
94)	Trichloroethene	20.14	130	131519	4.9545 ppbV # S	1
95)	1,4-Dioxane	20.18	88	50382	4.8689 ppbV # S	42
97)	2,2,4-Trimethylpentane	20.22	57	689691	4.5937 ppbV S	90
98)	2-Chloropentane	20.46	70	183856	5.0007 ppbV # S	13
100)	n-Heptane	20.70	71	121344	4.7899 ppbV # S	1
104)	cis-1,3-Dichloropropene	21.54	75	175138	5.4346 ppbV # S	1
105)	Methylisobutylketone	21.64	43	368449	5.9156 ppbV # S	1
106)	Methylcyclohexane	21.61	83	226879	4.6499 ppbV S	88
110)	trans-1,3-Dichloropropene	22.41	75	180323	6.1155 ppbV # S	1
111)	1,1,2-Trichloroethane	22.65	97	104933	5.3815 ppbV # S	1
112)	2,3,4-Trimethylpentane	22.87	43	419907	4.8734 ppbV S	92
114)	Toluene	23.08	91	323035	5.6078 ppbV # S	1
117)	2-Methylheptane	23.53	43	319638	5.1817 ppbV # S	13

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083002.D Vial: 1
Acq On : 30 Aug 2011 11:52 am Operator: KRW
Sample : 11H0421-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:48 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

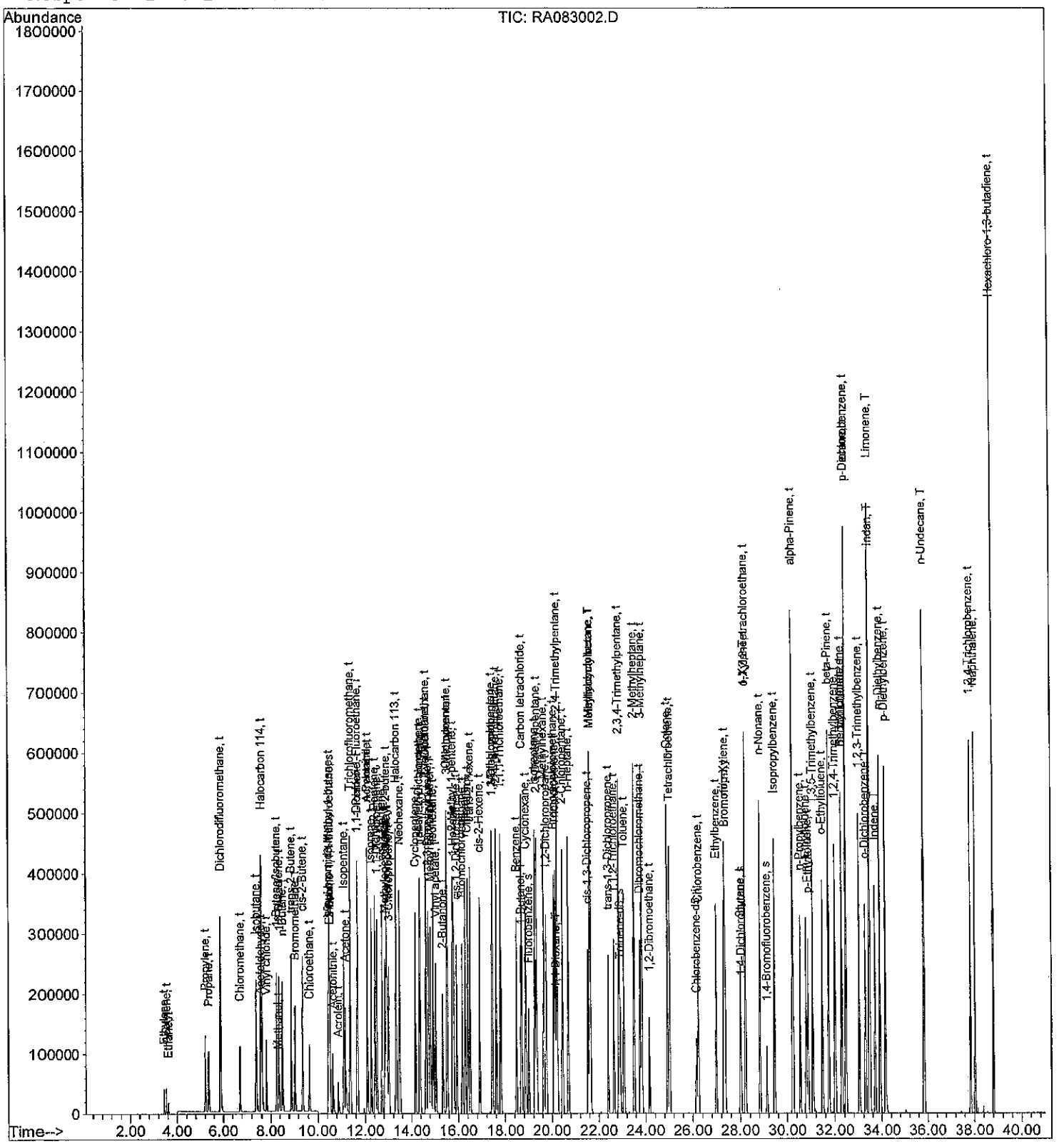
	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
119)	Dibromochloromethane	23.78	129	194379	5.6018	ppbV	# S	39
120)	3-Methylheptane	23.85	85	169658	4.7983	ppbV	# S	1
122)	1,2-Dibromoethane	24.17	107	146636	5.6589	ppbV	# S	1
125)	n-Octane	24.91	43	316197	5.5030	ppbV	# S	49
126)	Tetrachloroethene	25.02	164	118036	5.5347	ppbV	S	96
128)	Chlorobenzene	26.23	112	168247	5.5802	ppbV	# S	1
129)	Ethylbenzene	26.98	91	344728	5.9259	ppbV	S	96
130)	m/p-Xylene	27.35	91	598315m	11.8508	ppbV	S	
131)	Bromoform	27.37	173	122543	5.8192	ppbV	# S	1
134)	Styrene	28.02	104	141758	5.9413	ppbV	# S	23
135)	1,1,2,2-Tetrachloroethane	28.22	83	186144	5.0555	ppbV	S	93
136)	o-Xylene	28.22	91	311243	5.9967	ppbV	S	86
140)	n-Nonane	28.84	43	285415	5.8653	ppbV	# S	71
142)	Isopropylbenzene	29.45	105	434922	5.4200	ppbV	S	100
144)	alpha-Pinene	30.24	93	473996	5.2057	ppbV	S	94
147)	n-Propylbenzene	30.56	91	385015	5.0987	ppbV	# S	35
148)	m-Ethyltoluene	30.81	105	295253	4.7925	ppbV	S	89
149)	p-Ethyltoluene	30.90	105	271048	4.8534	ppbV	S	87
150)	1,3,5-Trimethylbenzene	31.09	105	374870	5.7649	ppbV	S	85
151)	o-Ethyltoluene	31.49	105	364891	5.0599	ppbV	S	87
152)	beta-Pinene	31.76	93	345445	3.7874	ppbV	# S	1
153)	1,2,4-Trimethylbenzene	32.02	105	389653	6.6333	ppbV	# S	1
156)	Benzyl chloride	32.30	91	287372	8.4167	ppbV	S	98
157)	m-Dichlorobenzene	32.30	146	148895	6.1280	ppbV	S	84
158)	n-Decane	32.47	57	377844	6.4300	ppbV	S	73
159)	p-Dichlorobenzene	32.47	146	158846	6.8158	ppbV	S	83
161)	1,2,3-Trimethylbenzene	33.03	105	450105	6.5472	ppbV	S	85
163)	o-Dichlorobenzene	33.29	146	187336	7.0112	ppbV	S	94
164)	Limonene	33.47	68	270895	7.5338	ppbV	S	84
165)	Indan	33.49	117	324146	8.2033	ppbV	S	91
166)	Indene	33.71	115	285158	8.2608	ppbV	S	93
167)	m-Diethylbenzene	33.92	105	338471	5.9528	ppbV	# S	28
168)	p-Diethylbenzene	34.15	119	278852	5.9467	ppbV	# S	1
171)	n-Undecane	35.84	57	474376	5.8363	ppbV	S	74
172)	1,2,4-Trichlorobenzene	37.84	180	192126	6.6631	ppbV	# S	100
173)	Naphthalene	38.03	128	511113	5.6982	ppbV	S	96
174)	Hexachloro-1,3-butadiene	38.81	225	296968	6.8783	ppbV	S	96

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083002.D Vial: 1
Acq On : 30 Aug 2011 11:52 am Operator: KRW
Sample : 11H0421-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:48 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083003.D Vial: 1
Acq On : 30 Aug 2011 12:53 pm Operator: KRW
Sample : 11H0421-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:50 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-31-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	200243	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	75438	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	76597	1.8717 ppbV	0.02
Spiked Amount 2.000			Recovery	= 93.50%	
65) Fluorobenzene	19.00	96	163556	1.6795 ppbV	0.01
Spiked Amount 2.000			Recovery	= 84.00%	
113) Toluene-d8	22.92	98	128871	1.9469 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
115) 1,4-Dichlorobutane	28.05	90	11321	2.1194 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	
141) 1,4-Bromofluorobenzene	29.13	95	54036	2.1789 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.00%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	29842	4.6982 ppbV	S	94
4) Acetylene	3.54	26	45170	3.8097 ppbV	S	90
5) Ethane	3.63	26	11874	3.3450 ppbV	S	98
7) Propylene	5.21	41	80595	4.4976 ppbV	S	96
8) Chlorodifluoromethane	5.57	51	269769	5.1123 ppbV	S	96
9) Propane	5.37	43	35251	4.2828 ppbV	S	89
10) Dichlorodifluoromethane	5.87	85	481491	4.7097 ppbV	S	98
11) Chloromethane	6.73	50	115388	4.5970 ppbV	S	97
12) Isobutane	7.37	43	221853	4.2693 ppbV	S	92
13) Halocarbon 114	7.59	85	358565	3.9498 ppbV	S	91
15) Vinyl chloride	7.81	62	127384	4.4587 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	156137	4.2662 ppbV	S	75
17) 1,3-Butadiene	8.36	39	112461	4.9148 ppbV	S	98
18) n-Butane	8.52	43	190636	4.2084 ppbV	S	93
19) Methanol	8.33	31	23196m	4.0223 ppbV	S	
20) trans-2-Butene	8.90	41	143948	4.2477 ppbV	S	89
23) Bromomethane	9.06	94	116812	4.4397 ppbV	S	93
24) cis-2-Butene	9.37	41	154123	4.5905 ppbV	S	90
25) Chloroethane	9.64	64	66063	4.3738 ppbV	S	91
26) Vinyl bromide	10.43	106	115649	4.4259 ppbV	S	84
27) 3-Methyl-1-butene	10.46	55	318240	4.8369 ppbV	S	79
29) Acetonitrile	10.64	41	96976m	4.5167 ppbV	S	
30) Acrolein	10.87	56	45289	4.6778 ppbV #	S	47
31) Isopentane	11.09	41	153958	4.5416 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	460388	4.9770 ppbV #	S	71
33) 1-Pentene	11.67	42	179812	4.9684 ppbV #	S	1
34) Acetone	11.16	43	271235m	5.1619 ppbV	S	
35) 2-Propanol	11.92	45	237862	5.9967 ppbV #	S	1
36) Acrylonitrile	12.08	52	87521	4.9884 ppbV #	S	1
37) n-Pentane	12.10	43	237015	4.9121 ppbV	S	86
38) Diethyl ether	12.28	74	62778	5.2467 ppbV #	S	1
39) Isoprene	12.27	67	157569	4.8228 ppbV	S	93
40) trans-2-Pentene	12.43	55	265204	4.8386 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	270047	5.1501 ppbV #	S	10
42) cis-2-Pentene	12.72	55	264328	4.8701 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083003.D Vial: 1
Acq On : 30 Aug 2011 12:53 pm Operator: KRW
Sample : 11H0421-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:50 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
43)	Methylene chloride	12.85	49	178005	5.0632	ppbV	#	S	1
44)	2-Methyl-2-butene	12.90	55	278837	5.0342	ppbV	#	S	1
45)	Carbon Disulfide	12.95	76	323580	4.0219	ppbV		S	96
46)	3-Chloropropene	13.01	41	152853	4.7387	ppbV	#	S	1
47)	Halocarbon 113	13.31	151	183822	5.0377	ppbV	#	S	100
50)	trans-1,2-Dichloroethene	14.34	61	214660	4.8483	ppbV	#	S	1
51)	4-Methyl-1-pentene	14.38	43	194380	4.7294	ppbV		S	81
53)	1,1-Dichloroethane	14.63	63	257928	4.1805	ppbV	#	S	100
56)	Methyl tert-butyl ether	14.81	73	380233	4.3911	ppbV	#	S	1
58)	Vinyl acetate	15.05	43	355171	4.2464	ppbV	#	S	47
62)	2-Butanone	15.34	43	282480	4.4280	ppbV	#	S	1
63)	Chloroprene	15.51	53	263918	4.4081	ppbV		S	74
68)	cis-1,2-Dichloroethene	15.94	61	212685	4.5114	ppbV	#	S	1
71)	n-Hexane	16.30	57	195402	4.0268	ppbV	#	S	1
72)	Chloroform	16.41	83	329512	4.3583	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	261497	4.3548	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	216332	4.1101	ppbV		S	94
79)	1,2-Dichloroethane	17.45	62	295173	4.8924	ppbV		S	89
81)	1,1,1-Trichloroethane	17.80	97	382804	4.5933	ppbV	#	S	1
84)	Benzene	18.48	78	306085	4.8627	ppbV		S	70
85)	Carbon tetrachloride	18.70	117	337100	4.6763	ppbV	#	S	1
86)	1-Butanol	18.67	56	79067	4.0155	ppbV		S	95
87)	Cyclohexane	18.87	56	201674	4.6086	ppbV	#	S	1
92)	1,2-Dichloropropane	19.75	63	124116	5.0150	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	338449	5.4983	ppbV	#	S	1
94)	Trichloroethene	20.14	130	127195	4.8528	ppbV	#	S	1
95)	1,4-Dioxane	20.18	88	37865	3.7060	ppbV	#	S	23
97)	2,2,4-Trimethylpentane	20.22	57	672378	4.5356	ppbV		S	90
98)	2-Chloropentane	20.45	70	160310	4.4160	ppbV	#	S	13
100)	n-Heptane	20.70	71	115891	4.6330	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	175850	5.5264	ppbV	#	S	1
105)	Methylisobutylketone	21.64	43	311458	5.0644	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.41	75	155747	5.3495	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	102973	5.3484	ppbV	#	S	1
114)	Toluene	23.09	91	312179	5.4885	ppbV	#	S	1
116)	2-Hexanone	23.63	43	231260	5.7395	ppbV	#	S	23
119)	Dibromochloromethane	23.77	129	194698	5.6826	ppbV	#	S	38
122)	1,2-Dibromoethane	24.17	107	135399	5.2920	ppbV	#	S	1
125)	n-Octane	24.91	43	302747	5.3362	ppbV	#	S	49
126)	Tetrachloroethene	25.02	164	115067	5.4644	ppbV		S	97
128)	Chlorobenzene	26.23	112	165042	5.5437	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	340393	5.9261	ppbV		S	97
130)	m/p-Xylene	27.35	91	592965m	11.8947	ppbV		S	
131)	Bromoform	27.38	173	118152	5.6823	ppbV	#	S	1
134)	Styrene	28.02	104	141403	6.0021	ppbV	#	S	22
135)	1,1,2,2-Tetrachloroethane	28.23	83	175257	4.8206	ppbV		S	94
136)	o-Xylene	28.23	91	312983	6.1072	ppbV		S	89
140)	n-Nonane	28.84	43	285024	5.9320	ppbV	#	S	71
142)	Isopropylbenzene	29.45	105	441354	5.5704	ppbV		S	100
145)	o/m-Chlorotoluene	30.41	91	231967	6.5700	ppbV	#	S	1
147)	n-Propylbenzene	30.56	91	376559	5.0503	ppbV	#	S	34

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083003.D Vial: 1
Acq On : 30 Aug 2011 12:53 pm Operator: KRW
Sample : 11H0421-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:50 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
149)	p-Ethyltoluene	30.90	105	291011	5.2774	ppbV		S	88
150)	1,3,5-Trimethylbenzene	31.09	105	323942	5.0453	ppbV		S	85
153)	1,2,4-Trimethylbenzene	32.02	105	310472	5.3528	ppbV	#	S	1
154)	tert-Butylbenzene	32.00	119	468470	6.2467	ppbV	#	S	58
156)	Benzyl chloride	32.30	91	295221	8.7569	ppbV		S	98
157)	m-Dichlorobenzene	32.30	146	108085	4.5052	ppbV		S	83
158)	n-Decane	32.47	57	323601	5.5772	ppbV		S	72
159)	p-Dichlorobenzene	32.48	146	116321	5.0549	ppbV		S	83
162)	p-Isopropyltoluene	33.11	119	550469	8.1268	ppbV	#	S	43
163)	o-Dichlorobenzene	33.29	146	156189	5.9201	ppbV		S	94
169)	n-Butylbenzene	34.19	91	539241	8.2475	ppbV	#	S	1
171)	n-Undecane	35.84	57	429975	5.3576	ppbV		S	71
172)	1,2,4-Trichlorobenzene	37.85	180	183677	6.4514	ppbV	#	S	100
173)	Naphthalene	38.04	128	421523	4.7594	ppbV		S	96
174)	Hexachloro-1,3-butadiene	38.81	225	298462	7.0011	ppbV		S	96

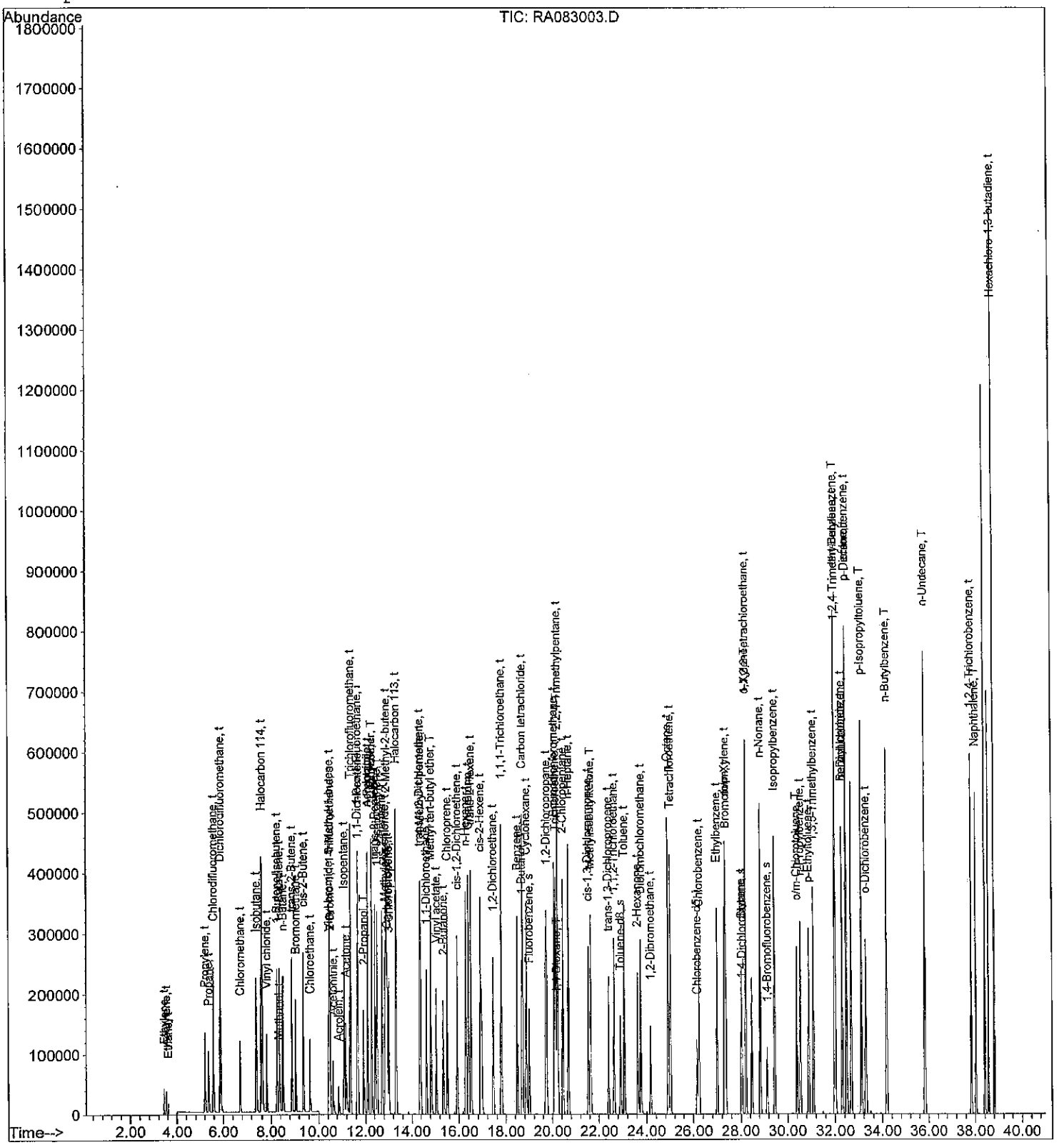
(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083003.D Vial: 1
Acq On : 30 Aug 2011 12:53 pm Operator: KRW
Sample : 11H0421-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:50 19111 Quant Results File: RA110824.RES

171/179

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083004.D Vial: 1
Acq On : 30 Aug 2011 1:54 pm Operator: KRW
Sample : 11H0421-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:52 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-31-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	198651	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	74536	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	75993	1.8718 ppbV	0.02
Spiked Amount 2.000			Recovery	= 93.50%	
65) Fluorobenzene	19.00	96	162239	1.6793 ppbV	0.01
Spiked Amount 2.000			Recovery	= 84.00%	
113) Toluene-d8	22.92	98	129529	1.9805 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
115) 1,4-Dichlorobutane	28.05	90	11689	2.2148 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.50%	
141) 1,4-Bromofluorobenzene	29.13	95	53742	2.1933 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.50%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	28664	4.5489 ppbV	S	96
4) Acetylene	3.54	26	43220	3.6744 ppbV	S	91
5) Ethane	3.63	26	11438	3.2480 ppbV	S	98
7) Propylene	5.21	41	77376	4.3525 ppbV	S	96
8) Chlorodifluoromethane	5.57	51	262972	5.0234 ppbV	S	96
9) Propane	5.36	43	33313	4.0798 ppbV	S	88
10) Dichlorodifluoromethane	5.87	85	467600	4.6105 ppbV	S	98
11) Chloromethane	6.73	50	111477	4.4767 ppbV	S	97
12) Isobutane	7.38	43	213208	4.1358 ppbV	S	92
13) Halocarbon 114	7.59	85	347560	3.8593 ppbV	S	90
15) Vinyl chloride	7.81	62	121165	4.2750 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	150283	4.1391 ppbV	S	74
17) 1,3-Butadiene	8.37	39	109196	4.8104 ppbV	S	96
18) n-Butane	8.52	43	183352	4.0800 ppbV	S	93
19) Methanol	8.33	31	22606m	3.9514 ppbV	S	
20) trans-2-Butene	8.90	41	140180	4.1697 ppbV	S	90
23) Bromomethane	9.06	94	112920	4.3262 ppbV	S	91
24) cis-2-Butene	9.37	41	150467	4.5176 ppbV	S	92
25) Chloroethane	9.64	64	63773	4.2560 ppbV	S	92
26) Vinyl bromide	10.43	106	112785	4.3509 ppbV	S	87
27) 3-Methyl-1-butene	10.46	55	311692	4.7754 ppbV	S	79
29) Acetonitrile	10.64	41	93713m	4.3997 ppbV	S	
30) Acrolein	10.87	56	43519	4.5310 ppbV #	S	51
31) Isopentane	11.09	41	152085	4.5223 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	459729	5.0097 ppbV #	S	70
33) 1-Pentene	11.67	42	178817	4.9805 ppbV #	S	1
34) Acetone	11.16	43	266578m	5.1139 ppbV	S	
35) 2-Propanol	11.92	45	234489m	5.9590 ppbV	S	
36) Acrylonitrile	12.09	52	86238	4.9546 ppbV #	S	1
37) n-Pentane	12.10	43	234537	4.8997 ppbV	S	86
38) Diethyl ether	12.28	74	62259	5.2450 ppbV #	S	1
39) Isoprene	12.27	67	155959	4.8117 ppbV	S	94
40) trans-2-Pentene	12.43	55	263483	4.8458 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	269778	5.1862 ppbV #	S	10
42) cis-2-Pentene	12.72	55	263333	4.8907 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083004.D Vial: 1
Acq On : 30 Aug 2011 1:54 pm Operator: KRW
Sample : 11H0421-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:52 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Methylene chloride	12.85	49	177349	5.0850 ppbV # S	1
44)	2-Methyl-2-butene	12.90	55	276996	5.0410 ppbV # S	1
45)	Carbon Disulfide	12.95	76	320333	4.0135 ppbV S	95
46)	3-Chloropropene	13.01	41	150996	4.7187 ppbV # S	1
47)	Halocarbon 113	13.32	151	183583	5.0715 ppbV # S	100
50)	trans-1,2-Dichloroethene	14.34	61	216250	4.9233 ppbV # S	1
51)	4-Methyl-1-pentene	14.38	43	191563	4.6982 ppbV S	81
53)	1,1-Dichloroethane	14.63	63	254233	4.1536 ppbV # S	100
56)	Methyl tert-butyl ether	14.81	73	375300	4.3688 ppbV # S	1
58)	Vinyl acetate	15.05	43	351893	4.2410 ppbV # S	48
62)	2-Butanone	15.34	43	275426	4.3521 ppbV # S	1
63)	Chloroprene	15.51	53	262402	4.4179 ppbV S	75
68)	cis-1,2-Dichloroethene	15.94	61	210067	4.4916 ppbV # S	1
71)	n-Hexane	16.30	57	193585	4.0213 ppbV # S	1
72)	Chloroform	16.41	83	327636	4.3682 ppbV # S	1
74)	trans-2-Hexene	16.51	55	258205	4.3345 ppbV # S	1
77)	cis-2-Hexene	16.91	55	213727	4.0932 ppbV S	96
79)	1,2-Dichloroethane	17.45	62	293076	4.8966 ppbV S	89
81)	1,1,1-Trichloroethane	17.80	97	383435	4.6378 ppbV # S	1
84)	Benzene	18.48	78	302340	4.8614 ppbV S	70
85)	Carbon tetrachloride	18.70	117	337267	4.7352 ppbV # S	1
86)	1-Butanol	18.68	56	82992	4.2658 ppbV S	94
87)	Cyclohexane	18.87	56	198052	4.5806 ppbV # S	1
92)	1,2-Dichloropropane	19.75	63	124108	5.0753 ppbV # S	1
93)	Bromodichloromethane	20.08	83	335683	5.5194 ppbV # S	1
94)	Trichloroethene	20.14	130	125513	4.8465 ppbV # S	1
95)	1,4-Dioxane	20.18	88	36568	3.6224 ppbV # S	13
97)	2,2,4-Trimethylpentane	20.22	57	664096	4.5339 ppbV S	89
98)	2-Chloropentane	20.45	70	158746	4.4258 ppbV # S	14
100)	n-Heptane	20.70	71	116715	4.7225 ppbV # S	1
104)	cis-1,3-Dichloropropene	21.54	75	174393	5.5469 ppbV # S	1
105)	Methylisobutylketone	21.64	43	308940	5.0843 ppbV # S	1
110)	trans-1,3-Dichloropropene	22.41	75	151020	5.2499 ppbV # S	1
111)	1,1,2-Trichloroethane	22.65	97	100956	5.3071 ppbV # S	1
114)	Toluene	23.09	91	312061	5.5529 ppbV # S	1
116)	2-Hexanone	23.63	43	228128	5.7303 ppbV # S	24
119)	Dibromochloromethane	23.77	129	194191	5.7364 ppbV # S	37
122)	1,2-Dibromoethane	24.17	107	132106	5.2258 ppbV # S	1
125)	n-Octane	24.91	43	301437	5.3774 ppbV # S	49
126)	Tetrachloroethene	25.02	164	112913	5.4270 ppbV S	94
128)	Chlorobenzene	26.23	112	163806	5.5688 ppbV # S	1
129)	Ethylbenzene	26.98	91	343006	6.0439 ppbV S	98
130)	m/p-Xylene	27.35	91	592826m	12.0359 ppbV S	
131)	Bromoform	27.38	173	119327	5.8082 ppbV # S	1
134)	Styrene	28.02	104	140034	6.0159 ppbV # S	22
135)	1,1,2,2-Tetrachloroethane	28.23	83	175229	4.8781 ppbV S	93
136)	o-Xylene	28.23	91	312282	6.1673 ppbV S	89
140)	n-Nonane	28.84	43	283560	5.9730 ppbV # S	71
142)	Isopropylbenzene	29.45	105	439298	5.6115 ppbV S	100
145)	o/m-Chlorotoluene	30.41	91	233492	6.6932 ppbV # S	1
147)	n-Propylbenzene	30.55	91	377820	5.1286 ppbV # S	35

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083004.D Vial: 1
Acq On : 30 Aug 2011 1:54 pm Operator: KRW
Sample : 11H0421-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:52 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

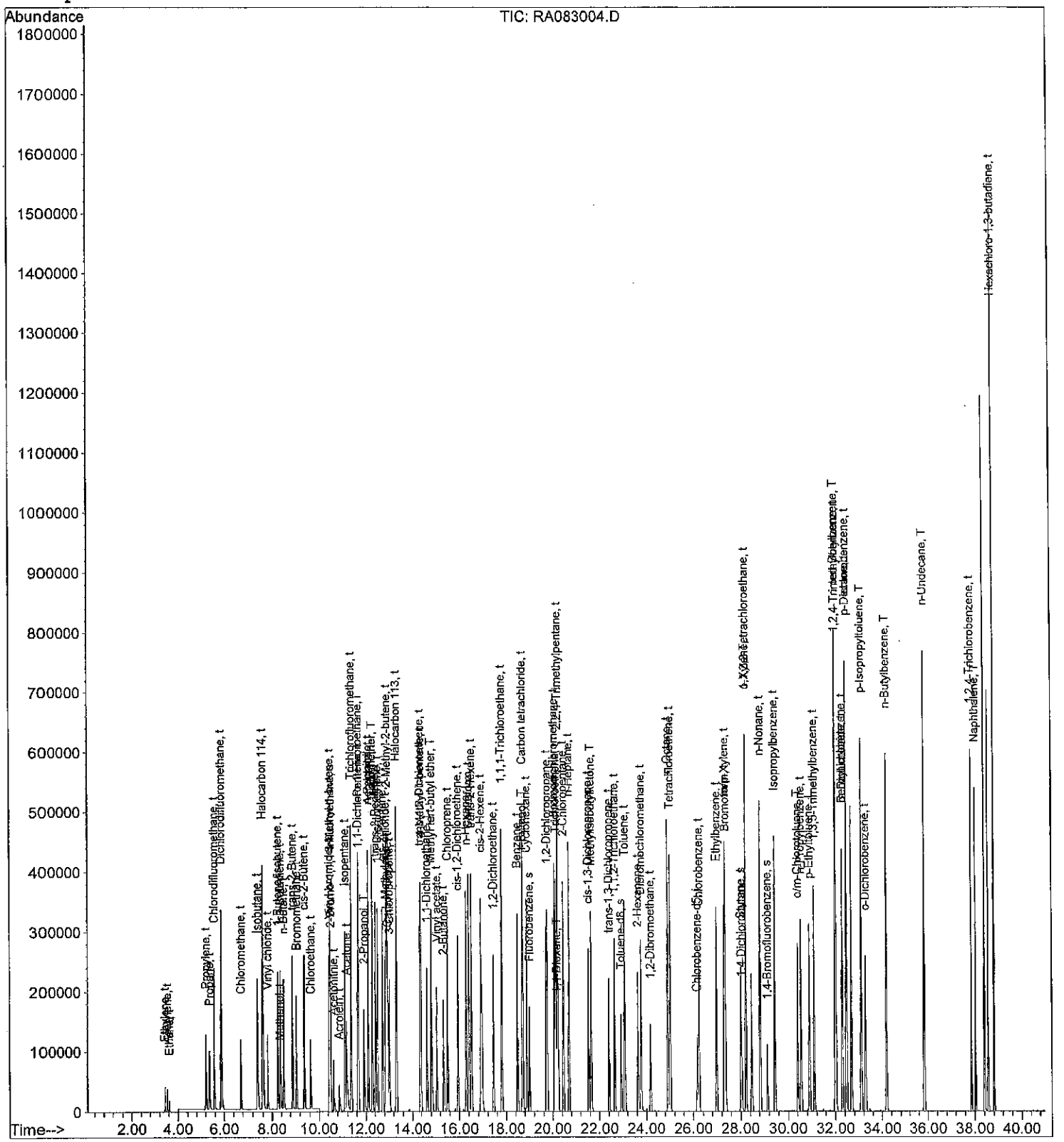
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
149)	p-Ethyltoluene	30.90	105	294010	5.3963	ppbV		S	87
150)	1,3,5-Trimethylbenzene	31.09	105	322245	5.0796	ppbV		S	85
153)	1,2,4-Trimethylbenzene	32.02	105	290124	5.0625	ppbV	#	S	1
154)	tert-Butylbenzene	32.00	119	459980	6.2077	ppbV	#	S	58
156)	Benzyl chloride	32.30	91	264123	7.9293	ppbV		S	98
157)	m-Dichlorobenzene	32.30	146	104620	4.4135	ppbV		S	83
158)	n-Decane	32.47	57	301253	5.2549	ppbV		S	74
159)	p-Dichlorobenzene	32.48	146	105841	4.6551	ppbV		S	83
162)	p-Isopropyltoluene	33.11	119	517576	7.7336	ppbV	#	S	43
163)	o-Dichlorobenzene	33.29	146	135946	5.2152	ppbV		S	94
169)	n-Butylbenzene	34.19	91	530031	8.2048	ppbV	#	S	1
171)	n-Undecane	35.84	57	427049	5.3855	ppbV		S	71
172)	1,2,4-Trichlorobenzene	37.85	180	183855	6.5358	ppbV	#	S	100
173)	Naphthalene	38.04	128	418412	4.7814	ppbV		S	96
174)	Hexachloro-1,3-butadiene	38.81	225	299173	7.1027	ppbV		S	95

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083004.D Vial: 1
Acq On : 30 Aug 2011 1:54 pm Operator: KRW
Sample : 11H0421-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:52 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083005.D Vial: 1
Acq On : 30 Aug 2011 2:54 pm Operator: KRW
Sample : 11H0421-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 18:44 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-31-11

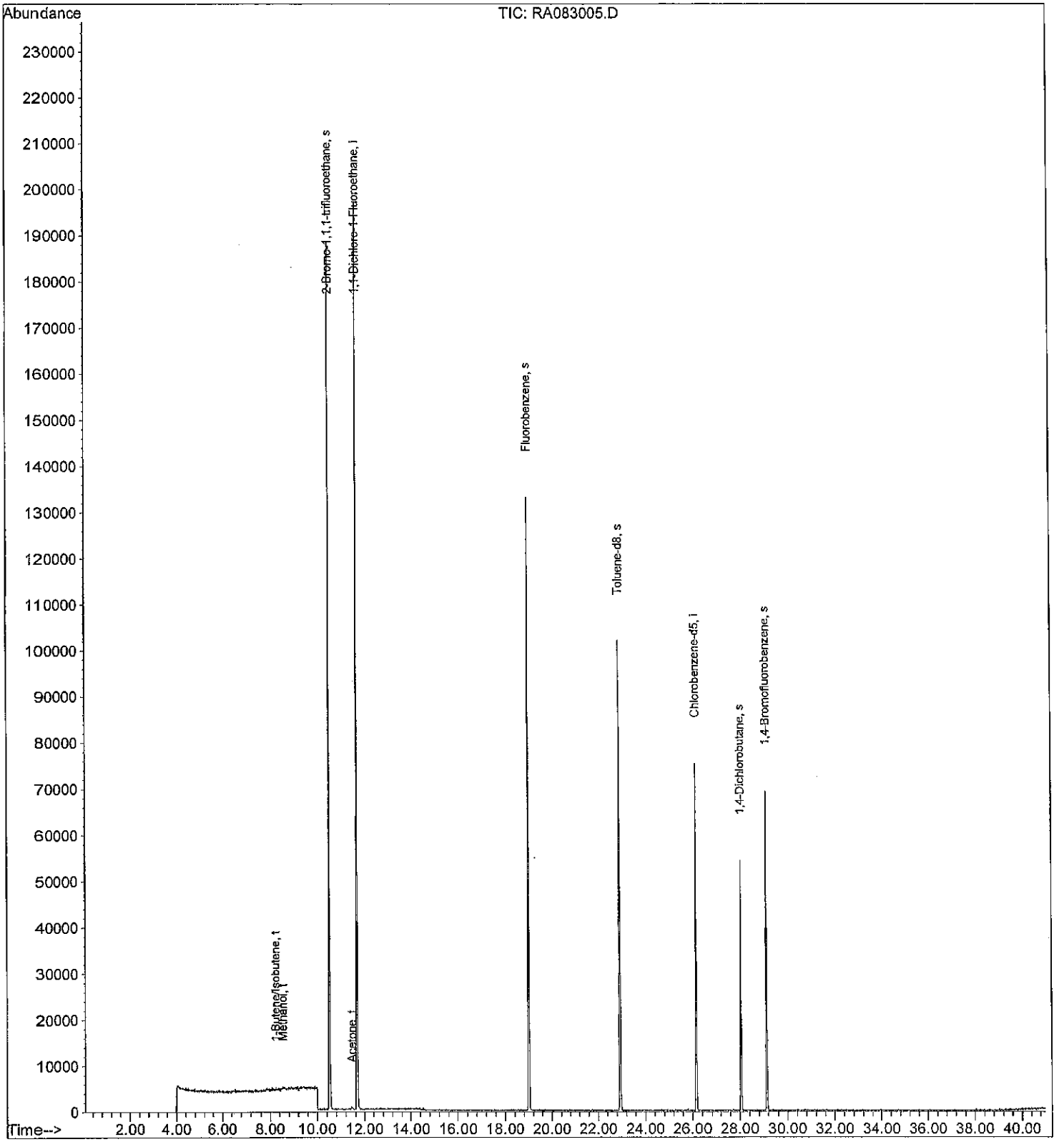
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	196572	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	45309	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	72247	1.7984 ppbV	0.03
Spiked Amount 2.000			Recovery	= 90.00%	
65) Fluorobenzene	19.01	96	118176	1.2362 ppbV	0.02
Spiked Amount 2.000			Recovery	= 62.00%	
113) Toluene-d8	22.92	98	78573	1.9764 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
115) 1,4-Dichlorobutane	28.05	90	6467	2.0157 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	
141) 1,4-Bromofluorobenzene	29.14	95	31758	2.1321 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	
Target Compounds					Qvalue
16) 1-Butene/Isobutene	8.24	41	172	0.0048 ppbV #	36
19) Methanol	8.54	31	92m	0.0163 ppbV	
34) Acetone	11.46	43	1097m	0.0213 ppbV	

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083005.D Vial: 1
Acq On : 30 Aug 2011 2:54 pm Operator: KRW
Sample : 11H0421-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 18:44 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083007.D Vial: 1
Acq On : 30 Aug 2011 4:51 pm Operator: KRW
Sample : AUH0043-02RE1,,,,;TCESL Inst : GCMS-R1
Misc : 3.1761,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:58 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Rerun for TCE

8.31.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.67	81	178596	2.0000 ppbV	0.04
82) Chlorobenzene-d5	26.16	117	37246	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.52	83	58253	1.5960 ppbV	0.03
Spiked Amount 2.000			Recovery	= 80.00%	
65) Fluorobenzene	19.01	96	89402	1.0293 ppbV	0.02
Spiked Amount 2.000			Recovery	= 51.50%	
113) Toluene-d8	22.93	98	62129	1.9011 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.00%	
115) 1,4-Dichlorobutane	28.05	90	5011	1.9000 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.00%	
141) 1,4-Bromofluorobenzene	29.14	95	25519	2.0842 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	

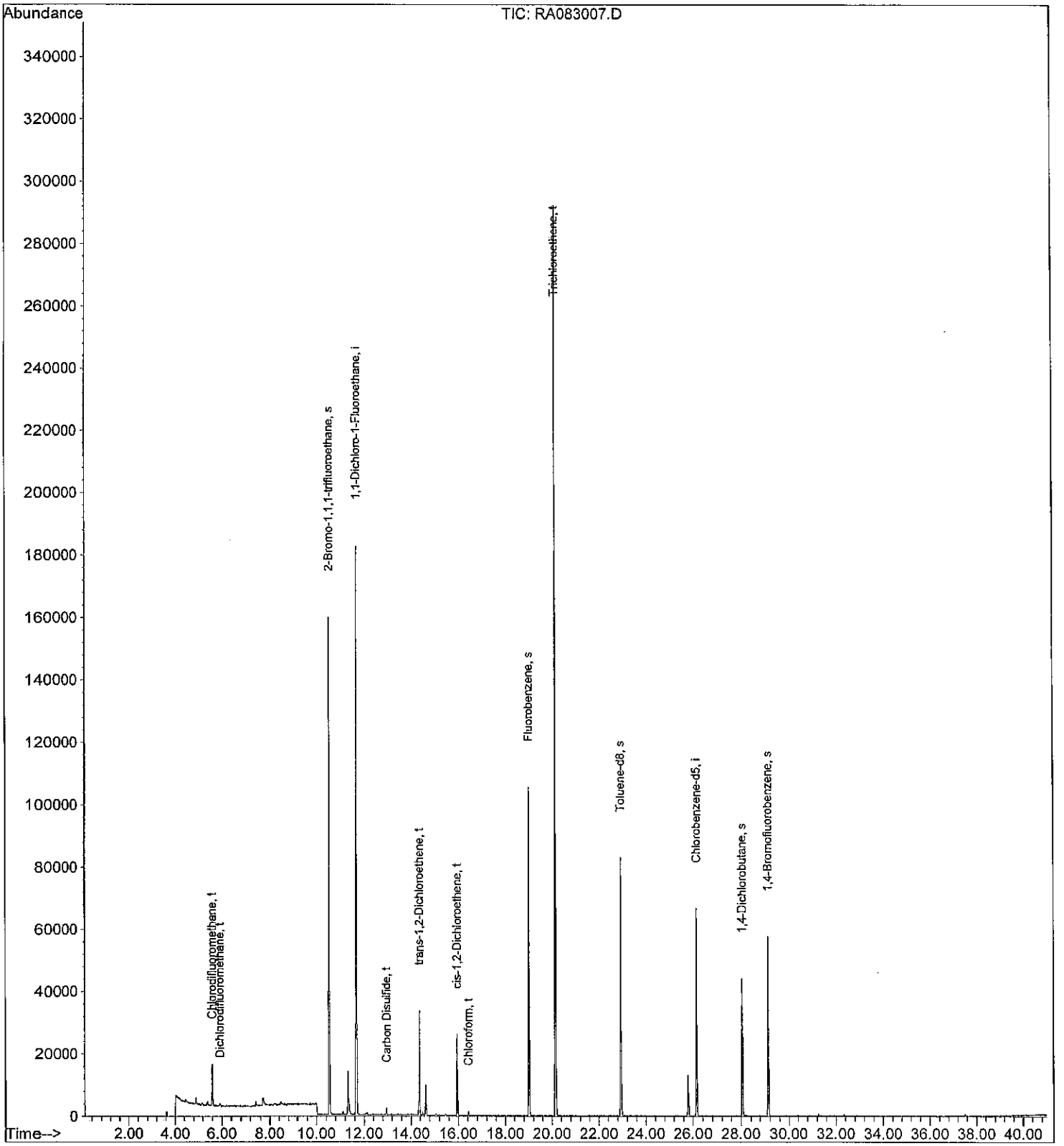
Target Compounds					Qvalue
8) Chlorodifluoromethane	5.59	51	14686	0.3120 ppbV S	92
10) Dichlorodifluoromethane	5.90	85	1517	0.0166 ppbV S	73
45) Carbon Disulfide	12.96	76	3125	0.0435 ppbV S	99
50) trans-1,2-Dichloroethene	14.36	61	22977	0.5819 ppbV # S	1
68) cis-1,2-Dichloroethene	15.95	61	17230	0.4098 ppbV # S	1
72) Chloroform	16.42	83	1186	0.0176 ppbV # S	1
94) Trichloroethene	20.14	130	83596	6.4597 ppbV # S	1

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083007.D Vial: 1
Acq On : 30 Aug 2011 4:51 pm Operator: KRW
Sample : AUH0043-02RE1,,,,;TCESL Inst : GCMS-R1
Misc : 3.1761,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:58 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



♦ **Data Package Contents** **AUH0046**

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)

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Analytical Report

Work Order: AUH0046

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

Wednesday, August 31, 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:	AUH0046 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 21:14

August 31, 2011

LABORATORY REPORT

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

Work Order:	AUH0046
Project Name:	Bannister Complex
Project Number:	[none]
Date Received:	08/03/11

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, 5 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.

Approved By:

Dane Wacasey
Project Manager

NELAP Certification # T104704217-10-6

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 21:14

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION	MATRIX	CONTAINER TYPE
AMBIENT NORTH VOCS	AUH0046-01	07/30/11 19:54	Air	Passivated Canister
B1SB-R2-VOCS	AUH0046-02	07/30/11 20:00	Air	Passivated Canister
B1SB-Y18-VOCS	AUH0046-03	07/30/11 19:44	Air	Passivated Canister
B1SB-R16-EXT-VOCS	AUH0046-04	07/30/11 18:22	Air	Passivated Canister
B1SB-R16-VOCS	AUH0046-05	07/30/11 18:14	Air	Passivated Canister
B1SB-R10-VOCS	AUH0046-06	07/30/11 18:18	Air	Passivated Canister
DUP-VOCS	AUH0046-07	07/30/11 19:32	Air	Passivated Canister
TRIP BLANK	AUH0046-08	07/29/11 00:00	Air	Passivated Canister
B1-W8-WH VOCS	AUH0046-09	08/02/11 11:01	Air	Passivated Canister

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ANALYTICAL REPORT

Sample ID: AUH0046-01 (AMBIENT NORTH VOCS - Air) **Sampled: 07/30/11 19:54**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**4.56**		ug/m³ Air	0.339	3.88	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**2.74**	J	ug/m³ Air	0.635	5.42	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Chloromethane	**1.71**	J	ug/m³ Air	0.163	2.26	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.82	7.67	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.406	2.80	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.230	2.43	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Butane	**0.610**	J	ug/m³ Air	0.239	2.61	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.675	4.26	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.359	2.89	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Acetonitrile	**0.370**	J	ug/m³ Air	0.119	1.84	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**1.60**	J	ug/m³ Air	0.437	6.16	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Acetone	**24.0**		ug/m³ Air	0.193	2.61	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.305	2.38	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
n-Pentane	**0.547**	J	ug/m³ Air	0.217	3.24	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.264	3.32	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.261	4.35	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Methylene chloride	ND		ug/m³ Air	0.349	3.81	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.767	3.42	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.523	3.43	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.11	8.40	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.559	4.35	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.439	4.44	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.433	3.95	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Vinyl acetate	**2.68**	J	ug/m³ Air	0.757	3.86	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**2.52**	J	ug/m³ Air	0.430	3.23	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.393	4.35	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.423	3.87	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.442	5.35	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.308	4.44	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.580	5.98	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Benzene	**0.706**	J	ug/m³ Air	0.366	3.50	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	1.88	6.90	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.468	3.77	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.403	5.07	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.72	7.35	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Trichloroethene	ND		ug/m³ Air	0.398	5.89	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.369	4.49	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.525	4.98	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.854	4.49	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.749	4.98	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392

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ANALYTICAL REPORT

Sample ID: AUH0046-01 (AMBIENT NORTH VOCS - Air) - cont. **Sampled: 07/30/11 19:54**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.604	5.98	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Toluene	**0.612**	J	ug/m³ Air	0.318	4.13	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.15	4.49	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.28	9.34	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.843	8.43	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.525	5.12	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.621	7.44	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.366	5.05	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Ethylbenzene	ND		ug/m³ Air	0.667	4.76	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	ND		ug/m³ Air	1.46	9.52	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.65	11.3	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.544	4.67	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.44	7.53	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	0.733	4.76	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.820	5.75	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.695	5.39	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.09	5.39	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.887	5.39	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.995	5.39	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.832	5.68	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.73	6.59	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	1.09	6.38	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.41	6.59	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.20	6.59	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	0.880	7.01	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.944	8.14	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.21	5.75	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	1.81	11.7	5.48	08/27/11 22:26	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*94 %*						08/27/11 22:26	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*66 %*						08/27/11 22:26	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*96 %*						08/27/11 22:26	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*98 %*						08/27/11 22:26	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*103 %*						08/27/11 22:26	GCMSR1	KRW	11H0392

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ANALYTICAL REPORT

Sample ID: AUH0046-02 (B1SB-R2-VOCS - Air) **Sampled: 07/30/11 20:00**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**34.0**		ug/m³ Air	0.336	3.85	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**2.85**	J	ug/m³ Air	0.629	5.38	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Chloromethane	**1.07**	J	ug/m³ Air	0.162	2.25	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.79	7.60	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.403	2.78	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.229	2.41	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Butane	**2.49**	J	ug/m³ Air	0.237	2.58	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.669	4.22	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.356	2.87	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Acetonitrile	**0.284**	J	ug/m³ Air	0.118	1.83	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**2.21**	J	ug/m³ Air	0.434	6.11	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Acetone	**28.2**		ug/m³ Air	0.191	2.58	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.302	2.36	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
n-Pentane	**1.28**	J	ug/m³ Air	0.215	3.21	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.262	3.30	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.259	4.31	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Methylene chloride	**0.538**	J	ug/m³ Air	0.346	3.78	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.760	3.39	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.519	3.40	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.10	8.33	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.554	4.31	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.436	4.40	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.429	3.92	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Vinyl acetate	**1.21**	J	ug/m³ Air	0.750	3.83	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**2.60**	J	ug/m³ Air	0.427	3.21	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	**0.418**	J	ug/m³ Air	0.390	4.31	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.420	3.83	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.438	5.31	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.306	4.40	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.575	5.93	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Benzene	**0.386**	J	ug/m³ Air	0.363	3.47	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	1.86	6.84	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.464	3.74	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.399	5.02	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.71	7.29	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Trichloroethene	**2.87**	J	ug/m³ Air	0.394	5.84	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.365	4.46	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.521	4.94	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.846	4.45	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.743	4.94	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392

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ANALYTICAL REPORT

Sample ID: AUH0046-02 (B1SB-R2-VOCS - Air) - cont. **Sampled: 07/30/11 20:00**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.599	5.93	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Toluene	**2.81**	J	ug/m³ Air	0.316	4.10	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.14	4.45	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.26	9.26	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.835	8.35	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.521	5.08	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.616	7.37	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.363	5.01	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Ethylbenzene	**3.29**	J	ug/m³ Air	0.661	4.72	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	**12.6**		ug/m³ Air	1.45	9.44	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.64	11.2	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.540	4.63	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.41	7.46	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
o-Xylene	**3.11**	J	ug/m³ Air	0.727	4.72	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.813	5.70	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.690	5.35	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.08	5.35	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.879	5.35	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.986	5.35	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.825	5.63	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.71	6.54	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	1.08	6.33	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.40	6.54	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.18	6.54	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	0.872	6.95	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.936	8.07	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.20	5.70	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	1.80	11.6	5.44	08/28/11 00:24	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*85 %*						08/28/11 00:24	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*64 %*						08/28/11 00:24	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*98 %*						08/28/11 00:24	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*98 %*						08/28/11 00:24	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*110 %*						08/28/11 00:24	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0046 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:14	

ANALYTICAL REPORT

Sample ID: AUH0046-03 (B1SB-Y18-VOCS - Air) **Sampled: 07/30/11 19:44**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**1100**	RA, H2	ug/m³ Air	4.63	52.9	74.8	08/30/11 17:50	GCMSR1	KRW	11H0421
Dichlorodifluoromethane	**3.21**	J	ug/m³ Air	0.619	5.29	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Chloromethane	**1.12**	J	ug/m³ Air	0.159	2.21	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.75	7.47	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Vinyl chloride	**0.600**	J	ug/m³ Air	0.396	2.73	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.225	2.37	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Butane	**8.74**		ug/m³ Air	0.233	2.54	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.658	4.15	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.350	2.82	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Acetonitrile	**0.314**	J	ug/m³ Air	0.116	1.80	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**7.62**		ug/m³ Air	0.427	6.01	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Acetone	**55.7**		ug/m³ Air	0.188	2.54	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.297	2.32	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
n-Pentane	**6.28**		ug/m³ Air	0.211	3.16	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.258	3.24	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.254	4.24	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Methylene chloride	**5.60**		ug/m³ Air	0.340	3.71	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.748	3.33	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.510	3.35	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.08	8.19	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.545	4.24	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.428	4.33	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.422	3.85	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Vinyl acetate	**1.39**	J	ug/m³ Air	0.738	3.76	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**4.62**		ug/m³ Air	0.419	3.15	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	**14.3**		ug/m³ Air	0.384	4.24	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Hexane	**2.56**	J	ug/m³ Air	0.413	3.77	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Chloroform	**1.23**	J	ug/m³ Air	0.431	5.22	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.301	4.33	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.566	5.83	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Benzene	**2.25**	J	ug/m³ Air	0.357	3.42	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	1.83	6.73	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Cyclohexane	**1.77**	J	ug/m³ Air	0.456	3.68	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.393	4.94	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.68	7.16	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Trichloroethene	**8.34**		ug/m³ Air	0.388	5.75	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Heptane	**2.19**	J	ug/m³ Air	0.359	4.38	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.512	4.85	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.832	4.38	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.730	4.85	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392

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ANALYTICAL REPORT

Sample ID: AUH0046-03 (B1SB-Y18-VOCS - Air) - cont. **Sampled: 07/30/11 19:44**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.589	5.83	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Toluene	**16.4**		ug/m³ Air	0.310	4.03	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.12	4.38	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.23	9.11	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.822	8.22	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
n-Octane	**1.15**	J	ug/m³ Air	0.512	5.00	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Tetrachloroethene	**2.86**	J	ug/m³ Air	0.606	7.25	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.357	4.92	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Ethylbenzene	**3.16**	J	ug/m³ Air	0.650	4.64	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	**12.0**		ug/m³ Air	1.43	9.29	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.61	11.1	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Styrene	**1.40**	J	ug/m³ Air	0.531	4.55	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.37	7.34	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
o-Xylene	**4.06**	J	ug/m³ Air	0.715	4.64	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
n-Nonane	**1.06**	J	ug/m³ Air	0.799	5.61	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.678	5.26	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.06	5.26	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.865	5.26	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	**1.88**	J	ug/m³ Air	0.970	5.26	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.811	5.54	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.68	6.43	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
n-Decane	**8.06**		ug/m³ Air	1.06	6.22	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.37	6.43	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.14	6.43	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
n-Undecane	**2.08**	J	ug/m³ Air	0.858	6.84	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.920	7.94	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Naphthalene	**1.40**	J	ug/m³ Air	1.18	5.61	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	1.77	11.4	5.35	08/28/11 02:22	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*84 %*						08/28/11 02:22	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*79 %*	*RA, H2*					08/30/11 17:50	GCMSR1	KRW	11H0421
Surr: Fluorobenzene (39-111%)	*69 %*						08/28/11 02:22	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*49 %*	*RA, H2*					08/30/11 17:50	GCMSR1	KRW	11H0421
Surr: Toluene-d8 (79-118%)	*97 %*						08/28/11 02:22	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*98 %*	*RA, H2*					08/30/11 17:50	GCMSR1	KRW	11H0421
Surr: 1,4-Dichlorobutane (80-130%)	*107 %*						08/28/11 02:22	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*101 %*	*RA, H2*					08/30/11 17:50	GCMSR1	KRW	11H0421
Surr: 4-Bromofluorobenzene (81-131%)	*109 %*						08/28/11 02:22	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*108 %*	*RA, H2*					08/30/11 17:50	GCMSR1	KRW	11H0421

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ANALYTICAL REPORT

Sample ID: AUH0046-04 (B1SB-R16-EXT-VOCS - Air) **Sampled: 07/30/11 18:22**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**167**		ug/m³ Air	0.330	3.78	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**3.30**	J	ug/m³ Air	0.618	5.28	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Chloromethane	**1.08**	J	ug/m³ Air	0.159	2.21	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.74	7.47	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Vinyl chloride	**1.05**	J	ug/m³ Air	0.396	2.73	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.224	2.36	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Butane	**1.38**	J	ug/m³ Air	0.232	2.54	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.657	4.15	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.349	2.82	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Acetonitrile	ND		ug/m³ Air	0.116	1.79	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**1.98**	J	ug/m³ Air	0.426	6.00	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Acetone	**23.9**		ug/m³ Air	0.188	2.54	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.297	2.32	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
n-Pentane	**1.21**	J	ug/m³ Air	0.211	3.15	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.257	3.24	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.254	4.23	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Methylene chloride	**0.408**	J	ug/m³ Air	0.339	3.71	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.747	3.33	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.510	3.34	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.08	8.18	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.544	4.23	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.428	4.32	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.422	3.85	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Vinyl acetate	ND		ug/m³ Air	0.737	3.76	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**2.21**	J	ug/m³ Air	0.419	3.15	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	**6.54**		ug/m³ Air	0.383	4.23	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.412	3.76	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.430	5.21	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.300	4.32	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.565	5.83	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Benzene	**0.394**	J	ug/m³ Air	0.357	3.41	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	1.83	6.72	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.456	3.68	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.392	4.94	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.68	7.16	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Trichloroethene	**4.14**	J	ug/m³ Air	0.387	5.74	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.359	4.38	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.511	4.85	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.831	4.37	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.729	4.85	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392

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ANALYTICAL REPORT

Sample ID: AUH0046-04 (B1SB-R16-EXT-VOCS - Air) - cont. **Sampled: 07/30/11 18:22**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.589	5.83	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Toluene	**2.21**	J	ug/m³ Air	0.310	4.02	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.12	4.37	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.22	9.10	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.821	8.21	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.511	4.99	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.605	7.24	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.356	4.92	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Ethylbenzene	**1.23**	J	ug/m³ Air	0.649	4.64	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	**3.51**	J	ug/m³ Air	1.42	9.27	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.61	11.0	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.530	4.55	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.37	7.33	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
o-Xylene	**1.05**	J	ug/m³ Air	0.714	4.64	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.798	5.60	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.677	5.25	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.06	5.25	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.864	5.25	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.969	5.25	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.810	5.53	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.68	6.42	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	1.06	6.21	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.37	6.42	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.14	6.42	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
n-Undecane	**0.969**	J	ug/m³ Air	0.857	6.83	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.919	7.93	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.18	5.60	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	1.77	11.4	5.34	08/28/11 03:21	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*87 %*						08/28/11 03:21	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*65 %*						08/28/11 03:21	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*99 %*						08/28/11 03:21	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*103 %*						08/28/11 03:21	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*111 %*						08/28/11 03:21	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:14

ANALYTICAL REPORT

Sample ID: AUH0046-05 (B1SB-R16-VOCS - Air) **Sampled: 07/30/11 18:14**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**146**		ug/m³ Air	0.334	3.82	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**3.17**	J	ug/m³ Air	0.625	5.34	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Chloromethane	**1.05**	J	ug/m³ Air	0.161	2.23	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.78	7.55	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Vinyl chloride	**47.2**		ug/m³ Air	0.400	2.76	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.227	2.39	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Butane	**1.66**	J	ug/m³ Air	0.235	2.57	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.665	4.20	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.353	2.85	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Acetonitrile	ND		ug/m³ Air	0.117	1.81	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**1.92**	J	ug/m³ Air	0.431	6.07	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Acetone	**21.7**		ug/m³ Air	0.190	2.57	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.300	2.34	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
n-Pentane	**1.24**	J	ug/m³ Air	0.214	3.19	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.260	3.28	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,1-Dichloroethene	**0.388**	J	ug/m³ Air	0.257	4.28	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Methylene chloride	**0.381**	J	ug/m³ Air	0.343	3.75	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Carbon disulfide	**1.25**	J	ug/m³ Air	0.755	3.36	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.516	3.38	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.09	8.28	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	**1.32**	J	ug/m³ Air	0.550	4.28	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.433	4.37	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.427	3.90	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Vinyl acetate	**0.782**	J	ug/m³ Air	0.746	3.80	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**2.05**	J	ug/m³ Air	0.424	3.19	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	**89.7**		ug/m³ Air	0.388	4.28	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.417	3.81	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.435	5.28	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.304	4.37	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.572	5.89	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Benzene	ND		ug/m³ Air	0.361	3.45	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	1.85	6.80	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.461	3.72	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.397	4.99	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.70	7.24	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Trichloroethene	**4.42**	J	ug/m³ Air	0.392	5.81	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.363	4.43	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.517	4.90	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.841	4.43	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.738	4.90	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

ANALYTICAL REPORT

Sample ID: AUH0046-05 (B1SB-R16-VOCS - Air) - cont. **Sampled: 07/30/11 18:14**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.595	5.89	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Toluene	**1.80**	J	ug/m³ Air	0.314	4.07	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.13	4.43	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.25	9.20	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.830	8.30	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.517	5.05	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.612	7.33	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.361	4.97	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Ethylbenzene	**0.957**	J	ug/m³ Air	0.657	4.69	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	**2.75**	J	ug/m³ Air	1.44	9.38	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.62	11.2	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.536	4.60	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.40	7.42	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
o-Xylene	**0.835**	J	ug/m³ Air	0.722	4.69	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.808	5.67	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.685	5.31	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.07	5.31	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.874	5.31	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.980	5.31	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.819	5.59	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.70	6.50	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	1.08	6.29	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.39	6.50	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.16	6.50	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	0.867	6.91	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.930	8.02	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.19	5.66	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	1.79	11.5	5.4	08/28/11 04:20	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*84 %*						08/28/11 04:20	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*66 %*						08/28/11 04:20	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*99 %*						08/28/11 04:20	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*102 %*						08/28/11 04:20	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*109 %*						08/28/11 04:20	GCMSR1	KRW	11H0392

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ANALYTICAL REPORT

Sample ID: AUH0046-06 (B1SB-R10-VOCS - Air) **Sampled: 07/30/11 18:18**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**40.6**		ug/m³ Air	0.339	3.87	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**3.38**	J	ug/m³ Air	0.634	5.42	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Chloromethane	**1.36**	J	ug/m³ Air	0.163	2.26	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.81	7.66	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.406	2.80	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.230	2.42	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Butane	**3.82**		ug/m³ Air	0.238	2.60	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.674	4.25	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.358	2.89	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Acetonitrile	**0.206**	J	ug/m³ Air	0.119	1.84	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**2.52**	J	ug/m³ Air	0.437	6.16	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Acetone	**30.7**		ug/m³ Air	0.193	2.60	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.304	2.38	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
n-Pentane	**1.41**	J	ug/m³ Air	0.217	3.23	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.264	3.32	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.261	4.34	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Methylene chloride	**1.06**	J	ug/m³ Air	0.348	3.81	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Carbon disulfide	**0.890**	J	ug/m³ Air	0.766	3.41	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.523	3.43	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.10	8.40	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.558	4.34	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.439	4.43	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.433	3.95	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Vinyl acetate	**0.887**	J	ug/m³ Air	0.756	3.86	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**3.28**		ug/m³ Air	0.430	3.23	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.393	4.34	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.423	3.86	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.441	5.35	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.308	4.43	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.580	5.98	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Benzene	ND		ug/m³ Air	0.366	3.50	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	1.87	6.89	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.468	3.77	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.402	5.06	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.72	7.34	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Trichloroethene	**4.97**	J	ug/m³ Air	0.397	5.89	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.368	4.49	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.525	4.97	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.853	4.49	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.748	4.97	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUH0046-06 (B1SB-R10-VOCS - Air) - cont.							**Sampled: 07/30/11 18:18**			
EPA TO15 - Volatile Organic Compounds by GC/MS - cont.										
1,1,2-Trichloroethane	ND		ug/m³ Air	0.604	5.98	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Toluene	**2.15**	J	ug/m³ Air	0.318	4.13	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.14	4.49	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.28	9.33	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.842	8.42	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.525	5.12	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.620	7.43	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.366	5.04	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Ethylbenzene	**1.05**	J	ug/m³ Air	0.666	4.76	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	**2.63**	J	ug/m³ Air	1.46	9.51	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.65	11.3	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.544	4.67	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.43	7.52	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
o-Xylene	**0.780**	J	ug/m³ Air	0.733	4.76	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.819	5.75	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.695	5.39	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.09	5.39	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.886	5.39	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.994	5.39	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.831	5.67	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.73	6.59	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	1.09	6.38	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.41	6.59	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.19	6.59	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
n-Undecane	**1.04**	J	ug/m³ Air	0.879	7.00	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.943	8.13	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.21	5.74	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	1.81	11.7	5.48	08/28/11 05:19	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*85 %*						08/28/11 05:19	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*67 %*						08/28/11 05:19	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*92 %*						08/28/11 05:19	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*101 %*						08/28/11 05:19	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*104 %*						08/28/11 05:19	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0046 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:14	

ANALYTICAL REPORT

Sample ID: AUH0046-07 (DUP-VOCS - Air) **Sampled: 07/30/11 19:32**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**124**		ug/m³ Air	0.322	3.68	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**2.75**	J	ug/m³ Air	0.603	5.15	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Chloromethane	**0.981**	J	ug/m³ Air	0.155	2.15	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.68	7.28	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Vinyl chloride	**1.14**	J	ug/m³ Air	0.386	2.66	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.219	2.30	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Butane	**1.52**	J	ug/m³ Air	0.227	2.48	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.641	4.04	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.341	2.75	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Acetonitrile	**0.164**	J	ug/m³ Air	0.113	1.75	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Trichlorofluoromethane	**2.27**	J	ug/m³ Air	0.416	5.85	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Acetone	**25.3**		ug/m³ Air	0.183	2.47	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.289	2.26	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
n-Pentane	**1.20**	J	ug/m³ Air	0.206	3.07	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.251	3.16	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.248	4.13	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Methylene chloride	**0.883**	J	ug/m³ Air	0.331	3.62	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.728	3.24	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.497	3.26	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.05	7.98	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.531	4.13	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.417	4.22	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.411	3.76	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Vinyl acetate	ND		ug/m³ Air	0.719	3.67	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**1.79**	J	ug/m³ Air	0.409	3.07	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	**30.9**		ug/m³ Air	0.374	4.13	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.402	3.67	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.420	5.09	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.293	4.22	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.551	5.68	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Benzene	**0.454**	J	ug/m³ Air	0.348	3.33	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	1.78	6.55	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.445	3.59	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.383	4.81	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.64	6.98	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Trichloroethene	**15.7**		ug/m³ Air	0.378	5.60	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.350	4.27	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.499	4.73	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.811	4.27	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.712	4.73	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392

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ANALYTICAL REPORT

Sample ID: AUH0046-07 (DUP-VOCS - Air) - cont. **Sampled: 07/30/11 19:32**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.574	5.68	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Toluene	**2.63**	J	ug/m³ Air	0.302	3.93	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.09	4.27	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.17	8.87	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.800	8.00	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.499	4.87	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.590	7.07	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.348	4.80	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Ethylbenzene	ND		ug/m³ Air	0.633	4.52	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	**1.50**	J	ug/m³ Air	1.39	9.05	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.57	10.8	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.517	4.44	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.31	7.15	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	0.697	4.52	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.779	5.46	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.661	5.12	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.03	5.12	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.842	5.12	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.945	5.12	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.790	5.39	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.64	6.26	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
n-Decane	**1.39**	J	ug/m³ Air	1.04	6.06	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.34	6.26	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.09	6.26	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	0.836	6.66	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.897	7.73	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.15	5.46	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	1.72	11.1	5.21	08/28/11 06:17	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*83 %*						08/28/11 06:17	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*66 %*						08/28/11 06:17	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*100 %*						08/28/11 06:17	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*104 %*						08/28/11 06:17	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*108 %*						08/28/11 06:17	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0046 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:14	

ANALYTICAL REPORT

Sample ID: AUH0046-08 (TRIP BLANK - Air) **Sampled: 07/29/11**

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	0.124	1.41	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	ND		ug/m³ Air	0.231	1.98	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Chloromethane	ND		ug/m³ Air	0.0595	0.826	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	1.03	2.80	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.148	1.02	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.0841	0.885	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Butane	**0.129**	J	ug/m³ Air	0.0870	0.951	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.246	1.55	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.131	1.06	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Acetonitrile	ND		ug/m³ Air	0.0433	0.672	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Trichlorofluoromethane	ND		ug/m³ Air	0.160	2.25	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Acetone	ND		ug/m³ Air	0.0703	0.950	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.111	0.868	2	08/27/11 16:25	GCMSR1	KRW	11H0392
n-Pentane	**0.186**	J	ug/m³ Air	0.0791	1.18	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.0964	1.21	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.0952	1.59	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Methylene chloride	ND		ug/m³ Air	0.127	1.39	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.280	1.25	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.191	1.25	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.403	3.07	2	08/27/11 16:25	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.204	1.59	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.160	1.62	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.158	1.44	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Vinyl acetate	ND		ug/m³ Air	0.276	1.41	2	08/27/11 16:25	GCMSR1	KRW	11H0392
2-Butanone (MEK)	ND		ug/m³ Air	0.157	1.18	2	08/27/11 16:25	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.144	1.59	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.154	1.41	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.161	1.95	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.113	1.62	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.212	2.18	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Benzene	ND		ug/m³ Air	0.134	1.28	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	0.684	2.52	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.171	1.38	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.147	1.85	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	0.629	2.68	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Trichloroethene	ND		ug/m³ Air	0.145	2.15	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Heptane	**0.170**	J	ug/m³ Air	0.134	1.64	2	08/27/11 16:25	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.192	1.82	2	08/27/11 16:25	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.311	1.64	2	08/27/11 16:25	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.273	1.82	2	08/27/11 16:25	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUH0046-08 (TRIP BLANK - Air) - cont.							**Sampled: 07/29/11**			
EPA TO15 - Volatile Organic Compounds by GC/MS - cont.										
1,1,2-Trichloroethane	ND		ug/m³ Air	0.220	2.18	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Toluene	ND		ug/m³ Air	0.116	1.51	2	08/27/11 16:25	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	0.418	1.64	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	0.833	3.41	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.307	3.07	2	08/27/11 16:25	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.192	1.87	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.227	2.71	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.134	1.84	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Ethylbenzene	ND		ug/m³ Air	0.243	1.74	2	08/27/11 16:25	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	ND		ug/m³ Air	0.533	3.47	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	0.602	4.13	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.199	1.70	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.888	2.75	2	08/27/11 16:25	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	0.267	1.74	2	08/27/11 16:25	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.299	2.10	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.254	1.97	2	08/27/11 16:25	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	0.396	1.97	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.323	1.97	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.363	1.97	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.303	2.07	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	0.630	2.40	2	08/27/11 16:25	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	0.398	2.33	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	0.513	2.40	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	0.801	2.40	2	08/27/11 16:25	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	0.321	2.56	2	08/27/11 16:25	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.344	2.97	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	0.440	2.10	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	0.661	4.27	2	08/27/11 16:25	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*86 %*						08/27/11 16:25	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*61 %*						08/27/11 16:25	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*100 %*						08/27/11 16:25	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*97 %*						08/27/11 16:25	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*105 %*						08/27/11 16:25	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0046 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:14	

ANALYTICAL REPORT

Sample ID: AUH0046-09 (B1-W8-WH VOCS - Air) **Sampled: 08/02/11 11:01**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**56.3**		ug/m³ Air	0.331	3.78	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	**2.42**	J	ug/m³ Air	0.619	5.29	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Chloromethane	1.14	J	ug/m³ Air	0.159	2.21	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.75	7.47	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.396	2.73	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.225	2.37	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Butane	**5.88**		ug/m³ Air	0.233	2.54	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.658	4.15	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.350	2.82	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Acetonitrile	**0.147**	J	ug/m³ Air	0.116	1.80	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Trichlorofluoromethane	1.94	J	ug/m³ Air	0.427	6.01	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Acetone	**22.2**		ug/m³ Air	0.188	2.54	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.297	2.32	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
n-Pentane	**2.83**	J	ug/m³ Air	0.211	3.16	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.258	3.24	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.254	4.24	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Methylene chloride	**0.511**	J	ug/m³ Air	0.340	3.71	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Carbon disulfide	**2.49**	J	ug/m³ Air	0.748	3.33	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.510	3.35	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.08	8.19	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.545	4.24	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.428	4.33	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.422	3.85	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Vinyl acetate	**1.05**	J	ug/m³ Air	0.738	3.76	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
2-Butanone (MEK)	**2.29**	J	ug/m³ Air	0.419	3.15	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.384	4.24	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.413	3.77	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.431	5.22	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.301	4.33	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.566	5.83	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Benzene	**0.494**	J	ug/m³ Air	0.357	3.42	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	1.83	6.73	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.456	3.68	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,2-Dichloropropane	**0.408**	J	ug/m³ Air	0.393	4.94	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	1.68	7.16	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Trichloroethene	**26.8**		ug/m³ Air	0.388	5.75	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Heptane	ND		ug/m³ Air	0.359	4.38	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.512	4.85	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.832	4.38	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.730	4.85	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

ANALYTICAL REPORT

Sample ID: AUH0046-09 (B1-W8-WH VOCS - Air) - cont. **Sampled: 08/02/11 11:01**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.589	5.83	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Toluene	**3.40**	J	ug/m³ Air	0.310	4.03	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	1.12	4.38	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	2.23	9.11	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.822	8.22	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.512	5.00	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.606	7.25	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.357	4.92	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Ethylbenzene	**0.689**	J	ug/m³ Air	0.650	4.64	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	**1.93**	J	ug/m³ Air	1.43	9.29	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	1.61	11.1	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.531	4.55	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.37	7.34	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	0.715	4.64	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.799	5.61	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.678	5.26	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	1.06	5.26	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.865	5.26	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.970	5.26	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.811	5.54	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	1.68	6.43	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	1.06	6.22	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	1.37	6.43	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	2.14	6.43	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
n-Undecane	**1.00**	J	ug/m³ Air	0.858	6.84	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.920	7.94	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	1.18	5.61	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	1.77	11.4	5.35	08/28/11 07:16	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*81 %*						08/28/11 07:16	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*64 %*						08/28/11 07:16	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*100 %*						08/28/11 07:16	GCMSR1	KRW	11H0392
Surr: 1,4-Dichlorobutane (80-130%)	*104 %*						08/28/11 07:16	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*109 %*						08/28/11 07:16	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0392-BLK1 (Blank - Air)										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0.124	1.41	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Dichlorodifluoromethane	ND		ug/m³ Air	0.231	1.98	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Chloromethane	ND		ug/m³ Air	0.0595	0.826	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	1.03	2.80	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Vinyl chloride	ND		ug/m³ Air	0.148	1.02	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,3-Butadiene	ND		ug/m³ Air	0.0841	0.885	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Butane	ND		ug/m³ Air	0.0870	0.951	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Bromomethane	ND		ug/m³ Air	0.246	1.55	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Chloroethane	ND		ug/m³ Air	0.131	1.06	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Acetonitrile	ND		ug/m³ Air	0.0433	0.672	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Trichlorofluoromethane	ND		ug/m³ Air	0.160	2.25	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Acetone	ND		ug/m³ Air	0.0703	0.950	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Acrylonitrile	ND		ug/m³ Air	0.111	0.868	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
n-Pentane	ND		ug/m³ Air	0.0791	1.18	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Diethyl ether	ND		ug/m³ Air	0.0964	1.21	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,1-Dichloroethene	ND		ug/m³ Air	0.0952	1.59	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Methylene chloride	ND		ug/m³ Air	0.127	1.39	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Carbon disulfide	ND		ug/m³ Air	0.280	1.25	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Allyl chloride	ND		ug/m³ Air	0.191	1.25	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.403	3.07	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.204	1.59	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,1-Dichloroethane	ND		ug/m³ Air	0.160	1.62	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.158	1.44	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Vinyl acetate	ND		ug/m³ Air	0.276	1.41	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
2-Butanone (MEK)	ND		ug/m³ Air	0.157	1.18	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.144	1.59	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Hexane	ND		ug/m³ Air	0.154	1.41	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Chloroform	ND		ug/m³ Air	0.161	1.95	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2-Dichloroethane	ND		ug/m³ Air	0.113	1.62	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,1,1-Trichloroethane	ND		ug/m³ Air	0.212	2.18	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Benzene	ND		ug/m³ Air	0.134	1.28	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Carbon tetrachloride	ND		ug/m³ Air	0.684	2.52	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Cyclohexane	ND		ug/m³ Air	0.171	1.38	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2-Dichloropropane	ND		ug/m³ Air	0.147	1.85	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Bromodichloromethane	ND		ug/m³ Air	0.629	2.68	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Trichloroethene	ND		ug/m³ Air	0.145	2.15	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0392-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Heptane	ND		ug/m³ Air	0.134	1.64	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.192	1.82	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.311	1.64	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.273	1.82	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,1,2-Trichloroethane	ND		ug/m³ Air	0.220	2.18	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Toluene	ND		ug/m³ Air	0.116	1.51	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
2-Hexanone	ND		ug/m³ Air	0.418	1.64	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Chlorodibromomethane	ND		ug/m³ Air	0.833	3.41	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.307	3.07	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
n-Octane	ND		ug/m³ Air	0.192	1.87	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Tetrachloroethene	ND		ug/m³ Air	0.227	2.71	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Chlorobenzene	ND		ug/m³ Air	0.134	1.84	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Ethylbenzene	ND		ug/m³ Air	0.243	1.74	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
m-Xylene & p-Xylene	ND		ug/m³ Air	0.533	3.47	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Bromoform	ND		ug/m³ Air	0.602	4.13	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Styrene	ND		ug/m³ Air	0.199	1.70	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.888	2.75	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
o-Xylene	ND		ug/m³ Air	0.267	1.74	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
n-Nonane	ND		ug/m³ Air	0.299	2.10	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Isopropylbenzene	ND		ug/m³ Air	0.254	1.97	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
n-Propylbenzene	ND		ug/m³ Air	0.396	1.97	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.323	1.97	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.363	1.97	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Benzyl chloride	ND		ug/m³ Air	0.303	2.07	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,3-Dichlorobenzene	ND		ug/m³ Air	0.630	2.40	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
n-Decane	ND		ug/m³ Air	0.398	2.33	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,4-Dichlorobenzene	ND		ug/m³ Air	0.513	2.40	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2-Dichlorobenzene	ND		ug/m³ Air	0.801	2.40	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
n-Undecane	ND		ug/m³ Air	0.321	2.56	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.344	2.97	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Naphthalene	ND		ug/m³ Air	0.440	2.10	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Hexachlorobutadiene	ND		ug/m³ Air	0.661	4.27	2.00	08/27/11 12:21	GCMSR1	KRW	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*94%*						08/27/11 12:21	GCMSR1	KRW	11H0392
Surr: Fluorobenzene (39-111%)	*68%*						08/27/11 12:21	GCMSR1	KRW	11H0392
Surr: Toluene-d8 (79-118%)	*100%*						08/27/11 12:21	GCMSR1	KRW	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0392-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Surr: 1,4-Dichlorobutane (80-130%)	*101%*						08/27/11 12:21	GCMSR1	KRW	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*105%*						08/27/11 12:21	GCMSR1	KRW	11H0392
Sample ID: 11H0421-BLK1 (Blank - Air)										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0.124	1.41	2.00	08/30/11 14:54	GCMSR1	KRW	11H0421
Trichloroethene	ND		ug/m³ Air	0.145	2.15	2.00	08/30/11 14:54	GCMSR1	KRW	11H0421
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*90%*						08/30/11 14:54	GCMSR1	KRW	11H0421
Surr: Fluorobenzene (39-111%)	*62%*						08/30/11 14:54	GCMSR1	KRW	11H0421
Surr: Toluene-d8 (79-118%)	*99%*						08/30/11 14:54	GCMSR1	KRW	11H0421
Surr: 1,4-Dichlorobutane (80-130%)	*101%*						08/30/11 14:54	GCMSR1	KRW	11H0421
Surr: 4-Bromofluorobenzene (81-131%)	*107%*						08/30/11 14:54	GCMSR1	KRW	11H0421

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

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: 11H0392-CCV1 (Calibration Check - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Dichlorodifluoromethane	45.0		ug/m³ Air	1.98	2.00	51.1	88%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Chloromethane	18.0		ug/m³ Air	0.826	2.00	21.5	83%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	60.1		ug/m³ Air	2.80	2.00	71.4	84%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Vinyl chloride	21.7		ug/m³ Air	1.02	2.00	26.4	82%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,3-Butadiene	20.7		ug/m³ Air	0.885	2.00	24.2	85%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Butane	20.1		ug/m³ Air	0.951	2.00	24.1	84%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Bromomethane	33.3		ug/m³ Air	1.55	2.00	40.1	83%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Chloroethane	22.3		ug/m³ Air	1.06	2.00	27.3	82%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Acetonitrile	16.4		ug/m³ Air	0.672	2.00	18.0	91%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
Trichlorofluoromethane	53.9		ug/m³ Air	2.25	2.00	60.3	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Acetone	25.9		ug/m³ Air	0.950	2.00	27.3	95%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Acrylonitrile	23.6		ug/m³ Air	0.868	2.00	23.8	100%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
n-Pentane	27.8		ug/m³ Air	1.18	2.00	31.7	88%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,1-Dichloroethene	38.4		ug/m³ Air	1.59	2.00	43.0	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Methylene chloride	33.2		ug/m³ Air	1.39	2.00	37.0	90%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Carbon disulfide	31.0		ug/m³ Air	1.25	2.00	33.5	93%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
Allyl chloride	31.7		ug/m³ Air	1.25	2.00	34.6	92%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,1,2-Trichlorotrifluoroethane	73.4		ug/m³ Air	3.07	2.00	82.3	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
trans-1,2-Dichloroethene	38.2		ug/m³ Air	1.59	2.00	43.0	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,1-Dichloroethane	36.6		ug/m³ Air	1.62	2.00	44.8	82%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Methyl tert-Butyl Ether	32.0		ug/m³ Air	1.44	2.00	38.4	83%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Vinyl acetate	38.0		ug/m³ Air	1.41	2.00	40.4	94%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
2-Butanone (MEK)	29.9		ug/m³ Air	1.18	2.00	33.5	89%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
cis-1,2-Dichloroethene	36.9		ug/m³ Air	1.59	2.00	43.4	85%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Hexane	32.2		ug/m³ Air	1.41	2.00	39.0	83%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Chloroform	44.2		ug/m³ Air	1.95	2.00	53.0	83%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,2-Dichloroethane	40.0		ug/m³ Air	1.62	2.00	44.8	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,1,1-Trichloroethane	51.8		ug/m³ Air	2.18	2.00	60.3	86%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Benzene	31.0		ug/m³ Air	1.28	2.00	35.7	87%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Carbon tetrachloride	63.2		ug/m³ Air	2.52	2.00	68.9	92%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Cyclohexane	32.6		ug/m³ Air	1.38	2.00	38.1	86%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,2-Dichloropropane	45.6		ug/m³ Air	1.85	2.00	51.1	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Bromodichloromethane	65.5		ug/m³ Air	2.68	2.00	70.6	93%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Trichloroethene	51.0		ug/m³ Air	2.15	2.00	56.6	90%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Heptane	40.2		ug/m³ Air	1.64	2.00	44.0	91%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
cis-1,3-Dichloropropene	46.0		ug/m³ Air	1.82	2.00	49.2	93%	70 - 130	GCMSR1	08/27/11 09:20	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

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: 11H0392-CCV1 (Calibration Check - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
4-Methyl-2-pentanone (MIBK)	45.6		ug/m³ Air	1.64	2.00	46.6	98%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
trans-1,3-Dichloropropene	50.0		ug/m³ Air	1.82	2.00	52.1	96%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,1,2-Trichloroethane	55.9		ug/m³ Air	2.18	2.00	60.9	92%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Toluene	41.0		ug/m³ Air	1.51	2.00	42.9	96%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Chlorodibromomethane	88.8		ug/m³ Air	3.41	2.00	92.4	96%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,2-Dibromoethane (EDB)	76.9		ug/m³ Air	3.07	2.00	86.5	89%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
n-Octane	49.8		ug/m³ Air	1.87	2.00	50.2	99%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Tetrachloroethene	70.7		ug/m³ Air	2.71	2.00	75.0	94%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Chlorobenzene	48.9		ug/m³ Air	1.84	2.00	51.8	94%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Ethylbenzene	49.8		ug/m³ Air	1.74	2.00	48.9	102%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
m-Xylene & p-Xylene	97.8		ug/m³ Air	3.47	2.00	96.0	102%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Bromoform	111		ug/m³ Air	4.13	2.00	114	97%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Styrene	48.0		ug/m³ Air	1.70	2.00	48.4	99%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,1,2,2-Tetrachloroethane	62.2		ug/m³ Air	2.75	2.00	76.6	81%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
o-Xylene	49.6		ug/m³ Air	1.74	2.00	48.5	102%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
n-Nonane	59.2		ug/m³ Air	2.10	2.00	55.8	106%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Isopropylbenzene	51.8		ug/m³ Air	1.97	2.00	50.8	102%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
n-Propylbenzene	47.0		ug/m³ Air	1.97	2.00	51.3	92%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,3,5-Trimethylbenzene	47.6		ug/m³ Air	1.97	2.00	55.9	85%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,2,4-Trimethylbenzene	49.3		ug/m³ Air	1.97	2.00	55.9	88%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
Benzyl chloride	**79.0**	**C8**	**ug/m³ Air**	**2.07**	**2.00**	**58.9**	**134%**	**70 - 130**	**GCMSR1**	**08/27/11 09:20**	**11H0392**
1,3-Dichlorobenzene	55.3		ug/m³ Air	2.40	2.00	68.4	81%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
n-Decane	65.1		ug/m³ Air	2.33	2.00	62.5	104%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,4-Dichlorobenzene	64.3		ug/m³ Air	2.40	2.00	67.7	95%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
1,2-Dichlorobenzene	72.4		ug/m³ Air	2.40	2.00	67.7	107%	70 - 130	GCMSR1	08/27/11 09:20	11H0392
n-Undecane	72.2		ug/m³ Air	2.56	2.00	68.0	106%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
1,2,4-Trichlorobenzene	101		ug/m³ Air	2.97	2.00	84.4	120%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
Naphthalene	61.3		ug/m³ Air	2.10	2.00	59.6	103%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
Hexachlorobutadiene	143		ug/m³ Air	4.27	2.00	120	119%	50 - 150	GCMSR1	08/27/11 09:20	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*95%*								GCMSR1	08/27/11 9:20	11H0392
Surr: Fluorobenzene (70-130%)	*92%*								GCMSR1	08/27/11 9:20	11H0392
Surr: Toluene-d8 (70-130%)	*102%*								GCMSR1	08/27/11 9:20	11H0392
Surr: 1,4-Dichlorobutane (70-130%)	*103%*								GCMSR1	08/27/11 9:20	11H0392
Surr: 4-Bromofluorobenzene (70-130%)	*103%*								GCMSR1	08/27/11 9:20	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

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: 11H0421-CCV1 (Calibration Check - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Trichloroethene	53.2		ug/m³ Air	2.15	2.00	56.6	94%	70 - 130	GCMSR1	08/30/11 11:52	11H0421
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*93%*								GCMSR1	08/30/11 11:52	11H0421
Surr: Fluorobenzene (70-130%)	*85%*								GCMSR1	08/30/11 11:52	11H0421
Surr: Toluene-d8 (70-130%)	*103%*								GCMSR1	08/30/11 11:52	11H0421
Surr: 1,4-Dichlorobutane (70-130%)	*110%*								GCMSR1	08/30/11 11:52	11H0421
Surr: 4-Bromofluorobenzene (70-130%)	*110%*								GCMSR1	08/30/11 11:52	11H0421

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PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0392-DUP1 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	**4.56**		**4.22**	ug/m³ Air	8	25	11H0392	AUH0046-01	08/27/11 23:25
Dichlorodifluoromethane	**2.74**	**J**	**2.39**	ug/m³ Air	14	25	11H0392	AUH0046-01	08/27/11 23:25
Chloromethane	**1.71**	**J**	**1.37**	ug/m³ Air	22	25	11H0392	AUH0046-01	08/27/11 23:25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Vinyl chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,3-Butadiene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Butane	**0.610**	**R4, J**	**0.472**	ug/m³ Air	26	25	11H0392	AUH0046-01	08/27/11 23:25
Bromomethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Chloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Acetonitrile	**0.370**	**R4, J**	**0.279**	ug/m³ Air	28	25	11H0392	AUH0046-01	08/27/11 23:25
Trichlorofluoromethane	**1.60**	**J**	**1.60**	ug/m³ Air	0.4	25	11H0392	AUH0046-01	08/27/11 23:25
Acetone	**24.0**		**22.6**	ug/m³ Air	6	25	11H0392	AUH0046-01	08/27/11 23:25
Acrylonitrile	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
n-Pentane	**0.547**	**R4, J**	**0.409**	ug/m³ Air	29	25	11H0392	AUH0046-01	08/27/11 23:25
Diethyl ether	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Methylene chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Carbon disulfide	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Allyl chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,1,2-Trichlorotrifluoroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Methyl tert-Butyl Ether	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Vinyl acetate	**2.68**	**J**	**2.67**	ug/m³ Air	0.4	50	11H0392	AUH0046-01	08/27/11 23:25
2-Butanone (MEK)	**2.52**	**J**	**2.36**	ug/m³ Air	6	25	11H0392	AUH0046-01	08/27/11 23:25
cis-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Hexane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Chloroform	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,2-Dichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Benzene	**0.706**	**J**	**0.589**	ug/m³ Air	18	25	11H0392	AUH0046-01	08/27/11 23:25
Carbon tetrachloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Cyclohexane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0392-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Bromodichloromethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Trichloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Heptane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Toluene	**0.612**	**J**	**0.610**	ug/m³ Air	0.3	25	11H0392	AUH0046-01	08/27/11 23:25
2-Hexanone	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
n-Octane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Tetrachloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Chlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Ethylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
m-Xylene & p-Xylene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Bromoform	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Styrene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
o-Xylene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
n-Nonane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Isopropylbenzene	ND		ND	ug/m³ Air		50	11H0392	AUH0046-01	08/27/11 23:25
n-Propylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Benzyl chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
n-Decane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
n-Undecane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Naphthalene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-01	08/27/11 23:25

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0392-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*86%*						11H0392		08/27/11 23:25
Surr: Fluorobenzene (39-111%)	*65%*						11H0392		08/27/11 23:25
Surr: Toluene-d8 (79-118%)	*97%*						11H0392		08/27/11 23:25
Surr: 1,4-Dichlorobutane (80-130%)	*100%*						11H0392		08/27/11 23:25
Surr: 4-Bromofluorobenzene (81-131%)	*105%*						11H0392		08/27/11 23:25
Sample ID: 11H0392-DUP2 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	**34.0**		**34.7**	ug/m³ Air	2	25	11H0392	AUH0046-02	08/28/11 1:23
Dichlorodifluoromethane	**2.85**	J	**2.95**	ug/m³ Air	3	25	11H0392	AUH0046-02	08/28/11 1:23
Chloromethane	**1.07**	J	**1.14**	ug/m³ Air	7	25	11H0392	AUH0046-02	08/28/11 1:23
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Vinyl chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,3-Butadiene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Butane	**2.49**	J	**2.57**	ug/m³ Air	3	25	11H0392	AUH0046-02	08/28/11 1:23
Bromomethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Chloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Acetonitrile	**0.284**	J	**0.281**	ug/m³ Air	1	25	11H0392	AUH0046-02	08/28/11 1:23
Trichlorofluoromethane	**2.21**	J	**2.18**	ug/m³ Air	1	25	11H0392	AUH0046-02	08/28/11 1:23
Acetone	**28.2**		**28.9**	ug/m³ Air	2	25	11H0392	AUH0046-02	08/28/11 1:23
Acrylonitrile	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
n-Pentane	**1.28**	J	**1.33**	ug/m³ Air	4	25	11H0392	AUH0046-02	08/28/11 1:23
Diethyl ether	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Methylene chloride	**0.538**	J	**0.570**	ug/m³ Air	6	25	11H0392	AUH0046-02	08/28/11 1:23
Carbon disulfide	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Allyl chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,1,2-Trichlorotrifluoroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Methyl tert-Butyl Ether	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Vinyl acetate	**1.21**	J	**1.29**	ug/m³ Air	6	50	11H0392	AUH0046-02	08/28/11 1:23

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0392-DUP2 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
2-Butanone (MEK)	**2.60**	**J**	**2.66**	ug/m³ Air	2	25	11H0392	AUH0046-02	08/28/11 1:23
cis-1,2-Dichloroethene	**0.418**	**J**	**0.422**	ug/m³ Air	1	25	11H0392	AUH0046-02	08/28/11 1:23
Hexane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Chloroform	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,2-Dichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Benzene	**0.386**	**J**	**0.441**	ug/m³ Air	13	25	11H0392	AUH0046-02	08/28/11 1:23
Carbon tetrachloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Cyclohexane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Bromodichloromethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Trichloroethene	**2.87**	**J**	**2.93**	ug/m³ Air	2	25	11H0392	AUH0046-02	08/28/11 1:23
Heptane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Toluene	**2.81**	**J**	**3.15**	ug/m³ Air	11	25	11H0392	AUH0046-02	08/28/11 1:23
2-Hexanone	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
n-Octane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Tetrachloroethene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Chlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Ethylbenzene	**3.29**	**J**	**3.51**	ug/m³ Air	7	25	11H0392	AUH0046-02	08/28/11 1:23
m-Xylene & p-Xylene	**12.6**		**13.0**	ug/m³ Air	4	25	11H0392	AUH0046-02	08/28/11 1:23
Bromoform	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Styrene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
o-Xylene	**3.11**	**J**	**2.96**	ug/m³ Air	5	25	11H0392	AUH0046-02	08/28/11 1:23
n-Nonane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Isopropylbenzene	ND		ND	ug/m³ Air		50	11H0392	AUH0046-02	08/28/11 1:23
n-Propylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0392-DUP2 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Benzyl chloride	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
n-Decane	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
n-Undecane	**ND**	**J**	**0.890**	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Naphthalene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11H0392	AUH0046-02	08/28/11 1:23
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*85%*						11H0392		08/28/11 1:23
Surr: Fluorobenzene (39-111%)	*66%*						11H0392		08/28/11 1:23
Surr: Toluene-d8 (79-118%)	*96%*						11H0392		08/28/11 1:23
Surr: 1,4-Dichlorobutane (80-130%)	*105%*						11H0392		08/28/11 1:23
Surr: 4-Bromofluorobenzene (81-131%)	*111%*						11H0392		08/28/11 1:23
Sample ID: 11H0421-DUP1 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	**1.17**	**J**	**1.13**	ug/m³ Air	4	25	11H0421	AUH0240-03	08/31/11 2:50
Trichloroethene	ND		ND	ug/m³ Air		25	11H0421	AUH0240-03	08/31/11 2:50
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*78%*						11H0421		08/31/11 2:50
Surr: Fluorobenzene (39-111%)	*52%*						11H0421		08/31/11 2:50
Surr: Toluene-d8 (79-118%)	*95%*						11H0421		08/31/11 2:50
Surr: 1,4-Dichlorobutane (80-130%)	*98%*						11H0421		08/31/11 2:50
Surr: 4-Bromofluorobenzene (81-131%)	*102%*						11H0421		08/31/11 2:50

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

PROJECT QUALITY CONTROL DATA

LCS

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11H0392-BS1 (LCS - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Chlorodifluoromethane	36.4		ug/m³ Air	1.41	2.00	38.1	95%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Dichlorodifluoromethane	47.5		ug/m³ Air	1.98	2.00	51.7	92%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Chloromethane	19.8		ug/m³ Air	0.826	2.00	21.8	91%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	57.4		ug/m³ Air	2.80	2.00	73.1	78%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Vinyl chloride	23.9		ug/m³ Air	1.02	2.00	27.0	89%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,3-Butadiene	22.4		ug/m³ Air	0.885	2.00	23.8	94%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Butane	20.7		ug/m³ Air	0.951	2.00	24.1	86%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Bromomethane	36.0		ug/m³ Air	1.55	2.00	40.6	89%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Chloroethane	24.1		ug/m³ Air	1.06	2.00	27.3	88%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Acetonitrile	15.3		ug/m³ Air	0.672	2.00	17.6	87%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Trichlorofluoromethane	55.7		ug/m³ Air	2.25	2.00	60.0	93%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Acetone	24.3		ug/m³ Air	0.950	2.00	25.6	95%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Acrylonitrile	21.7		ug/m³ Air	0.868	2.00	23.4	93%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
n-Pentane	28.8		ug/m³ Air	1.18	2.00	31.8	91%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Diethyl ether	32.8		ug/m³ Air	1.21	2.00	32.7	100%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,1-Dichloroethene	40.4		ug/m³ Air	1.59	2.00	43.1	94%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Methylene chloride	34.7		ug/m³ Air	1.39	2.00	37.1	94%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Carbon disulfide	25.2		ug/m³ Air	1.25	2.00	33.9	74%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Allyl chloride	28.1		ug/m³ Air	1.25	2.00	33.4	84%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,1,2-Trichlorotrifluoroethane	77.7		ug/m³ Air	3.07	2.00	84.1	92%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
trans-1,2-Dichloroethene	38.1		ug/m³ Air	1.59	2.00	41.9	91%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,1-Dichloroethane	37.7		ug/m³ Air	1.62	2.00	44.0	86%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Methyl tert-Butyl Ether	35.3		ug/m³ Air	1.44	2.00	39.6	89%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Vinyl acetate	33.6		ug/m³ Air	1.41	2.00	39.8	85%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
2-Butanone (MEK)	27.9		ug/m³ Air	1.18	2.00	33.3	84%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
cis-1,2-Dichloroethene	38.8		ug/m³ Air	1.59	2.00	44.0	88%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Hexane	31.4		ug/m³ Air	1.41	2.00	40.6	78%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Chloroform	46.2		ug/m³ Air	1.95	2.00	52.1	89%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2-Dichloroethane	41.3		ug/m³ Air	1.62	2.00	44.0	94%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,1,1-Trichloroethane	53.3		ug/m³ Air	2.18	2.00	58.8	91%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Benzene	31.4		ug/m³ Air	1.28	2.00	34.8	90%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Carbon tetrachloride	61.0		ug/m³ Air	2.52	2.00	71.1	86%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Cyclohexane	30.8		ug/m³ Air	1.38	2.00	38.2	81%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2-Dichloropropane	46.4		ug/m³ Air	1.85	2.00	50.7	91%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Bromodichloromethane	71.6		ug/m³ Air	2.68	2.00	74.3	96%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Trichloroethene	50.5		ug/m³ Air	2.15	2.00	59.6	85%	50 - 150	GCMSR1	08/27/11 10:21	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

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: 11H0392-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Heptane	38.0		ug/m³ Air	1.64	2.00	45.5	84%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
cis-1,3-Dichloropropene	49.9		ug/m³ Air	1.82	2.00	51.3	97%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
4-Methyl-2-pentanone (MIBK)	40.0		ug/m³ Air	1.64	2.00	46.7	86%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
trans-1,3-Dichloropropene	46.9		ug/m³ Air	1.82	2.00	47.0	100%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,1,2-Trichloroethane	58.2		ug/m³ Air	2.18	2.00	59.9	97%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Toluene	40.6		ug/m³ Air	1.51	2.00	41.8	97%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
2-Hexanone	45.2		ug/m³ Air	1.64	2.00	46.3	98%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Chlorodibromomethane	94.8		ug/m³ Air	3.41	2.00	95.3	99%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2-Dibromoethane (EDB)	77.9		ug/m³ Air	3.07	2.00	84.4	92%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
n-Octane	47.5		ug/m³ Air	1.87	2.00	49.9	95%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Tetrachloroethene	72.1		ug/m³ Air	2.71	2.00	70.3	103%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Chlorobenzene	50.6		ug/m³ Air	1.84	2.00	51.5	98%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Ethylbenzene	50.9		ug/m³ Air	1.74	2.00	48.2	106%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
m-Xylene & p-Xylene	101		ug/m³ Air	3.47	2.00	94.5	107%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Bromoform	121		ug/m³ Air	4.13	2.00	113	107%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Styrene	50.2		ug/m³ Air	1.70	2.00	47.7	105%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,1,2,2-Tetrachloroethane	64.0		ug/m³ Air	2.75	2.00	77.6	82%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
o-Xylene	50.8		ug/m³ Air	1.74	2.00	49.1	104%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
n-Nonane	58.4		ug/m³ Air	2.10	2.00	56.0	104%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Isopropylbenzene	52.9		ug/m³ Air	1.97	2.00	51.9	102%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
n-Propylbenzene	48.5		ug/m³ Air	1.97	2.00	51.4	94%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,3,5-Trimethylbenzene	47.5		ug/m³ Air	1.97	2.00	54.0	88%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2,4-Trimethylbenzene	46.9		ug/m³ Air	1.97	2.00	53.5	88%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Benzyl chloride	75.5		ug/m³ Air	2.07	2.00	57.9	130%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,3-Dichlorobenzene	50.3		ug/m³ Air	2.40	2.00	67.3	75%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
n-Decane	57.6		ug/m³ Air	2.33	2.00	63.3	91%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,4-Dichlorobenzene	52.5		ug/m³ Air	2.40	2.00	65.4	80%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2-Dichlorobenzene	59.5		ug/m³ Air	2.40	2.00	67.3	88%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
n-Undecane	64.5		ug/m³ Air	2.56	2.00	69.6	93%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
1,2,4-Trichlorobenzene	92.0		ug/m³ Air	2.97	2.00	84.6	109%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Naphthalene	48.8		ug/m³ Air	2.10	2.00	56.5	86%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Hexachlorobutadiene	138		ug/m³ Air	4.27	2.00	118	117%	50 - 150	GCMSR1	08/27/11 10:21	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*98%*								GCMSR1	08/27/11 10:21	11H0392
Surr: Fluorobenzene (39-111%)	*94%*								GCMSR1	08/27/11 10:21	11H0392
Surr: Toluene-d8 (79-118%)	*99%*								GCMSR1	08/27/11 10:21	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

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: 11H0392-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Surr: 1,4-Dichlorobutane (80-130%)	*109%*								GCMSR1	08/27/11 10:21	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*106%*								GCMSR1	08/27/11 10:21	11H0392
Sample ID: 11H0421-BS1 (LCS - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Chlorodifluoromethane	36.2		ug/m³ Air	1.41	2.00	38.1	95%	50 - 150	GCMSR1	08/30/11 12:53	11H0421
Trichloroethene	52.2		ug/m³ Air	2.15	2.00	59.6	88%	50 - 150	GCMSR1	08/30/11 12:53	11H0421
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*94%*								GCMSR1	08/30/11 12:53	11H0421
Surr: Fluorobenzene (39-111%)	*84%*								GCMSR1	08/30/11 12:53	11H0421
Surr: Toluene-d8 (79-118%)	*97%*								GCMSR1	08/30/11 12:53	11H0421
Surr: 1,4-Dichlorobutane (80-130%)	*106%*								GCMSR1	08/30/11 12:53	11H0421
Surr: 4-Bromofluorobenzene (81-131%)	*109%*								GCMSR1	08/30/11 12:53	11H0421

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

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: 11H0392-BSD1 (LCS Dup - Air)												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Chlorodifluoromethane	35.8		ug/m³ Air	1.41	2.00	38.1	94%	50 - 150	1	25	08/27/11 11:20	11H0392
Dichlorodifluoromethane	46.8		ug/m³ Air	1.98	2.00	51.7	90%	50 - 150	2	25	08/27/11 11:20	11H0392
Chloromethane	19.4		ug/m³ Air	0.826	2.00	21.8	89%	50 - 150	2	25	08/27/11 11:20	11H0392
1,2-Dichloro-1,1,2,2-tetrafluoroethane	56.7		ug/m³ Air	2.80	2.00	73.1	78%	50 - 150	1	25	08/27/11 11:20	11H0392
Vinyl chloride	23.7		ug/m³ Air	1.02	2.00	27.0	88%	50 - 150	1	25	08/27/11 11:20	11H0392
1,3-Butadiene	22.1		ug/m³ Air	0.885	2.00	23.8	93%	50 - 150	1	25	08/27/11 11:20	11H0392
Butane	20.4		ug/m³ Air	0.951	2.00	24.1	85%	50 - 150	2	25	08/27/11 11:20	11H0392
Bromomethane	35.6		ug/m³ Air	1.55	2.00	40.6	88%	50 - 150	1	25	08/27/11 11:20	11H0392
Chloroethane	23.9		ug/m³ Air	1.06	2.00	27.3	87%	50 - 150	0.7	25	08/27/11 11:20	11H0392
Acetonitrile	15.3		ug/m³ Air	0.672	2.00	17.6	87%	50 - 150	0.2	25	08/27/11 11:20	11H0392
Trichlorofluoromethane	55.8		ug/m³ Air	2.25	2.00	60.0	93%	50 - 150	0.3	25	08/27/11 11:20	11H0392
Acetone	24.2		ug/m³ Air	0.950	2.00	25.6	95%	50 - 150	0.3	25	08/27/11 11:20	11H0392
Acrylonitrile	22.1		ug/m³ Air	0.868	2.00	23.4	95%	50 - 150	2	25	08/27/11 11:20	11H0392
n-Pentane	28.9		ug/m³ Air	1.18	2.00	31.8	91%	50 - 150	0.4	25	08/27/11 11:20	11H0392
Diethyl ether	32.0		ug/m³ Air	1.21	2.00	32.7	98%	50 - 150	2	25	08/27/11 11:20	11H0392
1,1-Dichloroethene	40.8		ug/m³ Air	1.59	2.00	43.1	95%	50 - 150	1	25	08/27/11 11:20	11H0392
Methylene chloride	34.9		ug/m³ Air	1.39	2.00	37.1	94%	50 - 150	0.6	25	08/27/11 11:20	11H0392
Carbon disulfide	25.4		ug/m³ Air	1.25	2.00	33.9	75%	50 - 150	0.9	25	08/27/11 11:20	11H0392
Allyl chloride	28.4		ug/m³ Air	1.25	2.00	33.4	85%	50 - 150	1	25	08/27/11 11:20	11H0392
1,1,2-Trichlorotrifluoroethane	78.3		ug/m³ Air	3.07	2.00	84.1	93%	50 - 150	0.8	25	08/27/11 11:20	11H0392
trans-1,2-Dichloroethene	38.0		ug/m³ Air	1.59	2.00	41.9	91%	50 - 150	0.4	25	08/27/11 11:20	11H0392
1,1-Dichloroethane	38.1		ug/m³ Air	1.62	2.00	44.0	87%	50 - 150	1	25	08/27/11 11:20	11H0392
Methyl tert-Butyl Ether	35.3		ug/m³ Air	1.44	2.00	39.6	89%	50 - 150	0.04	25	08/27/11 11:20	11H0392
Vinyl acetate	33.6		ug/m³ Air	1.41	2.00	39.8	85%	50 - 150	0.05	50	08/27/11 11:20	11H0392
2-Butanone (MEK)	28.1		ug/m³ Air	1.18	2.00	33.3	84%	50 - 150	0.5	25	08/27/11 11:20	11H0392
cis-1,2-Dichloroethene	38.8		ug/m³ Air	1.59	2.00	44.0	88%	50 - 150	0.04	25	08/27/11 11:20	11H0392
Hexane	31.6		ug/m³ Air	1.41	2.00	40.6	78%	50 - 150	0.5	25	08/27/11 11:20	11H0392
Chloroform	47.1		ug/m³ Air	1.95	2.00	52.1	90%	50 - 150	2	25	08/27/11 11:20	11H0392
1,2-Dichloroethane	42.3		ug/m³ Air	1.62	2.00	44.0	96%	50 - 150	2	25	08/27/11 11:20	11H0392
1,1,1-Trichloroethane	53.6		ug/m³ Air	2.18	2.00	58.8	91%	50 - 150	0.6	25	08/27/11 11:20	11H0392
Benzene	30.9		ug/m³ Air	1.28	2.00	34.8	89%	50 - 150	1	25	08/27/11 11:20	11H0392
Carbon tetrachloride	59.3		ug/m³ Air	2.52	2.00	71.1	83%	50 - 150	3	25	08/27/11 11:20	11H0392
Cyclohexane	29.8		ug/m³ Air	1.38	2.00	38.2	78%	50 - 150	3	25	08/27/11 11:20	11H0392
1,2-Dichloropropane	45.2		ug/m³ Air	1.85	2.00	50.7	89%	50 - 150	3	25	08/27/11 11:20	11H0392
Bromodichloromethane	71.6		ug/m³ Air	2.68	2.00	74.3	96%	50 - 150	0.07	25	08/27/11 11:20	11H0392
Trichloroethene	51.9		ug/m³ Air	2.15	2.00	59.6	87%	50 - 150	3	25	08/27/11 11:20	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:14

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: 11H0392-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Heptane	37.1		ug/m³ Air	1.64	2.00	45.5	82%	50 - 150	2	25	08/27/11 11:20	11H0392
cis-1,3-Dichloropropene	52.0		ug/m³ Air	1.82	2.00	51.3	101%	50 - 150	4	25	08/27/11 11:20	11H0392
4-Methyl-2-pentanone (MIBK)	39.4		ug/m³ Air	1.64	2.00	46.7	84%	50 - 150	2	25	08/27/11 11:20	11H0392
trans-1,3-Dichloropropene	50.0		ug/m³ Air	1.82	2.00	47.0	106%	50 - 150	6	25	08/27/11 11:20	11H0392
1,1,2-Trichloroethane	57.9		ug/m³ Air	2.18	2.00	59.9	97%	50 - 150	0.4	25	08/27/11 11:20	11H0392
Toluene	39.7		ug/m³ Air	1.51	2.00	41.8	95%	50 - 150	2	25	08/27/11 11:20	11H0392
2-Hexanone	48.3		ug/m³ Air	1.64	2.00	46.3	104%	50 - 150	6	25	08/27/11 11:20	11H0392
Chlorodibromomethane	95.7		ug/m³ Air	3.41	2.00	95.3	100%	50 - 150	0.9	25	08/27/11 11:20	11H0392
1,2-Dibromoethane (EDB)	84.0		ug/m³ Air	3.07	2.00	84.4	100%	50 - 150	8	25	08/27/11 11:20	11H0392
n-Octane	46.7		ug/m³ Air	1.87	2.00	49.9	94%	50 - 150	2	25	08/27/11 11:20	11H0392
Tetrachloroethene	71.7		ug/m³ Air	2.71	2.00	70.3	102%	50 - 150	0.6	25	08/27/11 11:20	11H0392
Chlorobenzene	50.4		ug/m³ Air	1.84	2.00	51.5	98%	50 - 150	0.3	25	08/27/11 11:20	11H0392
Ethylbenzene	50.5		ug/m³ Air	1.74	2.00	48.2	105%	50 - 150	0.9	25	08/27/11 11:20	11H0392
m-Xylene & p-Xylene	98.6		ug/m³ Air	3.47	2.00	94.5	104%	50 - 150	2	25	08/27/11 11:20	11H0392
Bromoform	124		ug/m³ Air	4.13	2.00	113	111%	50 - 150	3	25	08/27/11 11:20	11H0392
Styrene	50.5		ug/m³ Air	1.70	2.00	47.7	106%	50 - 150	0.6	25	08/27/11 11:20	11H0392
1,1,2,2-Tetrachloroethane	64.4		ug/m³ Air	2.75	2.00	77.6	83%	50 - 150	0.6	25	08/27/11 11:20	11H0392
o-Xylene	50.1		ug/m³ Air	1.74	2.00	49.1	102%	50 - 150	1	25	08/27/11 11:20	11H0392
n-Nonane	57.1		ug/m³ Air	2.10	2.00	56.0	102%	50 - 150	2	25	08/27/11 11:20	11H0392
Isopropylbenzene	51.7		ug/m³ Air	1.97	2.00	51.9	100%	50 - 150	2	50	08/27/11 11:20	11H0392
n-Propylbenzene	48.1		ug/m³ Air	1.97	2.00	51.4	94%	50 - 150	0.8	25	08/27/11 11:20	11H0392
1,3,5-Trimethylbenzene	51.6		ug/m³ Air	1.97	2.00	54.0	96%	50 - 150	8	25	08/27/11 11:20	11H0392
1,2,4-Trimethylbenzene	57.9		ug/m³ Air	1.97	2.00	53.5	108%	50 - 150	21	25	08/27/11 11:20	11H0392
Benzyl chloride	79.0		ug/m³ Air	2.07	2.00	57.9	136%	50 - 150	5	25	08/27/11 11:20	11H0392
1,3-Dichlorobenzene	60.4		ug/m³ Air	2.40	2.00	67.3	90%	50 - 150	18	25	08/27/11 11:20	11H0392
n-Decane	62.6		ug/m³ Air	2.33	2.00	63.3	99%	50 - 150	8	25	08/27/11 11:20	11H0392
1,4-Dichlorobenzene	66.3		ug/m³ Air	2.40	2.00	65.4	101%	50 - 150	23	25	08/27/11 11:20	11H0392
1,2-Dichlorobenzene	72.9		ug/m³ Air	2.40	2.00	67.3	108%	50 - 150	20	25	08/27/11 11:20	11H0392
n-Undecane	61.6		ug/m³ Air	2.56	2.00	69.6	89%	50 - 150	5	25	08/27/11 11:20	11H0392
1,2,4-Trichlorobenzene	87.7		ug/m³ Air	2.97	2.00	84.6	104%	50 - 150	5	25	08/27/11 11:20	11H0392
Naphthalene	46.1		ug/m³ Air	2.10	2.00	56.5	82%	50 - 150	6	25	08/27/11 11:20	11H0392
Hexachlorobutadiene	132		ug/m³ Air	4.27	2.00	118	112%	50 - 150	5	25	08/27/11 11:20	11H0392
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*97%*										08/27/11 11:20	11H0392
Surr: Fluorobenzene (39-111%)	*96%*										08/27/11 11:20	11H0392
Surr: Toluene-d8 (79-118%)	*98%*										08/27/11 11:20	11H0392

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0046 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:14	

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: 11H0392-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Surr: 1,4-Dichlorobutane (80-130%)	*102%*										08/27/11 11:20	11H0392
Surr: 4-Bromofluorobenzene (81-131%)	*106%*										08/27/11 11:20	11H0392
Sample ID: 11H0421-BSD1 (LCS Dup - Air)												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Chlorodifluoromethane	35.5		ug/m³ Air	1.41	2.00	38.1	93%	50 - 150	2	25	08/30/11 13:54	11H0421
Trichloroethene	52.1		ug/m³ Air	2.15	2.00	59.6	87%	50 - 150	0.1	25	08/30/11 13:54	11H0421
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*94%*										08/30/11 13:54	11H0421
Surr: Fluorobenzene (39-111%)	*84%*										08/30/11 13:54	11H0421
Surr: Toluene-d8 (79-118%)	*99%*										08/30/11 13:54	11H0421
Surr: 1,4-Dichlorobutane (80-130%)	*111%*										08/30/11 13:54	11H0421
Surr: 4-Bromofluorobenzene (81-131%)	*110%*										08/30/11 13:54	11H0421

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0046 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 21:14

DATA QUALIFIERS AND DEFINITIONS

C8	Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
RA	Results are from a second analysis of the sample.
ND	Not detected.

5499937	Terracon	Good	24 hr - 70%	DTW 07/26/11	DTW 08/11/11	good	
7343491					DTW 08/10/11	good	
7342868					DTW 08/12/11	good	
7300138					DTW 08/09/11	good	
7229273					DTW 08/12/11	good	
7299278					DTW 08/09/11	good	
7300952					DTW 08/10/11	good	Busted gauge
5502989					DTW 08/09/11	good	
7300954					DTW 08/11/11	good	

VOC EQUIPMENT SIGN-OUT LOGBOOK

EQUIPMENT NUMBER	CLIENT	CONDITION SHIPPED OUT	CALIBRATED	INITIALS/DATE OUT	INITIALS/DATE RETURNED	CONDITION ON RETURN	COMMENTS
7300105	TERRACON	GOOD	24HR - 70%	DTW 07/26/11	DTW 08/11/11	good	
7289097					DTW 08/09/11	good	
7340650					DTW 08/09/11	good	
7300971					DTW 08/11/11	good	
7300947					DTW 08/11/11	good	
7343248					DTW 08/10/11	good	
7299272					DTW 08/09/11	good	
7301111					DTW 08/11/11	good	
7343485					DTW 08/09/11	good	
7343492					DTW 08/11/11	good	
7298377					DTW 08/09/11	good	
7343027					DTW 08/10/11	good	
7342987					DTW 08/12/11	good	
7299277					DTW 08/11/11	good	
7300149					DTW 08/12/11	good	
7301037					DTW 08/11/11	good	
7343025					DTW 08/11/11	good	
7300142					DTW 08/11/11	good	
00001			1HR - 70%		DTW 08/12/11	good	
A168475					DTW 08/12/11	good	
00520					DTW 08/12/11	good	
FC023					DTW 08/12/11	good	
A133246					DTW 08/12/11	good	

VOC EQUIPMENT SIGN-OUT LOGBOOK

EQUIPMENT NUMBER	CLIENT	CONDITION SHIPPED OUT	CALIBRATED	INITIALS/DATE OUT	INITIALS/DATE RETURNED	CONDITION ON RETURN	COMMENTS
FC025	Terracon	Good	1HR-70%	DTW 07/26/11	DTW 08/12/11	Bad gauge	
FC029					DTW 08/12/11	good	
7301138					DTW 08/09/11	good	
7299282					DTW 08/08/11	good	
7301142					DTW 08/08/11	good	

TestAmerica – Austin Laboratory Chain of Custody Addendum **Work Order Number** A6H0046

RECEIVED BY: mjs CLIENT: Terracon Consulting Eng. & Scientists - Lenexa

DATE/TIME RECEIVED: 8/3/11 09:15 PROJECT: Banister Complex

UNPACKED DATE/TIME: 8/3/11 12:20 LOGIN BY: [illegible] LOGIN REVIEWED BY: mjs

Number of Shipping Containers Received with COC: 1

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

1.0 CONTAINERS EXAMINED UPON RECEIPT: mjs

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: _____

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

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 approx. amt. of headspace (>6mm) 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: [signature] Date: 8/17/11

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE Revised 07/26/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

AUH0046

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

Client Contact Information		Project Manager: Wil King		1 of 1 COCs
Company: Terracon Consultants		Phone: 913-492-7777		Samples Collected By: WWK TEE
Address: 13910 W 98th Terr		Email: WWKing@terracon.com		
City/State/Zip Lenexa KS 66215		Site Contact:		
Phone: 913-492-7777		LAB Contact:		
FAX: 913-492-7443		Analysis Turnaround Time		
Project Name: GSA		Standard (Specify) X		
Site: Bannister Complex		Rush (Specity)		
PO # 02107144				

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)
Ambient North VOCs	7/29+30 2011	20:20	1954	-30	-6	7300105	6389	✓								X			
BISB-R2-VOCs	7/29+30 2011	20:00	20:00	7-30	-9	549937	252	✓							X				
BISB-Y18-VOCs	7/29+30 2011	19:41	19:44	-26	-6	7343491	5477	✓							X				
BISB-R16-Ext-VOCs	7/29+30 2011	18:22	18:22	7-30	-6	7342987	969	✓							X		8/3/11 GOOD		
BISB-R16-VOCs	7/29+30 2011	18:14	18:14	-27	-4	7343025	HL0618	✓							X				
BISB-R10-VOCs	7/29+30 2011	18:30	18:18	-29	-7	7342868	RA2303	✓							X				
Dup-VOCs	7/29+30 2011	19:32	19:32	7-30	-8	7301037	HL0961	✓							X				
trip Blank	7-29-11						101	✓											
BI-W8-WH VOCs	8/1+2 2011	11:01	11:01	-30	-4	7300991	5458	✓							X				

Special Instructions/QC Requirements & Comments:

Samples Shipped by: Tim Easley	Date/Time: 8-2-11 3:00 pm	Samples Received by: Melissa J. Toney 8/3/11 09:15
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
AUH0046-01	6389	8/27/2011 12:44:59 PM	-14.24	-2.750491	5.6	16.8	1	2.741632	2.741632
AUH0046-02	252	8/27/2011 12:45:00 PM	-14.24	-2.652259	5.4	16.8	1	2.71839	2.71839
AUH0046-03	5477	8/30/2011 4:39:44 PM	0	2	0	32	2.67307	2.796407	7.474992
AUH0046-03	5477	8/27/2011 12:45:17 PM	-14.24	-2.455796	5	16.8	1	2.67307	2.67307
AUH0046-04	969	8/27/2011 12:45:32 PM	-14.24	-2.554027	5.2	16.5	1	2.669868	2.669868
AUH0046-05	HL0618	8/27/2011 12:45:46 PM	-14.24	-2.652259	5.4	16.6	1	2.701131	2.701131
AUH0046-06	RA2303	8/27/2011 12:46:26 PM	-14.24	-2.848723	5.8	16.5	1	2.738938	2.738938
AUH0046-07	HL0961	8/27/2011 12:46:46 PM	-14.24	-2.259332	4.6	16.5	1	2.604195	2.604195
AUH0046-08	101	8/28/2011 2:10:07 PM	-14.7	0	0	0	1	1	1
AUH0046-09	5458	8/27/2011 12:47:31 PM	-14.24	-2.455796	5	16.8	1	2.67307	2.67307

PEER REVIEWED BY DTW

Initial Calibration

Response Factor Report GCMS-R1

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration

8-25-11

Calibration Files
20 =RA082414.D 50 =RA082415.D 100 =RA082416.D
250 =RA082417.D 500 =RA082418.D 750 =RA082419.D

1000 =RA082420.D 20A =RA082405.D 50A =RA082406.D 100A =RA082407.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	0.409	0.404	0.403	0.400	0.405	0.419	0.436	0.402	0.405	0.402	0.40874	2.50
3)	t	Ethylene	0.067	0.064	0.064	0.061	0.058	0.064	0.066				0.06344	4.66
4)	t	Acetylene	0.141	0.116	0.112	0.109	0.111	0.117	0.123				0.11842	9.33
5)	t	Ethane	0.051	0.044	0.040	0.031	0.029	0.026	0.027				0.03545	27.14
6)	t	Halocarbon 134A								0.273	0.239	0.220	0.22989	8.93
7)	t	Propylene	0.209	0.173	0.171	0.163	0.169	0.180	0.188				0.17898	8.66
8)	t	Chlorodifluorometha								0.641	0.552	0.511	0.52705	10.38
9)	t	Propane	0.102	0.079	0.078	0.075	0.076	0.080	0.085				0.08221	11.54
10)	t	Dichlorodifluoromet	1.306	1.013	1.018	0.955	0.932	0.957	0.967				1.02109	12.67
11)	t	Chloromethane	0.307	0.245	0.237	0.232	0.231	0.246	0.256				0.25071	10.43
12)	t	Isobutane	0.632	0.501	0.500	0.479	0.484	0.509	0.529				0.51901	10.10
13)	t	Halocarbon 114	1.165	0.935	0.881	0.835	0.820	0.845	0.866				0.90670	13.23
14)	t	Acetaldehyde								0.127	0.108	0.119	0.11350	6.31
15)	t	Vinyl chloride	0.352	0.274	0.268	0.262	0.265	0.283	0.293				0.28535	10.98
16)	t	1-Butene/Isobutene	0.441	0.362	0.347	0.338	0.341	0.359	0.371				0.36555	9.63
17)	t	1,3-Butadiene	0.278	0.227	0.220	0.214	0.214	0.221	0.227				0.22854	9.78
18)	t	n-Butane	0.559	0.457	0.430	0.416	0.417	0.435	0.453				0.45244	10.98
19)	t	Methanol								0.084	0.066	0.057	0.05760	23.12
20)	t	trans-2-Butene	0.415	0.340	0.323	0.311	0.313	0.329	0.338				0.33847	10.45
21)	t	Neopentane								1.061	0.932	0.863	0.90304	8.30
22)	t	Dichlorofluorometha								0.776	0.702	0.644	0.65682	9.29
23)	t	Bromomethane	0.327	0.264	0.250	0.240	0.243	0.254	0.262				0.26279	11.23
24)	t	cis-2-Butene	0.410	0.335	0.322	0.308	0.313	0.324	0.336				0.33533	10.31
25)	t	Chloroethane	0.190	0.151	0.142	0.136	0.138	0.147	0.153				0.15086	12.07
26)	t	Vinyl bromide								0.299	0.271	0.254	0.26098	7.03
27)	t	3-Methyl-1-butene	0.840	0.660	0.622	0.609	0.604	0.624	0.641				0.65714	12.58
28)	t	Ethanol								0.119	0.079	0.118	0.09257	19.91
29)	t	Acetonitrile								0.232	0.218	0.208	0.21444	3.98
30)	t	Acrolein								0.102	0.094	0.096	0.09670	3.55
31)	t	Isopentane	0.434	0.347	0.330	0.308	0.301	0.322	0.328				0.33859	13.16
32)	t	Trichlorofluorometh	1.219	0.990	0.925	0.857	0.832	0.828	0.815				0.92391	15.66
33)	t	1-Pentene	0.457	0.370	0.344	0.334	0.334	0.344	0.348				0.36147	12.10
34)	t	Acetone								0.626	0.554	0.521	0.52482	9.62
35)	T	2-Propanol								0.526	0.442	0.403	0.39617	18.31
36)	t	Acrylonitrile								0.194	0.170	0.173	0.17524	4.85
37)	t	n-Pentane	0.616	0.495	0.466	0.449	0.441	0.451	0.455				0.48193	12.79
38)	T	Diethyl ether								0.137	0.120	0.115	0.11951	6.80
39)	t	Isoprene	0.410	0.327	0.305	0.302	0.301	0.315	0.323				0.32632	11.79

40)	t	trans-2-Pentene	0.678	0.553	0.521	0.512	0.508	0.525	0.535				0.54743	10.87
41)	t	1,1-Dichloroethene	0.671	0.539	0.514	0.488	0.481	0.486	0.488				0.52371	13.02
42)	t	cis-2-Pentene	0.653	0.558	0.521	0.508	0.503	0.522	0.530				0.54209	9.57
43)	t	Methylene chloride	0.444	0.367	0.344	0.326	0.321	0.327	0.329				0.35114	12.56
44)	t	2-Methyl-2-butene	0.679	0.564	0.526	0.519	0.515	0.532	0.538				0.55322	10.44
45)	t	Carbon Disulfide								0.934	0.847	0.781	0.80356	8.09
46)	t	3-Chloropropene	0.379	0.336	0.312	0.305	0.301	0.309	0.312				0.32217	8.52
47)	t	Halocarbon 113	0.475	0.384	0.357	0.338	0.329	0.333	0.336				0.36445	14.42
48)	t	Neohexane	0.501	0.415	0.388	0.366	0.359	0.370	0.372				0.39594	12.63
49)	t	Cyclopentene	0.754	0.611	0.587	0.564	0.562	0.582	0.581				0.60595	11.12
50)	t	trans-1,2-Dichloroe	0.552	0.452	0.419	0.402	0.391	0.399	0.481				0.44222	13.14
51)	t	4-Methyl-1-pentene	0.507	0.414	0.383	0.371	0.368	0.373	0.459				0.41051	13.03
52)	T	1-Propanol								0.047	0.046	0.039	0.03770	18.18
53)	t	1,1-Dichloroethane	0.771	0.634	0.591	0.567	0.571	0.585	0.595				0.61623	11.65
54)	t	Cyclopentane	0.636	0.529	0.513	0.488	0.492	0.508	0.525				0.52737	9.57
55)	t	2,3-Dimethylbutane	0.879	0.710	0.663	0.645	0.645	0.676	0.696				0.70206	11.63
56)	T	Methyl tert-butyl e	1.004	0.858	0.828	0.807	0.816	0.855	0.886				0.86488	7.75
57)	t	Isohexane	0.453	0.359	0.340	0.328	0.326	0.343	0.355				0.35799	12.25
58)	t	Vinyl acetate								0.902	0.815	0.801	0.83538	4.53
59)	t	cis-4-Methyl-2-pent								0.603	0.559	0.523	0.54093	5.79
60)	t	trans-4-Methyl-2-pe								0.723	0.630	0.603	0.62581	7.12
61)	T	Butyraldehyde								0.055	0.050	0.048	0.05054	4.99
62)	t	2-Butanone								0.684	0.636	0.633	0.63716	3.78
63)	t	Chloroprene	0.721	0.597	0.556	0.570	0.572	0.584	0.585				0.59799	9.30
64)	t	3-Methylpentane	0.723	0.592	0.566	0.544	0.547	0.574	0.596				0.59181	10.32
65)	s	Fluorobenzene	0.902	0.917	0.910	0.970	1.046	1.117	1.173	0.865	0.868	0.882	0.97267	10.07
66)	t	2-Methyl-1-pentene	0.594	0.521	0.537	0.508	0.501	0.516	0.558				0.53365	6.12
67)	t	1-Hexene	0.435	0.328	0.341	0.329	0.310	0.330	0.311				0.34077	12.65
68)	t	cis-1,2-Dichloroeth	0.577	0.466	0.447	0.443	0.441	0.458	0.465				0.47086	10.18
69)	t	Bromochloromethane	0.265	0.214	0.204	0.198	0.197	0.206	0.212				0.21387	11.06
70)	t	2-Ethyl-1-butene								0.358	0.323	0.315	0.32848	4.95
71)	t	n-Hexane	0.558	0.467	0.457	0.451	0.464	0.488	0.509				0.48467	7.80
72)	t	Chloroform	0.947	0.778	0.712	0.703	0.702	0.722	0.721				0.75514	11.71
73)	t	cis-3-Hexene								0.440	0.405	0.387	0.40822	4.91
74)	t	trans-2-Hexene	0.670	0.590	0.553	0.565	0.581	0.609	0.629				0.59974	6.74
75)	t	2-Methyl-2-pentene								0.587	0.544	0.511	0.53084	5.18
76)	t	cis-3-Methyl-2-pent								0.440	0.386	0.374	0.39021	5.94
77)	t	cis-2-Hexene	0.574	0.505	0.492	0.494	0.512	0.545	0.558				0.52570	6.23
78)	t	Methylcyclopentane	0.706	0.610	0.579	0.564	0.581	0.610	0.633				0.61201	7.81
79)	t	1,2-Dichloroethane	0.726	0.631	0.561	0.575	0.572	0.583	0.570				0.60259	9.80
80)	t	2,4-Dimethylpentane	0.842	0.693	0.667	0.637	0.653	0.674	0.690				0.69380	9.87
81)	t	1,1,1-Trichloroetha	1.037	0.854	0.816	0.778	0.772	0.783	0.787				0.83238	11.37
82)	i	Chlorobenzene-d5	----------ISTD----------											
83)	T	Methylcyclopentene								2.163	2.012	1.889	1.82949	11.52
84)	t	Benzene	2.236	1.814	1.749	1.623	1.461	1.412	1.387				1.66879	17.97
85)	t	Carbon tetrachlorid	2.843	2.210	2.159	1.856	1.558	1.421	1.332				1.91116	28.03
86)	T	1-Butanol								0.577	0.534	0.527	0.52203	7.50
87)	t	Cyclohexane	1.631	1.345	1.278	1.092	0.968	0.909	0.897				1.16016	23.44
88)	t	Isoheptane	2.364	1.935	1.894	1.665	1.418	1.338	1.318				1.70453	22.61
89)	t	2,3-Dimethylpentane	2.065	1.639	1.570	1.368	1.199	1.135	1.109				1.44071	23.91
90)	T	Cyclohexene								1.523	1.387	1.263	1.22838	14.63
91)	t	3-Methylhexane	1.897	1.517	1.482	1.309	1.150	1.073	1.038				1.35235	22.60
92)	t	1,2-Dichloropropane	0.881	0.704	0.674	0.638	0.576	0.566	0.554				0.65615	17.44
93)	t	Bromodichloromethan	2.210	1.844	1.709	1.604	1.426	1.354	1.278				1.63194	19.86

94)	t	Trichloroethene	0.943	0.750	0.696	0.686	0.624	0.599	0.565				0.69490	18.18
95)	T	1,4-Dioxane								0.473	0.339	0.258	0.27088	37.67
96)	T	1-Heptene								0.739	0.693	0.661	0.64193	9.86
97)	t	2,2,4-Trimethylpent	5.598	4.471	4.303	3.782	3.269	3.091	2.998				3.93026	23.80
98)	t	2-Chloropentane	1.183	1.016	1.010	0.962	0.881	0.849	0.835				0.96244	12.70
99)	t	trans-3-Heptene								1.298	1.161	1.112	1.08986	10.99
100)	t	n-Heptane	0.870	0.695	0.712	0.644	0.588	0.571	0.562				0.66317	16.36
101)	T	cis-3-Heptene								1.295	1.237	1.172	1.12432	10.83
102)	T	trans-2-Heptene								1.035	1.017	0.964	0.95250	6.39
103)	T	2,4,4-Trimethyl-1-p								3.255	3.010	2.719	2.60919	16.01
104)	t	cis-1,3-Dichloropro	1.020	0.868	0.775	0.856	0.815	0.811	0.760				0.84361	10.32
105)	T	Methylisobutylketon								2.053	1.756	1.605	1.63046	13.38
106)	t	Methylcyclohexane	1.749	1.441	1.425	1.234	1.072	1.021	1.000				1.27726	21.62
107)	T	2,4,4-Trimethyl-2-p								2.494	2.291	2.084	1.98242	16.93
108)	T	2,5-Dimethylhexane								2.421	2.187	1.954	1.88878	17.20
109)	T	2,2,3-Trimethylpent								4.113	3.758	3.345	3.22586	17.42
110)	t	trans-1,3-Dichlorop	0.916	0.787	0.718	0.787	0.751	0.750	0.694				0.77188	9.33
111)	t	1,1,2-Trichloroetha	0.627	0.554	0.509	0.492	0.469	0.467	0.455				0.51043	11.99
112)	t	2,3,4-Trimethylpent	3.252	2.534	2.465	2.174	1.885	1.774	1.704				2.25554	24.24
113)	s	Toluene-d8	1.754	1.772	1.806	1.780	1.746	1.725	1.737	1.706	1.751	1.722	1.75488	1.60
114)	t	Toluene	1.848	1.543	1.498	1.475	1.405	1.404	1.382				1.50795	10.67
115)	s	1,4-Dichlorobutane	0.137	0.141	0.141	0.143	0.142	0.156	0.146	0.141	0.142	0.143	0.14162	3.56
116)	t	2-Hexanone								1.427	1.301	0.983	1.06823	19.35
117)	t	2-Methylheptane	2.186	1.798	1.794	1.534	1.407	1.314	1.270				1.61479	20.39
118)	T	1-Methylcyclohexene								1.370	1.323	1.234	1.21557	8.98
119)	t	Dibromochloromethan	1.157	0.990	0.927	0.888	0.827	0.808	0.761				0.90835	14.74
120)	t	3-Methylheptane	1.213	1.019	1.004	0.898	0.807	0.773	0.765				0.92558	17.74
121)	T	Hexanal								0.205	0.182	0.151	0.16680	11.88
122)	t	1,2-Dibromoethane	0.899	0.741	0.610	0.672	0.627	0.626	0.574				0.67832	16.36
123)	T	2,2,5-Trimethylhexa								4.899	4.543	4.097	3.91739	16.55
124)	T	1-Octene								0.789	0.727	0.721	0.71769	5.43
125)	t	n-Octane	1.787	1.587	1.606	1.503	1.394	1.346	1.306				1.50414	11.31
126)	t	Tetrachloroethene	0.711	0.596	0.550	0.536	0.511	0.508	0.496				0.55827	13.47
127)	T	cis-2-Octene								0.999	0.915	0.923	0.93602	3.72
128)	t	Chlorobenzene	0.941	0.827	0.774	0.763	0.741	0.751	0.728				0.78928	9.40
129)	t	Ethylbenzene	1.633	1.462	1.548	1.521	1.493	1.521	1.483				1.52283	3.69
130)	t	m/p-Xylene	1.482	1.327	1.349	1.310	1.273	1.277	1.233				1.32164	6.09
131)	t	Bromoform	0.698	0.591	0.562	0.534	0.504	0.499	0.470				0.55126	13.84
132)	T	Butyl acrylate								1.204	1.309	1.281	1.16271	12.44
133)	T	Heptanal								0.288	0.294	0.278	0.26820	8.70
134)	t	Styrene	0.691	0.594	0.608	0.613	0.613	0.634	0.619				0.62459	5.08
135)	t	1,1,2,2-Tetrachloro	1.043	0.841	0.833	0.815	1.047	1.067	1.100				0.96387	13.18
136)	t	o-Xylene	1.541	1.377	1.407	1.355	1.303	1.294	1.235				1.35868	7.27
137)	T	1-Nonene								0.560	0.561	0.564	0.58383	3.73
138)	t	cis-4-Nonene								1.194	1.173	1.130	1.17405	2.40
139)	t	trans-4-Nonene								1.213	1.155	1.089	1.12632	5.93
140)	t	n-Nonane	1.405	1.290	1.361	1.277	1.228	1.209	1.147				1.27385	6.97
141)	s	1,4-Bromofluorobenz	0.668	0.666	0.680	0.655	0.648	0.670	0.642	0.662	0.663	0.656	0.65748	2.07
142)	t	Isopropylbenzene	2.304	2.088	2.159	2.077	2.039	2.082	1.955				2.10060	5.17
143)	T	Benzaldehyde								0.566	0.626	0.479	0.53865	14.59
144)	t	alpha-Pinene	3.159	2.653	2.645	2.355	2.050	1.944	1.879				2.38357	19.55
145)	T	o/m-Chlorotoluene								1.027	0.939	0.902	0.93606	4.69
146)	T	p-Chlorotoluene								0.907	0.834	0.818	0.84188	3.83
147)	t	n-Propylbenzene	1.944	1.671	1.791	1.749	2.005	2.443	2.234				1.97675	14.09
148)	t	m-Ethyltoluene	1.453	1.254	1.316	1.331	1.820	2.041	2.073				1.61273	22.07

149)	t	p-Ethyltoluene	1.283	1.147	1.196	1.189	1.648	1.879	1.893				1.46195	22.87
150)	t	1,3,5-Trimethylbenz	1.570	1.376	1.389	1.477	1.978	2.015	2.111				1.70224	18.80
151)	t	o-Ethyltoluene	1.619	1.469	1.519	1.607	2.248	2.314	2.439				1.88778	22.44
152)	t	beta-Pinene	3.027	2.576	2.612	2.372	2.128	2.045	1.952				2.38765	15.94
153)	t	1,2,4-Trimethylbenz	1.313	1.121	1.129	1.403	1.858	1.901	2.038				1.53773	25.09
154)	T	tert-Butylbenzene								1.983	1.896	1.885	1.98826	5.13
155)	T	1-Decene								0.428	0.391	0.386	0.52108	28.11
156)	t	Benzyl chloride	0.788	0.555	0.454	1.019	1.038	1.141	1.261				0.89379	33.94
157)	t	m-Dichlorobenzene	0.561	0.464	0.460	0.534	0.783	0.784	0.867				0.63605	26.72
158)	t	n-Decane	1.761	1.381	1.172	1.664	1.591	1.587	1.612				1.53827	12.87
159)	t	p-Dichlorobenzene	0.515	0.432	0.420	0.557	0.763	0.754	0.829				0.61008	27.77
160)	T	Isobutylbenzene								1.732	1.654	1.623	2.08561	24.73
161)	t	1,2,3-Trimethylbenz	1.610	1.264	1.247	2.032	2.068	2.129	2.247				1.79965	23.39
162)	T	p-Isopropyltoluene								1.402	1.237	1.197	1.79579	34.63
163)	t	o-Dichlorobenzene	0.631	0.486	0.420	0.773	0.812	0.834	0.939				0.69945	27.46
164)	T	Limonene								0.724	0.727	0.691	0.94127	28.72
165)	T	Indan								0.801	0.709	0.689	1.03439	38.19
166)	T	Indene								0.553	0.501	0.484	0.90363	52.60
167)	t	m-Diethylbenzene	1.731	1.408	1.019	1.578	1.477	1.589	1.617				1.48844	15.54
168)	t	p-Diethylbenzene	1.424	1.129	0.818	1.297	1.198	1.345	1.381				1.22752	16.94
169)	T	n-Butylbenzene								1.427	1.202	1.009	1.73340	32.97
170)	T	1-Undecene								0.819	0.905	0.850	0.86908	3.82
171)	T	n-Undecane								1.908	2.159	2.115	2.12773	4.90
172)	t	1,2,4-Trichlorobenz	0.799	0.758	0.864	0.762	0.590	0.584	0.927				0.75482	17.10
173)	T	Naphthalene								1.729	2.099	2.082	2.34807	16.91
174)	t	Hexachloro-1,3-buta	1.368	1.246	1.342	1.201	0.889	0.780	1.086				1.13022	19.87

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

RA110824.M Thu Aug 25 13:00:26 2011 DAH

Calibration Table Report

Method: RA110824.M

Title:

Last Calibration: Thu Aug 25 12:26:45 2011

8-25-11

Calibration Files

Compound	20	50	100	250	500	750	1000	20A	50A	100A	250A	500A	750A	999A	Avg	%RSD
	RA082414.	RA082415.	RA082416.	RA082417.	RA082418.	RA082419.	RA082420.	RA082405.	RA082406.	RA082407.	RA082408.	RA082409.1	RA082410.	RA082411.D		
1,1-Dichloro-1-Fluoroethane	ISTD															
2-Bromo-1,1,1-trifluoroethane	0.409	0.404	0.403	0.400	0.405	0.419	0.436	0.402	0.405	0.402	0.402	0.401	0.413	0.422	0.40874	2.50
Ethylene	0.067	0.064	0.064	0.061	0.058	0.064	0.066								0.06344	4.66
Acetylene	0.141	0.116	0.112	0.109	0.111	0.117	0.123								0.11842	9.33
Ethane	0.051	0.044	0.040	0.031	0.029	0.026	0.027								0.03545	27.14
Halocarbon 134A								0.273	0.239	0.220	0.218	0.214	0.220	0.226	0.22989	8.93
Propylene	0.209	0.173	0.171	0.163	0.169	0.180	0.188								0.17898	8.66
Chlorodifluoromethane								0.641	0.552	0.511	0.500	0.487	0.495	0.502	0.52705	10.38
Propane	0.102	0.079	0.078	0.075	0.076	0.080	0.085					0.487			0.08221	11.54
Dichlorodifluoromethane	1.306	1.013	1.018	0.955	0.932	0.957	0.967						8-25-11		1.02109	12.67
Chloromethane	0.307	0.245	0.237	0.232	0.231	0.246	0.256								0.25071	10.43
Isobutane	0.632	0.501	0.500	0.479	0.484	0.509	0.529								0.51901	10.10
Halocarbon 114	1.165	0.935	0.881	0.835	0.820	0.845	0.866								0.90670	13.23
Acetaldehyde								0.127	0.108	0.119	0.109	0.108	0.111	0.113	0.11350	6.31
Vinyl chloride	0.352	0.274	0.268	0.262	0.265	0.283	0.293								0.28535	10.98
1-Butene/Isobutene	0.441	0.362	0.347	0.338	0.341	0.359	0.371								0.36555	9.63
1,3-Butadiene	0.278	0.227	0.220	0.214	0.214	0.221	0.227								0.22854	9.78
n-Butane	0.559	0.457	0.430	0.416	0.417	0.435	0.453								0.45244	10.98
Methanol					0.417			0.084	0.066	0.057	0.051	0.048	0.049	0.048	0.05760	23.12
trans-2-Butene	0.415	0.340	0.323	0.311	0.313	0.329	0.338								0.33847	10.45
Neopentane								1.061	0.932	0.863	0.863	0.843	0.870	0.889	0.90304	8.30
Dichlorofluoromethane								0.776	0.702	0.644	0.629	0.610	0.616	0.620	0.65682	9.29
Bromomethane	0.327	0.264	0.250	0.240	0.243	0.254	0.262								0.26279	11.23
cis-2-Butene	0.410	0.335	0.322	0.308	0.313	0.324	0.336								0.33533	10.31
Chloroethane	0.190	0.151	0.142	0.136	0.138	0.147	0.153								0.15086	12.07
Vinyl bromide								0.299	0.271	0.254	0.249	0.246	0.251	0.257	0.26098	7.03
3-Methyl-1-butene	0.840	0.660	0.622	0.609	0.604	0.624	0.641								0.65714	12.58
Ethanol								0.119	0.079	0.118	0.091	0.083	0.082	0.075	0.09257	19.91
Acetonitrile								0.232	0.218	0.208	0.208	0.207	0.213	0.215	0.21444	3.98
Acrolein								0.102	0.094	0.096	0.093	0.093	0.099	0.100	0.09670	3.55
Isopentane	0.434	0.347	0.330	0.308	0.301	0.322	0.328								0.33859	13.16
Trichlorofluoromethane	1.219	0.990	0.925	0.857	0.832	0.828	0.815								0.92391	15.66
1-Pentene	0.457	0.370	0.344	0.334	0.334	0.344	0.348								0.36147	12.10
Acetone								0.626	0.554	0.521	0.501	0.485	0.492	0.494	0.52482	9.62
2-Propanol								0.526	0.442	0.403	0.377	0.379	0.348	0.299	0.39617	18.31
Acrylonitrile								0.194	0.170	0.173	0.171	0.170	0.172	0.178	0.17524	4.85
n-Pentane	0.616	0.495	0.466	0.449	0.441	0.451	0.455								0.48193	12.79
Diethyl ether								0.137	0.120	0.115	0.117	0.114	0.116	0.118	0.11951	6.80
Isoprene	0.410	0.327	0.305	0.302	0.301	0.315	0.323								0.32632	11.79
trans-2-Pentene	0.678	0.553	0.521	0.512	0.508	0.525	0.535								0.54743	10.87
1,1-Dichloroethene	0.671	0.539	0.514	0.488	0.481	0.486	0.488								0.52371	13.02
cis-2-Pentene	0.653	0.558	0.521	0.508	0.503	0.522	0.530								0.54209	9.57
Methylene chloride	0.444	0.367	0.344	0.326	0.321	0.327	0.329								0.35114	12.56
2-Methyl-2-butene	0.679	0.564	0.526	0.519	0.515	0.532	0.538								0.55322	10.44
Carbon Disulfide								0.934	0.847	0.781	0.775	0.749	0.766	0.773	0.80356	8.09
3-Chloropropene	0.379	0.336	0.312	0.305	0.301	0.309	0.312								0.32217	8.52
Halocarbon 113	0.475	0.384	0.357	0.338	0.329	0.333	0.336								0.36445	14.42
Neohexane	0.501	0.415	0.388	0.366	0.359	0.370	0.372								0.39594	12.63
Cyclopentene	0.754	0.611	0.587	0.564	0.562	0.582	0.581								0.60595	11.12
trans-1,2-Dichloroethene	0.552	0.452	0.419	0.402	0.391	0.399	0.481								0.44222	13.14
4-Methyl-1-pentene	0.507	0.414	0.383	0.371	0.368	0.373	0.459								0.41051	13.03
1-Propanol								0.047	0.046	0.039	0.035	0.037	0.033	0.028	0.03770	18.18
1,1-Dichloroethane	0.771	0.634	0.591	0.567	0.571	0.585	0.595								0.61623	11.65
Cyclopentane	0.636	0.529	0.513	0.488	0.492	0.508	0.525								0.52737	9.57
2,3-Dimethylbutane	0.879	0.710	0.663	0.645	0.645	0.676	0.696								0.70206	11.63
Methyl tert-butyl ether	1.004	0.858	0.828	0.807	0.816	0.855	0.886								0.86488	7.75
Isohexane	0.453	0.359	0.340	0.328	0.326	0.343	0.355								0.35800	12.25

	Vinyl acetate								0.902	0.815	0.801	0.828	0.795	0.844	0.863	0.83538	4.53
	cis-4-Methyl-2-pentene								0.603	0.559	0.523	0.519	0.515	0.527	0.541	0.54093	5.79
	trans-4-Methyl-2-pentene								0.723	0.630	0.603	0.600	0.592	0.611	0.621	0.62581	7.12
	Butyraldehyde								0.055	0.050	0.048	0.049	0.049	0.051	0.052	0.05054	4.99
	2-Butanone								0.684	0.636	0.633	0.624	0.605	0.635	0.643	0.63716	3.78
	Chloroprene	0.721	0.597	0.556	0.570	0.572	0.584	0.585								0.59739	9.30
	3-Methylpentane	0.723	0.592	0.566	0.544	0.547	0.574	0.596								0.59181	10.32
	Fluorobenzene	0.902	0.917	0.910	0.970	1.046	1.117	1.173	0.865	0.868	0.882	0.921	0.947	1.034	1.065	0.97267	10.07
	2-Methyl-1-pentene	0.594	0.521	0.537	0.508	0.501	0.516	0.558								0.53365	6.12
	1-Hexene	0.435	0.328	0.341	0.329	0.310	0.330	0.311								0.34077	12.65
	cis-1,2-Dichloroethene	0.577	0.466	0.447	0.443	0.441	0.458	0.465								0.47086	10.18
	Bromochloromethane	0.265	0.214	0.204	0.198	0.197	0.206	0.212								0.21387	11.06
	2-Ethyl-1-butene								0.358	0.323	0.315	0.314	0.318	0.331	0.340	0.32848	4.95
	n-Hexane	0.558	0.467	0.457	0.451	0.464	0.488	0.509								0.48467	7.80
	Chloroform	0.947	0.778	0.712	0.703	0.702	0.722	0.721								0.75514	11.71
	cis-3-Hexene								0.440	0.405	0.387	0.390	0.393	0.416	0.427	0.40823	4.91
	trans-2-Hexene	0.670	0.590	0.553	0.565	0.581	0.609	0.629								0.59974	6.74
	2-Methyl-2-pentene								0.587	0.544	0.511	0.514	0.508	0.523	0.528	0.53084	5.18
	cis-3-Methyl-2-pentene								0.440	0.386	0.374	0.376	0.374	0.386	0.395	0.39021	5.94
	cis-2-Hexene	0.574	0.505	0.492	0.494	0.512	0.545	0.558								0.52570	6.23
	Methylcyclopentane	0.706	0.610	0.579	0.564	0.581	0.610	0.633								0.61201	7.81
	1,2-Dichloroethane	0.726	0.631	0.561	0.575	0.572	0.583	0.570								0.60260	9.80
	2,4-Dimethylpentane	0.842	0.693	0.667	0.637	0.653	0.674	0.690								0.69380	9.87
	1,1,1-Trichloroethane	1.037	0.854	0.816	0.778	0.772	0.783	0.787								0.83238	11.37
	Chlorobenzene-d5	ISTD	0.439	0.383	0.499	0.606	0.607	0.756								0.54399	22.78
	Methylcyclopentene								2.163	2.012	1.889	1.821	1.727	1.615	1.580	1.82949	11.52
	Benzene	2.236	1.814	1.749	1.623	1.461	1.412	1.387								1.66879	17.97
	Carbon tetrachloride	2.843	2.210	2.159	1.856	1.558	1.421	1.332								1.91116	28.03
	1-Butanol								0.577	0.534	0.527	0.502	0.471			0.52203	7.50
	Cyclohexane	1.631	1.345	1.278	1.092	0.968	0.909	0.897								1.16016	23.44
	Isoheptane	2.364	1.935	1.894	1.665	1.418	1.338	1.318								1.70453	22.61
	2,3-Dimethylpentane	2.065	1.639	1.570	1.368	1.199	1.135	1.109								1.44071	23.91
	Cyclohexene								1.523	1.387	1.263	1.210	1.140	1.046	1.030	1.22838	14.63
	3-Methylhexane	1.897	1.517	1.482	1.309	1.150	1.073	1.038								1.35235	22.60
	1,2-Dichloropropane	0.881	0.704	0.674	0.638	0.576	0.566	0.554								0.65615	17.44
	Bromodichloromethane	2.210	1.844	1.709	1.604	1.426	1.354	1.278								1.63194	19.86
	Trichloroethene	0.943	0.750	0.696	0.686	0.624	0.599	0.565								0.69490	18.18
	1,4-Dioxane								0.473	0.339	0.258	0.201	0.202	0.214	0.208	0.27088	37.67
	1-Heptene								0.739	0.693	0.661	0.649	0.614	0.574	0.563	0.64193	9.86
	2,2,4-Trimethylpentane	5.598	4.471	4.303	3.782	3.269	3.091	2.998								3.93026	23.80
	2-Chloropentane	1.183	1.016	1.010	0.962	0.881	0.849	0.835								0.96244	12.70
	trans-3-Heptene								1.298	1.161	1.112	1.095	1.045	0.976	0.942	1.08986	10.99
	n-Heptane	0.870	0.695	0.712	0.644	0.588	0.571	0.562								0.66317	16.36
	cis-3-Heptene								1.295	1.237	1.172	1.132	1.076	0.994	0.964	1.12432	10.83
	trans-2-Heptene								1.035	1.017	0.964	0.955	0.938	0.885	0.873	0.95250	6.39
	2,4,4-Trimethyl-1-pentene								3.255	3.010	2.719	2.564	2.405	2.188	2.124	2.60919	16.01
	cis-1,3-Dichloropropene	1.02	0.868	0.775	0.856	0.815	0.811	0.76								0.84361	10.32
	Methylisobutylketone								2.053	1.756	1.605	1.6	1.544	1.447	1.410	1.63046	13.38
	Methylcyclohexane	1.749	1.441	1.425	1.234	1.072	1.021	1								1.27726	21.62
	2,4,4-Trimethyl-2-pentene								2.494	2.291	2.084	1.964	1.829	1.646	1.568	1.98242	16.93
	2,5-Dimethylhexane								2.421	2.187	1.954	1.824	1.732	1.575	1.528	1.88878	17.20
	2,2,3-Trimethylpentane								4.113	3.758	3.345	3.175	2.943	2.667	2.581	3.22586	17.42
	trans-1,3-Dichloropropene	0.916	0.787	0.718	0.787	0.751	0.75	0.694								0.77188	9.33
	1,1,2-Trichloroethane	0.627	0.554	0.509	0.492	0.469	0.467	0.455								0.51043	11.99
	2,3,4-Trimethylpentane	3.252	2.534	2.465	2.174	1.885	1.774	1.704								2.25554	24.24
	Toluene-d8	1.754	1.772	1.806	1.78	1.746	1.725	1.737	1.706	1.751	1.722	1.773	1.795	1.754	1.747	1.75488	1.60
	Toluene	1.848	1.543	1.498	1.475	1.405	1.404	1.382								1.50795	10.67
	1,4-Dichlorobutane	0.137	0.141	0.141	0.143	0.142	0.156	0.146	0.141	0.142	0.143	0.139	0.14	0.136	0.136	0.14162	3.56
	2-Hexanone								1.427	1.301	0.983	0.977	0.936	0.924	0.929	1.06823	19.35
	2-Methylheptane	2.186	1.798	1.794	1.534	1.407	1.314	1.27								1.61479	20.39
	1-Methylcyclohexene								1.37	1.323	1.234	1.228	1.184	1.093	1.076	1.21557	8.98
	Dibromochloromethane	1.157	0.99	0.927	0.888	0.827	0.808	0.761								0.90835	14.74
	3-Methylheptane	1.213	1.019	1.004	0.898	0.807	0.773	0.765								0.92558	17.74
	Hexanal								0.205	0.182	0.151	0.155	0.158	0.156	0.160	0.16680	11.88
	1,2-Dibromoethane	0.899	0.741	0.61	0.672	0.627	0.626	0.574								0.67832	16.36
	2,2,5-Trimethylhexane								4.899	4.543	4.097	3.878	3.6	3.267	3.137	3.91739	16.55
	1-Octene								0.789	0.727	0.721	0.723	0.716	0.677	0.670	0.71769	5.43

	n-Octane	1.787	1.587	1.606	1.503	1.394	1.346	1.306								1.50414	11.31
	Tetrachloroethene	0.711	0.596	0.55	0.536	0.511	0.508	0.496								0.55828	13.47
	cis-2-Octene								0.999	0.915	0.923	0.952	0.954	0.908	0.900	0.93602	3.72
	Chlorobenzene	0.941	0.827	0.774	0.763	0.741	0.751	0.728								0.78928	9.40
	Ethylbenzene	1.633	1.462	1.548	1.521	1.493	1.521	1.483								1.52283	3.69
	m/p-Xylene	1.482	1.327	1.349	1.31	1.273	1.277	1.233								1.32164	6.09
	Bromoform	0.698	0.591	0.562	0.534	0.504	0.499	0.47								0.55126	13.84
	Butyl acrylate								1.204	1.309	1.281	0.93	0.996	1.175	1.243	1.16271	12.44
	Heptanal								0.288	0.294	0.278	0.232	0.241	0.266	0.279	0.26820	8.70
	Styrene	0.691	0.594	0.608	0.613	0.613	0.634	0.619								0.62459	5.08
	1,1,2,2-Tetrachloroethane	1.043	0.841	0.833	0.815	1.047	1.067	1.1								0.96387	13.18
	o-Xylene	1.541	1.377	1.407	1.355	1.303	1.294	1.235								1.35868	7.27
	1-Nonene								0.56	0.561	0.564	0.597	0.609	0.591	0.606	0.58383	3.73
	cis-4-Nonene								1.194	1.173	1.13	1.209	1.197	1.153	1.162	1.17405	2.40
	trans-4-Nonene								1.213	1.155	1.089	1.158	1.179	1.038	1.052	1.12632	5.93
	n-Nonane	1.405	1.29	1.361	1.277	1.228	1.209	1.147								1.27385	6.97
	1,4-Bromofluorobenzene	0.668	0.666	0.68	0.655	0.648	0.67	0.642	0.662	0.663	0.656	0.672	0.648	0.638	0.636	0.65748	2.07
	Isopropylbenzene	2.304	2.088	2.159	2.077	2.039	2.082	1.955								2.10060	5.17
	Benzaldehyde								0.566	0.626	0.479	0.39	0.555	0.574	0.580	0.53865	14.59
	alpha-Pinene	3.159	2.653	2.645	2.355	2.05	1.944	1.879								2.38357	19.55
	o/m-Chlorotoluene								1.027	0.939	0.902	0.944	0.916	0.895	0.931	0.93606	4.69
	p-Chlorotoluene								0.907	0.834	0.818	0.843	0.822	0.813	0.856	0.84188	3.83
	n-Propylbenzene	1.944	1.671	1.791	1.749	2.005	2.443	2.234								1.97675	14.09
	m-Ethyltoluene	1.453	1.254	1.316	1.331	1.82	2.041	2.073								1.61273	22.07
	p-Ethyltoluene	1.283	1.147	1.196	1.189	1.648	1.879	1.893								1.46195	22.87
	1,3,5-Trimethylbenzene	1.57	1.376	1.389	1.477	1.978	2.015	2.111								1.70224	18.80
	o-Ethyltoluene	1.619	1.469	1.519	1.607	2.248	2.314	2.439								1.88778	22.44
	beta-Pinene	3.027	2.576	2.612	2.372	2.128	2.045	1.952								2.38765	15.94
	1,2,4-Trimethylbenzene	1.313	1.121	1.129	1.403	1.858	1.901	2.038								1.53773	25.09
	tert-Butylbenzene								1.983	1.896	1.885	1.914	2.007	2.068	2.164	1.98826	5.13
	1-Decene								0.428	0.391	0.386	0.416	0.635	0.678	0.712	0.52108	28.11
	Benzyl chloride	0.788	0.555	0.454	1.019	1.038	1.141	1.261								0.89379	33.94
	m-Dichlorobenzene	0.561	0.464	0.46	0.534	0.783	0.784	0.867								0.63605	26.72
	n-Decane	1.761	1.381	1.172	1.664	1.591	1.587	1.612								1.53827	12.87
	p-Dichlorobenzene	0.515	0.432	0.42	0.557	0.763	0.754	0.829								0.61008	27.77
	Isobutylbenzene								1.732	1.654	1.623	1.748	2.351	2.665	2.828	2.08561	24.73
	1,2,3-Trimethylbenzene	1.61	1.264	1.247	2.032	2.068	2.129	2.247								1.79965	23.39
	p-Isopropyltoluene								1.402	1.237	1.197	1.365	2.459	2.446	2.464	1.79579	34.63
	o-Dichlorobenzene	0.631	0.486	0.42	0.773	0.812	0.834	0.939								0.69945	27.46
	Limonene								0.724	0.727	0.691	0.762	1.179	1.236	1.269	0.94127	28.72
	Indan								0.801	0.709	0.689	0.721	1.25	1.462	1.608	1.03439	38.19
	Indene								0.553	0.501	0.484	0.556	1.378	1.409	1.445	0.90363	52.60
	m-Diethylbenzene	1.731	1.408	1.019	1.578	1.477	1.589	1.617								1.48844	15.54
	p-Diethylbenzene	1.424	1.129	0.818	1.297	1.198	1.345	1.381								1.22752	16.94
	n-Butylbenzene								1.427	1.202	1.009	1.55	2.394	2.273	2.278	1.73340	32.97
	1-Undecene								0.819	0.905	0.85	0.888	0.906	0.842	0.874	0.86908	3.82
	n-Undecane								1.908	2.159	2.115	2.199	2.22	2.118	2.174	2.12773	4.90
	1,2,4-Trichlorobenzene	0.799	0.758	0.864	0.762	0.59	0.584	0.927								0.75482	17.10
	Naphthalene								1.729	2.099	2.082	2.369	2.757	2.615	2.785	2.34807	16.91
	Hexachloro-1,3-butadiene	1.368	1.246	1.342	1.201	0.889	0.78	1.086					2.757			1.13022	19.87
						0.889								8-25-11			
	Thu Aug 25 13:02:17 2011					8-25-11											

Compound List Report GCMS-R1

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
Total Cpnds : 174

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,1-Dichloro-1-Fluoroethane	81	11.63	1.000	A	3	A	B
2	S	2-Bromo-1,1,1-trifluoroethane	83	10.49	0.902	A	3	A	B
3	T	Ethylene	26	3.43	0.295	A	3	A	B
4	T	Acetylene	26	3.54	0.304	A	3	A	B
5	T	Ethane	26	3.62	0.312	A	2	A	B
6	T	Halocarbon 134A	69	4.42	0.380	A	3	A	B
7	T	Propylene	41	5.21	0.448	A	3	A	B
8	T	Chlorodifluoromethane	51	5.56	0.479	A	3	A	B
9	T	Propane	43	5.36	0.461	A	3	A	B
10	T	Dichlorodifluoromethane	85	5.88	0.505	A	3	A	B
11	T	Chloromethane	50	6.72	0.578	A	3	A	B
12	T	Isobutane	43	7.37	0.634	A	3	A	B
13	T	Halocarbon 114	85	7.58	0.652	A	3	A	B
14	T	Acetaldehyde	44	7.54	0.648	A	3	A	B
15	T	Vinyl chloride	62	7.81	0.672	A	3	A	B
16	T	1-Butene/Isobutene	41	8.25	0.709	A	3	A	B
17	T	1,3-Butadiene	39	8.36	0.719	A	3	A	B
18	T	n-Butane	43	8.51	0.732	A	3	A	B
19	T	Methanol	31	8.31	0.714	A	1	A	B
20	T	trans-2-Butene	41	8.89	0.765	A	3	A	B
21	T	Neopentane	57	8.93	0.768	A	3	A	B
22	T	Dichlorofluoromethane	67	10.18	0.875	A	3	A	B
23	T	Bromomethane	94	9.05	0.778	A	3	A	B
24	T	cis-2-Butene	41	9.37	0.806	A	3	A	B
25	T	Chloroethane	64	9.64	0.829	A	3	A	B
26	T	Vinyl bromide	106	10.41	0.896	A	3	A	B
27	T	3-Methyl-1-butene	55	10.45	0.899	A	3	A	B
28	T	Ethanol	45	10.46	0.900	A	2	A	B
29	T	Acetonitrile	41	10.61	0.912	A	3	A	B
30	T	Acrolein	56	10.84	0.932	A	3	A	B
31	T	Isopentane	41	11.08	0.953	A	3	A	B
32	T	Trichlorofluoromethane	101	11.35	0.976	A	3	A	B
33	T	1-Pentene	42	11.66	1.003	A	3	A	B
34	T	Acetone	43	11.13	0.958	A	2	A	B
35	T	2-Propanol	45	11.88	1.022	A	3	A	B
36	T	Acrylonitrile	52	12.06	1.038	A	3	A	B
37	T	n-Pentane	43	12.08	1.039	A	3	A	B
38	T	Diethyl ether	74	12.25	1.054	A	3	A	B
39	T	Isoprene	67	12.26	1.054	A	3	A	B
40	T	trans-2-Pentene	55	12.41	1.068	A	3	A	B
41	T	1,1-Dichloroethene	61	12.50	1.075	A	3	A	B
42	T	cis-2-Pentene	55	12.71	1.093	A	3	A	B
43	T	Methylene chloride	49	12.83	1.104	A	3	A	B
44	T	2-Methyl-2-butene	55	12.90	1.109	A	3	A	B
45	T	Carbon Disulfide	76	12.92	1.112	A	1	A	B
46	T	3-Chloropropene	41	13.00	1.118	A	2	A	B
47	T	Halocarbon 113	151	13.30	1.144	A	3	A	B
48	T	Neohexane	43	13.46	1.158	A	3	A	B
49	T	Cyclopentene	67	14.17	1.218	A	3	A	B
50	T	trans-1,2-Dichloroethene	61	14.33	1.233	A	3	A	B
51	T	4-Methyl-1-pentene	43	14.37	1.236	A	3	A	B
52	T	1-Propanol	59	14.31	1.231	A	3	A	B
53	T	1,1-Dichloroethane	63	14.62	1.258	A	3	A	B
54	T	Cyclopentane	42	14.61	1.257	A	3	A	B
55	T	2,3-Dimethylbutane	43	14.72	1.266	A	3	A	B
56	T	Methyl tert-butyl ether	73	14.80	1.273	A	3	A	B
57	T	Isohexane	42	14.93	1.284	A	3	A	B
58	T	Vinyl acetate	43	15.03	1.292	A	2	A	B
59	T	cis-4-Methyl-2-pentene	69	14.86	1.279	A	3	A	B
60	T	trans-4-Methyl-2-pentene	69	14.99	1.290	A	3	A	B
61	T	Butyraldehyde	72	15.09	1.298	A	3	A	B
62	T	2-Butanone	43	15.31	1.317	A	3	A	B
63	T	Chloroprene	53	15.50	1.333	A	3	A	B
64	T	3-Methylpentane	57	15.53	1.336	A	3	A	B
65	S	Fluorobenzene	96	18.99	1.634	A	2	A	B

66	T	2-Methyl-1-pentene	56	15.76	1.355	A	3	A	B
67	T	1-Hexene	41	15.80	1.359	A	3	A	B
68	T	cis-1,2-Dichloroethene	61	15.93	1.370	A	3	A	B
69	T	Bromochloromethane	130	16.16	1.390	A	3	A	B
70	T	2-Ethyl-1-butene	69	16.25	1.398	A	3	A	B
71	T	n-Hexane	57	16.29	1.401	A	3	A	B
72	T	Chloroform	83	16.40	1.411	A	3	A	B
73	T	cis-3-Hexene	55	16.43	1.413	A	3	A	B
74	T	trans-2-Hexene	55	16.51	1.420	A	3	A	B
75	T	2-Methyl-2-pentene	41	16.60	1.428	A	3	A	B
76	T	cis-3-Methyl-2-pentene	69	16.72	1.438	A	3	A	B
77	T	cis-2-Hexene	55	16.91	1.454	A	3	A	B
78	T	Methylcyclopentane	56	17.43	1.499	A	3	A	B
79	T	1,2-Dichloroethane	62	17.45	1.501	A	3	A	B
80	T	2,4-Dimethylpentane	43	17.61	1.515	A	3	A	B
81	T	1,1,1-Trichloroethane	97	17.79	1.531	A	3	A	B
82	I	Chlorobenzene-d5	117	26.16	1.000	A	3	A	B
83	T	Methylcyclopentene	67	18.43	0.705	A	3	A	B
84	T	Benzene	78	18.48	0.706	A	3	A	B
85	T	Carbon tetrachloride	117	18.70	0.715	A	3	A	B
86	T	1-Butanol	56	18.66	0.713	A	3	A	B
87	T	Cyclohexane	56	18.87	0.721	A	3	A	B
88	T	Isoheptane	43	19.27	0.737	A	3	A	B
89	T	2,3-Dimethylpentane	56	19.34	0.739	A	3	A	B
90	T	Cyclohexene	67	19.57	0.748	A	3	A	B
91	T	3-Methylhexane	43	19.65	0.751	A	3	A	B
92	T	1,2-Dichloropropane	63	19.75	0.755	A	3	A	B
93	T	Bromodichloromethane	83	20.07	0.767	A	3	A	B
94	T	Trichloroethene	130	20.14	0.770	A	3	A	B
95	T	1,4-Dioxane	88	20.16	0.771	A	3	A	B
96	T	1-Heptene	55	20.19	0.772	A	3	A	B
97	T	2,2,4-Trimethylpentane	57	20.22	0.773	A	3	A	B
98	T	2-Chloropentane	70	20.45	0.782	A	3	A	B
99	T	trans-3-Heptene	41	20.60	0.788	A	3	A	B
100	T	n-Heptane	71	20.70	0.791	A	3	A	B
101	T	cis-3-Heptene	41	20.74	0.793	A	3	A	B
102	T	trans-2-Heptene	55	20.89	0.799	A	3	A	B
103	T	2,4,4-Trimethyl-1-pentene	57	21.15	0.808	A	3	A	B
104	T	cis-1,3-Dichloropropene	75	21.54	0.823	A	3	A	B
105	T	Methylisobutylketone	43	21.63	0.827	A	3	A	B
106	T	Methylcyclohexane	83	21.61	0.826	A	3	A	B
107	T	2,4,4-Trimethyl-2-pentene	55	21.89	0.837	A	3	A	B
108	T	2,5-Dimethylhexane	57	22.08	0.844	A	3	A	B
109	T	2,2,3-Trimethylpentane	57	22.17	0.848	A	3	A	B
110	T	trans-1,3-Dichloropropene	75	22.41	0.857	A	3	A	B
111	T	1,1,2-Trichloroethane	97	22.65	0.866	A	3	A	B
112	T	2,3,4-Trimethylpentane	43	22.87	0.874	A	3	A	B
113	S	Toluene-d8	98	22.92	0.876	A	2	A	B
114	T	Toluene	91	23.09	0.883	A	3	A	B
115	S	1,4-Dichlorobutane	90	28.05	1.072	A	3	A	B
116	T	2-Hexanone	43	23.63	0.903	A	3	A	B
117	T	2-Methylheptane	43	23.53	0.899	A	3	A	B
118	T	1-Methylcyclohexene	81	23.53	0.900	A	3	A	B
119	T	Dibromochloromethane	129	23.77	0.909	A	3	A	B
120	T	3-Methylheptane	85	23.85	0.912	A	3	A	B
121	T	Hexanal	44	24.02	0.918	A	3	A	B
122	T	1,2-Dibromoethane	107	24.17	0.924	A	3	A	B
123	T	2,2,5-Trimethylhexane	57	24.29	0.929	A	3	A	B
124	T	1-Octene	55	24.45	0.935	A	3	A	B
125	T	n-Octane	43	24.92	0.953	A	3	A	B
126	T	Tetrachloroethene	164	25.02	0.957	A	3	A	B
127	T	cis-2-Octene	55	25.40	0.971	A	3	A	B
128	T	Chlorobenzene	112	26.23	1.003	A	3	A	B
129	T	Ethylbenzene	91	26.98	1.031	A	3	A	B
130	T	m/p-Xylene	91	27.35	1.046	A	3	A	B
131	T	Bromoform	173	27.38	1.047	A	3	A	B
132	T	Butyl acrylate	55	27.95	1.069	A	3	A	B
133	T	Heptanal	70	28.09	1.074	A	3	A	B
134	T	Styrene	104	28.02	1.071	A	3	A	B
135	T	1,1,2,2-Tetrachloroethane	83	28.23	1.079	A	3	A	B
136	T	o-Xylene	91	28.23	1.079	A	3	A	B
137	T	1-Nonene	56	28.41	1.086	A	3	A	B
138	T	cis-4-Nonene	55	28.59	1.093	A	3	A	B
139	T	trans-4-Nonene	55	28.68	1.096	A	3	A	B

140	T	n-Nonane	43	28.84	1.103	A	3	A	B
141	S	1,4-Bromofluorobenzene	95	29.14	1.114	A	3	A	B
142	T	Isopropylbenzene	105	29.46	1.126	A	3	A	B
143	T	Benzaldehyde	77	30.16	1.153	A	3	A	B
144	T	alpha-Pinene	93	30.24	1.156	A	3	A	B
145	T	o/m-Chlorotoluene	91	30.42	1.163	A	3	A	B
146	T	p-Chlorotoluene	91	30.57	1.169	A	3	A	B
147	T	n-Propylbenzene	91	30.56	1.168	A	3	A	B
148	T	m-Ethyltoluene	105	30.81	1.178	A	3	A	B
149	T	p-Ethyltoluene	105	30.90	1.181	A	3	A	B
150	T	1,3,5-Trimethylbenzene	105	31.09	1.189	A	3	A	B
151	T	o-Ethyltoluene	105	31.49	1.204	A	3	A	B
152	T	beta-Pinene	93	31.77	1.214	A	3	A	B
153	T	1,2,4-Trimethylbenzene	105	32.02	1.224	A	3	A	B
154	T	tert-Butylbenzene	119	32.00	1.223	A	3	A	B
155	T	1-Decene	56	32.07	1.226	A	3	A	B
156	T	Benzyl chloride	91	32.30	1.235	A	3	A	B
157	T	m-Dichlorobenzene	146	32.30	1.235	A	3	A	B
158	T	n-Decane	57	32.48	1.242	A	3	A	B
159	T	p-Dichlorobenzene	146	32.48	1.242	A	3	A	B
160	T	Isobutylbenzene	91	32.57	1.245	A	3	A	B
161	T	1,2,3-Trimethylbenzene	105	33.04	1.263	A	3	A	B
162	T	p-Isopropyltoluene	119	33.11	1.266	A	3	A	B
163	T	o-Dichlorobenzene	146	33.30	1.273	A	3	A	B
164	T	Limonene	68	33.47	1.279	A	3	A	B
165	T	Indan	117	33.49	1.280	A	3	A	B
166	T	Indene	115	33.71	1.289	A	3	A	B
167	T	m-Diethylbenzene	105	33.92	1.297	A	3	A	B
168	T	p-Diethylbenzene	119	34.15	1.306	A	3	A	B
169	T	n-Butylbenzene	91	34.19	1.307	A	3	A	B
170	T	1-Undecene	55	35.47	1.356	A	3	A	B
171	T	n-Undecane	57	35.84	1.370	A	3	A	B
172	T	1,2,4-Trichlorobenzene	180	37.85	1.447	A	3	A	B
173	T	Naphthalene	128	38.04	1.454	A	3	A	B
174	T	Hexachloro-1,3-butadiene	225	38.81	1.484	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

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	Purity (102	0.01046		Purity (ext)	0.0106				
Compounc	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	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Acetylene	74-86-2	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Ethane	74-84-0	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Halocarbo	811-97-2	0.0106	20.4	51	102	255	510	765	1020
Propylene	115-07-1	0.01046	19.8	49.5	99	247.5	495	742.5	990
Chlorodiflu	75-45-6	0.0106	21	52.5	105	262.5	525	787.5	1050
Propane	74-98-6	0.01046	19.6	49	98	245	490	735	980
Dichlorodif	75-71-8	0.01046	19.8	49.5	99	247.5	495	742.5	990
Chlorometl	74-87-3	0.01046	20	50	100	250	500	750	1000
Isobutane	75-28-5	0.01046	19.6	49	98	245	490	735	980
Halocarbo	76-14-2	0.01046	19.6	49	98	245	490	735	980
Acetaldehy	75-07-0	0.0106	20.4	51	102	255	510	765	1020
Vinyl chlori	75-01-4	0.01046	19.8	49.5	99	247.5	495	742.5	990
1-Butene/I	106-98-9	0.01046	19.4	48.5	97	242.5	485	727.5	970
1,3-Butadi	106-99-0	0.01046	21	52.5	105	262.5	525	787.5	1050
n-Butane	106-97-8	0.01046	19.4	48.5	97	242.5	485	727.5	970
Methanol	67-56-1	0.0106	20.8	52	104	260	520	780	1040
trans-2-Bu	624-64-6	0.01046	19.4	48.5	97	242.5	485	727.5	970
Neopentan	463-82-1	0.0106	21	52.5	105	262.5	525	787.5	1050
Dichloroflu	75-43-4	0.0106	21.2	53	106	265	530	795	1060
Bromometl	74-83-9	0.01046	19.8	49.5	99	247.5	495	742.5	990
cis-2-Buter	590-18-1	0.01046	20.8	52	104	260	520	780	1040
Chloroetha	75-00-3	0.01046	19.8	49.5	99	247.5	495	742.5	990
Vinyl Brom	593-60-2	0.0106	20.6	51.5	103	257.5	515	772.5	1030
3-Methyl-1	563-45-1	0.01046	21	52.5	105	262.5	525	787.5	1050
Ethanol	64-17-5	0.0106	20.4	51	102	255	510	765	1020
Acetonitrile	75-05-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Acrolein	107-02-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Isopentane	78-78-4	0.01046	19.8	49.5	99	247.5	495	742.5	990
Trichloroflu	75-69-4	0.01046	20.6	51.5	103	257.5	515	772.5	1030
1-Pentene	109-67-1	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Acetone	67-64-1	0.0106	22	55	110	275	550	825	1100
2-Propanol	67-63-0	0.0106	24	60	120	300	600	900	1200
Acrylonitril	107-13-1	0.0106	21	52.5	105	262.5	525	787.5	1050
n-Pentane	109-66-0	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Diethyl eth	60-29-7	0.0106	20.4	51	102	255	510	765	1020
Isoprene	78-79-5	0.01046	20.4	51	102	255	510	765	1020
trans-2-Pe	646-04-8	0.01046	21	52.5	105	262.5	525	787.5	1050
1,1-Dichlor	75-35-4	0.01046	20.8	52	104	260	520	780	1040
cis-2-Pente	627-20-3	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Methylene	75-09-2	0.01046	20.4	51	102	255	510	765	1020
2-Methyl-2	513-35-9	0.01046	21.4	53.5	107	267.5	535	802.5	1070
Carbon Dis	75-15-0	0.0106	20.6	51.5	103	257.5	515	772.5	1030
3-Chloropr	107-05-1	0.01046	21.2	53	106	265	530	795	1060
Halocarbo	76-13-1	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Neohexane	75-83-2	0.01046	20.4	51	102	255	510	765	1020

Cyclopente	142-29-0	0.01046	19.8	49.5	99	247.5	495	742.5	990
trans-1,2-D	156-60-5	0.01046	20.8	52	104	260	520	780	1040
4-Methyl-1	691-37-2	0.01046	20.4	51	102	255	510	765	1020
1-Propanol	71-23-8	0.0106	24	60	120	300	600	900	1200
1,1-Dichlor	75-34-3	0.01046	21.2	53	106	265	530	795	1060
Cyclopente	287-92-3	0.01046	20.4	51	102	255	510	765	1020
2,3-Dimeth	79-29-8	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Methyl tert	1634-04-4	0.01046	20.4	51	102	255	510	765	1020
Isohexane	107-83-5	0.01046	20.8	52	104	260	520	780	1040
Vinyl Acete	108-05-4	0.0106	22	55	110	275	550	825	1100
cis-4-Meth	691-38-3	0.0106	20.8	52	104	260	520	780	1040
trans-4-Me	674-76-0	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Butyraldeh	123-72-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
2-Butanone	78-93-3	0.0106	21.8	54.5	109	272.5	545	817.5	1090
Chloroprer	126-99-8	0.01046	20.2	50.5	101	252.5	505	757.5	1010
3-Methylpe	96-14-0	0.01046	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	0.01046	20.4	51	102	255	510	765	1020
1-Hexene	592-41-6	0.01046	20.2	50.5	101	252.5	505	757.5	1010
cis-1,2-Dic	156-59-2	0.01046	21	52.5	105	262.5	525	787.5	1050
Bromochlo	74-97-5	0.01046	20.4	51	102	255	510	765	1020
2-Ethyl-1-b	760-21-4	0.0106	20	50	100	250	500	750	1000
n-Hexane	110-54-3	0.01046	21.2	53	106	265	530	795	1060
Chloroform	67-66-3	0.01046	20.8	52	104	260	520	780	1040
cis-3-Hexe	7642-09-3	0.0106	20.6	51.5	103	257.5	515	772.5	1030
trans-2-He	4050-45-7	0.01046	21	52.5	105	262.5	525	787.5	1050
2-Methyl-2	625-27-4	0.0106	20.2	50.5	101	252.5	505	757.5	1010
cis-3-Meth	922-62-3	0.0106	21	52.5	105	262.5	525	787.5	1050
cis-2-Hexe	7688-21-3	0.01046	19.4	48.5	97	242.5	485	727.5	970
1,2-Dichlor	107-06-2	0.01046	21.2	53	106	265	530	795	1060
Methylcycl	96-37-7	0.01046	20.2	50.5	101	252.5	505	757.5	1010
2,4-Dimeth	108-08-7	0.01046	20.6	51.5	103	257.5	515	772.5	1030
1,1,1-Trich	71-55-6	0.01046	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	0.0106	22	55	110	275	550	825	1100
Benzene	71-43-2	0.01046	21.4	53.5	107	267.5	535	802.5	1070
1-Butanol	71-36-3	0.0106	19.4	48.5	97	242.5	485	727.5	970
Carbon tet	56-23-5	0.01046	21	52.5	105	262.5	525	787.5	1050
Cyclohexa	110-82-7	0.01046	21.2	53	106	265	530	795	1060
Isoheptane	31394-54-	0.01046	20.6	51.5	103	257.5	515	772.5	1030
2,3-Dimeth	565-59-3	0.01046	20.4	51	102	255	510	765	1020
Cyclohexe	110-83-8	0.0106	20.2	50.5	101	252.5	505	757.5	1010
3-Methylhe	589-34-4	0.01046	20.4	51	102	255	510	765	1020
1,2-Dichlor	78-87-5	0.01046	21.2	53	106	265	530	795	1060
Bromodich	75-27-4	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Trichloroet	79-01-6	0.01046	20.2	50.5	101	252.5	505	757.5	1010
1,4-Dioxan	123-91-1	0.0106	20.8	52	104	260	520	780	1040
1-Heptene	592-76-7	0.0106	20	50	100	250	500	750	1000
2,2,4-Trim	540-84-1	0.01046	20.4	51	102	255	510	765	1020
2-Chlorope	625-29-6	0.01046	20.4	51	102	255	510	765	1020
trans-3-He	14686-14-	0.0106	21.4	53.5	107	267.5	535	802.5	1070
n-Heptane	142-82-5	0.01046	20.6	51.5	103	257.5	515	772.5	1030

cis-3-Hept	7642-10-6	0.0106	21.4	53.5	107	267.5	535	802.5	1070	
trans-2-He	14686-13-	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
2,4,4-Trim	107-39-1	0.0106	20.4	51	102	255	510	765	1020	
cis-1,3-Dic	10061-01-	0.01046	20.8	52	104	260	520	780	1040	
Methylisob	108-10-1	0.0106	21.8	54.5	109	272.5	545	817.5	1090	
Methylcycl	108-87-2	0.01046	20.6	51.5	103	257.5	515	772.5	1030	
2,4,4-Trim	107-40-4	0.0106	20.2	50.5	101	252.5	505	757.5	1010	
2,5-Dimeth	592-13-2	0.0106	20.8	52	104	260	520	780	1040	
2,2,3-Trim	564-02-3	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
trans-1,3-D	10061-02-	0.01046	22	55	110	275	550	825	1100	
1,1,2-Trich	79-00-5	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
2,3,4-Trim	565-75-3	0.01046	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	0.01046	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	0.0106	21.4	53.5	107	257.5	535	802.5	1070	
2-Methylhe	592-27-8	0.01046	20.6	51.5	103	267.5	515	772.5	1030	
1-Methylcy	591-49-1	0.0106	21.4	53.5	107	267.5	535	802.5	1070	
Dibromoch	124-48-1	0.01046	20.8	52	104	260	520	780	1040	
3-Methylhe	589-81-1	0.01046	20.4	51	102	255	510	765	1020	
Hexanal	66-25-1	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
1,2-Dibrom	106-93-4	0.01046	21.6	54	108	270	540	810	1080	
2,2,5-Trim	3522-94-9	0.0106	21.8	54.5	109	272.5	545	817.5	1090	
1-Octene	111-66-0	0.0106	20	50	100	250	500	750	1000	
n-Octane	111-65-9	0.01046	20.6	51.5	103	257.5	515	772.5	1030	
Tetrachlor	127-18-4	0.01046	21.2	53	106	265	530	795	1060	
cis-2-Octe	7642-04-8	0.0106	21	52.5	105	262.5	525	787.5	1050	
Chloroben	108-90-7	0.01046	21.6	54	108	270	540	810	1080	
Ethylbenze	100-41-4	0.01046	21.6	54	108	270	540	810	1080	
m/p-Xylene	106-42-3	0.01046	42.4	106	212	530	1060	1590		2120
Bromoform	75-25-2	0.01046	21.2	53	106	265	530	795	1060	
Butyl Acryl	141-32-2	0.0106	22.8	57	114	285	570	855	1140	
Styrene	100-42-5	0.01046	21.8	54.5	109	272.5	545	817.5	1090	
Heptanal	111-71-7	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
1,1,2,2-Tet	79-34-5	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
o-Xylene	95-47-6	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
1-Nonene	124-11-8	0.0106	19.4	48.5	97	242.5	485	727.5	970	
cis-4-None	10405-84-	0.0106	22.8	57	114	285	570	855	1140	
trans-4-No	10405-85-	0.0106	19.2	48	96	240	480	720	960	
n-Nonane	111-84-2	0.01046	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	0.01046	19.8	49.5	99	247.5	495	742.5	990	
Benzaldeh	100-52-7	0.0106	20.8	52	104	260	520	780	1040	
alpha-Pine	80-56-8	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
o/m-Chlor	2/3-CT	0.0106	42.8	107	214	535	1070	1605		2140
p-Chlorotol	106-43-4	0.0106	21.6	54	108	270	540	810	1080	
n-Propylbe	103-65-1	0.01046	20	50	100	250	500	750	1000	
m-Ethyltol	620-14-4	0.01046	20	50	100	250	500	750	1000	
p-Ethyltolu	622-96-8	0.01046	20.2	50.5	101	252.5	505	757.5	1010	
1,3,5-Trim	108-67-8	0.01046	21.8	54.5	109	272.5	545	817.5	1090	
o-Ethyltolu	611-14-3	0.01046	19.8	49.5	99	247.5	495	742.5	990	
beta-Pinen	127-91-3	0.01046	15	37.5	75	187.5	375	562.5	750	

1,2,4-Trim	95-63-6	0.01046	21.8	54.5	109	272.5	545	817.5	1090
tert-Butylb	98-06-6	0.0106	21.4	53.5	107	267.5	535	802.5	1070
1-Decene	872-05-9	0.0106	21.4	53.5	107	267.5	535	802.5	1070
Benzyl chl	100-44-7	0.01046	21.8	54.5	109	272.5	545	817.5	1090
m-Dichloro	541-73-1	0.01046	21.8	54.5	109	272.5	545	817.5	1090
n-Decane	124-18-5	0.01046	20.6	51.5	103	257.5	515	772.5	1030
p-Dichlorol	106-46-7	0.01046	21.6	54	108	270	540	810	1080
Isobutylber	538-93-2	0.0106	22	55	110	275	550	825	1100
1,2,3-Trim	526-73-8	0.01046	19.6	49	98	245	490	735	980
p-Isopropy	99-87-6	0.0106	22	55	110	275	550	825	1100
o-Dichlorol	95-50-1	0.01046	21.6	54	108	270	540	810	1080
Limonene	138-86-3	0.0106	21	52.5	105	262.5	525	787.5	1050
Indan	496-11-7	0.0106	21	52.5	105	262.5	525	787.5	1050
Indene	95-13-6	0.0106	20.6	51.5	103	257.5	515	772.5	1030
m-Diethylb	141-93-5	0.01046	19.4	48.5	97	242.5	485	727.5	970
p-Diethylbe	105-05-5	0.01046	19.8	49.5	99	247.5	495	742.5	990
n-Butylben	104-51-8	0.0106	22.2	55.5	111	277.5	555	832.5	1110
1-Undecen	821-95-4	0.0106	20.8	52	104	260	520	780	1040

INSTRUMENT GCMS-R1 ANALYST / DATE: NOK 8/24/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: 8/24/11 Batch ID: NA

DAILY CHECK ✓	INSERT: CHANGED (Y/N) N	SEPTA: CHANGED (Y/N) N	COLUMN: CHANGED (Y/N) N	AUTOSAMPLER MAINT. NA
M. PUMP OIL ✓	TURBO OIL NA	FILAMENT CHANGE NO	OTHER NA	
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: R110328.U Elect Mult. 1624 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: Entech

GC PROGRAM:

GC Meth. RA110612.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: NA

GC COLUMN:

Column ID#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID: 341359

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	WARMUP	RA1784	0.5	4	RA082401	0.01046	VOC-VSP-34-15
2	LCS	↓	↓	4	02	↓	↓
3	BLK	RA2153	↓	1	03	1.0	
4	PREFLUSH	RA1703	0.1	10	04	0.01060	VOC-VSP-34-5
5	EXT BLEND 20	↓	0.02	↓	05	↓	↓
6	50	↓	0.05	↓	06	↓	↓
7	100	↓	0.10	↓	07	↓	↓
8	250	↓	0.25	↓	08	↓	↓
9	500	↓	0.5	↓	09	↓	↓

Instrument Sequence (continued)

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	EXT BLEND 750	RA1703	0.75	10	RA082410	0.01060	VOC-VSP-34-5
11	1000		1.0		11		
12	MB1	RA2153	0.5	1	12	1.0	
13	PREFLUSH	RA1748	0.1	6	13	0.01046	VOC-VSP-34-18
14	102 BLEND 20		0.02		14		
15	50		0.05		15		
16	100		0.10		16		
17	250		0.25		17		
18	500		0.50		18		
19	750		0.75		19		
20	1000		1.0		20		
21	MB	RA2153	0.5	1	21	1.0	
22	ICV 102	HR1865		3	22	0.01043	VOC-VSP-34-17
23	LCS	RA1784		4	23	0.01046	VOC-VSP-34-15
24	EXT	RA1822		9	24	0.01034	VOC-VSP-34-7
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

```
   Sequence Name: C:\msdchem\1\sequence\R110824.S
         Comment:
        Operator: KDK
       Data Path: C:\MSDCHEM\1\DATA\R110824\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject

   ----------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Sample        1  RA082401 RA110612 WARMUP
 2)  Sample        1  RA082402 RA110612 LCS
 3)  Sample        1  RA082403 RA110612 BLK
 4)  Sample        1  RA082404 RA110612 PREFLUSH,,,,0.01060;EXT
 5)  Sample        1  RA082405 RA110612 EXT BLEND 20,,,,0.01060;EXT
 6)  Sample        1  RA082406 RA110612 EXT BLEND 50,,,,0.01060;EXT
 7)  Sample        1  RA082407 RA110612 EXT BLEND 100,,,,0.01060;EXT
 8)  Sample        1  RA082408 RA110612 EXT BLEND 250,,,,0.01060;EXT
 9)  Sample        1  RA082409 RA110612 EXT BLEND 500,,,,0.01060;EXT
10)  Sample        1  RA082410 RA110612 EXT BLEND 750,,,,0.01060;EXT
11)  Sample        1  RA082411 RA110612 EXT BLEND 1000,,,,0.01060;EXT
12)  Sample        1  RA082412 RA110612 MB
13)  Sample        1  RA082413 RA110612 PREFLUSH,,,,0.01046;102
14)  Sample        1  RA082414 RA110612 102 BLEND 20,,,,0.01046;102
15)  Sample        1  RA082415 RA110612 102 BLEND 50,,,,0.01046;102
16)  Sample        1  RA082416 RA110612 102 BLEND 100,,,,0.01046;102
17)  Sample        1  RA082417 RA110612 102 BLEND 250,,,,0.01046;102
18)  Sample        1  RA082418 RA110612 102 BLEND 500,,,,0.01046;102
19)  Sample        1  RA082419 RA110612 102 BLEND 750,,,,0.01046;102
20)  Sample        1  RA082420 RA110612 102 BLEND 1000,,,,0.01046;102
21)  Sample        1  RA082421 RA110612 MB
22)  Sample        1  RA082422 RA110612 ICV 102,,,,0.01043;102
23)  Sample        1  RA082423 RA110612 ICV LCS,,,,;0.01046;LCS
24)  Sample        1  RA082424 RA110612 ICV EXT,,,,0.01034;EXT
```

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

Sequence Name: C:\Smart\R110824.SEQ
Date: 08-25-2011
Time: 13:11:16
Int. Std Volume: 200 cc

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Vol.	Std Vol.	Method	Time
WARMUP	1	4	500		0	C:\Smart\C053011V2.MPT	12:00
LCS	1	4	500		0	C:\Smart\C053011V2.MPT	12:00
BLK	1	1	500		0	C:\Smart\C053011V2.MPT	12:00
PREFLUSH	1	10	100		0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 20	1	10	20		0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 50	1	10	50		0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 100	1	10	100		0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 250	1	10	250		0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 500	1	10	500		0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 750	1	10	750		0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 1000	1	10	1000		0	C:\Smart\C053011V2.MPT	12:00
BLK	1	1	500		0	C:\Smart\C053011V2.MPT	12:00
PREFLUSH	1	6	100		0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 20	1	6	20		0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 50	1	6	50		0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 100	1	6	100		0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 250	1	6	250		0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 500	1	6	500		0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 750	1	6	750		0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 1000	1	6	1000		0	C:\Smart\C053011V2.MPT	12:00
MB	1	1	500		0	C:\Smart\C053011V2.MPT	12:00
ICV 102	1	5	500		0	C:\Smart\C053011V2.MPT	12:00
ICV LCS	1	4	500		0	C:\Smart\C053011V2.MPT	12:00
ICV EXT	1	9	500		0	C:\Smart\C053011V2.MPT	12:00

BFB

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :

Spectrum Information: Average of 29.110 to 29.160 min.

DAH 8-25-11

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	27.3	5192	PASS
75	95	30	66	63.0	11958	PASS
95	95	100	100	100.0	18993	PASS
96	95	5	9	6.7	1277	PASS
173	174	0.00	2	0.8	107	PASS
174	95	50	120	69.4	13178	PASS
175	174	4	9	7.0	929	PASS
176	174	93	101	95.2	12552	PASS
177	176	5	9	6.4	801	PASS

RA082405.D RA110612.M Thu Aug 25 11:52:28 2011 DAH

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:15 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	294731	2.0000 ppbV	0.01
82) Chlorobenzene-d5	26.16	117	106765	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	118502	1.9908 ppbV	0.02
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.01	96	254928	1.7355 ppbV	0.01
Spiked Amount 2.000			Recovery	= 87.00%	
113) Toluene-d8	22.92	98	182140	2.2409 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.00%	
115) 1,4-Dichlorobutane	28.06	90	15015	1.8799 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.00%	
141) 1,4-Bromofluorobenzene	29.14	95	70657	1.8631 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.44	69	8685	0.2821 ppbV	S	86
8) Chlorodifluoromethane	5.58	51	21043	0.2944 ppbV	S	98
14) Acetaldehyde	7.70	44	4055m	0.3048 ppbV	S	
19) Methanol	8.43	31	2727m	0.3874 ppbV	S	
21) Neopentane	8.95	57	34791	0.2838 ppbV	S	95
22) Dichlorofluoromethane	10.21	67	25705	0.2771 ppbV	S	95
26) Vinyl bromide	10.45	106	9607	0.2611 ppbV	S	83
28) Ethanol	10.54	45	3793m	0.3816 ppbV	S	
29) Acetonitrile	10.71	41	7450	0.2417 ppbV	S	82
30) Acrolein	10.93	56	3273	0.2383 ppbV #	S	34
34) Acetone	11.25	43	21517m	0.2922 ppbV	S	
35) 2-Propanol	11.97	45	19727m	0.3657 ppbV	S	
36) Acrylonitrile	12.13	52	6350	0.2532 ppbV #	S	1
38) Diethyl ether	12.30	74	4379	0.2604 ppbV #	S	1
45) Carbon Disulfide	12.95	76	30042	0.2592 ppbV	S	97
52) 1-Propanol	14.37	59	1768	0.3171 ppbV #	S	1
58) Vinyl acetate	15.07	43	30997	0.3054 ppbV #	S	48
59) cis-4-Methyl-2-pentene	14.88	69	19594	0.2916 ppbV #	S	95
60) trans-4-Methyl-2-pentene	15.02	69	23256	0.3042 ppbV	S	95
61) Butyraldehyde	15.15	72	1779	0.2673 ppbV #	S	1
62) 2-Butanone	15.38	43	23299	0.3112 ppbV #	S	1
70) 2-Ethyl-1-butene	16.27	69	11196	0.2669 ppbV #	S	69
73) cis-3-Hexene	16.45	55	14143	0.2538 ppbV	S	85
75) 2-Methyl-2-pentene	16.62	41	18514	0.2553 ppbV	S	92
76) cis-3-Methyl-2-pentene	16.74	69	14420	0.2787 ppbV	S	92
83) Methylcyclopentene	18.44	67	26925	0.4469 ppbV	S	88
86) 1-Butanol	18.70	56	6341	0.3589 ppbV	S	97
90) Cyclohexene	19.58	67	17409	0.4344 ppbV	S	84
95) 1,4-Dioxane	20.20	88	5569	0.5309 ppbV #	S	50
96) 1-Heptene	20.21	55	8362	0.3409 ppbV #	S	84
99) trans-3-Heptene	20.61	41	15723	0.3887 ppbV	S	82
101) cis-3-Heptene	20.75	41	15681	0.3716 ppbV #	S	14
102) trans-2-Heptene	20.90	55	12065	0.3233 ppbV #	S	62
103) 2,4,4-Trimethyl-1-pentene	21.16	57	37573	0.4451 ppbV	S	94
105) Methylisobutylketone	21.65	43	25323	0.4057 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:15 19111 Quant Results File: RA110612.RES

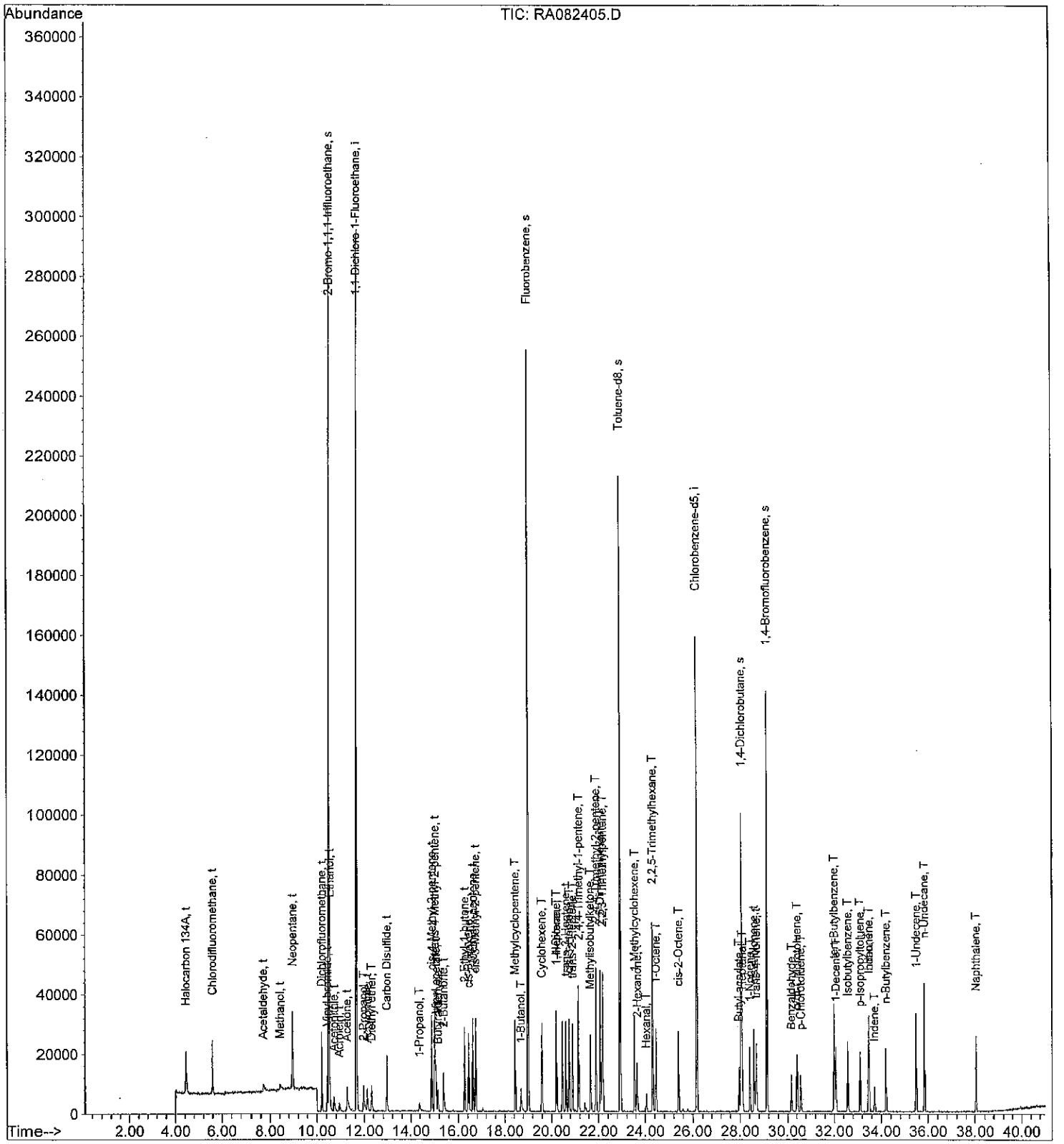
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.90	55	28509	0.4310	ppbV		S	78
108) 2,5-Dimethylhexane	22.08	57	28492	0.4363	ppbV		S	91
109) 2,2,3-Trimethylpentane	22.17	57	47940	0.4377	ppbV	#	S	42
116) 2-Hexanone	23.65	43	17280	0.3535	ppbV	#	S	22
118) 1-Methylcyclohexene	23.54	81	16593	0.3760	ppbV		S	94
121) Hexanal	24.03	44	2394	0.3240	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.30	57	60437	0.4624	ppbV		S	95
124) 1-Octene	24.45	55	8931	0.2925	ppbV	#	S	1
127) cis-2-Octene	25.41	55	11873	0.3017	ppbV		S	91
132) Butyl acrylate	27.96	55	15537	0.3872	ppbV		S	87
133) Heptanal	28.09	70	3354	0.3591	ppbV	#	S	22
137) 1-Nonene	28.42	56	6143	0.2232	ppbV		S	86
138) cis-4-Nonene	28.59	55	15410	0.2703	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	13174	0.2387	ppbV		S	95
143) Benzaldehyde	30.18	77	6664	0.5272	ppbV	#	S	36
145) o/m-Chlorotoluene	30.43	91	24865	0.4909	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	11080	0.2315	ppbV	#	S	37
154) tert-Butylbenzene	32.01	119	24011	0.3163	ppbV	#	S	57
155) 1-Decene	32.07	56	5187	0.2448	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	21557	0.2722	ppbV	#	S	39
162) p-Isopropyltoluene	33.11	119	17456	0.2902	ppbV	#	S	45
164) Limonene	33.46	68	8605	0.2558	ppbV		S	87
165) Indan	33.48	117	9520	0.2229	ppbV		S	80
166) Indene	33.71	115	6444	0.2195	ppbV		S	84
169) n-Butylbenzene	34.19	91	17931	0.3650	ppbV	#	S	1
170) 1-Undecene	35.49	55	9639	0.4241	ppbV	#	S	58
171) n-Undecane	35.84	57	22003	0.3356	ppbV		S	73
173) Naphthalene	38.04	128	21321	0.4004	ppbV		S	94

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:15 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082406.D Vial: 1
Acq On : 24 Aug 2011 2:34 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:18 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	285489	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	101888	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	115614	2.0051 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
65) Fluorobenzene	19.00	96	247729	1.7411 ppbV	0.00
Spiked Amount 2.000			Recovery	= 87.00%	
113) Toluene-d8	22.92	98	178420	2.3002 ppbV	0.00
Spiked Amount 2.000			Recovery	= 115.00%	
115) 1,4-Dichlorobutane	28.05	90	14499	1.9022 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.00%	
141) 1,4-Bromofluorobenzene	29.14	95	67579	1.8673 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.44	69	18460	0.6191 ppbV	S	81
8) Chlorodifluoromethane	5.58	51	43887	0.6338 ppbV	S	97
14) Acetaldehyde	7.66	44	8323m	0.6459 ppbV	S	
19) Methanol	8.39	31	5216m	0.7650 ppbV	S	
21) Neopentane	8.95	57	74072	0.6238 ppbV	S	98
22) Dichlorofluoromethane	10.20	67	56268	0.6263 ppbV	S	96
26) Vinyl bromide	10.43	106	21090	0.5918 ppbV	S	84
28) Ethanol	10.51	45	6070m	0.6304 ppbV	S	
29) Acetonitrile	10.68	41	16967m	0.5683 ppbV	S	
30) Acrolein	10.90	56	7333	0.5512 ppbV #	S	46
34) Acetone	11.21	43	46115m	0.6465 ppbV	S	
35) 2-Propanol	11.93	45	40109m	0.7675 ppbV	S	
36) Acrylonitrile	12.11	52	13509	0.5560 ppbV #	S	1
38) Diethyl ether	12.29	74	9235	0.5669 ppbV #	S	1
45) Carbon Disulfide	12.94	76	65987	0.5879 ppbV	S	98
52) 1-Propanol	14.35	59	4144	0.7673 ppbV #	S	1
58) Vinyl acetate	15.05	43	67839	0.6900 ppbV #	S	48
59) cis-4-Methyl-2-pentene	14.88	69	43977	0.6756 ppbV #	S	97
60) trans-4-Methyl-2-pentene	15.01	69	49084	0.6628 ppbV	S	96
61) Butyraldehyde	15.13	72	3899	0.6047 ppbV #	S	1
62) 2-Butanone	15.36	43	52447m	0.7231 ppbV	S	
70) 2-Ethyl-1-butene	16.27	69	24404	0.6007 ppbV #	S	73
73) cis-3-Hexene	16.44	55	31534	0.5842 ppbV	S	88
75) 2-Methyl-2-pentene	16.61	41	41587	0.5921 ppbV	S	94
76) cis-3-Methyl-2-pentene	16.74	69	30670	0.6121 ppbV	S	91
83) Methylcyclopentene	18.43	67	59748	1.0390 ppbV	S	91
86) 1-Butanol	18.68	56	13980	0.8291 ppbV	S	96
90) Cyclohexene	19.59	67	37827	0.9890 ppbV	S	89
95) 1,4-Dioxane	20.19	88	9521	0.9511 ppbV #	S	56
96) 1-Heptene	20.20	55	18711	0.7994 ppbV	S	92
99) trans-3-Heptene	20.61	41	33550	0.8691 ppbV	S	89
101) cis-3-Heptene	20.75	41	35729	0.8871 ppbV #	S	15
102) trans-2-Heptene	20.90	55	28282	0.7940 ppbV #	S	57
103) 2,4,4-Trimethyl-1-pentene	21.15	57	82905	1.0291 ppbV	S	90
105) Methylisobutylketone	21.65	43	51672	0.8674 ppbV #	S	1

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082406.D Vial: 1
Acq On : 24 Aug 2011 2:34 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:18 19111 Quant Results File: RA110612.RES

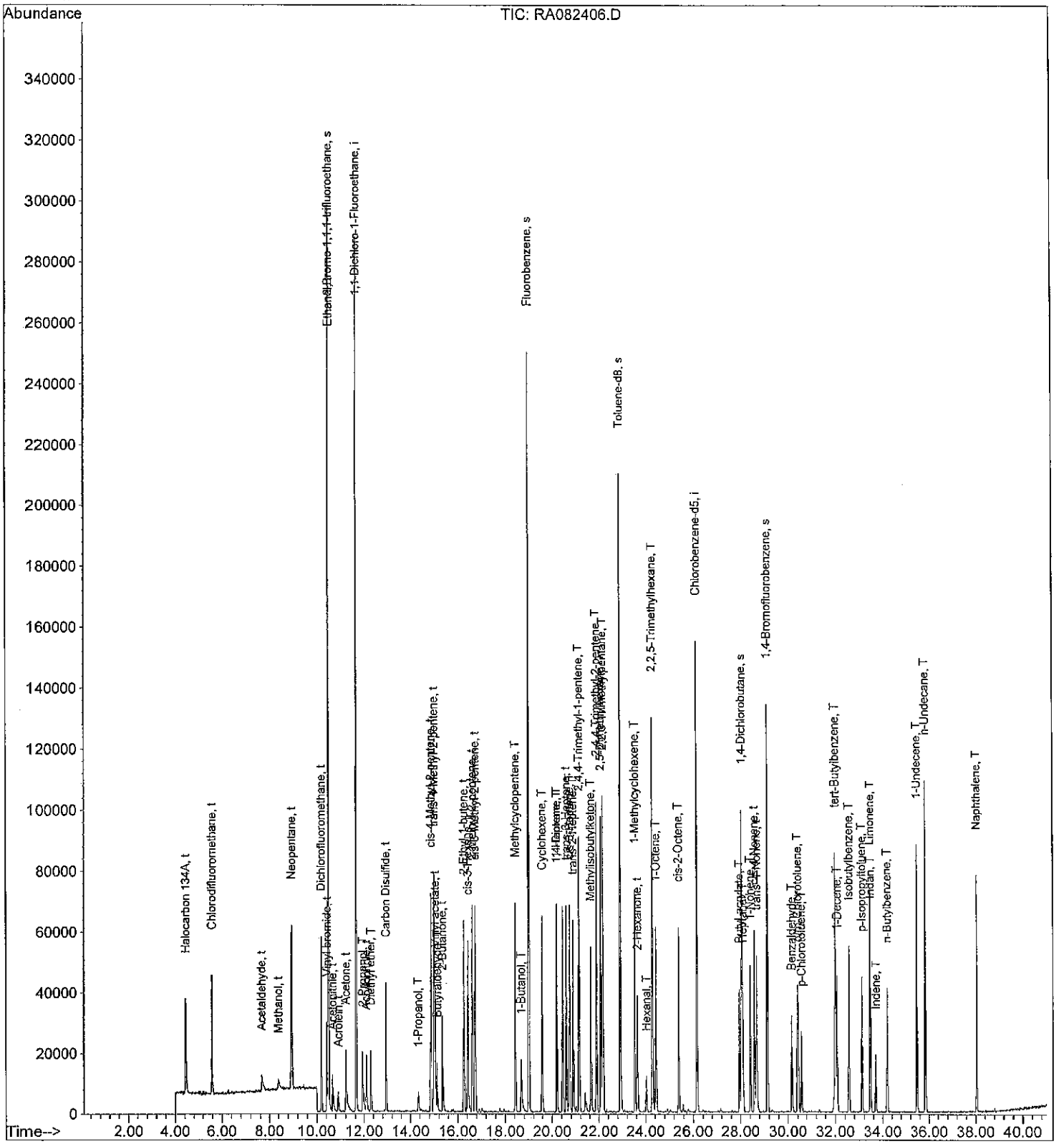
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.90	55	62479	0.9899	ppbV		S	80
108) 2,5-Dimethylhexane	22.08	57	61410	0.9855	ppbV		S	85
109) 2,2,3-Trimethylpentane	22.18	57	104508	0.9999	ppbV	#	S	41
116) 2-Hexanone	23.65	43	37599	0.8059	ppbV	#	S	22
118) 1-Methylcyclohexene	23.54	81	38220	0.9076	ppbV		S	92
121) Hexanal	24.03	44	5071	0.7191	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	133707	1.0719	ppbV		S	93
124) 1-Octene	24.45	55	19622	0.6734	ppbV	#	S	1
127) cis-2-Octene	25.40	55	25948	0.6908	ppbV		S	94
132) Butyl acrylate	27.96	55	40280	1.0518	ppbV		S	87
133) Heptanal	28.10	70	8165	0.9161	ppbV	#	S	71
137) 1-Nonene	28.41	56	14690	0.5594	ppbV		S	96
138) cis-4-Nonene	28.60	55	36114	0.6638	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	29937	0.5684	ppbV		S	97
143) Benzaldehyde	30.17	77	17566	1.4562	ppbV	#	S	34
145) o/m-Chlorotoluene	30.43	91	54229	1.1218	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	24315	0.5323	ppbV	#	S	36
154) tert-Butylbenzene	32.00	119	54787	0.7564	ppbV	#	S	55
155) 1-Decene	32.07	56	11308	0.5592	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	49129	0.6500	ppbV	#	S	51
162) p-Isopropyltoluene	33.11	119	36734	0.6399	ppbV	#	S	45
164) Limonene	33.46	68	20609	0.6420	ppbV		S	87
165) Indan	33.49	117	20095	0.4931	ppbV		S	92
166) Indene	33.71	115	13934	0.4974	ppbV		S	88
169) n-Butylbenzene	34.20	91	36026	0.7684	ppbV	#	S	1
170) 1-Undecene	35.47	55	25412	1.1715	ppbV	#	S	55
171) n-Undecane	35.84	57	59516	0.9511	ppbV		S	73
173) Naphthalene	38.04	128	61816	1.2165	ppbV		S	94

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082406.D Vial: 1
Acq On : 24 Aug 2011 2:34 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:18 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082407.D Vial: 1
Acq On : 24 Aug 2011 3:37 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:26 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	291304	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	108933	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	116962	1.9880 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.00	96	256997	1.7702 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.50%	
113) Toluene-d8	22.92	98	187603	2.2621 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.00%	
115) 1,4-Dichlorobutane	28.06	90	15525	1.9050 ppbV	0.02
Spiked Amount 2.000			Recovery	= 95.50%	
141) 1,4-Bromofluorobenzene	29.13	95	71500	1.8478 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.43	69	34599	1.1371 ppbV	S	82
8) Chlorodifluoromethane	5.57	51	82772	1.1715 ppbV	S	96
14) Acetaldehyde	7.61	44	18675m	1.4203 ppbV	S	
19) Methanol	8.35	31	9090m	1.3065 ppbV	S	
21) Neopentane	8.94	57	139975	1.1553 ppbV	S	96
22) Dichlorofluoromethane	10.19	67	105410	1.1499 ppbV	S	97
26) Vinyl bromide	10.42	106	40450	1.1123 ppbV	S	87
28) Ethanol	10.49	45	18597m	1.8928 ppbV	S	
29) Acetonitrile	10.65	41	33048m	1.0849 ppbV	S	
30) Acrolein	10.88	56	15269	1.1249 ppbV #	S	49
34) Acetone	11.18	43	88498m	1.2159 ppbV	S	
35) 2-Propanol	11.90	45	74684m	1.4006 ppbV	S	
36) Acrylonitrile	12.09	52	28041m	1.1311 ppbV	S	
38) Diethyl ether	12.28	74	18083	1.0879 ppbV #	S	1
45) Carbon Disulfide	12.93	76	124143	1.0839 ppbV	S	95
52) 1-Propanol	14.33	59	7134	1.2946 ppbV #	S	1
58) Vinyl acetate	15.04	43	135957	1.3552 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.87	69	83972	1.2643 ppbV #	S	95
60) trans-4-Methyl-2-pentene	15.00	69	95939	1.2697 ppbV	S	91
61) Butyraldehyde	15.12	72	7626	1.1592 ppbV #	S	1
62) 2-Butanone	15.34	43	106486m	1.4389 ppbV	S	
70) 2-Ethyl-1-butene	16.26	69	48576	1.1718 ppbV #	S	76
73) cis-3-Hexene	16.43	55	61511	1.1169 ppbV	S	95
75) 2-Methyl-2-pentene	16.60	41	79743	1.1127 ppbV	S	95
76) cis-3-Methyl-2-pentene	16.73	69	60607	1.1854 ppbV	S	92
83) Methylcyclopentene	18.43	67	119947	1.9510 ppbV	S	93
86) 1-Butanol	18.67	56	29491m	1.6359 ppbV	S	
90) Cyclohexene	19.58	67	73620	1.8003 ppbV	S	85
95) 1,4-Dioxane	20.18	88	15520	1.4501 ppbV #	S	60
96) 1-Heptene	20.19	55	38164	1.5251 ppbV	S	91
99) trans-3-Heptene	20.61	41	68686	1.6643 ppbV	S	89
101) cis-3-Heptene	20.75	41	72425	1.6819 ppbV #	S	12
102) trans-2-Heptene	20.90	55	57347	1.5059 ppbV #	S	57
103) 2,4,4-Trimethyl-1-pentene	21.14	57	160100	1.8589 ppbV	S	92
105) Methylisobutylketone	21.64	43	101007	1.5860 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082407.D Vial: 1
Acq On : 24 Aug 2011 3:37 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:26 19111 Quant Results File: RA110612.RES

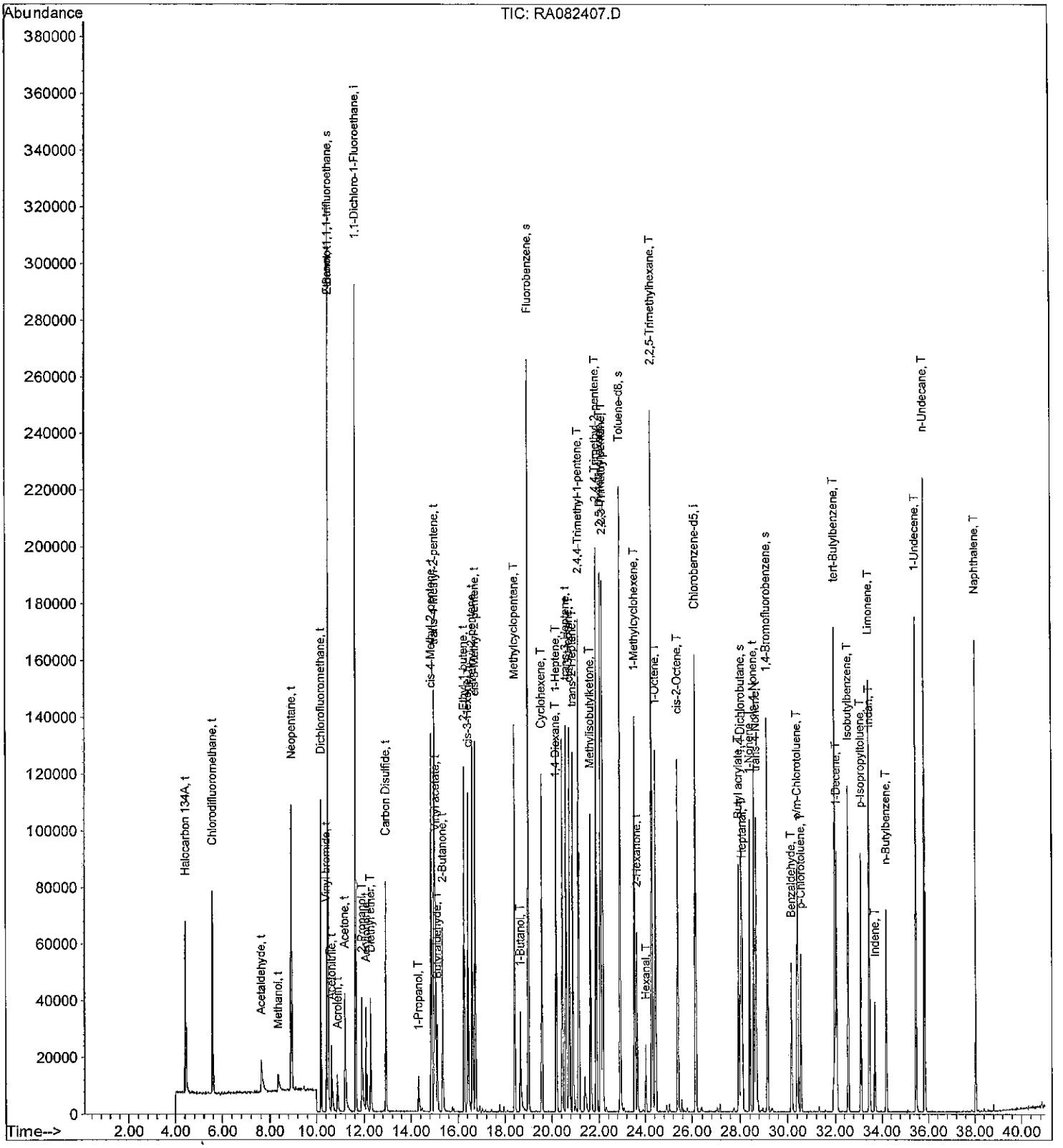
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	121511	1.8006	ppbV		S	81
108) 2,5-Dimethylhexane	22.08	57	117299	1.7606	ppbV		S	87
109) 2,2,3-Trimethylpentane	22.17	57	198894	1.7800	ppbV	#	S	41
116) 2-Hexanone	23.64	43	60744	1.2178	ppbV	#	S	22
118) 1-Methylcyclohexene	23.54	81	76249	1.6936	ppbV		S	92
121) Hexanal	24.03	44	9004	1.1943	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	257823	1.9333	ppbV		S	95
124) 1-Octene	24.44	55	41645	1.3368	ppbV	#	S	1
127) cis-2-Octene	25.41	55	55963	1.3936	ppbV		S	92
132) Butyl acrylate	27.96	55	84331	2.0597	ppbV		S	86
133) Heptanal	28.10	70	16503	1.7318	ppbV	#	S	67
137) 1-Nonene	28.42	56	31580	1.1247	ppbV		S	96
138) cis-4-Nonene	28.59	55	74349	1.2783	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	60379	1.0723	ppbV		S	92
143) Benzaldehyde	30.17	77	28777	2.2313	ppbV	#	S	28
145) o/m-Chlorotoluene	30.42	91	111469	2.1568	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	50988	1.0440	ppbV	#	S	35
154) tert-Butylbenzene	32.00	119	116449	1.5037	ppbV	#	S	55
155) 1-Decene	32.07	56	23847	1.1030	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	103063	1.2754	ppbV	#	S	40
162) p-Isopropyltoluene	33.11	119	76049	1.2390	ppbV	#	S	42
164) Limonene	33.47	68	41906	1.2210	ppbV		S	80
165) Indan	33.49	117	41787	0.9590	ppbV		S	86
166) Indene	33.71	115	28756	0.9601	ppbV		S	86
169) n-Butylbenzene	34.20	91	64635	1.2895	ppbV	#	S	1
170) 1-Undecene	35.47	55	51043	2.2010	ppbV	#	S	64
171) n-Undecane	35.84	57	124530	1.8614	ppbV		S	74
173) Naphthalene	38.04	128	130958	2.4105	ppbV		S	96

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082407.D Vial: 1
Acq On : 24 Aug 2011 3:37 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:26 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082408.D Vial: 1
Acq On : 24 Aug 2011 4:41 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:32 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	285412	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	112455	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	114683	1.9895 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.00	96	262933	1.8484 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	
113) Toluene-d8	22.92	98	199365	2.3287 ppbV	0.00
Spiked Amount 2.000			Recovery	= 116.50%	
115) 1,4-Dichlorobutane	28.05	90	15609	1.8554 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.00%	
141) 1,4-Bromofluorobenzene	29.13	95	75573	1.8919 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.42	69	84082m	2.8205 ppbV	S	
8) Chlorodifluoromethane	5.57	51	198616	2.8690 ppbV	S	96
14) Acetaldehyde	7.56	44	41927m	3.2545 ppbV	S	
19) Methanol	8.33	31	19941m	2.9253 ppbV	S	
21) Neopentane	8.94	57	342793	2.8876 ppbV	S	97
22) Dichlorofluoromethane	10.18	67	252121	2.8071 ppbV	S	97
26) Vinyl bromide	10.42	106	97024	2.7231 ppbV	S	85
28) Ethanol	10.47	45	35279m	3.6648 ppbV	S	
29) Acetonitrile	10.63	41	81102m	2.7173 ppbV	S	
30) Acrolein	10.86	56	36375	2.7351 ppbV #	S	45
34) Acetone	11.16	43	208393m	2.9222 ppbV	S	
35) 2-Propanol	11.90	45	171071m	3.2745 ppbV	S	
36) Acrylonitrile	12.08	52	67919	2.7963 ppbV #	S	1
38) Diethyl ether	12.27	74	45032	2.7652 ppbV #	S	1
45) Carbon Disulfide	12.94	76	302056	2.6917 ppbV	S	95
52) 1-Propanol	14.32	59	15844	2.9346 ppbV #	S	1
58) Vinyl acetate	15.04	43	344466	3.5044 ppbV #	S	47
59) cis-4-Methyl-2-pentene	14.87	69	203976	3.1345 ppbV #	S	97
60) trans-4-Methyl-2-pentene	15.00	69	233800	3.1581 ppbV	S	91
61) Butyraldehyde	15.11	72	19154	2.9716 ppbV #	S	1
62) 2-Butanone	15.33	43	257297m	3.5485 ppbV	S	
70) 2-Ethyl-1-butene	16.26	69	118785	2.9245 ppbV #	S	71
73) cis-3-Hexene	16.43	55	152083	2.8184 ppbV	S	92
75) 2-Methyl-2-pentene	16.60	41	196434	2.7977 ppbV	S	93
76) cis-3-Methyl-2-pentene	16.73	69	149240	2.9791 ppbV	S	92
83) Methylcyclopentene	18.43	67	298392	4.7016 ppbV	S	92
86) 1-Butanol	18.66	56	72531	3.8973 ppbV	S	97
90) Cyclohexene	19.57	67	182055	4.3126 ppbV	S	85
95) 1,4-Dioxane	20.18	88	31221	2.8258 ppbV #	S	51
96) 1-Heptene	20.19	55	96752	3.7452 ppbV	S	92
99) trans-3-Heptene	20.61	41	174575	4.0976 ppbV	S	89
101) cis-3-Heptene	20.75	41	180450	4.0593 ppbV #	S	13
102) trans-2-Heptene	20.90	55	146630	3.7299 ppbV #	S	55
103) 2,4,4-Trimethyl-1-pentene	21.15	57	389701	4.3830 ppbV	S	94
105) Methylisobutylketone	21.64	43	259785	3.9513 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082408.D Vial: 1
Acq On : 24 Aug 2011 4:41 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:32 19111 Quant Results File: RA110612.RES

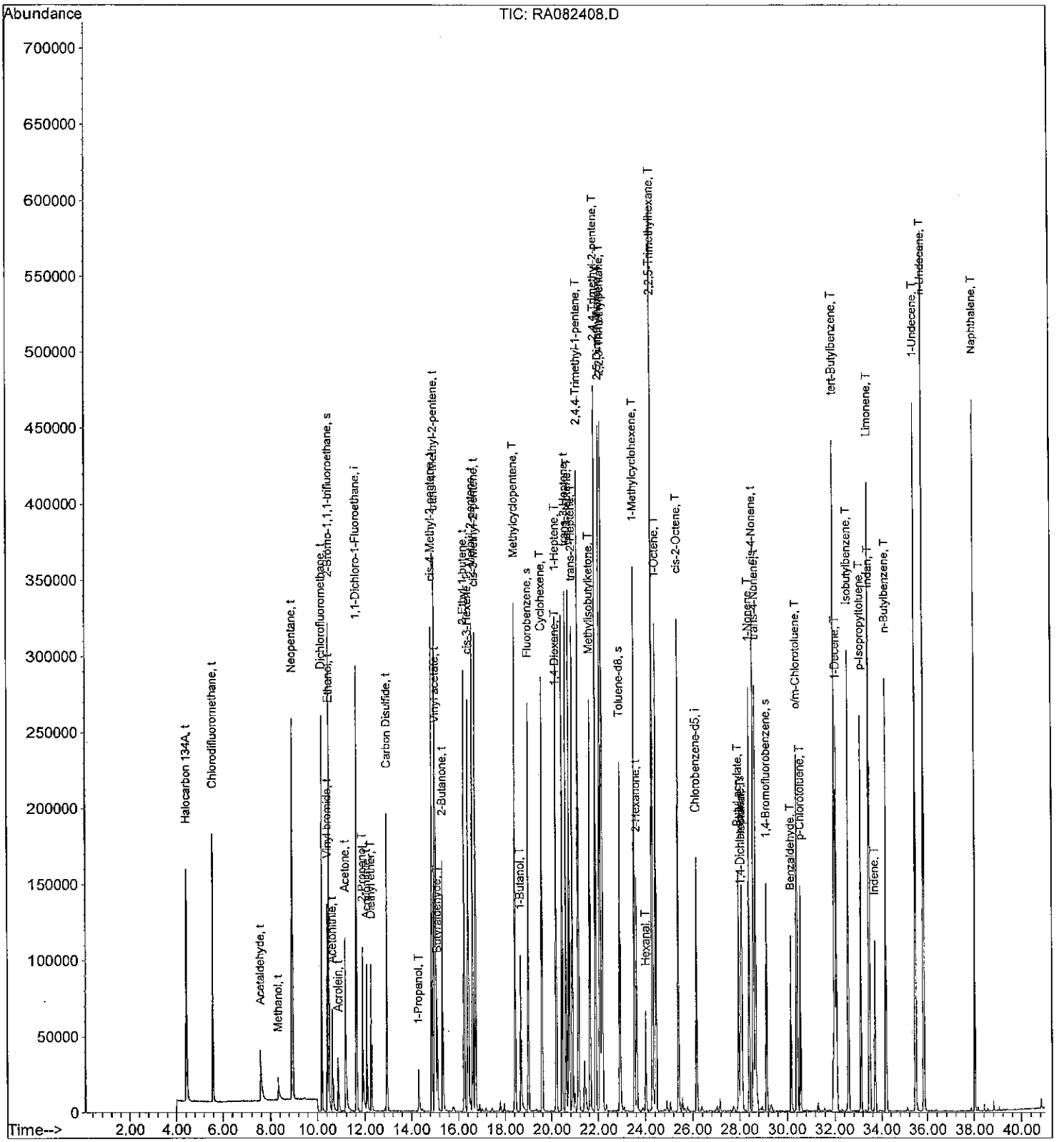
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	295611	4.2434	ppbV	S	82
108) 2,5-Dimethylhexane	22.08	57	282726	4.1107	ppbV	S	87
109) 2,2,3-Trimethylpentane	22.17	57	487302	4.2244	ppbV #	S	40
116) 2-Hexanone	23.63	43	149956	2.9122	ppbV #	S	23
118) 1-Methylcyclohexene	23.53	81	195835	4.2134	ppbV	S	90
121) Hexanal	24.02	44	23763	3.0532	ppbV #	S	1
123) 2,2,5-Trimethylhexane	24.29	57	629876	4.5753	ppbV	S	95
124) 1-Octene	24.45	55	107684	3.3484	ppbV #	S	1
127) cis-2-Octene	25.41	55	149001	3.5943	ppbV	S	91
132) Butyl acrylate	27.95	55	157984	3.7377	ppbV	S	86
133) Heptanal	28.09	70	35667	3.6257	ppbV #	S	63
137) 1-Nonene	28.41	56	86274	2.9765	ppbV	S	96
138) cis-4-Nonene	28.59	55	205412	3.4210	ppbV #	S	100
139) trans-4-Nonene	28.68	55	165705	2.8506	ppbV	S	95
143) Benzaldehyde	30.17	77	60505	4.5445	ppbV #	S	34
145) o/m-Chlorotoluene	30.42	91	300907	5.6398	ppbV #	S	1
146) p-Chlorotoluene	30.58	91	135706	2.6915	ppbV #	S	35
154) tert-Butylbenzene	32.00	119	305221	3.8178	ppbV #	S	59
155) 1-Decene	32.07	56	66393	2.9746	ppbV #	S	1
160) Isobutylbenzene	32.57	91	286434	3.4335	ppbV #	S	47
162) p-Isopropyltoluene	33.11	119	223702	3.5305	ppbV #	S	44
164) Limonene	33.46	68	119289	3.3670	ppbV	S	82
165) Indan	33.49	117	112864	2.5090	ppbV	S	89
166) Indene	33.71	115	85387	2.7616	ppbV	S	94
169) n-Butylbenzene	34.19	91	256439	4.9559	ppbV #	S	1
170) 1-Undecene	35.47	55	137576	5.7466	ppbV #	S	54
171) n-Undecane	35.84	57	334195	4.8388	ppbV	S	77
173) Naphthalene	38.04	128	384869	6.8622	ppbV	S	95

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082408.D Vial: 1
Acq On : 24 Aug 2011 4:41 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:32 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082409.D Vial: 1
Acq On : 24 Aug 2011 5:48 pm Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:39 19111 Quant Results File: RA110612.RES

80/180

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.63	81	291437	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.16	117	122198	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	116916	1.9863 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	18.99	96	276131	1.9011 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.00%	
113) Toluene-d8	22.92	98	219328	2.3576 ppbV	0.00
Spiked Amount 2.000			Recovery	= 118.00%	
115) 1,4-Dichlorobutane	28.05	90	17137	1.8746 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.50%	
141) 1,4-Bromofluorobenzene	29.14	95	79131	1.8231 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.42	69	168224	5.5263 ppbV	S	85
8) Chlorodifluoromethane	5.56	51	395317	5.5923 ppbV	S	97
14) Acetaldehyde	7.54	44	84898m	6.4538 ppbV	S	
19) Methanol	8.31	31	38874m	5.5848 ppbV	S	
21) Neopentane	8.93	57	683918	5.6420 ppbV	S	98
22) Dichlorofluoromethane	10.18	67	499417	5.4455 ppbV	S	97
26) Vinyl bromide	10.41	106	195984	5.3868 ppbV	S	85
28) Ethanol	10.46	45	65493m	6.6629 ppbV	S	
29) Acetonitrile	10.61	41	164904m	5.4108 ppbV	S	
30) Acrolein	10.84	56	74073	5.4545 ppbV #	S	45
34) Acetone	11.13	43	412030m	5.6582 ppbV	S	
35) 2-Propanol	11.88	45	351244m	6.5843 ppbV	S	
36) Acrylonitrile	12.06	52	137674	5.5509 ppbV #	S	1
38) Diethyl ether	12.25	74	89631	5.3900 ppbV #	S	1
45) Carbon Disulfide	12.92	76	596209	5.2032 ppbV	S	94
52) 1-Propanol	14.31	59	34057	6.1776 ppbV #	S	1
58) Vinyl acetate	15.03	43	675370	6.7287 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.86	69	413365	6.2209 ppbV #	S	100
60) trans-4-Methyl-2-pentene	14.99	69	471210	6.2333 ppbV	S	92
61) Butyraldehyde	15.09	72	38591	5.8633 ppbV #	S	1
62) 2-Butanone	15.31	43	509153m	6.8769 ppbV	S	
70) 2-Ethyl-1-butene	16.25	69	245597	5.9216 ppbV #	S	75
73) cis-3-Hexene	16.43	55	312844	5.6777 ppbV	S	93
75) 2-Methyl-2-pentene	16.60	41	396238	5.5266 ppbV	S	90
76) cis-3-Methyl-2-pentene	16.72	69	303418	5.9316 ppbV	S	92
83) Methylcyclopentene	18.43	67	615291	8.9218 ppbV	S	93
86) 1-Butanol	18.66	56	148012	7.3189 ppbV	S	98
90) Cyclohexene	19.57	67	372790	8.1266 ppbV	S	84
95) 1,4-Dioxane	20.16	88	67980	5.6622 ppbV #	S	74
96) 1-Heptene	20.19	55	198920	7.0861 ppbV	S	93
99) trans-3-Heptene	20.60	41	362138	7.8222 ppbV	S	90
101) cis-3-Heptene	20.74	41	372665	7.7149 ppbV #	S	14
102) trans-2-Heptene	20.89	55	312839	7.3233 ppbV #	S	55
103) 2,4,4-Trimethyl-1-pentene	21.15	57	794210	8.2204 ppbV	S	94
105) Methylisobutylketone	21.63	43	544824	7.6261 ppbV #	S	1

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082409.D Vial: 1
Acq On : 24 Aug 2011 5:48 pm Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:39 19111 Quant Results File: RA110612.RES

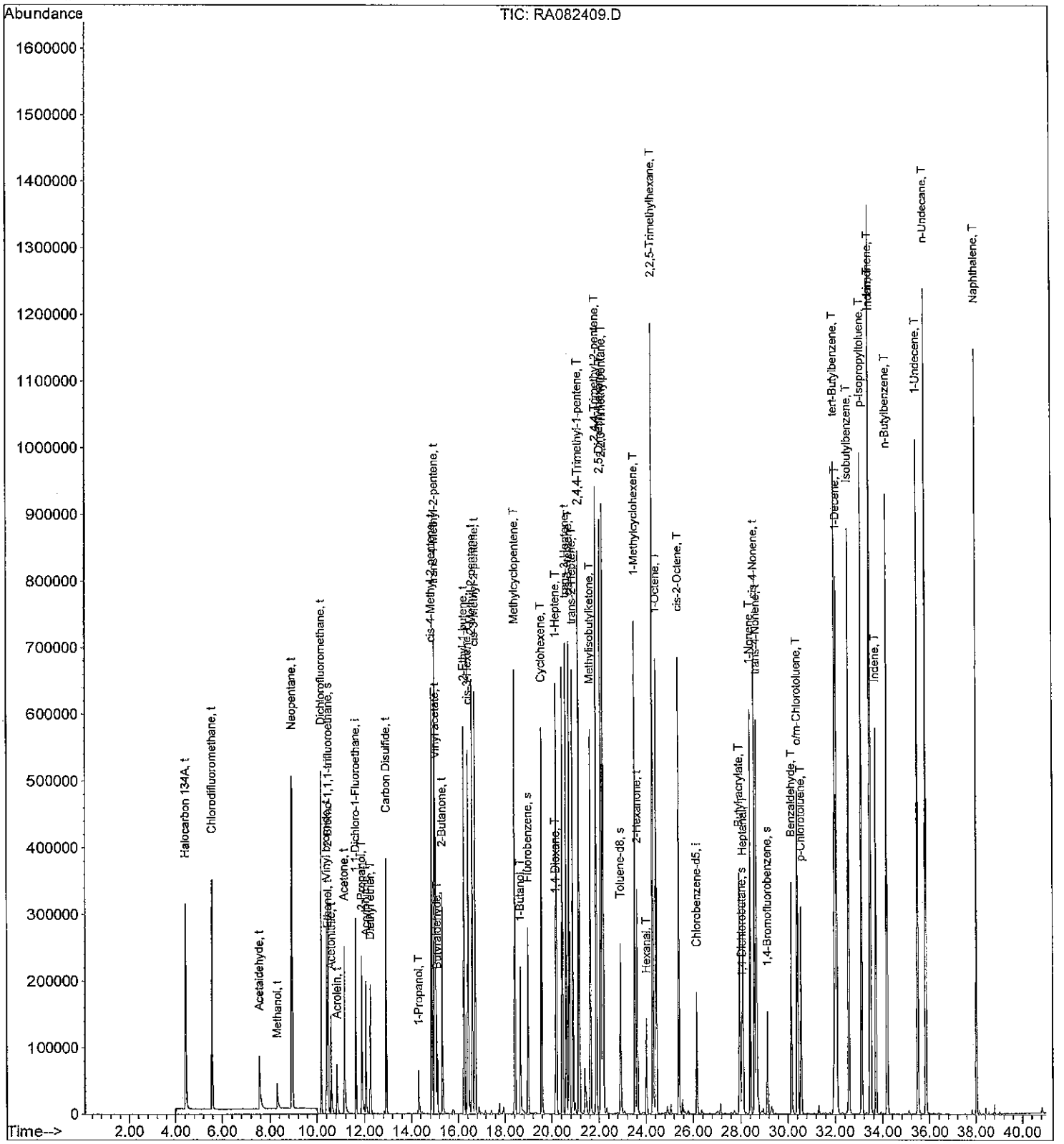
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	598333	7.9041	ppbV		S	83
108) 2,5-Dimethylhexane	22.08	57	583417	7.8063	ppbV		S	90
109) 2,2,3-Trimethylpentane	22.17	57	981472	7.8300	ppbV	#	S	38
116) 2-Hexanone	23.63	43	324238	5.7947	ppbV	#	S	23
118) 1-Methylcyclohexene	23.53	81	410344	8.1248	ppbV		S	92
121) Hexanal	24.02	44	52555	6.2141	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	1270715	8.4943	ppbV		S	96
124) 1-Octene	24.45	55	232004	6.6388	ppbV	#	S	1
127) cis-2-Octene	25.40	55	324494	7.2035	ppbV		S	94
132) Butyl acrylate	27.95	55	367830	8.0086	ppbV		S	86
133) Heptanal	28.09	70	80342	7.5159	ppbV	#	S	59
137) 1-Nonene	28.41	56	191241	6.0718	ppbV		S	98
138) cis-4-Nonene	28.59	55	441924	6.7732	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	366508	5.8022	ppbV		S	94
143) Benzaldehyde	30.16	77	186754	12.9086	ppbV	#	S	30
145) o/m-Chlorotoluene	30.42	91	634644	10.9465	ppbV	#	S	1
146) p-Chlorotoluene	30.57	91	287640	5.2500	ppbV	#	S	35
154) tert-Butylbenzene	32.00	119	695247	8.0030	ppbV	#	S	58
155) 1-Decene	32.07	56	220164	9.0777	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	837384	9.2376	ppbV	#	S	46
162) p-Isopropyltoluene	33.11	119	875910	12.7214	ppbV	#	S	42
164) Limonene	33.47	68	400770	10.4099	ppbV		S	83
165) Indan	33.49	117	424919	8.6930	ppbV		S	90
166) Indene	33.71	115	459520	13.6771	ppbV		S	93
169) n-Butylbenzene	34.19	91	860455	15.3031	ppbV	#	S	1
170) 1-Undecene	35.47	55	305037	11.7255	ppbV	#	S	55
171) n-Undecane	35.84	57	733430	9.7726	ppbV		S	77
173) Naphthalene	38.04	128	973267	15.9698	ppbV		S	96

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082409.D Vial: 1
Acq On : 24 Aug 2011 5:48 pm Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:39 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082410.D Vial: 1
Acq On : 24 Aug 2011 6:56 pm Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:46 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.62	81	290023	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.16	117	137377	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.47	83	119734	2.0441 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 102.00%	
65) Fluorobenzene	18.99	96	299950	2.0751 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 104.00%	
113) Toluene-d8	22.92	98	240981	2.3041 ppbV	0.00
Spiked Amount 2.000			Recovery	= 115.00%	
115) 1,4-Dichlorobutane	28.05	90	18662	1.8158 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	
141) 1,4-Bromofluorobenzene	29.13	95	87665	1.7965 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.42	69	259115m	8.5536 ppbV	S	
8) Chlorodifluoromethane	5.57	51	599586m	8.5233 ppbV	S	
14) Acetaldehyde	7.52	44	130758m	9.9885 ppbV	S	
19) Methanol	8.29	31	59070m	8.5277 ppbV	S	
21) Neopentane	8.93	57	1052536	8.7253 ppbV	S	98
22) Dichlorofluoromethane	10.17	67	753278	8.2536 ppbV	S	97
26) Vinyl bromide	10.40	106	297887	8.2276 ppbV	S	84
28) Ethanol	10.46	45	96660m	9.8815 ppbV	S	
29) Acetonitrile	10.60	41	253418m	8.3556 ppbV	S	
30) Acrolein	10.83	56	116975	8.6556 ppbV #	S	47
34) Acetone	11.12	43	624324m	8.6154 ppbV	S	
35) 2-Propanol	11.88	45	480777m	9.0564 ppbV	S	
36) Acrylonitrile	12.05	52	207774m	8.4182 ppbV	S	
38) Diethyl ether	12.25	74	136722	8.2619 ppbV #	S	1
45) Carbon Disulfide	12.92	76	909011	7.9717 ppbV	S	96
52) 1-Propanol	14.30	59	45919	8.3698 ppbV #	S	1
58) Vinyl acetate	15.02	43	1070242	10.7148 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.85	69	632270	9.5617 ppbV #	S	97
60) trans-4-Methyl-2-pentene	14.98	69	725951	9.6499 ppbV	S	91
61) Butyraldehyde	15.09	72	60117	9.1784 ppbV #	S	1
62) 2-Butanone	15.31	43	798066m	10.8316 ppbV	S	
70) 2-Ethyl-1-butene	16.24	69	381863	9.2520 ppbV	S	75
73) cis-3-Hexene	16.41	55	493466	8.9995 ppbV	S	92
75) 2-Methyl-2-pentene	16.59	41	609329	8.5402 ppbV	S	91
76) cis-3-Methyl-2-pentene	16.72	69	467754	9.1888 ppbV	S	90
83) Methylcyclopentene	18.42	67	970022	12.5113 ppbV	S	94
86) 1-Butanol	18.66	56	132957m	5.8481 ppbV	S	
90) Cyclohexene	19.57	67	577131	11.1911 ppbV	S	86
95) 1,4-Dioxane	20.16	88	121380	8.9930 ppbV	S	76
96) 1-Heptene	20.19	55	313623	9.9378 ppbV	S	94
99) trans-3-Heptene	20.60	41	569997	10.9517 ppbV	S	91
101) cis-3-Heptene	20.74	41	581017	10.6991 ppbV #	S	13
102) trans-2-Heptene	20.89	55	497920	10.3680 ppbV #	S	58
103) 2,4,4-Trimethyl-1-pentene	21.14	57	1218800	11.2212 ppbV	S	96
105) Methylisobutylketone	21.63	43	861159	10.7221 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082410.D Vial: 1
Acq On : 24 Aug 2011 6:56 pm Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:46 19111 Quant Results File: RA110612.RES

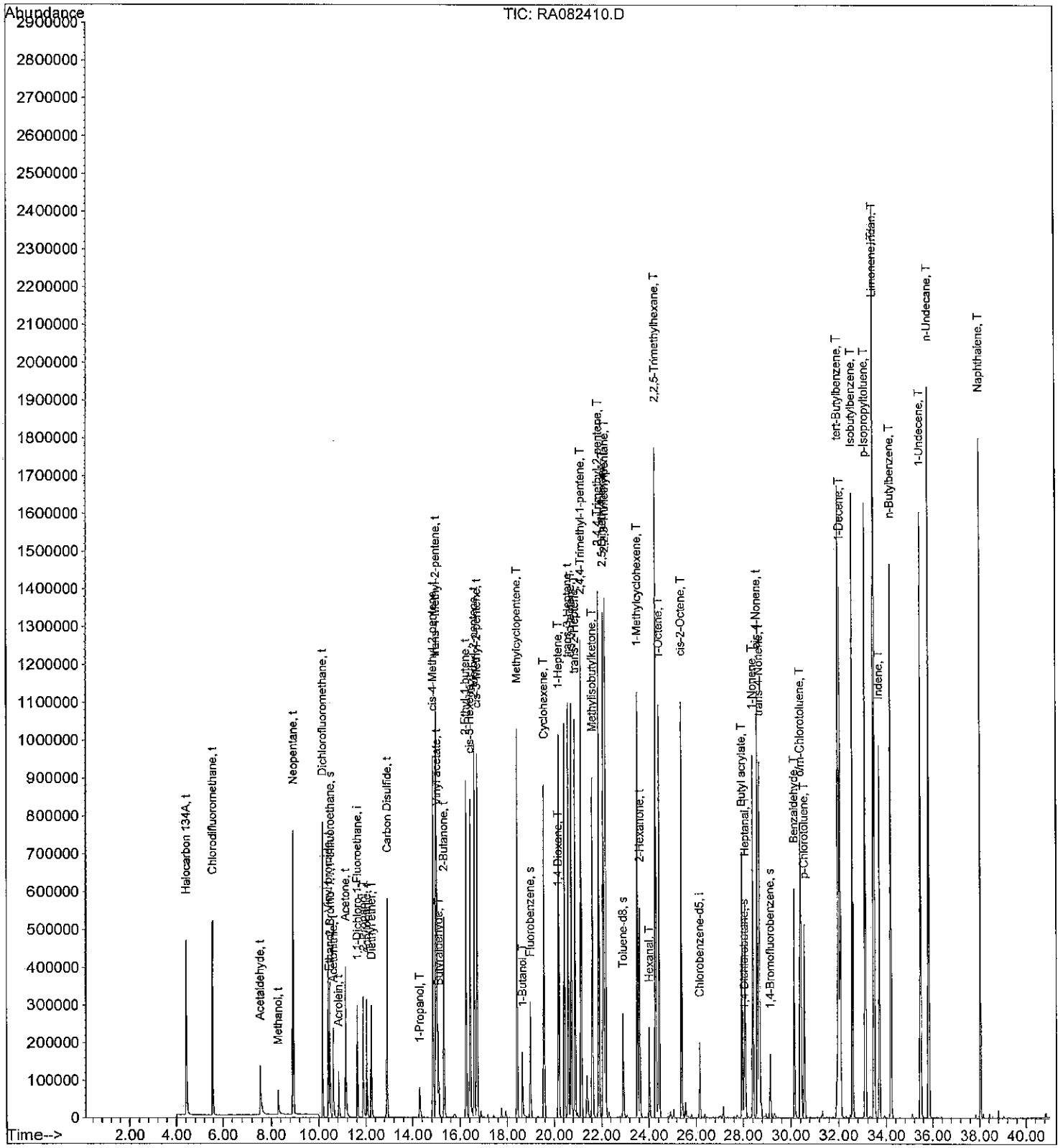
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107)	2,4,4-Trimethyl-2-pentene	21.89	55	907647	10.6654	ppbV		S	86
108)	2,5-Dimethylhexane	22.07	57	894434	10.6455	ppbV		S	91
109)	2,2,3-Trimethylpentane	22.17	57	1500317	10.6468	ppbV	#	S	38
116)	2-Hexanone	23.63	43	539732	8.5801	ppbV	#	S	22
118)	1-Methylcyclohexene	23.53	81	638652	11.2480	ppbV		S	92
121)	Hexanal	24.01	44	87745	9.2286	ppbV	#	S	1
123)	2,2,5-Trimethylhexane	24.29	57	1944312	11.5610	ppbV		S	97
124)	1-Octene	24.44	55	369684	9.4097	ppbV	#	S	1
127)	cis-2-Octene	25.40	55	520410	10.2762	ppbV		S	93
132)	Butyl acrylate	27.95	55	731607	14.1689	ppbV		S	86
133)	Heptanal	28.10	70	149755	12.4615	ppbV	#	S	57
137)	1-Nonene	28.41	56	313002	8.8396	ppbV		S	99
138)	cis-4-Nonene	28.59	55	717650	9.7838	ppbV	#	S	100
139)	trans-4-Nonene	28.68	55	544183	7.6632	ppbV		S	96
143)	Benzaldehyde	30.17	77	326084	20.0489	ppbV	#	S	30
145)	o/m-Chlorotoluene	30.42	91	1045888	16.0466	ppbV	#	S	1
146)	p-Chlorotoluene	30.58	91	479625	7.7868	ppbV	#	S	34
154)	tert-Butylbenzene	32.00	119	1208529	12.3743	ppbV	#	S	58
155)	1-Decene	32.08	56	395952	14.5218	ppbV	#	S	1
160)	Isobutylbenzene	32.57	91	1600608	15.7061	ppbV	#	S	46
162)	p-Isopropyltoluene	33.11	119	1469215	18.9807	ppbV	#	S	42
164)	Limonene	33.47	68	708655	16.3733	ppbV		S	86
165)	Indan	33.49	117	838262	15.2544	ppbV		S	90
166)	Indene	33.71	115	792655	20.9857	ppbV		S	93
169)	n-Butylbenzene	34.19	91	1377763	21.7959	ppbV	#	S	1
170)	1-Undecene	35.48	55	478167	16.3497	ppbV	#	S	58
171)	n-Undecane	35.84	57	1179672	13.9817	ppbV		S	80
173)	Naphthalene	38.03	128	1556396	22.7162	ppbV		S	96

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082410.D Vial: 1
Acq On : 24 Aug 2011 6:56 pm Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:46 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082411.D Vial: 1
Acq On : 24 Aug 2011 8:07 pm Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:53 19111 Quant Results File: RA110612.RES

86/180

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 9.20.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.61	81	288895	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.16	117	144232	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.47	83	121794	2.0874 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 104.50%	
65) Fluorobenzene	18.99	96	307766	2.1375 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 107.00%	
113) Toluene-d8	22.92	98	251985	2.2948 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.50%	
115) 1,4-Dichlorobutane	28.05	90	19596	1.8161 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	
141) 1,4-Bromofluorobenzene	29.14	95	91666	1.7892 ppbV	0.01
Spiked Amount 2.000			Recovery	= 89.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.41	69	352788m	11.6913 ppbV	S	
8) Chlorodifluoromethane	5.56	51	806696m	11.5123 ppbV	S	
14) Acetaldehyde	7.51	44	176695m	13.5503 ppbV	S	
19) Methanol	8.29	31	76417m	11.0751 ppbV	S	
21) Neopentane	8.92	57	1428579	11.8889 ppbV	S	98
22) Dichlorofluoromethane	10.16	67	1006803	11.0745 ppbV	S	97
26) Vinyl bromide	10.40	106	405293	11.2379 ppbV	S	84
28) Ethanol	10.45	45	117749m	12.0845 ppbV	S	
29) Acetonitrile	10.60	41	339222m	11.2283 ppbV	S	
30) Acrolein	10.82	56	157773m	11.7200 ppbV	S	
34) Acetone	11.11	43	832210m	11.5289 ppbV	S	
35) 2-Propanol	11.88	45	548658m	10.3755 ppbV	S	
36) Acrylonitrile	12.05	52	285506	11.6127 ppbV #	S	1
38) Diethyl ether	12.24	74	184037	11.1645 ppbV #	S	1
45) Carbon Disulfide	12.91	76	1219689	10.7380 ppbV	S	95
52) 1-Propanol	14.30	59	50943	9.3218 ppbV #	S	1
58) Vinyl acetate	15.01	43	1453463	14.6082 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.85	69	861363	13.0771 ppbV #	S	100
60) trans-4-Methyl-2-pentene	14.98	69	979094	13.0657 ppbV	S	89
61) Butyraldehyde	15.08	72	82318	12.6171 ppbV #	S	1
62) 2-Butanone	15.30	43	1073198m	14.6227 ppbV	S	
70) 2-Ethyl-1-butene	16.24	69	521266	12.6789 ppbV	S	79
73) cis-3-Hexene	16.41	55	673861	12.3374 ppbV	S	92
75) 2-Methyl-2-pentene	16.59	41	816398	11.4871 ppbV	S	90
76) cis-3-Methyl-2-pentene	16.72	69	635824	12.5392 ppbV	S	88
83) Methylcyclopentene	18.42	67	1328930	16.3258 ppbV	S	93
86) 1-Butanol	18.65	56	131504m	5.5092 ppbV	S	
90) Cyclohexene	19.56	67	795272	14.6881 ppbV	S	86
95) 1,4-Dioxane	20.15	88	165665	11.6907 ppbV	S	78
96) 1-Heptene	20.19	55	430122	12.9815 ppbV	S	93
99) trans-3-Heptene	20.60	41	770362	14.0979 ppbV	S	91
101) cis-3-Heptene	20.74	41	788873	13.8363 ppbV #	S	14
102) trans-2-Heptene	20.89	55	687013	13.6255 ppbV #	S	58
103) 2,4,4-Trimethyl-1-pentene	21.14	57	1655837	14.5203 ppbV	S	97
105) Methylisobutylketone	21.63	43	1174637	13.9300 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082411.D Vial: 1
Acq On : 24 Aug 2011 8:07 pm Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:53 19111 Quant Results File: RA110612.RES

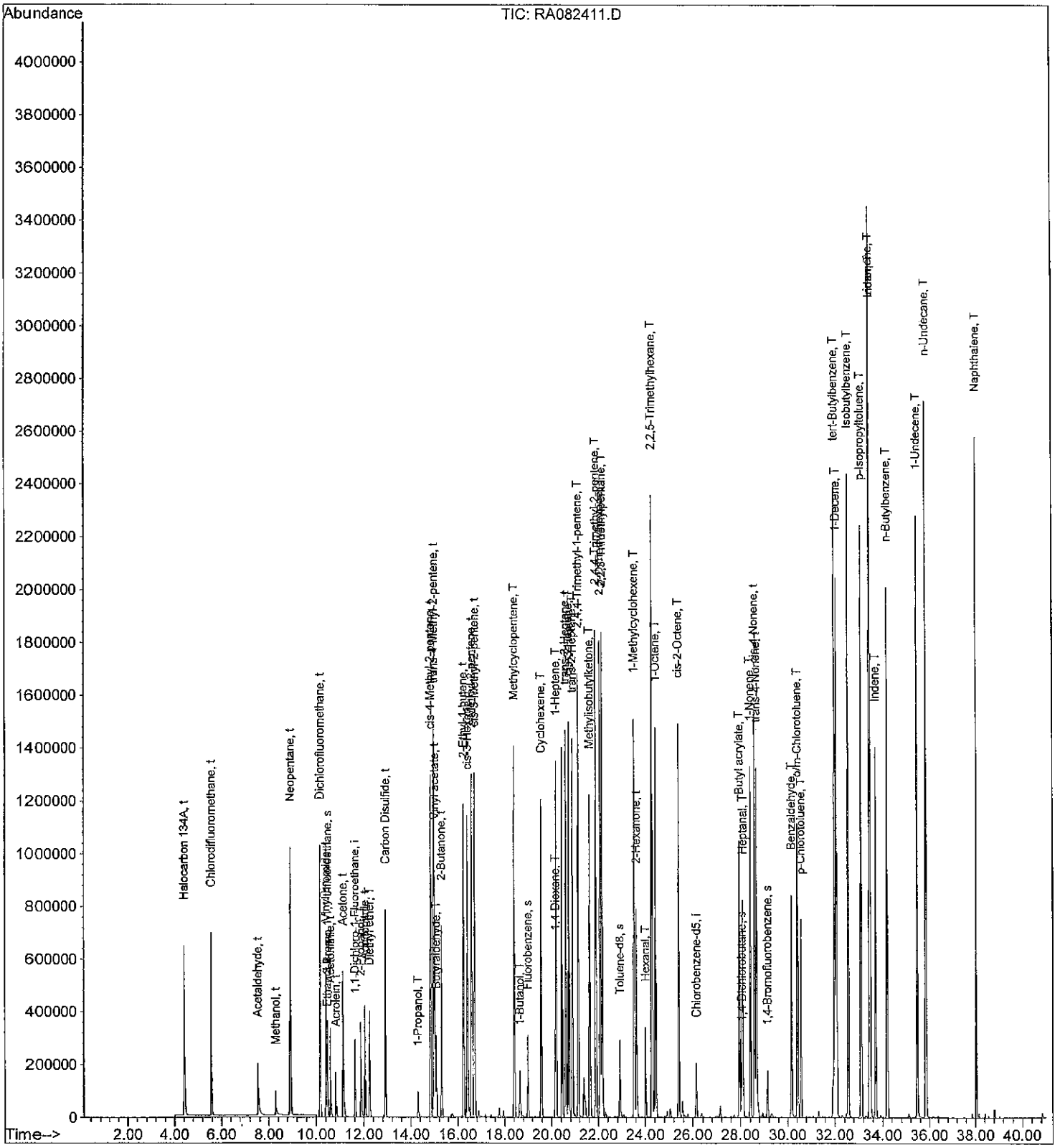
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	1210970	13.5533	ppbV		S	86
108) 2,5-Dimethylhexane	22.08	57	1215107	13.7748	ppbV		S	93
109) 2,2,3-Trimethylpentane	22.17	57	2031899	13.7337	ppbV	#	S	37
116) 2-Hexanone	23.63	43	760102	11.5091	ppbV	#	S	22
118) 1-Methylcyclohexene	23.53	81	879985	14.7618	ppbV		S	93
121) Hexanal	24.01	44	126051	12.6274	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	2614130	14.8050	ppbV		S	97
124) 1-Octene	24.44	55	512527	12.4255	ppbV	#	S	1
127) cis-2-Octene	25.40	55	722563	13.5899	ppbV		S	91
132) Butyl acrylate	27.96	55	1083296	19.9829	ppbV		S	83
133) Heptanal	28.10	70	219711	17.4138	ppbV	#	S	58
137) 1-Nonene	28.41	56	449169	12.0822	ppbV		S	95
138) cis-4-Nonene	28.59	55	1012445	13.1467	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	771897	10.3532	ppbV		S	96
143) Benzaldehyde	30.17	77	461402	27.0204	ppbV	#	S	29
145) o/m-Chlorotoluene	30.42	91	1522196	22.2443	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	706762	10.9291	ppbV	#	S	34
154) tert-Butylbenzene	32.00	119	1770272	17.2645	ppbV	#	S	59
155) 1-Decene	32.08	56	582616	20.3523	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	2377628	22.2218	ppbV	#	S	46
162) p-Isopropyltoluene	33.11	119	2072115	25.4973	ppbV	#	S	41
164) Limonene	33.47	68	1018953	22.4238	ppbV		S	87
165) Indan	33.49	117	1290965	22.3760	ppbV		S	92
166) Indene	33.72	115	1137479	28.6837	ppbV		S	93
169) n-Butylbenzene	34.20	91	1933309	29.1309	ppbV	#	S	1
170) 1-Undecene	35.48	55	694822	22.6285	ppbV	#	S	61
171) n-Undecane	35.84	57	1695152	19.1364	ppbV		S	82
173) Naphthalene	38.04	128	2320649	32.2610	ppbV		S	97

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082411.D Vial: 1
Acq On : 24 Aug 2011 8:07 pm Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:53 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	280235	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	101679	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	114479	2.0227 ppbV	0.01
Spiked Amount 2.000			Recovery	= 101.00%	
65) Fluorobenzene	19.00	96	252721	1.8095 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	
113) Toluene-d8	22.93	98	178378	2.3044 ppbV	0.01
Spiked Amount 2.000			Recovery	= 115.00%	
115) 1,4-Dichlorobutane	28.05	90	13898	1.8271 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.50%	
141) 1,4-Bromofluorobenzene	29.14	95	67898	1.8799 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.00%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	1971m	0.2428 ppbV	S	
4) Acetylene	3.54	26	4178	0.4040 ppbV	S	91
5) Ethane	3.62	26	1508	0.3609 ppbV	S	99
7) Propylene	5.22	41	6068	0.2750 ppbV	S	90
9) Propane	5.37	43	2943	0.2768 ppbV	S	86
10) Dichlorodifluoromethane	5.89	85	37894	0.2998 ppbV	S	97
11) Chloromethane	6.73	50	8988	0.2803 ppbV	S	92
12) Isobutane	7.39	43	18152	0.2836 ppbV	S	86
13) Halocarbon 114	7.60	85	33472	0.2960 ppbV	S	91
15) Vinyl chloride	7.82	62	10217	0.2881 ppbV	S	97
16) 1-Butene/Isobutene	8.26	41	12531	0.2781 ppbV	S	78
17) 1,3-Butadiene	8.37	39	8551	0.3032 ppbV	S	97
18) n-Butane	8.52	43	15898	0.2764 ppbV	S	96
20) trans-2-Butene	8.90	41	11787	0.2799 ppbV	S	89
23) Bromomethane	9.07	94	9480	0.2828 ppbV	S	89
24) cis-2-Butene	9.38	41	12501	0.2950 ppbV	S	87
25) Chloroethane	9.67	64	5504	0.2838 ppbV	S	89
27) 3-Methyl-1-butene	10.47	55	25841	0.3022 ppbV	S	79
31) Isopentane	11.09	41	12583	0.2847 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	36817	0.3073 ppbV #	S	67
33) 1-Pentene	11.67	42	13791	0.2933 ppbV #	S	1
37) n-Pentane	12.10	43	18599	0.2957 ppbV	S	84
39) Isoprene	12.27	67	12269	0.2924 ppbV	S	92
40) trans-2-Pentene	12.43	55	20864	0.2920 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	20458	0.3047 ppbV #	S	9
42) cis-2-Pentene	12.72	55	19704	0.2776 ppbV #	S	1
43) Methylene chloride	12.85	49	13288	0.2899 ppbV #	S	1
44) 2-Methyl-2-butene	12.91	55	21297	0.2969 ppbV #	S	1
46) 3-Chloropropene	13.01	41	11785	0.3149 ppbV #	S	1
47) Halocarbon 113	13.32	151	14353	0.3024 ppbV #	S	100
48) Neohexane	13.48	43	14987	0.2908 ppbV #	S	1
49) Cyclopentene	14.18	67	21889	0.2879 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.34	61	16824	0.3071 ppbV #	S	1
51) 4-Methyl-1-pentene	14.38	43	15146	0.2940 ppbV	S	89
53) 1,1-Dichloroethane	14.64	63	23963	0.3574 ppbV	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.62	42	19028	0.3224	ppbV		S	81
55)	2,3-Dimethylbutane	14.73	43	26014	0.3346	ppbV	#	S	59
56)	Methyl tert-butyl ether	14.84	73	30007m	0.3420	ppbV		S	
57)	Isohexane	14.94	42	13823m	0.3591	ppbV		S	
63)	Chloroprene	15.52	53	21333	0.3545	ppbV		S	81
64)	3-Methylpentane	15.54	57	21824	0.3294	ppbV		S	93
66)	2-Methyl-1-pentene	15.77	56	17765	0.2882	ppbV	#	S	1
67)	1-Hexene	15.80	41	12887m	0.3088	ppbV		S	
68)	cis-1,2-Dichloroethene	15.94	61	17764	0.3043	ppbV	#	S	1
69)	Bromochloromethane	16.17	130	7938	0.2816	ppbV	#	S	1
71)	n-Hexane	16.30	57	17329	0.2915	ppbV	#	S	1
72)	Chloroform	16.41	83	28868	0.2966	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	20636	0.2769	ppbV	#	S	1
77)	cis-2-Hexene	16.92	55	16308	0.2499	ppbV		S	96
78)	Methylcyclopentane	17.42	56	20914	0.2808	ppbV		S	86
79)	1,2-Dichloroethane	17.46	62	22565	0.2743	ppbV		S	87
80)	2,4-Dimethylpentane	17.61	43	25434	0.2993	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.80	97	32218	0.2952	ppbV	#	S	1
84)	Benzene	18.48	78	25445	0.4526	ppbV		S	76
85)	Carbon tetrachloride	18.71	117	31746	0.5056	ppbV	#	S	1
87)	Cyclohexane	18.88	56	18386	0.5218	ppbV	#	S	1
88)	Isoheptane	19.27	43	25897	0.4878	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.35	56	22399m	0.4910	ppbV		S	
91)	3-Methylhexane	19.64	43	20582	0.4931	ppbV	#	S	70
92)	1,2-Dichloropropane	19.75	63	9935	0.4161	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	23735	0.3916	ppbV	#	S	1
94)	Trichloroethene	20.14	130	10130	0.3941	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	60734	0.4918	ppbV		S	88
98)	2-Chloropentane	20.46	70	12836	0.3845	ppbV	#	S	14
100)	n-Heptane	20.70	71	9526	0.4435	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	11286	0.3320	ppbV	#	S	1
106)	Methylcyclohexane	21.62	83	19155	0.4661	ppbV		S	97
110)	trans-1,3-Dichloropropene	22.41	75	10716	0.3130	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	7132	0.3143	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.88	43	35624	0.5145	ppbV		S	93
114)	Toluene	23.08	91	21428	0.3447	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	23945	0.4595	ppbV	#	S	28
119)	Dibromochloromethane	23.77	129	12796	0.3020	ppbV	#	S	37
120)	3-Methylheptane	23.85	85	13162	0.4296	ppbV	#	S	1
122)	1,2-Dibromoethane	24.18	107	10332	0.3153	ppbV	#	S	1
125)	n-Octane	24.92	43	19573	0.3693	ppbV	#	S	47
126)	Tetrachloroethene	25.02	164	8016	0.3216	ppbV		S	92
128)	Chlorobenzene	26.23	112	10814	0.2746	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	18754	0.2798	ppbV		S	92
130)	m/p-Xylene	27.36	91	33419m	0.5520	ppbV		S	
131)	Bromoform	27.38	173	7867	0.2726	ppbV	#	S	1
134)	Styrene	28.03	104	8015	0.2565	ppbV	#	S	27
135)	1,1,2,2-Tetrachloroethane	28.23	83	11869	0.2966	ppbV		S	92
136)	o-Xylene	28.22	91	17534	0.2897	ppbV		S	85
140)	n-Nonane	28.85	43	15238	0.2867	ppbV	#	S	73
142)	Isopropylbenzene	29.45	105	24259	0.2630	ppbV		S	100

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

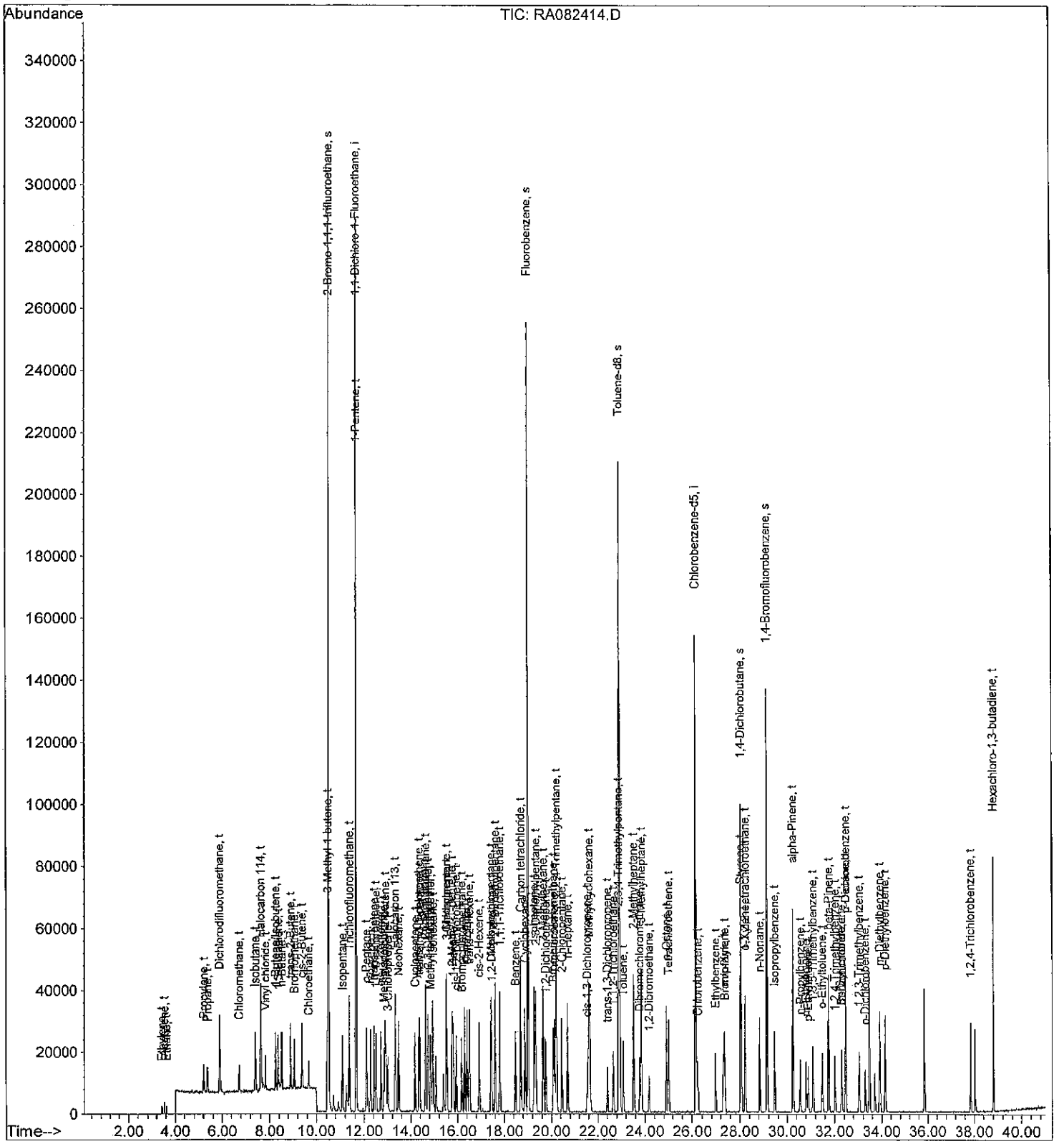
Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144) alpha-Pinene	30.24	93	35954	0.4862	ppbV		S	95
147) n-Propylbenzene	30.56	91	20673	0.2360	ppbV	#	S	35
148) m-Ethyltoluene	30.81	105	15451	0.2409	ppbV		S	88
149) p-Ethyltoluene	30.90	105	13780	0.2207	ppbV		S	89
150) 1,3,5-Trimethylbenzene	31.10	105	18196	0.2860	ppbV		S	81
151) o-Ethyltoluene	31.48	105	17052	0.2433	ppbV		S	92
152) beta-Pinene	31.76	93	24147	0.3119	ppbV	#	S	1
153) 1,2,4-Trimethylbenzene	32.02	105	15223	0.2786	ppbV	#	S	1
156) Benzyl chloride	32.29	91	9138	0.2971	ppbV		S	97
157) m-Dichlorobenzene	32.31	146	6500	0.2458	ppbV		S	84
158) n-Decane	32.47	57	19296m	0.3651	ppbV		S	
159) p-Dichlorobenzene	32.47	146	5915	0.2376	ppbV		S	74
161) 1,2,3-Trimethylbenzene	33.03	105	16786	0.3001	ppbV		S	89
163) o-Dichlorobenzene	33.30	146	7253	0.3055	ppbV		S	84
167) m-Diethylbenzene	33.91	105	17862	0.4486	ppbV	#	S	24
168) p-Diethylbenzene	34.15	119	14994	0.4762	ppbV	#	S	1
172) 1,2,4-Trichlorobenzene	37.84	180	9260	0.4563	ppbV	#	S	100
174) Hexachloro-1,3-butadiene	38.81	225	15715	0.3666	ppbV		S	95

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	281748	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	106787	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	113931	2.0022 ppbV	0.01
Spiked Amount 2.000			Recovery	= 100.00%	
65) Fluorobenzene	19.00	96	258247	1.8391 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.00%	
113) Toluene-d8	22.92	98	189206	2.3273 ppbV	0.00
Spiked Amount 2.000			Recovery	= 116.50%	
115) 1,4-Dichlorobutane	28.06	90	15049	1.8837 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.00%	
141) 1,4-Bromofluorobenzene	29.14	95	71125	1.8751 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.00%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	4763m	0.5836 ppbV	S	
4) Acetylene	3.54	26	8598m	0.8269 ppbV	S	
5) Ethane	3.62	26	3263	0.7768 ppbV	S	97
7) Propylene	5.21	41	12607	0.5683 ppbV	S	93
9) Propane	5.37	43	5689	0.5322 ppbV	S	80
10) Dichlorodifluoromethane	5.89	85	73857	0.5812 ppbV	S	98
11) Chloromethane	6.73	50	18079	0.5608 ppbV	S	98
12) Isobutane	7.38	43	36150	0.5617 ppbV	S	93
13) Halocarbon 114	7.60	85	67482	0.5935 ppbV	S	88
15) Vinyl chloride	7.82	62	19973	0.5602 ppbV	S	98
16) 1-Butene/Isobutene	8.26	41	25849	0.5707 ppbV	S	75
17) 1,3-Butadiene	8.37	39	17555	0.6191 ppbV	S	97
18) n-Butane	8.52	43	32641	0.5645 ppbV	S	94
20) trans-2-Butene	8.90	41	24305	0.5740 ppbV	S	89
23) Bromomethane	9.06	94	19230	0.5705 ppbV	S	91
24) cis-2-Butene	9.37	41	25677	0.6027 ppbV	S	90
25) Chloroethane	9.66	64	10993	0.5638 ppbV	S	93
27) 3-Methyl-1-butene	10.46	55	51076	0.5942 ppbV	S	78
31) Isopentane	11.09	41	25346	0.5704 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	75124	0.6236 ppbV #	S	73
33) 1-Pentene	11.67	42	28065	0.5936 ppbV #	S	1
37) n-Pentane	12.10	43	37546	0.5937 ppbV #	S	83
39) Isoprene	12.26	67	24606	0.5832 ppbV	S	96
40) trans-2-Pentene	12.42	55	42799	0.5958 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	41294	0.6118 ppbV #	S	10
42) cis-2-Pentene	12.72	55	42348	0.5934 ppbV #	S	1
43) Methylene chloride	12.85	49	27583	0.5986 ppbV #	S	1
44) 2-Methyl-2-butene	12.90	55	44482	0.6167 ppbV #	S	1
46) 3-Chloropropene	13.01	41	26211	0.6966 ppbV #	S	1
47) Halocarbon 113	13.32	151	29146	0.6107 ppbV #	S	100
48) Neohexane	13.47	43	31176	0.6017 ppbV #	S	1
49) Cyclopentene	14.17	67	44559	0.5830 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.34	61	34598	0.6282 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	31103	0.6005 ppbV	S	90
53) 1,1-Dichloroethane	14.64	63	49514	0.7346 ppbV	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.62	42	39721	0.6693	ppbV		S	80
55)	2,3-Dimethylbutane	14.73	43	52851	0.6760	ppbV	#	S	65
56)	Methyl tert-butyl ether	14.83	73	64490	0.7310	ppbV	#	S	1
57)	Isohexane	14.93	42	27531m	0.7114	ppbV		S	
63)	Chloroprene	15.51	53	44434	0.7344	ppbV		S	80
64)	3-Methylpentane	15.53	57	44933	0.6746	ppbV		S	93
66)	2-Methyl-1-pentene	15.77	56	39191	0.6324	ppbV	#	S	1
67)	1-Hexene	15.80	41	24403m	0.5817	ppbV		S	
68)	cis-1,2-Dichloroethene	15.94	61	36021	0.6137	ppbV	#	S	1
69)	Bromochloromethane	16.17	130	16096	0.5680	ppbV	#	S	1
71)	n-Hexane	16.30	57	36453	0.6098	ppbV	#	S	1
72)	Chloroform	16.41	83	59642	0.6094	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	45650	0.6092	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	36117	0.5505	ppbV		S	95
78)	Methylcyclopentane	17.43	56	45401	0.6062	ppbV		S	89
79)	1,2-Dichloroethane	17.45	62	49243	0.5953	ppbV		S	89
80)	2,4-Dimethylpentane	17.61	43	52596	0.6156	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.81	97	66707	0.6078	ppbV	#	S	1
84)	Benzene	18.48	78	54189	0.9177	ppbV		S	75
85)	Carbon tetrachloride	18.70	117	64791	0.9826	ppbV	#	S	1
87)	Cyclohexane	18.87	56	39827	1.0762	ppbV	#	S	1
88)	Isoheptane	19.27	43	55648	0.9981	ppbV	#	S	32
89)	2,3-Dimethylpentane	19.34	56	46679m	0.9743	ppbV		S	
91)	3-Methylhexane	19.65	43	43199	0.9855	ppbV	#	S	84
92)	1,2-Dichloropropane	19.75	63	20828	0.8305	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	51996	0.8168	ppbV	#	S	1
94)	Trichloroethene	20.14	130	21167	0.7841	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	127356	0.9819	ppbV		S	91
98)	2-Chloropentane	20.46	70	28948	0.8256	ppbV	#	S	14
100)	n-Heptane	20.69	71	19985	0.8859	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	25213	0.7062	ppbV	#	S	1
106)	Methylcyclohexane	21.62	83	41443	0.9601	ppbV		S	96
110)	trans-1,3-Dichloropropene	22.42	75	24186	0.6726	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.66	97	16554	0.6947	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	72897	1.0024	ppbV		S	91
114)	Toluene	23.09	91	46956	0.7192	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	51721	0.9451	ppbV	#	S	1
119)	Dibromochloromethane	23.77	129	28757	0.6463	ppbV	#	S	38
120)	3-Methylheptane	23.85	85	29021	0.9018	ppbV	#	S	1
122)	1,2-Dibromoethane	24.18	107	22338	0.6491	ppbV	#	S	1
125)	n-Octane	24.92	43	45655	0.8203	ppbV	#	S	47
126)	Tetrachloroethene	25.02	164	17644	0.6741	ppbV		S	96
128)	Chlorobenzene	26.24	112	24935	0.6029	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	44081	0.6261	ppbV		S	97
130)	m/p-Xylene	27.35	91	78569m	1.2357	ppbV		S	
131)	Bromoform	27.38	173	17498	0.5773	ppbV	#	S	1
134)	Styrene	28.02	104	18078	0.5508	ppbV	#	S	22
135)	1,1,2,2-Tetrachloroethane	28.23	83	25138	0.5980	ppbV		S	93
136)	o-Xylene	28.23	91	41147	0.6473	ppbV		S	84
140)	n-Nonane	28.84	43	36748	0.6583	ppbV	#	S	70
142)	Isopropylbenzene	29.46	105	57729	0.5959	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

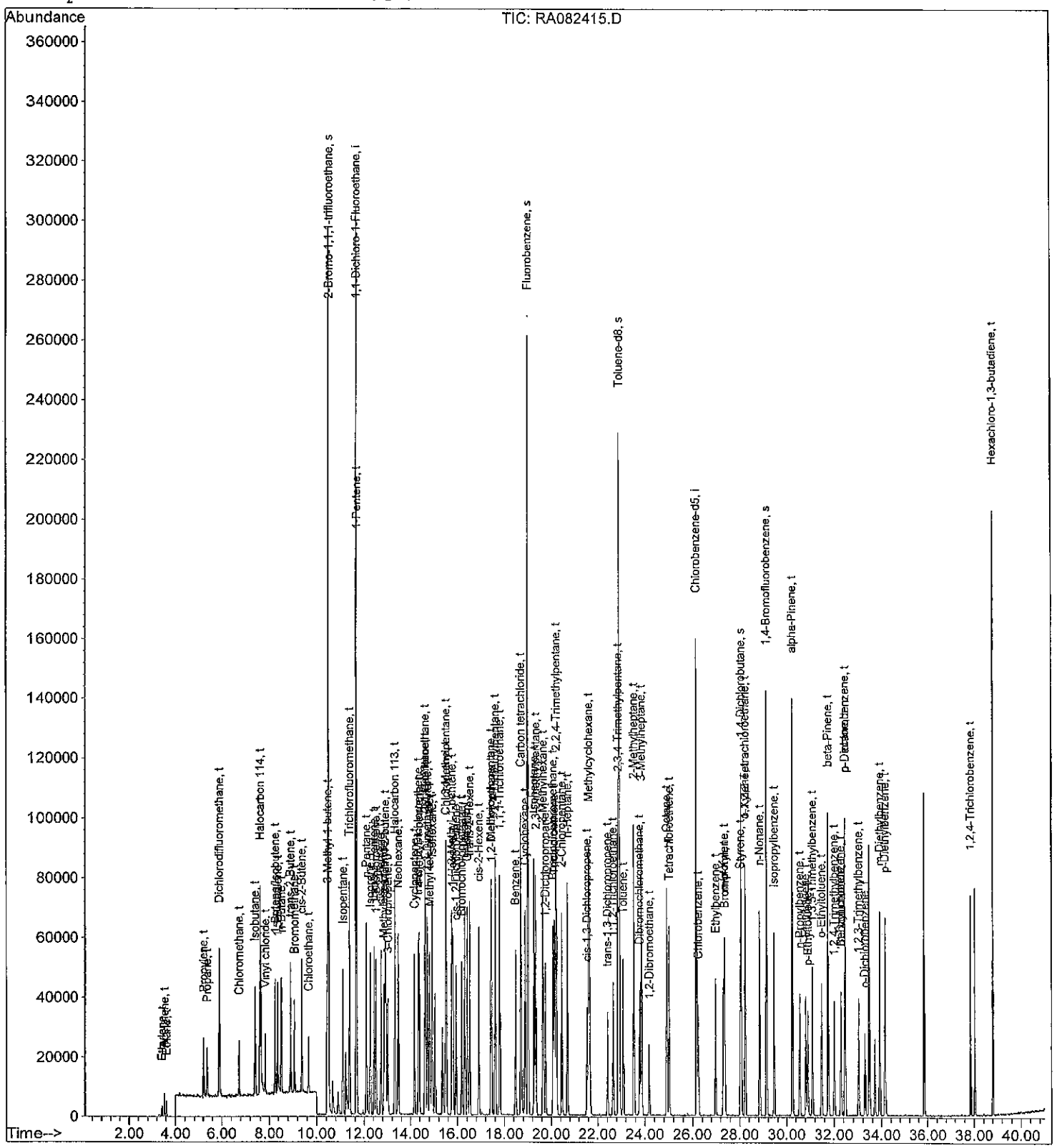
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
144) alpha-Pinene	30.25	93	79260	1.0205 ppbV	S	96
147) n-Propylbenzene	30.56	91	46665	0.5073 ppbV #	S	36
148) m-Ethyltoluene	30.81	105	35006	0.5197 ppbV	S	87
149) p-Ethyltoluene	30.89	105	32336	0.4932 ppbV	S	84
150) 1,3,5-Trimethylbenzene	31.10	105	41885	0.6269 ppbV	S	83
151) o-Ethyltoluene	31.49	105	40609	0.5518 ppbV	S	86
152) beta-Pinene	31.77	93	53952	0.6636 ppbV #	S	1
153) 1,2,4-Trimethylbenzene	32.02	105	34127	0.5947 ppbV #	S	1
156) Benzyl chloride	32.30	91	16897	0.5232 ppbV	S	94
157) m-Dichlorobenzene	32.30	146	14111	0.5082 ppbV	S	84
158) n-Decane	32.47	57	39716m	0.7154 ppbV	S	
159) p-Dichlorobenzene	32.47	146	13021	0.4980 ppbV	S	79
161) 1,2,3-Trimethylbenzene	33.04	105	34583	0.5887 ppbV	S	85
163) o-Dichlorobenzene	33.29	146	14669	0.5884 ppbV	S	91
167) m-Diethylbenzene	33.92	105	38141	0.9120 ppbV #	S	25
168) p-Diethylbenzene	34.15	119	31216	0.9440 ppbV #	S	1
172) 1,2,4-Trichlorobenzene	37.85	180	23065	1.0822 ppbV #	S	100
174) Hexachloro-1,3-butadiene	38.81	225	37598	0.8350 ppbV	S	89

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 9-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	277742	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	104069	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	111959	1.9959 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
65) Fluorobenzene	19.00	96	252767	1.8260 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.50%	
113) Toluene-d8	22.92	98	187975	2.3726 ppbV	0.00
Spiked Amount 2.000			Recovery	= 118.50%	
115) 1,4-Dichlorobutane	28.06	90	14724	1.8912 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.50%	
141) 1,4-Bromofluorobenzene	29.13	95	70784	1.9148 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.50%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	9370m	1.1647 ppbV	S	
4) Acetylene	3.54	26	16460	1.6058 ppbV	S	91
5) Ethane	3.62	26	5911	1.4274 ppbV	S	95
7) Propylene	5.21	41	24520	1.1212 ppbV	S	96
9) Propane	5.37	43	11111	1.0543 ppbV	S	89
10) Dichlorodifluoromethane	5.88	85	146453	1.1691 ppbV	S	99
11) Chloromethane	6.73	50	34387	1.0821 ppbV	S	96
12) Isobutane	7.37	43	71206	1.1224 ppbV	S	93
13) Halocarbon 114	7.59	85	125454	1.1193 ppbV	S	88
15) Vinyl chloride	7.81	62	38543	1.0966 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	48850	1.0940 ppbV	S	74
17) 1,3-Butadiene	8.36	39	33484	1.1979 ppbV	S	94
18) n-Butane	8.52	43	60588	1.0629 ppbV	S	93
20) trans-2-Butene	8.89	41	45543	1.0911 ppbV	S	93
23) Bromomethane	9.06	94	36011	1.0838 ppbV	S	91
24) cis-2-Butene	9.37	41	48577	1.1567 ppbV	S	90
25) Chloroethane	9.64	64	20350	1.0587 ppbV	S	91
27) 3-Methyl-1-butene	10.46	55	94864	1.1195 ppbV	S	79
31) Isopentane	11.08	41	47425	1.0826 ppbV #	S	1
32) Trichlorofluoromethane	11.35	101	138460	1.1659 ppbV #	S	69
33) 1-Pentene	11.66	42	51448	1.1039 ppbV #	S	1
37) n-Pentane	12.09	43	69788	1.1194 ppbV #	S	84
39) Isoprene	12.26	67	45182	1.0863 ppbV	S	93
40) trans-2-Pentene	12.42	55	79438	1.1218 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	77619	1.1665 ppbV #	S	9
42) cis-2-Pentene	12.71	55	77978	1.1085 ppbV #	S	1
43) Methylene chloride	12.83	49	51009	1.1230 ppbV #	S	1
44) 2-Methyl-2-butene	12.89	55	81699	1.1490 ppbV #	S	1
46) 3-Chloropropene	13.00	41	48049	1.2954 ppbV #	S	1
47) Halocarbon 113	13.31	151	53399	1.1350 ppbV #	S	100
48) Neohexane	13.46	43	57525	1.1263 ppbV #	S	1
49) Cyclopentene	14.17	67	84478	1.1212 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.33	61	63371	1.1673 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	56710	1.1107 ppbV	S	90
53) 1,1-Dichloroethane	14.62	63	91064	1.3705 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.61	42	75961	1.2985	ppbV		S	82
55)	2,3-Dimethylbutane	14.72	43	97282	1.2623	ppbV	#	S	62
56)	Methyl tert-butyl ether	14.81	73	122729	1.4112	ppbV	#	S	1
57)	Isohexane	14.93	42	51433m	1.3482	ppbV		S	
63)	Chloroprene	15.50	53	81639	1.3687	ppbV		S	77
64)	3-Methylpentane	15.52	57	84721	1.2903	ppbV		S	95
66)	2-Methyl-1-pentene	15.76	56	79542	1.3021	ppbV	#	S	1
67)	1-Hexene	15.80	41	50060m	1.2105	ppbV		S	
68)	cis-1,2-Dichloroethene	15.93	61	68210	1.1789	ppbV	#	S	1
69)	Bromochloromethane	16.16	130	30280	1.0839	ppbV	#	S	1
71)	n-Hexane	16.29	57	70296	1.1929	ppbV	#	S	1
72)	Chloroform	16.40	83	107630	1.1157	ppbV	#	S	1
74)	trans-2-Hexene	16.50	55	84307	1.1413	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	69357	1.0724	ppbV		S	95
78)	Methylcyclopentane	17.42	56	84951	1.1507	ppbV		S	86
79)	1,2-Dichloroethane	17.45	62	86351	1.0590	ppbV		S	90
80)	2,4-Dimethylpentane	17.61	43	99792	1.1848	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.80	97	125658	1.1615	ppbV	#	S	1
84)	Benzene	18.47	78	101842	1.7698	ppbV		S	77
85)	Carbon tetrachloride	18.70	117	123367	1.9198	ppbV	#	S	1
87)	Cyclohexane	18.87	56	73744	2.0447	ppbV	#	S	1
88)	Isoheptane	19.26	43	106160	1.9539	ppbV	#	S	31
89)	2,3-Dimethylpentane	19.33	56	87144m	1.8665	ppbV		S	
91)	3-Methylhexane	19.65	43	82285	1.9262	ppbV	#	S	80
92)	1,2-Dichloropropane	19.75	63	38904	1.5918	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	93936	1.5142	ppbV	#	S	1
94)	Trichloroethene	20.13	130	38269	1.4547	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	238866	1.8898	ppbV		S	90
98)	2-Chloropentane	20.45	70	56077	1.6411	ppbV	#	S	14
100)	n-Heptane	20.69	71	39907	1.8152	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	43894	1.2616	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	79887	1.8991	ppbV		S	96
110)	trans-1,3-Dichloropropene	22.41	75	42996	1.2269	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	29654	1.2769	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	138176	1.9496	ppbV		S	93
114)	Toluene	23.09	91	88890	1.3971	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	100577	1.8858	ppbV	#	S	6
119)	Dibromochloromethane	23.77	129	52485	1.2104	ppbV	#	S	38
120)	3-Methylheptane	23.85	85	55762	1.7780	ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	35876	1.0698	ppbV	#	S	1
125)	n-Octane	24.91	43	90033	1.6599	ppbV	#	S	47
126)	Tetrachloroethene	25.02	164	31707	1.2430	ppbV		S	94
128)	Chlorobenzene	26.24	112	45471	1.1282	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	91008	1.3265	ppbV		S	98
130)	m/p-Xylene	27.31	91	155632m	2.5117	ppbV		S	
131)	Bromoform	27.38	173	32422	1.0976	ppbV	#	S	1
134)	Styrene	28.02	104	36099	1.1286	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	48534	1.1848	ppbV		S	93
136)	o-Xylene	28.22	91	81938	1.3227	ppbV		S	89
140)	n-Nonane	28.84	43	75546	1.3887	ppbV	#	S	70
142)	Isopropylbenzene	29.45	105	116310	1.2319	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
144) alpha-Pinene	30.24	93	154033	2.0351	ppbV	S	95
147) n-Propylbenzene	30.56	91	97495	1.0875	ppbV #	S	34
148) m-Ethyltoluene	30.81	105	71652	1.0916	ppbV	S	89
149) p-Ethyltoluene	30.89	105	65727	1.0287	ppbV	S	86
150) 1,3,5-Trimethylbenzene	31.10	105	82379	1.2651	ppbV	S	90
151) o-Ethyltoluene	31.49	105	81834	1.1410	ppbV	S	89
152) beta-Pinene	31.77	93	106644	1.3459	ppbV #	S	1
153) 1,2,4-Trimethylbenzene	32.02	105	67008	1.1982	ppbV #	S	1
156) Benzyl chloride	32.30	91	26915	0.8551	ppbV	S	97
157) m-Dichlorobenzene	32.30	146	27307	1.0091	ppbV	S	85
158) n-Decane	32.47	57	65710	1.2146	ppbV	S	68
159) p-Dichlorobenzene	32.48	146	24667	0.9681	ppbV	S	83
161) 1,2,3-Trimethylbenzene	33.04	105	66517	1.1618	ppbV	S	87
163) o-Dichlorobenzene	33.29	146	24713	1.0172	ppbV	S	92
167) m-Diethylbenzene	33.91	105	53778	1.3195	ppbV #	S	28
168) p-Diethylbenzene	34.15	119	44062m	1.3673	ppbV	S	
172) 1,2,4-Trichlorobenzene	37.85	180	51261	2.4679	ppbV #	S	100
174) Hexachloro-1,3-butadiene	38.81	225	78894	1.7980	ppbV	S	93

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

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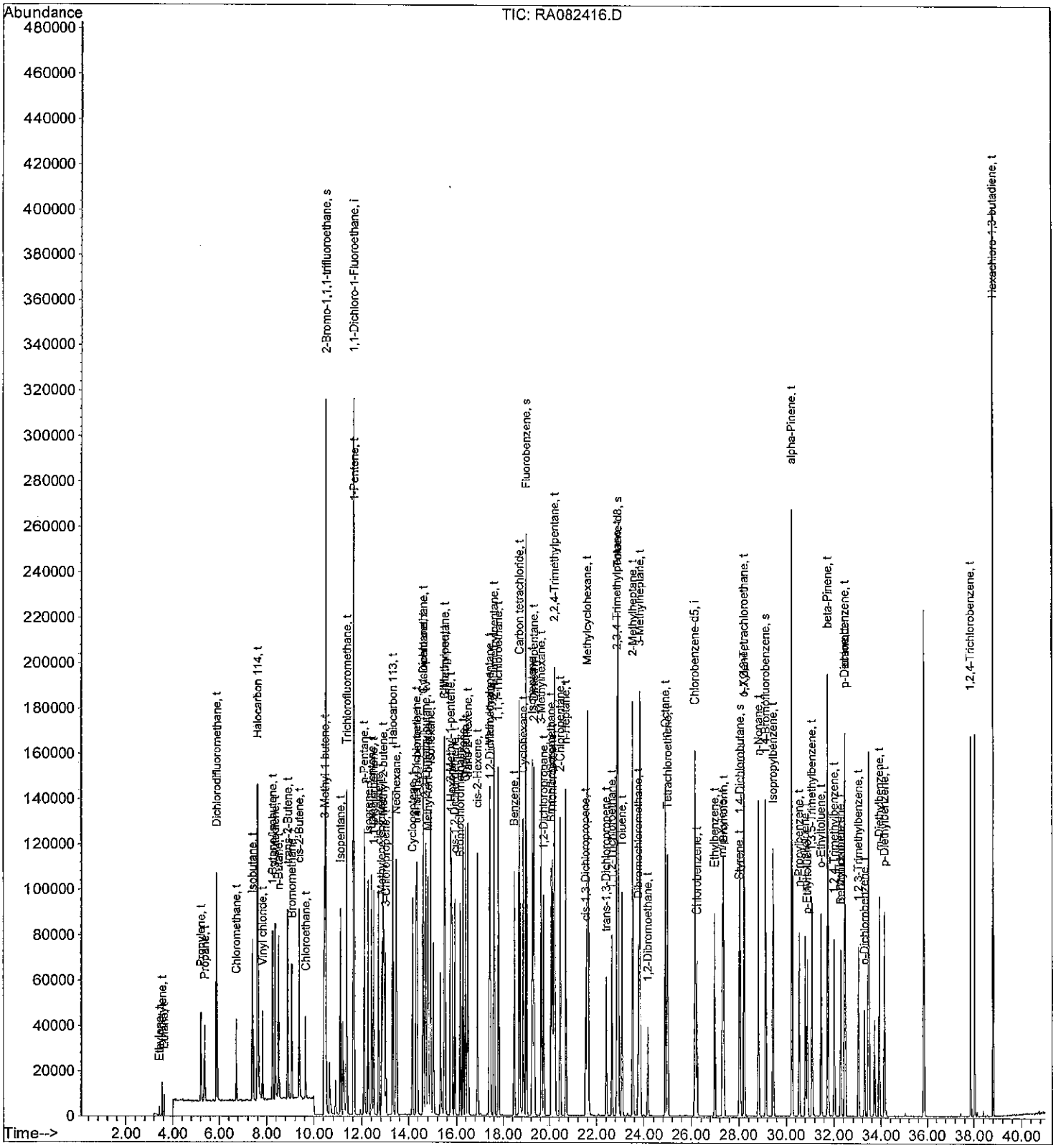
Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	280664	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	116150	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	112400	1.9829 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
65) Fluorobenzene	19.00	96	272300	1.9467 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
113) Toluene-d8	22.92	98	206718	2.3378 ppbV	0.00
Spiked Amount 2.000			Recovery	= 117.00%	
115) 1,4-Dichlorobutane	28.06	90	16627	1.9135 ppbV	0.02
Spiked Amount 2.000			Recovery	= 95.50%	
141) 1,4-Bromofluorobenzene	29.13	95	76130	1.8452 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	22709m	2.7933 ppbV	S	
4) Acetylene	3.54	26	40321	3.8927 ppbV	S	91
5) Ethane	3.62	26	11616	2.7759 ppbV	S	99
7) Propylene	5.21	41	59296	2.6832 ppbV	S	94
9) Propane	5.36	43	26990	2.5344 ppbV	S	92
10) Dichlorodifluoromethane	5.88	85	346789	2.7396 ppbV	S	98
11) Chloromethane	6.73	50	85290	2.6559 ppbV	S	98
12) Isobutane	7.37	43	172198	2.6860 ppbV	S	94
13) Halocarbon 114	7.58	85	300207	2.6505 ppbV	S	88
15) Vinyl chloride	7.81	62	95300	2.6832 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	120491	2.6704 ppbV	S	76
17) 1,3-Butadiene	8.36	39	82337	2.9149 ppbV	S	95
18) n-Butane	8.52	43	147922	2.5681 ppbV	S	96
20) trans-2-Butene	8.89	41	110744	2.6256 ppbV	S	89
23) Bromomethane	9.06	94	87101	2.5942 ppbV	S	94
24) cis-2-Butene	9.37	41	117560	2.7702 ppbV	S	89
25) Chloroethane	9.64	64	49466	2.5466 ppbV	S	93
27) 3-Methyl-1-butene	10.46	55	234524	2.7389 ppbV	S	80
31) Isopentane	11.08	41	111783	2.5252 ppbV #	S	1
32) Trichlorofluoromethane	11.35	101	323795	2.6981 ppbV #	S	71
33) 1-Pentene	11.67	42	126086	2.6771 ppbV #	S	1
37) n-Pentane	12.09	43	169656	2.6930 ppbV	S	85
39) Isoprene	12.26	67	112931	2.6869 ppbV	S	93
40) trans-2-Pentene	12.42	55	197262	2.7566 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	186149	2.7685 ppbV #	S	10
42) cis-2-Pentene	12.72	55	191962	2.7004 ppbV #	S	1
43) Methylene chloride	12.84	49	121876	2.6553 ppbV #	S	1
44) 2-Methyl-2-butene	12.90	55	203625	2.8340 ppbV #	S	1
46) 3-Chloropropene	13.01	41	118809	3.1697 ppbV #	S	1
47) Halocarbon 113	13.31	151	127573	2.6834 ppbV #	S	100
48) Neohexane	13.47	43	137146	2.6573 ppbV #	S	1
49) Cyclopentene	14.17	67	204935	2.6916 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.33	61	153293	2.7943 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	138721	2.6887 ppbV	S	88
53) 1,1-Dichloroethane	14.63	63	220418	3.2826 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.62	42	182492	3.0870	ppbV		S	81
55)	2,3-Dimethylbutane	14.72	43	238981	3.0687	ppbV	#	S	65
56)	Methyl tert-butyl ether	14.81	73	301884	3.4350	ppbV	#	S	1
57)	Isohexane	14.93	42	125140m	3.2460	ppbV		S	
63)	Chloroprene	15.50	53	211236	3.5046	ppbV		S	79
64)	3-Methylpentane	15.53	57	205742	3.1008	ppbV		S	96
66)	2-Methyl-1-pentene	15.76	56	190086	3.0793	ppbV	#	S	1
67)	1-Hexene	15.80	41	122029m	2.9200	ppbV		S	
68)	cis-1,2-Dichloroethene	15.93	61	170575	2.9173	ppbV	#	S	1
69)	Bromochloromethane	16.17	130	74002	2.6215	ppbV	#	S	1
71)	n-Hexane	16.29	57	175584	2.9487	ppbV	#	S	1
72)	Chloroform	16.40	83	268405	2.7532	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	217758	2.9172	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	175835	2.6904	ppbV		S	97
78)	Methylcyclopentane	17.43	56	209082	2.8026	ppbV		S	89
79)	1,2-Dichloroethane	17.45	62	223755	2.7154	ppbV		S	90
80)	2,4-Dimethylpentane	17.61	43	240639	2.8272	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.80	97	302611	2.7681	ppbV	#	S	1
84)	Benzene	18.48	78	263712	4.1062	ppbV		S	81
85)	Carbon tetrachloride	18.70	117	295915	4.1260	ppbV	#	S	1
87)	Cyclohexane	18.87	56	175837	4.3683	ppbV	#	S	1
88)	Isoheptane	19.27	43	260440	4.2948	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.34	56	211949m	4.0674	ppbV		S	
91)	3-Methylhexane	19.65	43	202837	4.2544	ppbV	#	S	78
92)	1,2-Dichloropropane	19.75	63	102680	3.7642	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	246048	3.5535	ppbV	#	S	1
94)	Trichloroethene	20.14	130	105257	3.5848	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	585857	4.1528	ppbV		S	91
98)	2-Chloropentane	20.45	70	149075	3.9089	ppbV	#	S	11
100)	n-Heptane	20.70	71	100769	4.1069	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	135176	3.4812	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	192957	4.1100	ppbV		S	95
110)	trans-1,3-Dichloropropene	22.41	75	131413	3.3598	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	80025	3.0874	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	340093	4.2995	ppbV		S	94
114)	Toluene	23.09	91	244108	3.4376	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	249277	4.1877	ppbV	#	S	11
119)	Dibromochloromethane	23.77	129	140248	2.8980	ppbV	#	S	41
120)	3-Methylheptane	23.85	85	139124	3.9747	ppbV	#	S	1
122)	1,2-Dibromoethane	24.18	107	110147	2.9428	ppbV	#	S	1
125)	n-Octane	24.91	43	235165	3.8847	ppbV	#	S	48
126)	Tetrachloroethene	25.02	164	86217	3.0285	ppbV		S	94
128)	Chlorobenzene	26.23	112	125124	2.7816	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	249395	3.2569	ppbV		S	97
130)	m/p-Xylene	27.31	91	421763m	6.0988	ppbV		S	
131)	Bromoform	27.38	173	85959	2.6073	ppbV	#	S	1
134)	Styrene	28.02	104	101449	2.8418	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	132396	2.8958	ppbV		S	94
136)	o-Xylene	28.23	91	220108	3.1835	ppbV		S	89
140)	n-Nonane	28.84	43	197819	3.2582	ppbV	#	S	73
142)	Isopropylbenzene	29.45	105	312269	2.9635	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

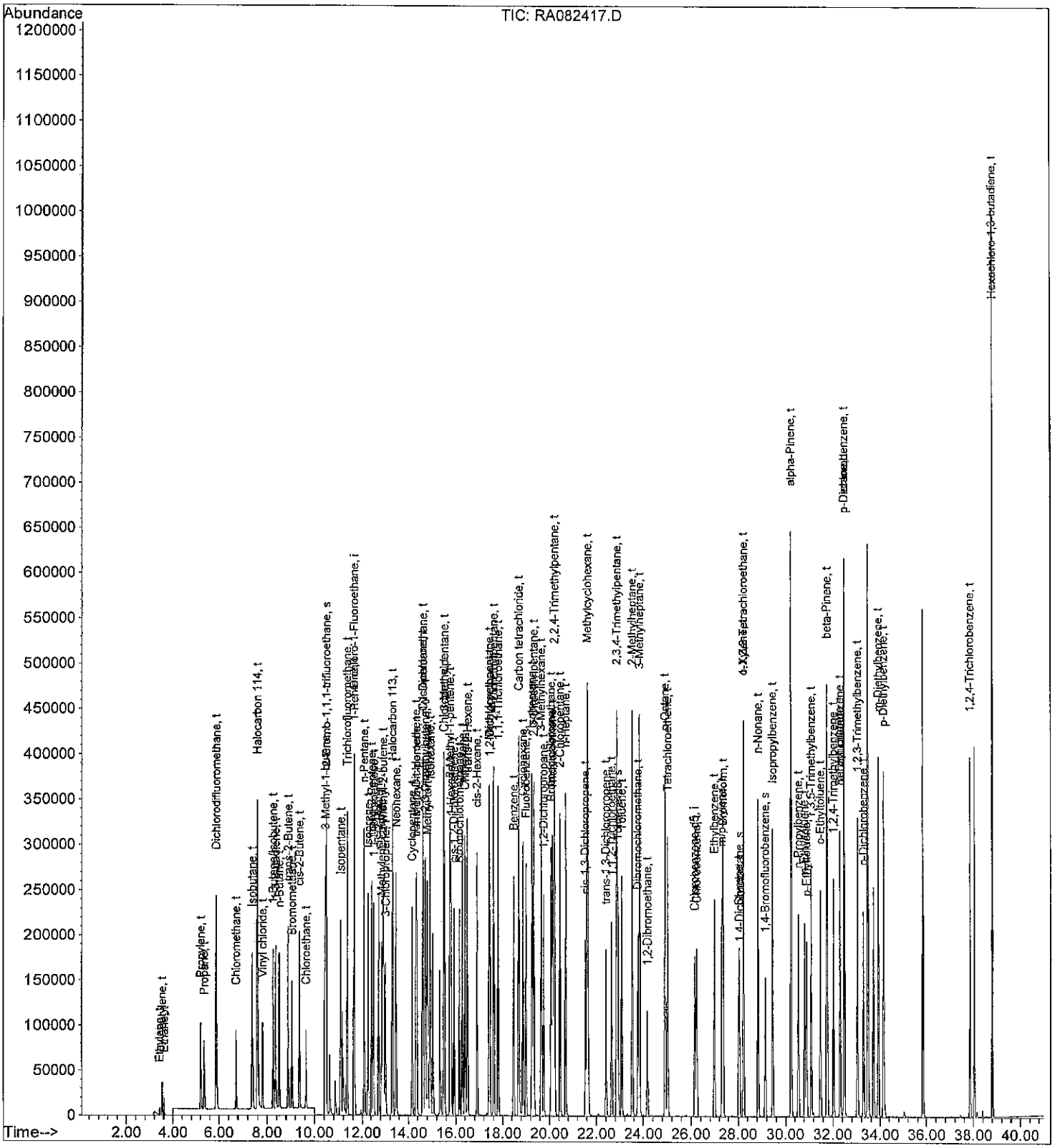
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
144) alpha-Pinene	30.24	93	382717	4.5306	ppbV	S	95
147) n-Propylbenzene	30.56	91	265570	2.6542	ppbV #	S	35
148) m-Ethyltoluene	30.82	105	202203	2.7600	ppbV	S	90
149) p-Ethyltoluene	30.90	105	182416	2.5581	ppbV	S	88
150) 1,3,5-Trimethylbenzene	31.09	105	244477	3.3640	ppbV	S	87
151) o-Ethyltoluene	31.49	105	241628	3.0184	ppbV	S	89
152) beta-Pinene	31.77	93	270176	3.0552	ppbV #	S	1
153) 1,2,4-Trimethylbenzene	32.02	105	232311	3.7221	ppbV #	S	1
156) Benzyl chloride	32.30	91	168721	4.8027	ppbV	S	99
157) m-Dichlorobenzene	32.30	146	88422	2.9276	ppbV	S	84
158) n-Decane	32.48	57	260278	4.3107	ppbV	S	77
159) p-Dichlorobenzene	32.48	146	91417	3.2148	ppbV	S	82
161) 1,2,3-Trimethylbenzene	33.04	105	302489	4.7338	ppbV	S	84
163) o-Dichlorobenzene	33.29	146	126795	4.6759	ppbV	S	93
167) m-Diethylbenzene	33.92	105	232429	5.1096	ppbV #	S	28
168) p-Diethylbenzene	34.15	119	194983	5.4212	ppbV #	S	1
172) 1,2,4-Trichlorobenzene	37.85	180	126132	5.4409	ppbV #	S	100
174) Hexachloro-1,3-butadiene	38.81	225	196945	4.0215	ppbV	S	94

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

RAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	282994	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	137343	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	114746	2.0076 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
65) Fluorobenzene	19.00	96	295961	2.0984 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	
113) Toluene-d8	22.92	98	239836	2.2938 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.50%	
115) 1,4-Dichlorobutane	28.05	90	19497	1.8976 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.00%	
141) 1,4-Bromofluorobenzene	29.13	95	88976	1.8238 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.00%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	43373m	5.2912 ppbV	S	
4) Acetylene	3.54	26	82922	7.9397 ppbV	S	91
5) Ethane	3.62	26	21347	5.0594 ppbV	S	99
7) Propylene	5.21	41	124077	5.5684 ppbV	S	98
9) Propane	5.36	43	55071	5.1287 ppbV	S	93
10) Dichlorodifluoromethane	5.88	85	683080	5.3518 ppbV	S	99
11) Chloromethane	6.72	50	171297	5.2903 ppbV	S	96
12) Isobutane	7.37	43	350892	5.4283 ppbV	S	94
13) Halocarbon 114	7.58	85	594788	5.2081 ppbV	S	87
15) Vinyl chloride	7.81	62	194347	5.4269 ppbV	S	98
16) 1-Butene/Isobutene	8.25	41	244909	5.3831 ppbV	S	77
17) 1,3-Butadiene	8.36	39	166404	5.8426 ppbV	S	96
18) n-Butane	8.51	43	299502	5.1569 ppbV	S	95
20) trans-2-Butene	8.89	41	224943	5.2891 ppbV	S	90
23) Bromomethane	9.05	94	178323	5.2673 ppbV	S	93
24) cis-2-Butene	9.37	41	240781	5.6271 ppbV	S	88
25) Chloroethane	9.64	64	101246	5.1695 ppbV	S	92
27) 3-Methyl-1-butene	10.45	55	469397	5.4366 ppbV	S	81
31) Isopentane	11.08	41	220705	4.9446 ppbV #	S	1
32) Trichlorofluoromethane	11.35	101	634340	5.2422 ppbV #	S	71
33) 1-Pentene	11.66	42	254781	5.3651 ppbV #	S	1
37) n-Pentane	12.08	43	336295	5.2942 ppbV	S	85
39) Isoprene	12.26	67	227483	5.3678 ppbV	S	93
40) trans-2-Pentene	12.41	55	394631	5.4693 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	370173	5.4600 ppbV #	S	9
42) cis-2-Pentene	12.71	55	383509	5.3506 ppbV #	S	1
43) Methylene chloride	12.83	49	242024	5.2296 ppbV #	S	1
44) 2-Methyl-2-butene	12.90	55	408170	5.6341 ppbV #	S	1
46) 3-Chloropropene	13.00	41	236430	6.2557 ppbV #	S	1
47) Halocarbon 113	13.30	151	250653	5.2289 ppbV #	S	100
48) Neohexane	13.46	43	270977	5.2071 ppbV #	S	1
49) Cyclopentene	14.17	67	411879	5.3651 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.33	61	300714	5.4363 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	277521	5.3347 ppbV	S	91
53) 1,1-Dichloroethane	14.62	63	448031	6.6175 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.61	42	371690	6.2357	ppbV		S	82
55)	2,3-Dimethylbutane	14.72	43	482458	6.1441	ppbV	#	S	63
56)	Methyl tert-butyl ether	14.80	73	616069	6.9522	ppbV	#	S	1
57)	Isohexane	14.93	42	251250	6.4636	ppbV	#	S	47
63)	Chloroprene	15.50	53	427603	7.0359	ppbV		S	80
64)	3-Methylpentane	15.53	57	417303	6.2375	ppbV		S	97
66)	2-Methyl-1-pentene	15.76	56	378534	6.0817	ppbV	#	S	1
67)	1-Hexene	15.80	41	231914m	5.5036	ppbV		S	
68)	cis-1,2-Dichloroethene	15.93	61	342507	5.8097	ppbV	#	S	1
69)	Bromochloromethane	16.16	130	148796	5.2277	ppbV	#	S	1
71)	n-Hexane	16.29	57	363709	6.0577	ppbV	#	S	1
72)	Chloroform	16.40	83	540182	5.4955	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	451689	6.0012	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	367482	5.5765	ppbV		S	94
78)	Methylcyclopentane	17.43	56	434559	5.7771	ppbV		S	92
79)	1,2-Dichloroethane	17.45	62	448518	5.3983	ppbV		S	89
80)	2,4-Dimethylpentane	17.61	43	497413	5.7959	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.79	97	605337	5.4917	ppbV	#	S	1
84)	Benzene	18.48	78	561570	7.3948	ppbV		S	81
85)	Carbon tetrachloride	18.70	117	587687	6.9297	ppbV	#	S	1
87)	Cyclohexane	18.87	56	368531	7.7427	ppbV	#	S	1
88)	Isoheptane	19.27	43	524491	7.3145	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.34	56	439368m	7.1307	ppbV		S	
91)	3-Methylhexane	19.65	43	421247	7.4721	ppbV	#	S	80
92)	1,2-Dichloropropane	19.75	63	219288	6.7986	ppbV	#	S	1
93)	Bromodichloromethane	20.07	83	517331	6.3186	ppbV	#	S	1
94)	Trichloroethene	20.14	130	226472	6.5230	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	1197500	7.1786	ppbV		S	93
98)	2-Chloropentane	20.45	70	322627	7.1543	ppbV	#	S	11
100)	n-Heptane	20.70	71	217678	7.5026	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	304266	6.6267	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	396640	7.1447	ppbV		S	91
110)	trans-1,3-Dichloropropene	22.41	75	296866	6.4186	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	180146	5.8777	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	697248	7.4545	ppbV		S	94
114)	Toluene	23.09	91	550129	6.5516	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	520436	7.3939	ppbV	#	S	12
119)	Dibromochloromethane	23.77	129	308961	5.3991	ppbV	#	S	44
120)	3-Methylheptane	23.85	85	295558	7.1410	ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	243205	5.4951	ppbV	#	S	1
125)	n-Octane	24.92	43	515506	7.2017	ppbV	#	S	49
126)	Tetrachloroethene	25.02	164	194490	5.7775	ppbV		S	97
128)	Chlorobenzene	26.23	112	287501	5.4051	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	578938	6.3939	ppbV		S	98
130)	m/p-Xylene	27.35	91	969639m	11.8576	ppbV		S	
131)	Bromoform	27.38	173	191923	4.9230	ppbV	#	S	1
134)	Styrene	28.02	104	240004	5.6856	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	402456	7.4444	ppbV		S	95
136)	o-Xylene	28.23	91	500822	6.1258	ppbV		S	90
140)	n-Nonane	28.84	43	449897	6.2666	ppbV	#	S	73
142)	Isopropylbenzene	29.46	105	725106	5.8195	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

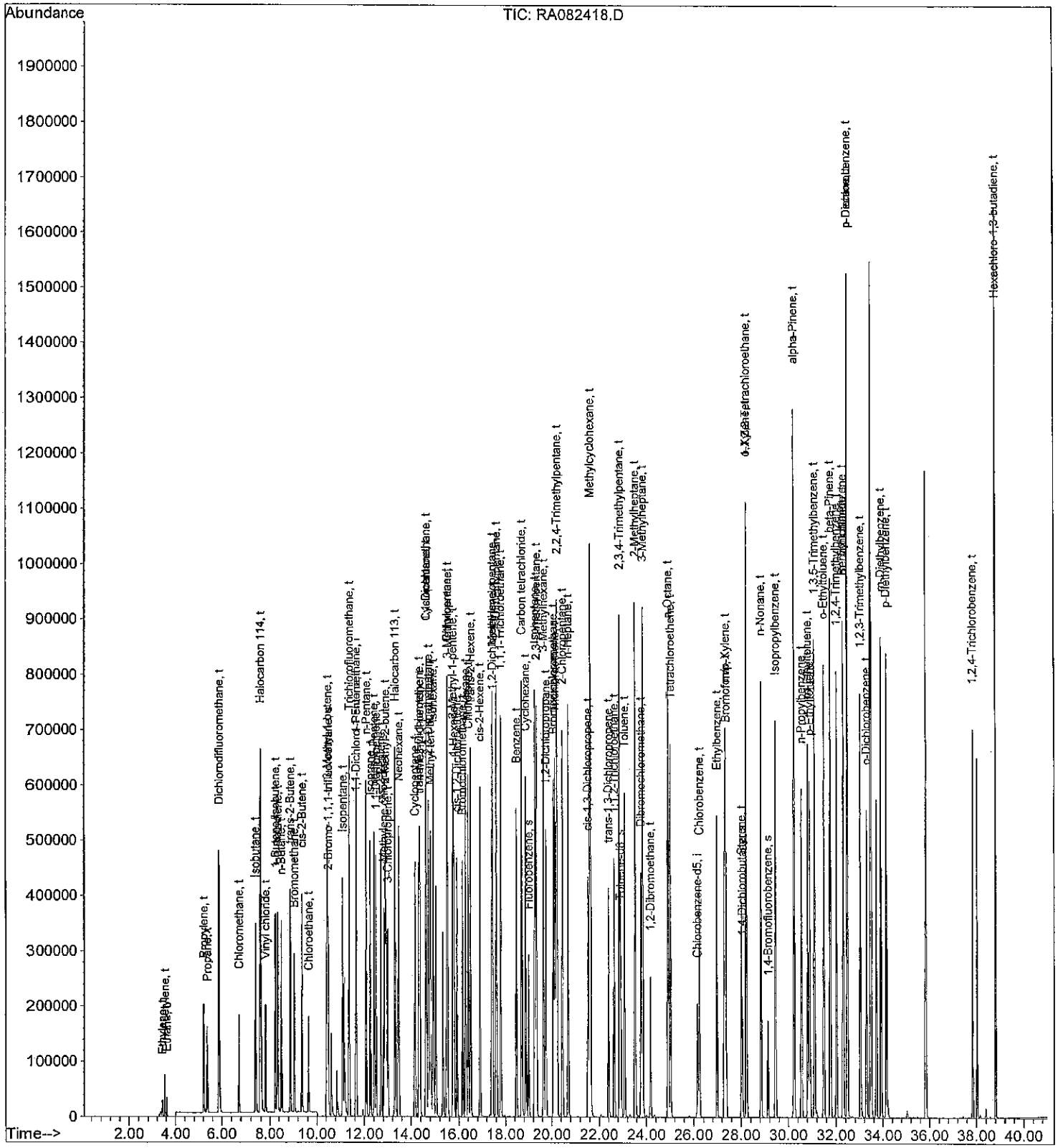
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144) alpha-Pinene	30.24	93	787945	7.8883	ppbV		S	95
147) n-Propylbenzene	30.56	91	720081	6.0863	ppbV	#	S	35
148) m-Ethyltoluene	30.81	105	653706	7.5460	ppbV		S	91
149) p-Ethyltoluene	30.90	105	597705	7.0885	ppbV		S	89
150) 1,3,5-Trimethylbenzene	31.09	105	774513	9.0129	ppbV		S	88
151) o-Ethyltoluene	31.49	105	799151	8.4426	ppbV		S	88
152) beta-Pinene	31.77	93	573334	5.4829	ppbV	#	S	1
153) 1,2,4-Trimethylbenzene	32.02	105	727367	9.8557	ppbV	#	S	1
156) Benzyl chloride	32.30	91	406538	9.7866	ppbV		S	98
157) m-Dichlorobenzene	32.30	146	306445	8.5805	ppbV		S	86
158) n-Decane	32.48	57	588510	8.2428	ppbV		S	78
159) p-Dichlorobenzene	32.48	146	295952	8.8015	ppbV		S	85
161) 1,2,3-Trimethylbenzene	33.04	105	727759	9.6317	ppbV		S	87
163) o-Dichlorobenzene	33.30	146	315085	9.8266	ppbV		S	96
167) m-Diethylbenzene	33.92	105	514539	9.5659	ppbV	#	S	27
168) p-Diethylbenzene	34.15	119	425995	10.0165	ppbV	#	S	1
172) 1,2,4-Trichlorobenzene	37.85	180	231020	8.4276	ppbV	#	S	100
174) Hexachloro-1,3-butadiene	38.81	225	344831	5.9547	ppbV		S	95

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-28-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.63	81	280518	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.16	117	150473	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.48	83	117480	2.0736 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 103.50%	
65) Fluorobenzene	18.99	96	313274	2.2407 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.00%	
113) Toluene-d8	22.92	98	259535	2.2656 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.50%	
115) 1,4-Dichlorobutane	28.05	90	23445	2.0827 ppbV	0.01
Spiked Amount 2.000			Recovery	= 104.00%	
141) 1,4-Bromofluorobenzene	29.13	95	100867	1.8872 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	

Target Compounds						Qvalue
3) Ethylene	3.31	26	71238m	8.7673 ppbV	S	
4) Acetylene	3.54	26	130553	12.6106 ppbV	S	91
5) Ethane	3.62	26	28855	6.8992 ppbV	S	98
7) Propylene	5.21	41	195853	8.8672 ppbV	S	98
9) Propane	5.36	43	86576	8.1339 ppbV	S	95
10) Dichlorodifluoromethane	5.87	85	1042868	8.2428 ppbV	S	99
11) Chloromethane	6.72	50	270856	8.4389 ppbV	S	98
12) Isobutane	7.37	43	548691	8.5631 ppbV	S	97
13) Halocarbon 114	7.58	85	911591	8.0525 ppbV	S	89
15) Vinyl chloride	7.80	62	307785	8.6703 ppbV	S	99
16) 1-Butene/Isobutene	8.24	41	382806	8.4884 ppbV	S	77
17) 1,3-Butadiene	8.35	39	255460	9.0485 ppbV	S	95
18) n-Butane	8.50	43	464322	8.0653 ppbV	S	97
20) trans-2-Butene	8.88	41	350723	8.3194 ppbV	S	89
23) Bromomethane	9.04	94	276239	8.2316 ppbV	S	95
24) cis-2-Butene	9.36	41	370267	8.7296 ppbV	S	89
25) Chloroethane	9.63	64	160043	8.2437 ppbV	S	94
27) 3-Methyl-1-butene	10.44	55	721220	8.4270 ppbV	S	82
31) Isopentane	11.07	41	351108	7.9356 ppbV #	S	1
32) Trichlorofluoromethane	11.34	101	938703	7.8260 ppbV #	S	71
33) 1-Pentene	11.65	42	389312	8.2704 ppbV #	S	1
37) n-Pentane	12.07	43	511115	8.1174 ppbV #	S	83
39) Isoprene	12.25	67	353542	8.4159 ppbV	S	94
40) trans-2-Pentene	12.40	55	606694	8.4826 ppbV #	S	1
41) 1,1-Dichloroethene	12.49	61	555665	8.2684 ppbV #	S	9
42) cis-2-Pentene	12.70	55	591153	8.3204 ppbV #	S	1
43) Methylene chloride	12.82	49	366652	7.9924 ppbV #	S	1
44) 2-Methyl-2-butene	12.88	55	625829	8.7147 ppbV #	S	1
46) 3-Chloropropene	12.99	41	360682	9.6276 ppbV #	S	1
47) Halocarbon 113	13.30	151	377325	7.9410 ppbV #	S	100
48) Neohexane	13.46	43	415065	8.0463 ppbV #	S	1
49) Cyclopentene	14.15	67	633484	8.3245 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.32	61	456949	8.3337 ppbV #	S	1
51) 4-Methyl-1-pentene	14.36	43	418971	8.1248 ppbV	S	92
53) 1,1-Dichloroethane	14.61	63	681813	10.1593 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.60	42	570693	9.6588	ppbV		S	83
55)	2,3-Dimethylbutane	14.71	43	751315	9.6525	ppbV	#	S	62
56)	Methyl tert-butyl ether	14.79	73	959975	10.9287	ppbV	#	S	1
57)	Isohexane	14.92	42	392758m	10.1932	ppbV		S	
63)	Chloroprene	15.49	53	649547	10.7822	ppbV		S	80
64)	3-Methylpentane	15.52	57	649982	9.8011	ppbV		S	97
66)	2-Methyl-1-pentene	15.75	56	579361	9.3904	ppbV	#	S	1
67)	1-Hexene	15.79	41	366848m	8.7827	ppbV		S	
68)	cis-1,2-Dichloroethene	15.92	61	528620	9.0457	ppbV	#	S	1
69)	Bromochloromethane	16.15	130	231515	8.2056	ppbV	#	S	1
71)	n-Hexane	16.28	57	569114	9.5625	ppbV	#	S	1
72)	Chloroform	16.39	83	825688	8.4742	ppbV	#	S	1
74)	trans-2-Hexene	16.50	55	703773	9.4330	ppbV	#	S	1
77)	cis-2-Hexene	16.89	55	581207	8.8977	ppbV		S	94
78)	Methylcyclopentane	17.41	56	677435	9.0854	ppbV		S	92
79)	1,2-Dichloroethane	17.44	62	680257	8.2597	ppbV		S	90
80)	2,4-Dimethylpentane	17.60	43	764355	8.9850	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.79	97	912829	8.3544	ppbV	#	S	1
84)	Benzene	18.47	78	891832	10.7190	ppbV		S	83
85)	Carbon tetrachloride	18.69	117	880435	9.4758	ppbV	#	S	1
87)	Cyclohexane	18.86	56	568822	10.9079	ppbV	#	S	1
88)	Isoheptane	19.25	43	813642	10.3569	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.33	56	683080m	10.1186	ppbV		S	
91)	3-Methylhexane	19.64	43	646260	10.4631	ppbV	#	S	80
92)	1,2-Dichloropropane	19.74	63	353808	10.0120	ppbV	#	S	1
93)	Bromodichloromethane	20.07	83	806997	8.9965	ppbV	#	S	1
94)	Trichloroethene	20.13	130	357149	9.3892	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.21	57	1860688	10.1809	ppbV		S	94
98)	2-Chloropentane	20.45	70	511209	10.3470	ppbV	#	S	10
100)	n-Heptane	20.69	71	347156	10.9212	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.53	75	497539	9.8905	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	620725	10.2056	ppbV		S	95
110)	trans-1,3-Dichloropropene	22.41	75	486879	9.6084	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	295143	8.7894	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	1078574	10.5252	ppbV		S	94
114)	Toluene	23.09	91	903277	9.8187	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	799132	10.3628	ppbV	#	S	9
119)	Dibromochloromethane	23.77	129	496191	7.9143	ppbV	#	S	46
120)	3-Methylheptane	23.85	85	465343	10.2621	ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	398834	8.2252	ppbV	#	S	1
125)	n-Octane	24.91	43	818018	10.4306	ppbV	#	S	50
126)	Tetrachloroethene	25.02	164	318100	8.6249	ppbV		S	98
128)	Chlorobenzene	26.23	112	478725	8.2148	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	969779	9.7758	ppbV		S	98
130)	m/p-Xylene	27.35	91	1597984m	17.8364	ppbV		S	
131)	Bromoform	27.38	173	312427	7.3148	ppbV	#	S	1
134)	Styrene	28.02	104	407689	8.8152	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	673946	11.3784	ppbV		S	96
136)	o-Xylene	28.23	91	816927	9.1203	ppbV		S	90
140)	n-Nonane	28.84	43	727791	9.2528	ppbV		S	76
142)	Isopropylbenzene	29.45	105	1216567	8.9119	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc Unit			Qvalue
144) alpha-Pinene	30.24	93	1227606	11.2175 ppbV		S	94
147) n-Propylbenzene	30.56	91	1442187	11.1261 ppbV	#	S	35
148) m-Ethyltoluene	30.82	105	1204792	12.6938 ppbV		S	91
149) p-Ethyltoluene	30.90	105	1119857	12.1221 ppbV		S	89
150) 1,3,5-Trimethylbenzene	31.09	105	1296183	13.7673 ppbV		S	88
151) o-Ethyltoluene	31.49	105	1352193	13.0387 ppbV		S	88
152) beta-Pinene	31.77	93	905444	7.9033 ppbV	#	S	1
153) 1,2,4-Trimethylbenzene	32.02	105	1222987	15.1253 ppbV	#	S	1
156) Benzyl chloride	32.30	91	733922	16.1261 ppbV		S	98
157) m-Dichlorobenzene	32.30	146	504564	12.8951 ppbV		S	86
158) n-Decane	32.48	57	964676	12.3325 ppbV		S	81
159) p-Dichlorobenzene	32.48	146	480927	13.0545 ppbV		S	87
161) 1,2,3-Trimethylbenzene	33.04	105	1231750	14.8794 ppbV		S	87
163) o-Dichlorobenzene	33.30	146	531579	15.1318 ppbV		S	97
167) m-Diethylbenzene	33.92	105	909757	15.4376 ppbV	#	S	28
168) p-Diethylbenzene	34.15	119	786139	16.8717 ppbV	#	S	1
172) 1,2,4-Trichlorobenzene	37.85	180	375557	12.5049 ppbV	#	S	100
174) Hexachloro-1,3-butadiene	38.81	225	497080	7.8348 ppbV		S	97

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

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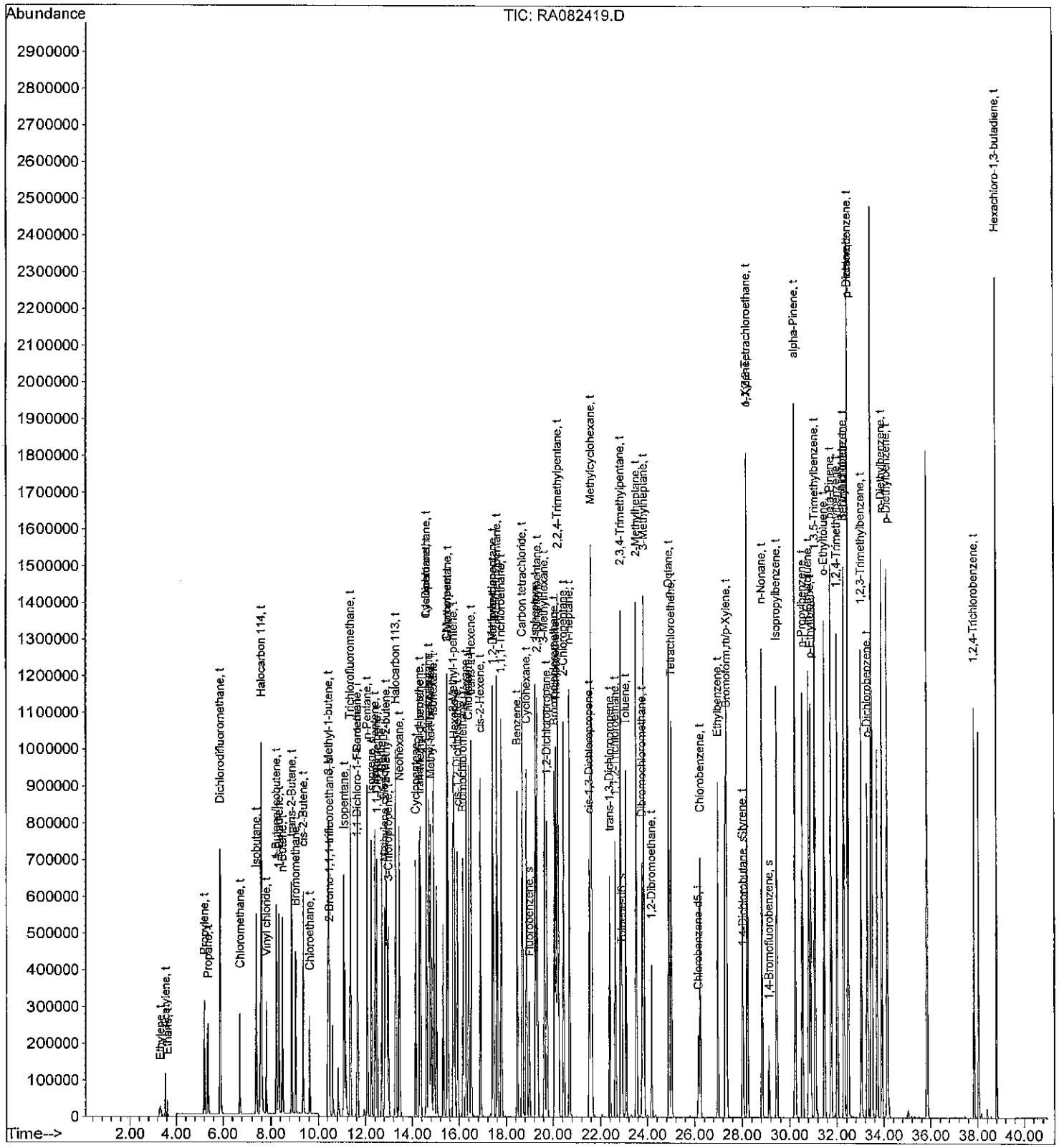
Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.61	81	279668	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.16	117	158540	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.47	83	121857	2.1574 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 108.00%	
65) Fluorobenzene	18.98	96	328035	2.3535 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 117.50%	
113) Toluene-d8	22.92	98	275368	2.2815 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.00%	
115) 1,4-Dichlorobutane	28.05	90	23213	1.9572 ppbV	0.01
Spiked Amount 2.000			Recovery	= 98.00%	
141) 1,4-Bromofluorobenzene	29.13	95	101857	1.8087 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	

Target Compounds						Qvalue
3) Ethylene	3.34	26	97845m	12.0784 ppbV	S	
4) Acetylene	3.54	26	181546	17.5895 ppbV	S	91
5) Ethane	3.62	26	40245	9.6517 ppbV	S	99
7) Propylene	5.21	41	272292	12.3654 ppbV	S	98
9) Propane	5.36	43	121683	11.4670 ppbV	S	96
10) Dichlorodifluoromethane	5.87	85	1399670	11.0965 ppbV	S	99
11) Chloromethane	6.71	50	374662	11.7086 ppbV	S	98
12) Isobutane	7.37	43	758038	11.8663 ppbV	S	97
13) Halocarbon 114	7.57	85	1240650	10.9926 ppbV	S	87
15) Vinyl chloride	7.79	62	424840	12.0041 ppbV	S	99
16) 1-Butene/Isobutene	8.23	41	526901	11.7191 ppbV	S	78
17) 1,3-Butadiene	8.34	39	347955	12.3622 ppbV	S	92
18) n-Butane	8.50	43	643282	11.2078 ppbV	S	98
20) trans-2-Butene	8.87	41	480056	11.4218 ppbV	S	88
23) Bromomethane	9.03	94	379446	11.3414 ppbV	S	95
24) cis-2-Butene	9.35	41	511350	12.0925 ppbV	S	89
25) Chloroethane	9.62	64	221355	11.4365 ppbV	S	94
27) 3-Methyl-1-butene	10.43	55	984758	11.5413 ppbV	S	83
31) Isopentane	11.06	41	474913	10.7664 ppbV #	S	1
32) Trichlorofluoromethane	11.32	101	1228450	10.2728 ppbV #	S	72
33) 1-Pentene	11.63	42	524994	11.1866 ppbV #	S	1
37) n-Pentane	12.06	43	685871	10.9260 ppbV #	S	84
39) Isoprene	12.23	67	482574	11.5224 ppbV	S	95
40) trans-2-Pentene	12.39	55	821845	11.5257 ppbV #	S	1
41) 1,1-Dichloroethene	12.47	61	742165	11.0771 ppbV #	S	10
42) cis-2-Pentene	12.68	55	798769	11.2767 ppbV #	S	1
43) Methylene chloride	12.81	49	491281	10.7416 ppbV #	S	1
44) 2-Methyl-2-butene	12.86	55	841981	11.7603 ppbV #	S	1
46) 3-Chloropropene	12.97	41	483960	12.9575 ppbV #	S	1
47) Halocarbon 113	13.28	151	505451	10.6698 ppbV #	S	100
48) Neohexane	13.43	43	555050	10.7927 ppbV #	S	1
49) Cyclopentene	14.14	67	841556	11.0924 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.31	61	731607	13.3834 ppbV #	S	1
51) 4-Methyl-1-pentene	14.34	43	684480	13.3140 ppbV	S	87
53) 1,1-Dichloroethane	14.60	63	921870	13.7781 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.58	42	783994	13.3092	ppbV		S	84
55)	2,3-Dimethylbutane	14.70	43	1028312	13.2513	ppbV	#	S	62
56)	Methyl tert-butyl ether	14.77	73	1321871	15.0944	ppbV	#	S	1
57)	Isohexane	14.90	42	540326m	14.0656	ppbV		S	
63)	Chloroprene	15.47	53	864607	14.3957	ppbV		S	82
64)	3-Methylpentane	15.50	57	898186	13.5849	ppbV		S	97
66)	2-Methyl-1-pentene	15.74	56	831759	13.5222	ppbV	#	S	1
67)	1-Hexene	15.78	41	459926m	11.0445	ppbV		S	
68)	cis-1,2-Dichloroethene	15.90	61	714198	12.2584	ppbV	#	S	1
69)	Bromochloromethane	16.14	130	316158	11.2397	ppbV	#	S	1
71)	n-Hexane	16.27	57	788625	13.2910	ppbV	#	S	1
72)	Chloroform	16.37	83	1097512	11.2982	ppbV	#	S	1
74)	trans-2-Hexene	16.49	55	966488m	12.9936	ppbV		S	
77)	cis-2-Hexene	16.88	55	792114	12.1633	ppbV		S	94
78)	Methylcyclopentane	17.40	56	935724	12.5876	ppbV		S	95
79)	1,2-Dichloroethane	17.43	62	884285	10.7697	ppbV		S	91
80)	2,4-Dimethylpentane	17.59	43	1040210	12.2648	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.78	97	1220583	11.2049	ppbV	#	S	1
84)	Benzene	18.46	78	1230535	14.0373	ppbV		S	84
85)	Carbon tetrachloride	18.68	117	1159832	11.8477	ppbV	#	S	1
87)	Cyclohexane	18.85	56	788435	14.3499	ppbV	#	S	1
88)	Isoheptane	19.25	43	1125737m	13.6004	ppbV		S	
89)	2,3-Dimethylpentane	19.32	56	938330	13.1924	ppbV	#	S	72
91)	3-Methylhexane	19.63	43	877536	13.4846	ppbV	#	S	81
92)	1,2-Dichloropropane	19.73	63	487305	13.0880	ppbV	#	S	1
93)	Bromodichloromethane	20.06	83	1069979	11.3213	ppbV	#	S	1
94)	Trichloroethene	20.12	130	473120	11.8051	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.21	57	2535460	13.1671	ppbV		S	96
98)	2-Chloropentane	20.43	70	706418	13.5705	ppbV	#	S	9
100)	n-Heptane	20.69	71	480158	14.3367	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.53	75	655679	12.3709	ppbV	#	S	1
106)	Methylcyclohexane	21.60	83	853690	13.3216	ppbV		S	98
110)	trans-1,3-Dichloropropene	22.40	75	632685	11.8505	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.64	97	403274	11.3985	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	1455654	13.4821	ppbV		S	91
114)	Toluene	23.08	91	1249308	12.8891	ppbV	#	S	1
117)	2-Methylheptane	23.52	43	1084668	13.3497	ppbV	#	S	10
119)	Dibromochloromethane	23.77	129	655974	9.9305	ppbV	#	S	46
120)	3-Methylheptane	23.85	85	646691	13.5357	ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	513598	10.0530	ppbV	#	S	1
125)	n-Octane	24.91	43	1115783	13.5035	ppbV	#	S	50
126)	Tetrachloroethene	25.02	164	436250	11.2265	ppbV		S	99
128)	Chlorobenzene	26.23	112	652007	10.6190	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	1327827	12.7041	ppbV		S	98
130)	m/p-Xylene	27.35	91	2167109m	22.9580	ppbV		S	
131)	Bromoform	27.38	173	413463	9.1878	ppbV	#	S	1
134)	Styrene	28.02	104	559195	11.4759	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	976160	15.6422	ppbV		S	97
136)	o-Xylene	28.23	91	1095403	11.6070	ppbV		S	91
140)	n-Nonane	28.84	43	970333	11.7087	ppbV		S	78
142)	Isopropylbenzene	29.46	105	1604996	11.1591	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144) alpha-Pinene	30.24	93	1666747	14.4553	ppbV		S	94
147) n-Propylbenzene	30.56	91	1852390	13.5636	ppbV	#	S	35
148) m-Ethyltoluene	30.82	105	1719265	17.1927	ppbV		S	91
149) p-Ethyltoluene	30.90	105	1585406	16.2883	ppbV		S	89
150) 1,3,5-Trimethylbenzene	31.10	105	1908257	19.2371	ppbV		S	88
151) o-Ethyltoluene	31.49	105	2001753	18.3200	ppbV		S	89
152) beta-Pinene	31.77	93	1213853	10.0562	ppbV	#	S	1
153) 1,2,4-Trimethylbenzene	32.03	105	1841850	21.6200	ppbV	#	S	1
156) Benzyl chloride	32.30	91	1139643	23.7667	ppbV		S	99
157) m-Dichlorobenzene	32.30	146	783177	18.9971	ppbV		S	88
158) n-Decane	32.48	57	1376627	16.7034	ppbV		S	84
159) p-Dichlorobenzene	32.48	146	742742	19.1355	ppbV		S	86
161) 1,2,3-Trimethylbenzene	33.04	105	1825611	20.9311	ppbV		S	88
163) o-Dichlorobenzene	33.30	146	840530	22.7089	ppbV		S	98
167) m-Diethylbenzene	33.92	105	1300656	20.9477	ppbV	#	S	27
168) p-Diethylbenzene	34.15	119	1133936	23.0976	ppbV	#	S	1
172) 1,2,4-Trichlorobenzene	37.85	180	837714	26.4739	ppbV	#	S	100
174) Hexachloro-1,3-butadiene	38.81	225	972557	14.5491	ppbV		S	96

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

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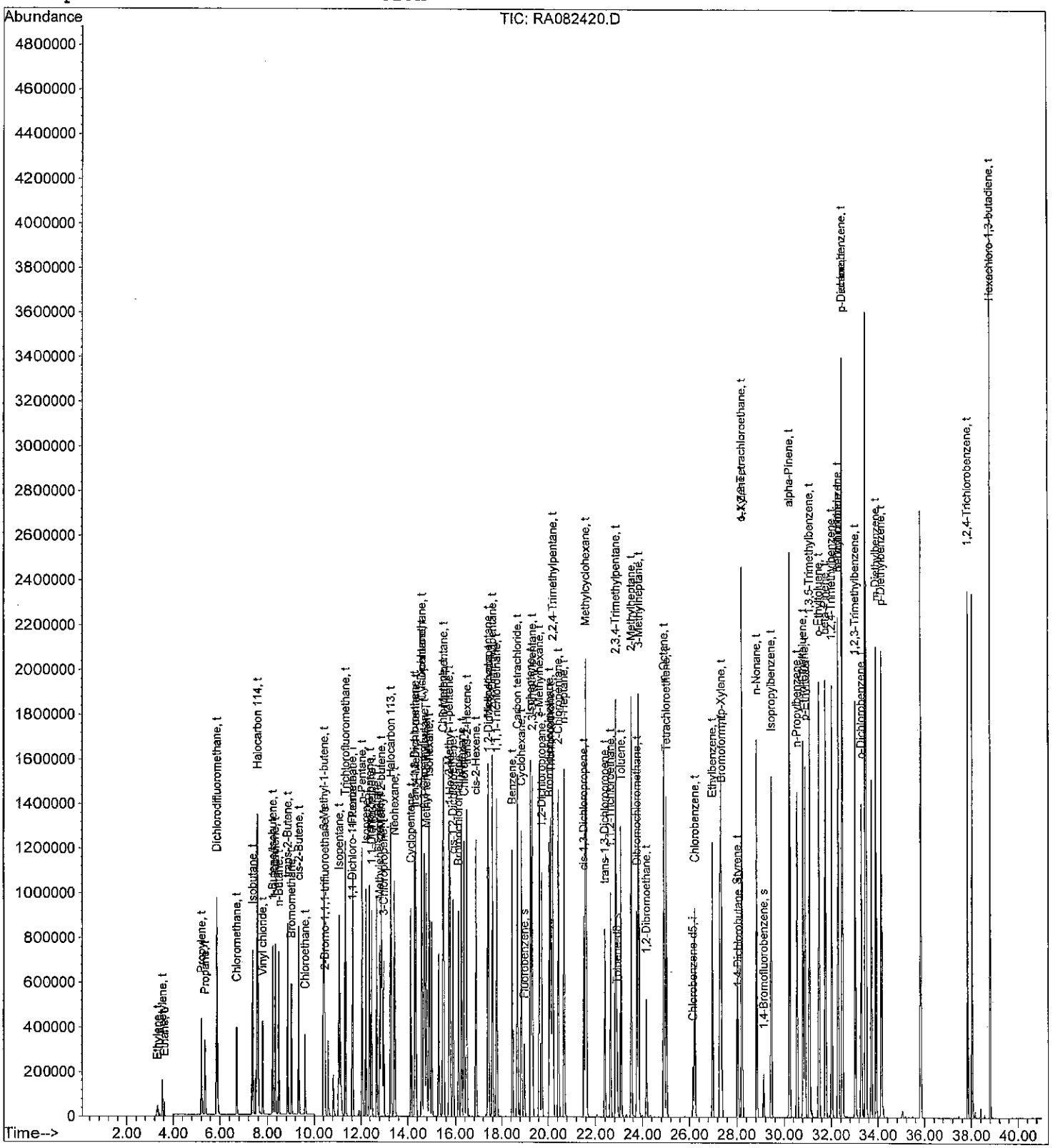
Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Data by Analytical Batch (s)

INSTRUMENT GCMS-R1 ANALYST / DATE: VW 8/27/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: Batch ID: 11A0392

DAILY CHECK —	INSERT: CHANGED (Y / N)	SEPTA: CHANGED (Y / N)	COLUMN: CHANGED (Y / N)	AUTOSAMPLER MAINT. —
M. PUMP OIL —	TURBO OIL (NA)	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: RA0328.u Elect Mult. 1624 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: Entech

GC PROGRAM:
GC Meth. RA0824.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: NA

GC COLUMN:
Column ID#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID:

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	Warmup	RA1848	0.5L	2	RA082701	0.01443	VOC-VSP-34-17
2	11A0392-CCV1	↓	↓	2	02	↓	↓
3	-BS1	RA1784	↓	6	03	0.0046	VOC-VSP-34-18
4	-BSD1	↓	↓	6	04	↓	↓
5	-BLK1	RA2753	0.5L	10	05	1.0	MB
6	AUH0043-01	7486	↓	1	06	3.9124	
7	02	9328	↓	2	07	3.1761	
8	04	HL2681	↓	3	08	3.5305	
9	AUH0046-08	101	0.5L	4	09	2.2121	

Austin Laboratory
Instrument Sequence (continued)

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	AVA0043-03	6584	0.5L	5	RA8710	2.7184	
11	05	5476	↓	6	11	2.5661	
12	06	RA2239	↓	7	12	2.3533	
13	07	HL6800	↓	8	13	3.0454	
14	08	RA2273	↓	9	14	2.98865	
15	AVA0046-01	6389	0.5L	10	15	2.7446	
16	Dup1	↓	↓	10	16	↓	
17	02	252	↓	11	17	2.7184	
18	Dup2	↓	↓	11	18	↓	
19	03	5477	↓	12	19	2.6731	
20	04	969	0.5L	13	20	2.6699	
21	05	HL6618	↓	14	21	2.7011	
22	06	RA2303	↓	15	22	2.7349	
23	07	HL0961	↓	1 Kw	23	2.6042	
24	09	5458	0.5L	2	24	2.6730	
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

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Sequence Name: C:\msdchem\1\sequence\R110827.S
Comment:
Operator: KRW
Data Path: C:\MSDCHEM\1\DATA\R110827\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

8/28/11
KRW

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

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

Line			Sample Name/Misc Info
1)	Sample	1	RA082701 RA110824 WARMUP
2)	Sample	1	RA082702 RA110824 11H0392-CCV1,,,,0.01043;CCAL
3)	Sample	1	RA082703 RA110824 11H0392-BS1,,,,0.01046;LCS
4)	Sample	1	RA082704 RA110824 11H0392-BSD1,,,,0.01046;LCS
5)	Sample	1	RA082705 RA110824 11H0392-BLK1
6)	Sample	1	RA082706 RA110824 AUH0043-01,,,,;TCBS
7)	Sample	1	RA082707 RA110824 AUH0043-02,,,,;TCBS
8)	Sample	1	RA082708 RA110824 AUH0043-04,,,,;TCBS
9)	Sample	1	RA082709 RA110824 AUH0046-08,,,,;TCBS
10)	Sample	1	RA082710 RA110824 AUH0043-03,,,,;TCBS
11)	Sample	1	RA082711 RA110824 AUH0043-05,,,,;TCBS
12)	Sample	1	RA082712 RA110824 AUH0043-06,,,,;TCBS
13)	Sample	1	RA082713 RA110824 AUH0043-07,,,,;TCBS
14)	Sample	1	RA082714 RA110824 AUH0043-08,,,,;TCBS
15)	Sample	1	RA082715 RA110824 AUH0046-01,,,,;TCBS
16)	Sample	1	RA082716 RA110824 11H0392-DUP1,,,,;TCBS
17)	Sample	1	RA082717 RA110824 AUH0046-02,,,,;TCBS
18)	Sample	1	RA082718 RA110824 11H0392-DUP2,,,,;TCBS
19)	Sample	1	RA082719 RA110824 AUH0046-03,,,,;TCBS
20)	Sample	1	RA082720 RA110824 AUH0046-04,,,,;TCBS
21)	Sample	1	RA082721 RA110824 AUH0046-05,,,,;TCBS
22)	Sample	1	RA082722 RA110824 AUH0046-06,,,,;TCBS
23)	Sample	1	RA082723 RA110824 AUH0046-07,,,,;TCBS
24)	Sample	1	RA082724 RA110824 AUH0046-09,,,,;TCBS

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

Sequence Name: C:\Smart\R110827.SEQ
Date: 08-28-2011
Time: 10:33:22
Int. Std Volume: 200 cc

8/28/11
LW

Sample Name	Inlet #	Auto Samp Pos	Cal Vol.	Std Vol.	Method	Time
WARMUP	1	2	500	0	C:\Smart\C053011V2.MPT	12:00
11H0392-CCV1	1	2	500	0	C:\Smart\C053011V2.MPT	12:00
11H0392-BS1	1	6	500	0	C:\Smart\C053011V2.MPT	12:00
11H0392-BSD1	1	6	500	0	C:\Smart\C053011V2.MPT	12:00
11H0392-BLK1	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-01	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-02	1	2	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-04	1	3	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-08	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-03	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-05	1	6	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-06	1	7	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-07	1	8	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-08	1	9	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-01	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
11H0392-DUP1	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-02	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
11H0392-DUP2	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-03	1	12	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-04	1	13	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-05	1	14	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-06	1	15	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-07	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-09	1	2	500	0	C:\Smart\C053011V2.MPT	12:00

BFB

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082702.D Vial: 1
Acq On : 27 Aug 2011 9:20 am Operator: KRW
Sample : 11H0392-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :

8/27/11
KRW

Spectrum Information: Average of 29.110 to 29.155 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	29.4	4903	PASS
75	95	30	66	64.4	10751	PASS
95	95	100	100	100.0	16691	PASS
96	95	5	9	6.3	1053	PASS
173	174	0.00	2	0.6	73	PASS
174	95	50	120	67.4	11253	PASS
175	174	4	9	7.2	809	PASS
176	174	93	101	93.0	10466	PASS
177	176	5	9	7.0	733	PASS

RA082702.D RA110824.M Sat Aug 27 10:12:56 2011 KRW

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082702.D Vial: 1
Acq On : 27 Aug 2011 9:20 am Operator: KRW
Sample : 11H0392-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 9:59 19111 Quant Results File: RA110824.RES

123/180

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	211096	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	86005	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	81645	1.8925 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.50%	
65) Fluorobenzene	19.00	96	188447	1.8356 ppbV	0.01
Spiked Amount 2.000			Recovery	= 92.00%	
113) Toluene-d8	22.92	98	153327	2.0318 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	
115) 1,4-Dichlorobutane	28.05	90	12605	2.0698 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.50%	
141) 1,4-Bromofluorobenzene	29.13	95	58241	2.0599 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	30554	4.5630 ppbV	S	95
4) Acetylene	3.54	26	52641	4.2116 ppbV	S	89
5) Ethane	3.62	26	12613	3.3705 ppbV	S	99
7) Propylene	5.21	41	85148	4.5073 ppbV	S	96
9) Propane	5.37	43	37227	4.2904 ppbV	S	91
10) Dichlorodifluoromethane	5.87	85	490167	4.5481 ppbV	S	98
11) Chloromethane	6.73	50	115147	4.3515 ppbV	S	97
12) Isobutane	7.37	43	236864	4.3238 ppbV	S	91
13) Halocarbon 114	7.58	85	411345	4.2983 ppbV	S	87
14) Acetaldehyde	7.54	44	53536m	4.4689 ppbV	S	
15) Vinyl chloride	7.81	62	128098	4.2532 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	166018	4.3029 ppbV	S	74
17) 1,3-Butadiene	8.36	39	112833	4.6776 ppbV	S	98
18) n-Butane	8.52	43	202154	4.2332 ppbV	S	94
19) Methanol	8.32	31	23774m	3.9105 ppbV	S	
20) trans-2-Butene	8.89	41	152337	4.2642 ppbV	S	89
23) Bromomethane	9.06	94	118861	4.2853 ppbV	S	93
24) cis-2-Butene	9.37	41	163420	4.6172 ppbV	S	89
25) Chloroethane	9.64	64	67160	4.2178 ppbV	S	93
26) Vinyl bromide	10.43	106	134365	4.8778 ppbV	S	87
27) 3-Methyl-1-butene	10.46	55	329950	4.7571 ppbV	S	80
28) Ethanol	10.48	45	43716	4.4744 ppbV	S	89
29) Acetonitrile	10.63	41	110426	4.8788 ppbV	S	96
30) Acrolein	10.85	56	54754	5.3647 ppbV #	S	45
31) Isopentane	11.08	41	158926	4.4471 ppbV #	S	1
32) Trichlorofluoromethane	11.35	101	467770	4.7968 ppbV #	S	70
33) 1-Pentene	11.67	42	179804	4.7128 ppbV #	S	1
34) Acetone	11.15	43	301726m	5.4469 ppbV	S	
36) Acrylonitrile	12.08	52	100766	5.4480 ppbV #	S	1
37) n-Pentane	12.09	43	239832	4.7149 ppbV	S	86
39) Isoprene	12.26	67	158964	4.6153 ppbV	S	95
40) trans-2-Pentene	12.42	55	283810	4.9119 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	267803	4.8448 ppbV #	S	10
42) cis-2-Pentene	12.72	55	276339	4.8297 ppbV #	S	1
43) Methylene chloride	12.84	49	176977	4.7752 ppbV #	S	1

4.2532 ppbv 8-30-11

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082702.D Vial: 1
Acq On : 27 Aug 2011 9:20 am Operator: KRW
Sample : 11H0392-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 9:59 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	2-Methyl-2-butene	12.90	55	293282	5.0227 ppbV #	S 1
45)	Carbon Disulfide	12.94	76	422188	4.9778 ppbV	S 95
46)	3-Chloropropene	13.00	41	172164	5.0630 ppbV #	S 1
47)	Halocarbon 113	13.32	151	184256	4.7900 ppbV #	S 100
48)	Neohexane	13.47	43	199773	4.7803 ppbV #	S 1
49)	Cyclopentene	14.17	67	295844	4.6257 ppbV #	S 1
50)	trans-1,2-Dichloroethene	14.33	61	224858	4.8175 ppbV #	S 1
51)	4-Methyl-1-pentene	14.37	43	211762	4.8874 ppbV	S 83
53)	1,1-Dichloroethane	14.62	63	294077	4.5214 ppbV #	S 100
54)	Cyclopentane	14.62	42	242245	4.3520 ppbV	S 80
55)	2,3-Dimethylbutane	14.73	43	314201	4.2402 ppbV #	S 62
56)	Methyl tert-butyl ether	14.81	73	404487	4.4310 ppbV #	S 1
57)	Isohexane	14.93	42	164868	4.3632 ppbV #	S 45
58)	Vinyl acetate	15.04	43	475765	5.3958 ppbV #	S 47
62)	2-Butanone	15.33	43	340716	5.0663 ppbV #	S 1
63)	Chloroprene	15.50	53	290131	4.5968 ppbV	S 77
64)	3-Methylpentane	15.53	57	273377	4.3765 ppbV	S 95
66)	2-Methyl-1-pentene	15.77	56	255010	4.5274 ppbV #	S 1
67)	1-Hexene	15.80	41	166713	4.6351 ppbV #	S 58
68)	cis-1,2-Dichloroethene	15.93	61	231217	4.6524 ppbV #	S 1
69)	Bromochloromethane	16.17	130	96524	4.2760 ppbV #	S 1
71)	n-Hexane	16.29	57	233993	4.5741 ppbV #	S 1
72)	Chloroform	16.40	83	360632	4.5247 ppbV #	S 1
74)	trans-2-Hexene	16.51	55	297820	4.7048 ppbV #	S 1
77)	cis-2-Hexene	16.91	55	242733	4.3746 ppbV	S 95
78)	Methylcyclopentane	17.43	56	281315	4.3550 ppbV	S 88
79)	1,2-Dichloroethane	17.45	62	313939	4.9359 ppbV	S 90
80)	2,4-Dimethylpentane	17.61	43	327160	4.4676 ppbV #	S 1
81)	1,1,1-Trichloroethane	17.80	97	417345	4.7503 ppbV #	S 1
84)	Benzene	18.48	78	348191	4.8520 ppbV	S 75
85)	Carbon tetrachloride	18.70	117	412988	5.0251 ppbV #	S 1
86)	1-Butanol	18.67	56	103762	4.6222 ppbV	S 96
87)	Cyclohexane	18.88	56	236099	4.7324 ppbV #	S 1
88)	Isoheptane	19.27	43	354505	4.8364 ppbV #	S 30
89)	2,3-Dimethylpentane	19.34	56	289440	4.6718 ppbV #	S 66
91)	3-Methylhexane	19.64	43	278146	4.7829 ppbV #	S 76
92)	1,2-Dichloropropane	19.75	63	139177	4.9326 ppbV #	S 1
93)	Bromodichloromethane	20.08	83	343065	4.8885 ppbV #	S 1
94)	Trichloroethene	20.14	130	141753	4.7437 ppbV #	S 1
95)	1,4-Dioxane	20.17	88	43927	3.7711 ppbV #	S 47
97)	2,2,4-Trimethylpentane	20.22	57	782851	4.6320 ppbV	S 91
98)	2-Chloropentane	20.45	70	208602	5.0402 ppbV #	S 12
100)	n-Heptane	20.70	71	139926	4.9066 ppbV #	S 1
104)	cis-1,3-Dichloropropene	21.54	75	183992	5.0718 ppbV #	S 1
105)	Methylisobutylketone	21.64	43	390492	5.5694 ppbV #	S 1
106)	Methylcyclohexane	21.62	83	260327	4.7396 ppbV	S 90
110)	trans-1,3-Dichloropropene	22.41	75	182863	5.5091 ppbV #	S 1
111)	1,1,2-Trichloroethane	22.65	97	112437	5.1224 ppbV #	S 1
112)	2,3,4-Trimethylpentane	22.87	43	470349	4.8493 ppbV	S 95
114)	Toluene	23.09	91	352524	5.4364 ppbV #	S 1
117)	2-Methylheptane	23.53	43	350821	5.0521 ppbV #	S 10

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082702.D Vial: 1
Acq On : 27 Aug 2011 9:20 am Operator: KRW
Sample : 11H0392-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 9:59 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
119) Dibromochloromethane	23.77	129	203655	5.2137	ppbV	#	S	38
120) 3-Methylheptane	23.85	85	194684	4.8913	ppbV	#	S	1
122) 1,2-Dibromoethane	24.17	107	146065	5.0074	ppbV	#	S	1
125) n-Octane	24.92	43	345059	5.3347	ppbV	#	S	50
126) Tetrachloroethene	25.02	164	125138	5.2125	ppbV		S	97
128) Chlorobenzene	26.24	112	180164	5.3081	ppbV	#	S	1
129) Ethylbenzene	26.98	91	375189	5.7294	ppbV		S	98
130) m/p-Xylene	27.35	91	640223m	11.2648	ppbV		S	
131) Bromoform	27.38	173	126861	5.3515	ppbV	#	S	1
134) Styrene	28.02	104	151441	5.6384	ppbV	#	S	21
135) 1,1,2,2-Tetrachloroethane	28.23	83	187802	4.5310	ppbV		S	94
136) o-Xylene	28.22	91	333387	5.7061	ppbV		S	88
140) n-Nonane	28.84	43	309072	5.6422	ppbV	#	S	71
142) Isopropylbenzene	29.45	105	475705	5.2662	ppbV		S	100
144) alpha-Pinene	30.25	93	535951	5.2288	ppbV		S	95
147) n-Propylbenzene	30.56	91	406305	4.7798	ppbV	#	S	34
148) m-Ethyltoluene	30.82	105	309086	4.4568	ppbV		S	90
149) p-Ethyltoluene	30.90	105	281983	4.4854	ppbV		S	89
150) 1,3,5-Trimethylbenzene	31.10	105	354737	4.8461	ppbV		S	86
151) o-Ethyltoluene	31.49	105	355539	4.3797	ppbV		S	87
152) beta-Pinene	31.77	93	385715	3.7567	ppbV	#	S	1
153) 1,2,4-Trimethylbenzene	32.02	105	331501	5.0132	ppbV	#	S	1
156) Benzyl chloride	32.30	91	293354	7.6324	ppbV		S	98
157) m-Dichlorobenzene	32.30	146	125780	4.5986	ppbV		S	84
158) n-Decane	32.47	57	369758	5.5897	ppbV		S	75
159) p-Dichlorobenzene	32.47	146	140216	5.3446	ppbV		S	83
161) 1,2,3-Trimethylbenzene	33.04	105	461867	5.9681	ppbV		S	86
163) o-Dichlorobenzene	33.29	146	181185	6.0238	ppbV		S	94
164) Limonene	33.47	68	272332	6.7280	ppbV		S	83
165) Indan	33.49	117	299285	6.7283	ppbV		S	90
166) Indene	33.71	115	312794	8.0496	ppbV		S	95
167) m-Diethylbenzene	33.92	105	386205	6.0338	ppbV	#	S	28
168) p-Diethylbenzene	34.15	119	322062	6.1012	ppbV	#	S	1
171) n-Undecane	35.84	57	516426	5.6442	ppbV		S	76
172) 1,2,4-Trichlorobenzene	37.85	180	221309	6.8181	ppbV	#	S	100
173) Naphthalene	38.04	128	590123	5.8444	ppbV		S	96
174) Hexachloro-1,3-butadiene	38.81	225	325923	6.7059	ppbV		S	97

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082702.D Vial: 1
Acq On : 27 Aug 2011 9:20 am Operator: KRW
Sample : 11H0392-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 9:59 19111 Quant Results File: RA110824.RES

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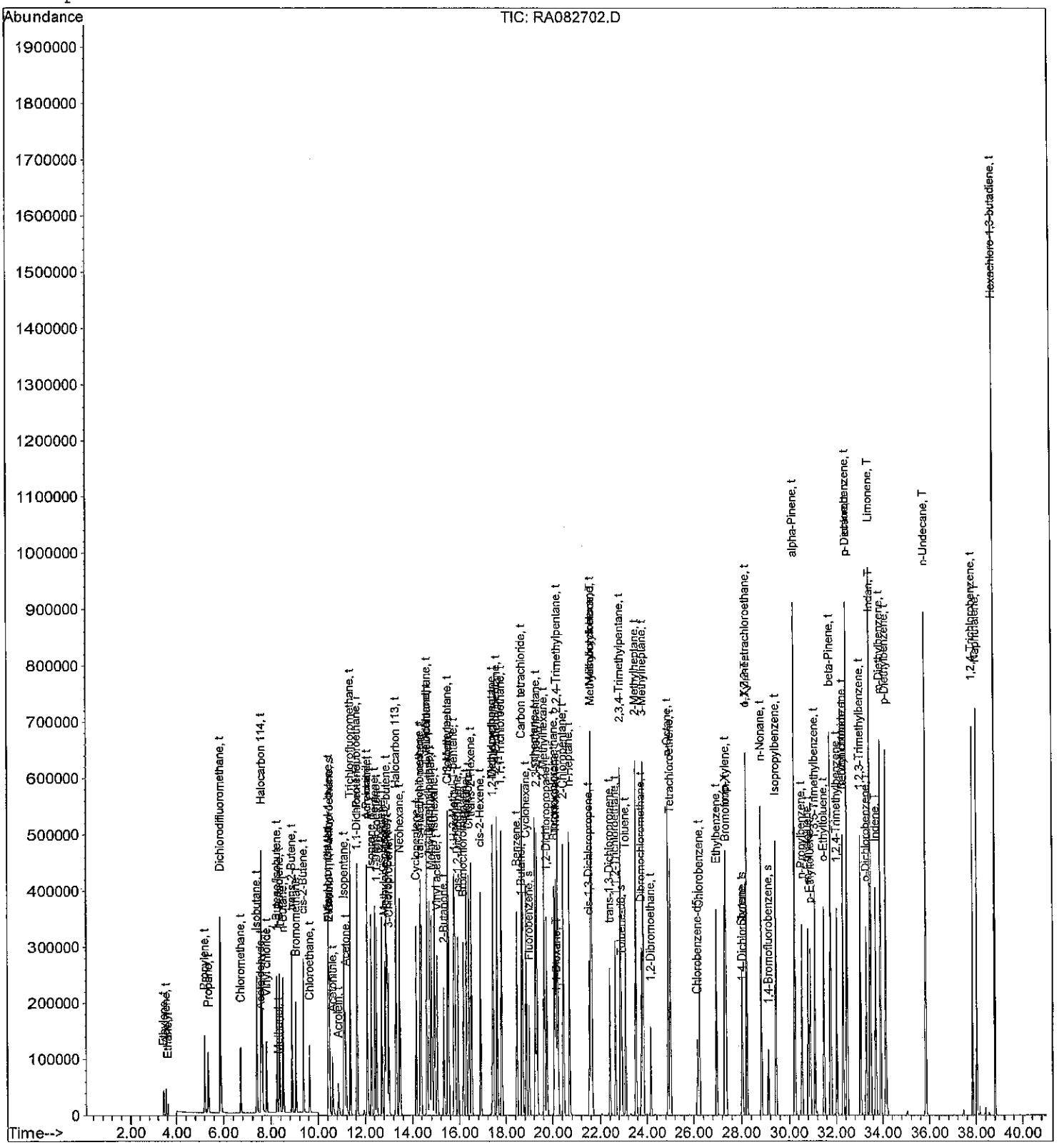
Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082703.D Vial: 1
Acq On : 27 Aug 2011 10:21 am Operator: KRW
Sample : 11H0392-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:01 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8.30.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	214145	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	90722	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	85863	1.9619 ppbV	0.02
Spiked Amount 2.000			Recovery	= 98.00%	
65) Fluorobenzene	19.00	96	195848	1.8805 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.00%	
113) Toluene-d8	22.92	98	158113	1.9863 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
115) 1,4-Dichlorobutane	28.05	90	13945	2.1708 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.50%	
141) 1,4-Bromofluorobenzene	29.13	95	62967	2.1113 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	31819	4.6843 ppbV	S	97
4) Acetylene	3.54	26	57124	4.5051 ppbV	S	90
5) Ethane	3.63	26	12401	3.2667 ppbV	S	99
7) Propylene	5.21	41	89301	4.6599 ppbV	S	96
8) Chlorodifluoromethane	5.57	51	290074	5.1402 ppbV	S	97
9) Propane	5.37	43	38370	4.3591 ppbV	S	93
10) Dichlorodifluoromethane	5.88	85	525565	4.8071 ppbV	S	98
11) Chloromethane	6.72	50	128924	4.8028 ppbV	S	98
12) Isobutane	7.38	43	248717	4.4756 ppbV	S	94
13) Halocarbon 114	7.58	85	398303	4.1027 ppbV	S	89
15) Vinyl chloride	7.81	62	143082	4.6831 ppbV	S	98
16) 1-Butene/Isobutene	8.25	41	173527	4.4335 ppbV	S	75
17) 1,3-Butadiene	8.36	39	123870	5.0620 ppbV	S	96
18) n-Butane	8.52	43	211330	4.3623 ppbV	S	96
19) Methanol	8.32	31	23422m	3.7978 ppbV	S	
20) trans-2-Butene	8.90	41	159271	4.3948 ppbV	S	88
23) Bromomethane	9.06	94	130280	4.6302 ppbV	S	93
24) cis-2-Butene	9.37	41	170131	4.7384 ppbV	S	90
25) Chloroethane	9.65	64	73624	4.5579 ppbV	S	92
26) Vinyl bromide	10.43	106	125970	4.5079 ppbV	S	85
27) 3-Methyl-1-butene	10.46	55	344315	4.8935 ppbV	S	80
29) Acetonitrile	10.63	41	104621m	4.5565 ppbV	S	
30) Acrolein	10.86	56	50262	4.8545 ppbV #	S	45
31) Isopentane	11.09	41	164333	4.5329 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	490249	4.9558 ppbV #	S	72
33) 1-Pentene	11.67	42	191523	4.9485 ppbV #	S	1
34) Acetone	11.16	43	287108m	5.1092 ppbV	S	
35) 2-Propanol	11.91	45	249037m	5.8708 ppbV	S	
36) Acrylonitrile	12.08	52	93937	5.0065 ppbV #	S	1
37) n-Pentane	12.09	43	252201	4.8875 ppbV	S	85
38) Diethyl ether	12.27	74	69153	5.4043 ppbV #	S	1
39) Isoprene	12.26	67	170537	4.8808 ppbV	S	94
40) trans-2-Pentene	12.42	55	286171	4.8822 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	285711	5.0951 ppbV #	S	9
42) cis-2-Pentene	12.72	55	282984	4.8754 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082703.D Vial: 1
Acq On : 27 Aug 2011 10:21 am Operator: KRW
Sample : 11H0392-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:01 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
43)	Methylene chloride	12.84	49	187955	4.9992	ppbV	#	S	1
44)	2-Methyl-2-butene	12.90	55	295384	4.9867	ppbV	#	S	1
45)	Carbon Disulfide	12.94	76	348284	4.0479	ppbV		S	95
46)	3-Chloropropene	13.01	41	154757	4.4863	ppbV	#	S	1
47)	Halocarbon 113	13.32	151	197741	5.0673	ppbV	#	S	100
50)	trans-1,2-Dichloroethene	14.34	61	227636	4.8076	ppbV	#	S	1
51)	4-Methyl-1-pentene	14.37	43	222751	5.0678	ppbV		S	82
53)	1,1-Dichloroethane	14.63	63	307449	4.6596	ppbV	#	S	100
56)	Methyl tert-butyl ether	14.81	73	453959	4.9021	ppbV	#	S	1
58)	Vinyl acetate	15.05	43	427172	4.7757	ppbV	#	S	46
62)	2-Butanone	15.33	43	322944	4.7337	ppbV	#	S	1
63)	Chloroprene	15.51	53	302142	4.7189	ppbV		S	78
68)	cis-1,2-Dichloroethene	15.94	61	246574	4.8907	ppbV	#	S	1
71)	n-Hexane	16.29	57	231488	4.4607	ppbV	#	S	1
72)	Chloroform	16.41	83	382617	4.7322	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	307115	4.7825	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	250609	4.4522	ppbV		S	95
79)	1,2-Dichloroethane	17.45	62	329316	5.1040	ppbV		S	90
81)	1,1,1-Trichloroethane	17.80	97	435501	4.8864	ppbV	#	S	1
84)	Benzene	18.48	78	371687	4.9101	ppbV		S	77
85)	Carbon tetrachloride	18.70	117	420317	4.8484	ppbV	#	S	1
86)	1-Butanol	18.67	56	95106	4.0163	ppbV		S	97
87)	Cyclohexane	18.87	56	235260	4.4704	ppbV	#	S	1
92)	1,2-Dichloropropane	19.75	63	149340	5.0176	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	395547	5.3433	ppbV	#	S	1
94)	Trichloroethene	20.14	130	147964	4.6941	ppbV	#	S	1
95)	1,4-Dioxane	20.18	88	43810	3.5655	ppbV	#	S	31
97)	2,2,4-Trimethylpentane	20.22	57	785926	4.4084	ppbV		S	91
98)	2-Chloropentane	20.45	70	191010	4.3752	ppbV	#	S	12
100)	n-Heptane	20.70	71	139649	4.6423	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	210533	5.5017	ppbV	#	S	1
105)	Methylisobutylketone	21.64	43	361438	4.8870	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.41	75	180762	5.1627	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	123476	5.3329	ppbV	#	S	1
114)	Toluene	23.09	91	368848	5.3924	ppbV	#	S	1
116)	2-Hexanone	23.63	43	267575	5.5220	ppbV	#	S	23
119)	Dibromochloromethane	23.77	129	229361	5.5665	ppbV	#	S	40
122)	1,2-Dibromoethane	24.17	107	156042	5.0713	ppbV	#	S	1
125)	n-Octane	24.92	43	347061	5.0867	ppbV	#	S	49
126)	Tetrachloroethene	25.02	164	134590	5.3147	ppbV		S	95
128)	Chlorobenzene	26.23	112	196635	5.4922	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	405062	5.8639	ppbV		S	96
130)	m/p-Xylene	27.36	91	694989m	11.5926	ppbV		S	
131)	Bromoform	27.38	173	146049	5.8406	ppbV	#	S	1
134)	Styrene	28.02	104	166995	5.8942	ppbV	#	S	22
135)	1,1,2,2-Tetrachloroethane	28.23	83	203734	4.6598	ppbV		S	93
136)	o-Xylene	28.23	91	360437	5.8483	ppbV		S	89
140)	n-Nonane	28.84	43	321558	5.5649	ppbV		S	73
142)	Isopropylbenzene	29.45	105	512341	5.3769	ppbV		S	100
145)	o/m-Chlorotoluene	30.41	91	273849	6.4495	ppbV	#	S	1
147)	n-Propylbenzene	30.56	91	442466	4.9345	ppbV	#	S	35

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082703.D Vial: 1
Acq On : 27 Aug 2011 10:21 am Operator: KRW
Sample : 11H0392-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:01 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
149) p-Ethyltoluene	30.90	105	344199	5.1903 ppbV	S	88
150) 1,3,5-Trimethylbenzene	31.09	105	373084	4.8317 ppbV	S	86
153) 1,2,4-Trimethylbenzene	32.02	105	332500	4.7668 ppbV #	S	1
154) tert-Butylbenzene	32.00	119	528338	5.8581 ppbV #	S	59
156) Benzyl chloride	32.30	91	295526	7.2892 ppbV	S	98
157) m-Dichlorobenzene	32.30	146	120729	4.1844 ppbV	S	82
158) n-Decane	32.48	57	345066	4.9452 ppbV	S	75
159) p-Dichlorobenzene	32.48	146	120892	4.3684 ppbV	S	81
162) p-Isopropyltoluene	33.11	119	586290	7.1974 ppbV #	S	42
163) o-Dichlorobenzene	33.30	146	156938	4.9464 ppbV	S	95
169) n-Butylbenzene	34.19	91	604606	7.6894 ppbV #	S	1
171) n-Undecane	35.84	57	486987	5.0457 ppbV	S	73
172) 1,2,4-Trichlorobenzene	37.85	180	212139	6.1958 ppbV #	S	100
173) Naphthalene	38.04	128	495594	4.6530 ppbV	S	96
174) Hexachloro-1,3-butadiene	38.81	225	332881	6.4930 ppbV	S	97

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082703.D Vial: 1
Acq On : 27 Aug 2011 10:21 am Operator: KRW
Sample : 11H0392-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:01 19111 Quant Results File: RA110824.RES

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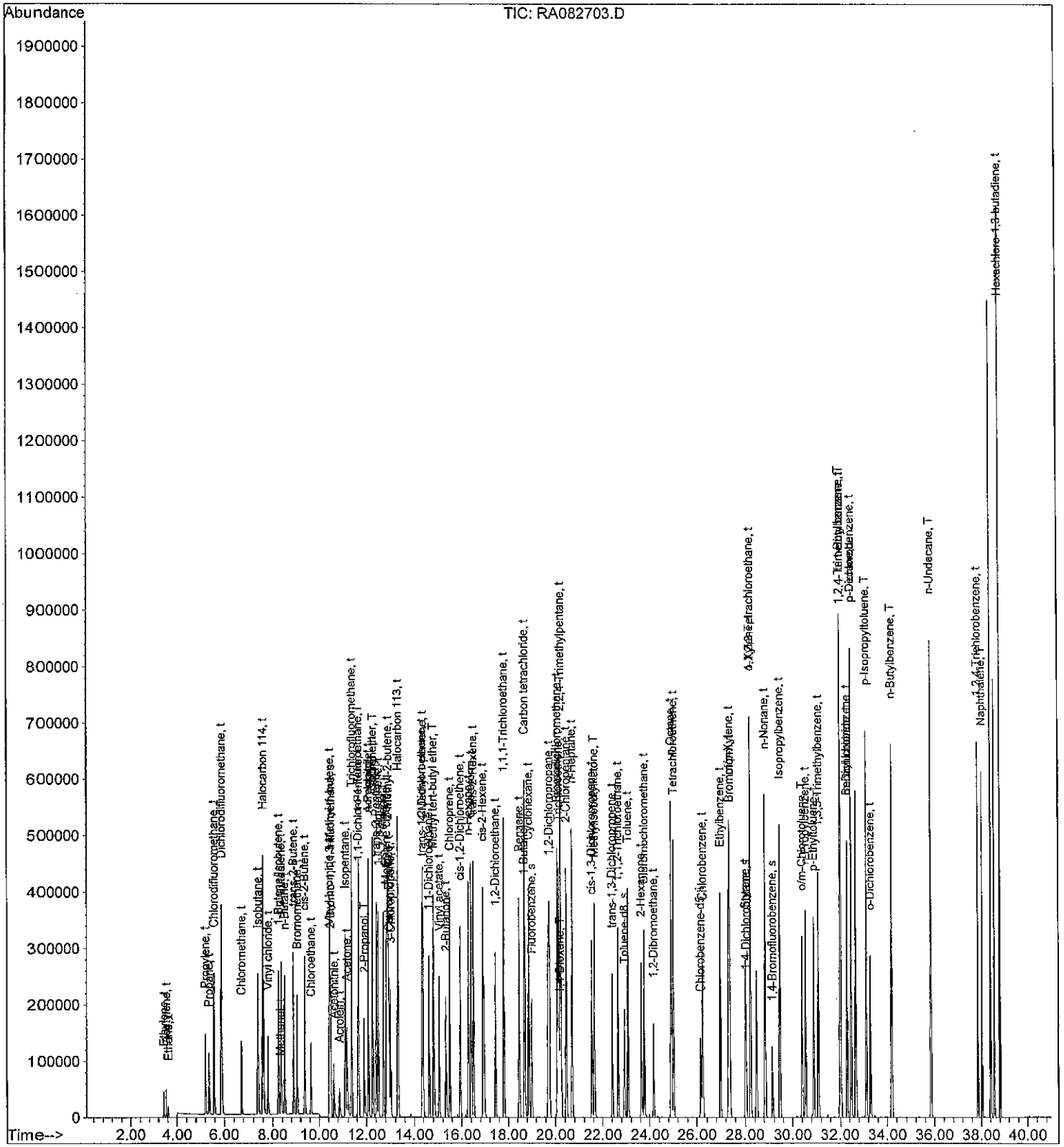
Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082704.D Vial: 1
Acq On : 27 Aug 2011 11:20 am Operator: KRW
Sample : 11H0392-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:04 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	213816	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	93640	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	84593	1.9359 ppbV	0.02
Spiked Amount 2.000			Recovery	= 97.00%	
65) Fluorobenzene	19.00	96	199123	1.9149 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.50%	
113) Toluene-d8	22.92	98	160936	1.9587 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	
115) 1,4-Dichlorobutane	28.06	90	13546	2.0430 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.00%	
141) 1,4-Bromofluorobenzene	29.14	95	64983	2.1110 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	31322	4.6182 ppbV	S	95
4) Acetylene	3.54	26	56021	4.4250 ppbV	S	90
5) Ethane	3.63	26	12267	3.2363 ppbV	S	98
7) Propylene	5.21	41	87117	4.5529 ppbV	S	97
8) Chlorodifluoromethane	5.57	51	285518	5.0673 ppbV	S	96
9) Propane	5.37	43	38322	4.3604 ppbV	S	90
10) Dichlorodifluoromethane	5.87	85	516619	4.7325 ppbV	S	98
11) Chloromethane	6.73	50	125938	4.6988 ppbV	S	99
12) Isobutane	7.38	43	243004	4.3795 ppbV	S	94
13) Halocarbon 114	7.59	85	393322	4.0576 ppbV	S	89
15) Vinyl chloride	7.81	62	141182	4.6280 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	171331	4.3841 ppbV	S	75
17) 1,3-Butadiene	8.37	39	122131	4.9986 ppbV	S	97
18) n-Butane	8.52	43	207716	4.2943 ppbV	S	94
19) Methanol	8.33	31	23708m	3.8501 ppbV	S	
20) trans-2-Butene	8.90	41	156758	4.3321 ppbV	S	90
23) Bromomethane	9.06	94	128825	4.5855 ppbV	S	92
24) cis-2-Butene	9.38	41	168911	4.7116 ppbV	S	91
25) Chloroethane	9.65	64	73016	4.5272 ppbV	S	91
26) Vinyl bromide	10.43	106	126252	4.5250 ppbV	S	87
27) 3-Methyl-1-butene	10.47	55	342946	4.8816 ppbV	S	80
29) Acetonitrile	10.64	41	104647m	4.5646 ppbV	S	
30) Acrolein	10.87	56	50794	4.9134 ppbV #	S	43
31) Isopentane	11.09	41	163865	4.5270 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	490772	4.9687 ppbV #	S	70
33) 1-Pentene	11.67	42	192035	4.9693 ppbV #	S	1
34) Acetone	11.16	43	285749m	5.0929 ppbV	S	
35) 2-Propanol	11.91	45	201048m	4.7468 ppbV	S	
36) Acrylonitrile	12.09	52	95475	5.0963 ppbV #	S	1
37) n-Pentane	12.10	43	252711	4.9049 ppbV	S	85
38) Diethyl ether	12.28	74	67521	5.2849 ppbV #	S	1
39) Isoprene	12.27	67	170979	4.9010 ppbV	S	94
40) trans-2-Pentene	12.43	55	287946	4.9201 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	288113	5.1459 ppbV #	S	10
42) cis-2-Pentene	12.72	55	285616	4.9283 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082704.D Vial: 1
Acq On : 27 Aug 2011 11:20 am Operator: KRW
Sample : 11H0392-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:04 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
43)	Methylene chloride	12.85	49	188801	5.0294	ppbV	#	S	1
44)	2-Methyl-2-butene	12.91	55	292943	4.9531	ppbV	#	S	1
45)	Carbon Disulfide	12.95	76	350831	4.0838	ppbV		S	94
46)	3-Chloropropene	13.01	41	156252	4.5366	ppbV	#	S	1
47)	Halocarbon 113	13.32	151	199015	5.1078	ppbV	#	S	100
50)	trans-1,2-Dichloroethene	14.34	61	226334	4.7874	ppbV	#	S	1
51)	4-Methyl-1-pentene	14.38	43	213735	4.8702	ppbV		S	91
53)	1,1-Dichloroethane	14.64	63	310461	4.7125	ppbV	#	S	100
56)	Methyl tert-butyl ether	14.82	73	453070	4.9001	ppbV	#	S	1
58)	Vinyl acetate	15.05	43	426748	4.7783	ppbV	#	S	47
62)	2-Butanone	15.34	43	323991	4.7563	ppbV	#	S	1
63)	Chloroprene	15.51	53	305492	4.7786	ppbV		S	77
68)	cis-1,2-Dichloroethene	15.94	61	246287	4.8926	ppbV	#	S	1
71)	n-Hexane	16.30	57	232358	4.4844	ppbV	#	S	1
72)	Chloroform	16.41	83	389197	4.8210	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	309468	4.8266	ppbV	#	S	1
77)	cis-2-Hexene	16.92	55	254053	4.5204	ppbV		S	94
79)	1,2-Dichloroethane	17.45	62	336696	5.2264	ppbV		S	90
81)	1,1,1-Trichloroethane	17.81	97	437312	4.9143	ppbV	#	S	1
84)	Benzene	18.48	78	378414	4.8432	ppbV		S	75
85)	Carbon tetrachloride	18.71	117	421503	4.7106	ppbV	#	S	1
86)	1-Butanol	18.67	56	45459	1.8599	ppbV		S	92
87)	Cyclohexane	18.87	56	235372	4.3332	ppbV	#	S	1
92)	1,2-Dichloropropane	19.75	63	150078	4.8852	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	408003	5.3398	ppbV	#	S	1
94)	Trichloroethene	20.14	130	157033	4.8266	ppbV	#	S	1
95)	1,4-Dioxane	20.18	88	49704	3.9191	ppbV	#	S	50
97)	2,2,4-Trimethylpentane	20.22	57	790128	4.2938	ppbV		S	91
98)	2-Chloropentane	20.46	70	191033	4.2394	ppbV	#	S	11
100)	n-Heptane	20.70	71	140661	4.5302	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	226448	5.7332	ppbV	#	S	1
105)	Methylisobutylketone	21.64	43	367079	4.8086	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.41	75	199098	5.5092	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	126905	5.3102	ppbV	#	S	1
114)	Toluene	23.09	91	371984	5.2687	ppbV	#	S	1
116)	2-Hexanone	23.63	43	294629	5.8909	ppbV	#	S	23
119)	Dibromochloromethane	23.77	129	238805	5.6151	ppbV	#	S	42
122)	1,2-Dibromoethane	24.17	107	173644	5.4675	ppbV	#	S	1
125)	n-Octane	24.92	43	352265	5.0021	ppbV	#	S	49
126)	Tetrachloroethene	25.02	164	138106	5.2836	ppbV		S	97
128)	Chlorobenzene	26.23	112	202358	5.4759	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	414344	5.8114	ppbV		S	97
130)	m/p-Xylene	27.35	91	702815m	11.3578	ppbV		S	
131)	Bromoform	27.38	173	155163	6.0117	ppbV	#	S	1
134)	Styrene	28.02	104	173423	5.9303	ppbV	#	S	21
135)	1,1,2,2-Tetrachloroethane	28.23	83	211580	4.6884	ppbV		S	93
136)	o-Xylene	28.23	91	366794	5.7660	ppbV		S	88
140)	n-Nonane	28.84	43	324552	5.4417	ppbV	#	S	73
142)	Isopropylbenzene	29.46	105	516979	5.2565	ppbV		S	100
145)	o/m-Chlorotoluene	30.41	91	278733	6.3599	ppbV	#	S	1
147)	n-Propylbenzene	30.56	91	453214	4.8969	ppbV	#	S	34

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082704.D Vial: 1
Acq On : 27 Aug 2011 11:20 am Operator: KRW
Sample : 11H0392-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:04 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

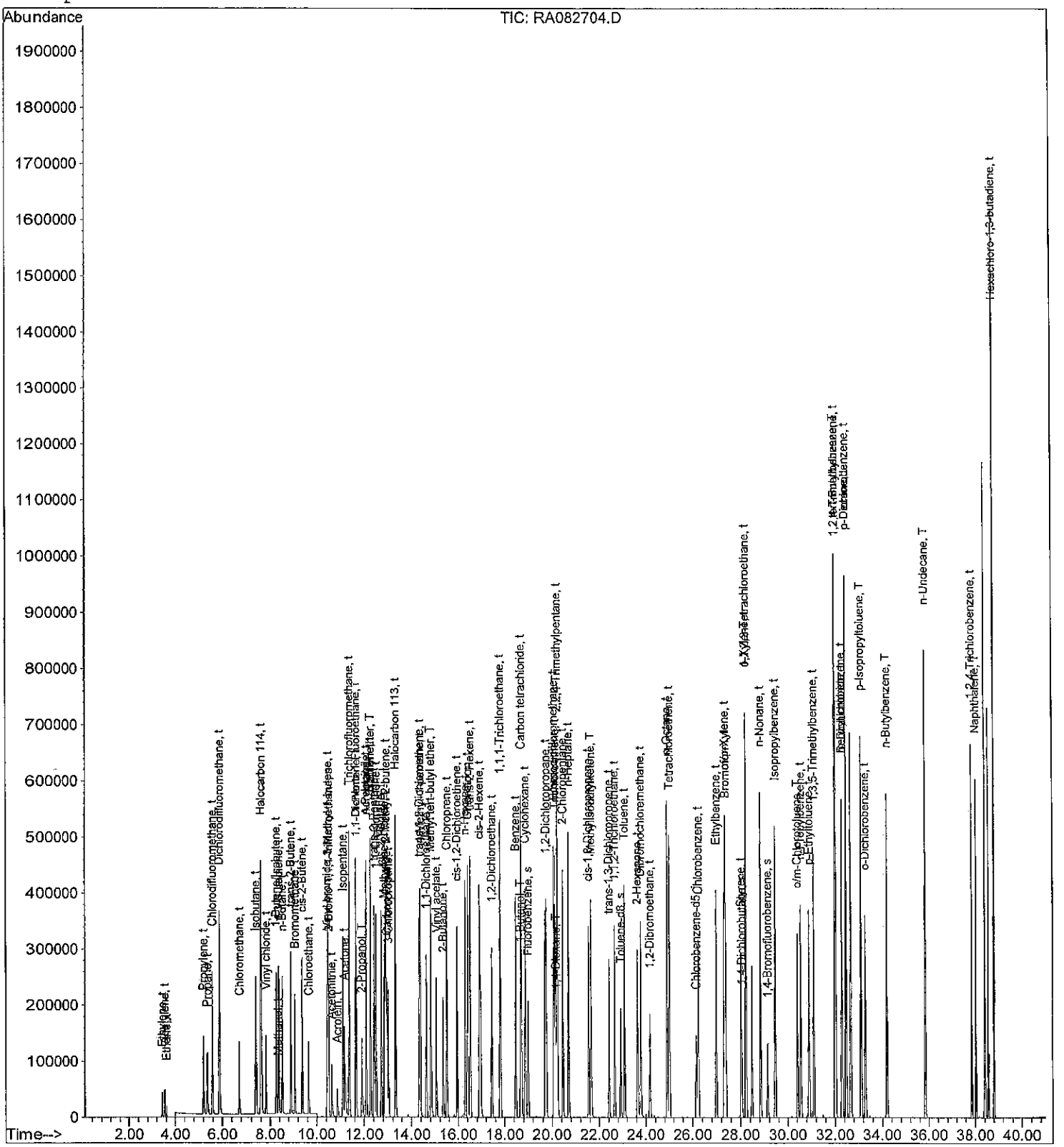
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
149) p-Ethyltoluene	30.90	105	354863	5.1844	ppbV	S	88
150) 1,3,5-Trimethylbenzene	31.09	105	418568	5.2519	ppbV	S	86
153) 1,2,4-Trimethylbenzene	32.02	105	424000	5.8892	ppbV #	S	1
154) tert-Butylbenzene	32.00	119	571312	6.1372	ppbV #	S	59
156) Benzyl chloride	32.30	91	319429	7.6332	ppbV	S	97
157) m-Dichlorobenzene	32.30	146	149645	5.0250	ppbV	S	83
158) n-Decane	32.48	57	387149	5.3754	ppbV	S	76
159) p-Dichlorobenzene	32.48	146	157490	5.5136	ppbV	S	83
162) p-Isopropyltoluene	33.11	119	578155	6.8764	ppbV #	S	43
163) o-Dichlorobenzene	33.29	146	198458	6.0601	ppbV	S	93
169) n-Butylbenzene	34.19	91	519094	6.3961	ppbV #	S	1
171) n-Undecane	35.84	57	479667	4.8150	ppbV	S	75
172) 1,2,4-Trichlorobenzene	37.85	180	208921	5.9117	ppbV #	S	100
173) Naphthalene	38.04	128	483260	4.3958	ppbV	S	96
174) Hexachloro-1,3-butadiene	38.81	225	327484	6.1887	ppbV	S	96

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082704.D Vial: 1
Acq On : 27 Aug 2011 11:20 am Operator: KRW
Sample : 11H0392-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:04 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082705.D Vial: 1
Acq On : 27 Aug 2011 12:21 pm Operator: KRW
Sample : 11H0392-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:05 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 9.30.11

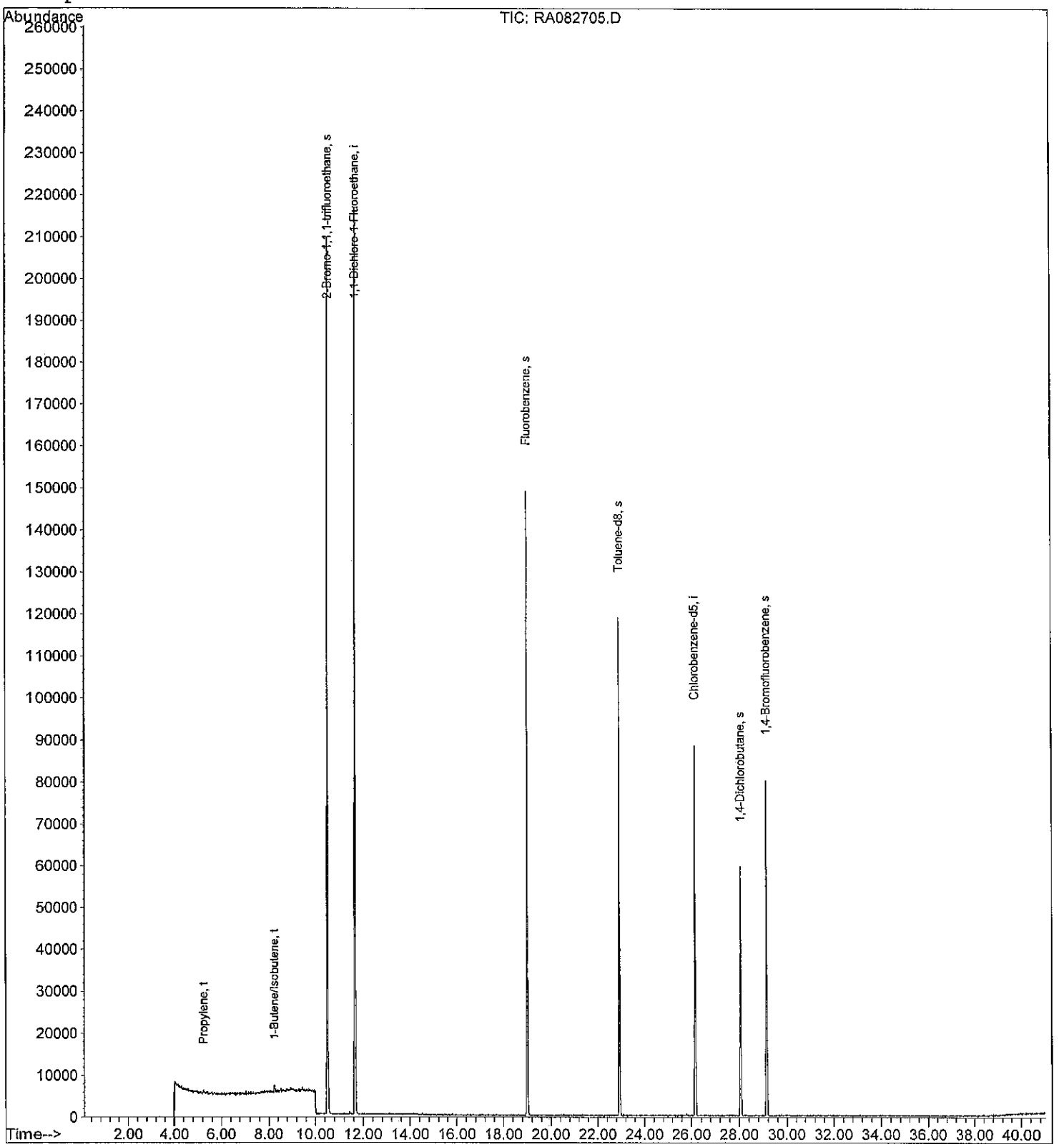
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	212944	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	55219	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	81581	1.8746 ppbV	0.02
Spiked Amount 2.000			Recovery	= 93.50%	
65) Fluorobenzene	19.00	96	140999	1.3615 ppbV	0.01
Spiked Amount 2.000			Recovery	= 68.00%	
113) Toluene-d8	22.92	98	96975	2.0015 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
115) 1,4-Dichlorobutane	28.06	90	7934	2.0292 ppbV	0.01
Spiked Amount 2.000			Recovery	= 101.50%	
141) 1,4-Bromofluorobenzene	29.14	95	38282	2.1089 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	
Target Compounds					Qvalue
7) Propylene	5.23	41	322	0.0169 ppbV	85
16) 1-Butene/Isobutene	8.23	41	1000	0.0257 ppbV #	60

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082705.D Vial: 1
Acq On : 27 Aug 2011 12:21 pm Operator: KRW
Sample : 11H0392-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:05 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082709.D Vial: 1
Acq On : 27 Aug 2011 4:25 pm Operator: KRW
Sample : AUH0046-08,,,,;TCESL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 10:26 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	191766	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	45685	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	67141	1.7131 ppbV	0.02
Spiked Amount 2.000			Recovery	= 85.50%	
65) Fluorobenzene	19.00	96	114449	1.2272 ppbV	0.01
Spiked Amount 2.000			Recovery	= 61.50%	
113) Toluene-d8	22.92	98	80096	1.9981 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
115) 1,4-Dichlorobutane	28.06	90	6279	1.9410 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.00%	
141) 1,4-Bromofluorobenzene	29.13	95	31451	2.0941 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.50%	

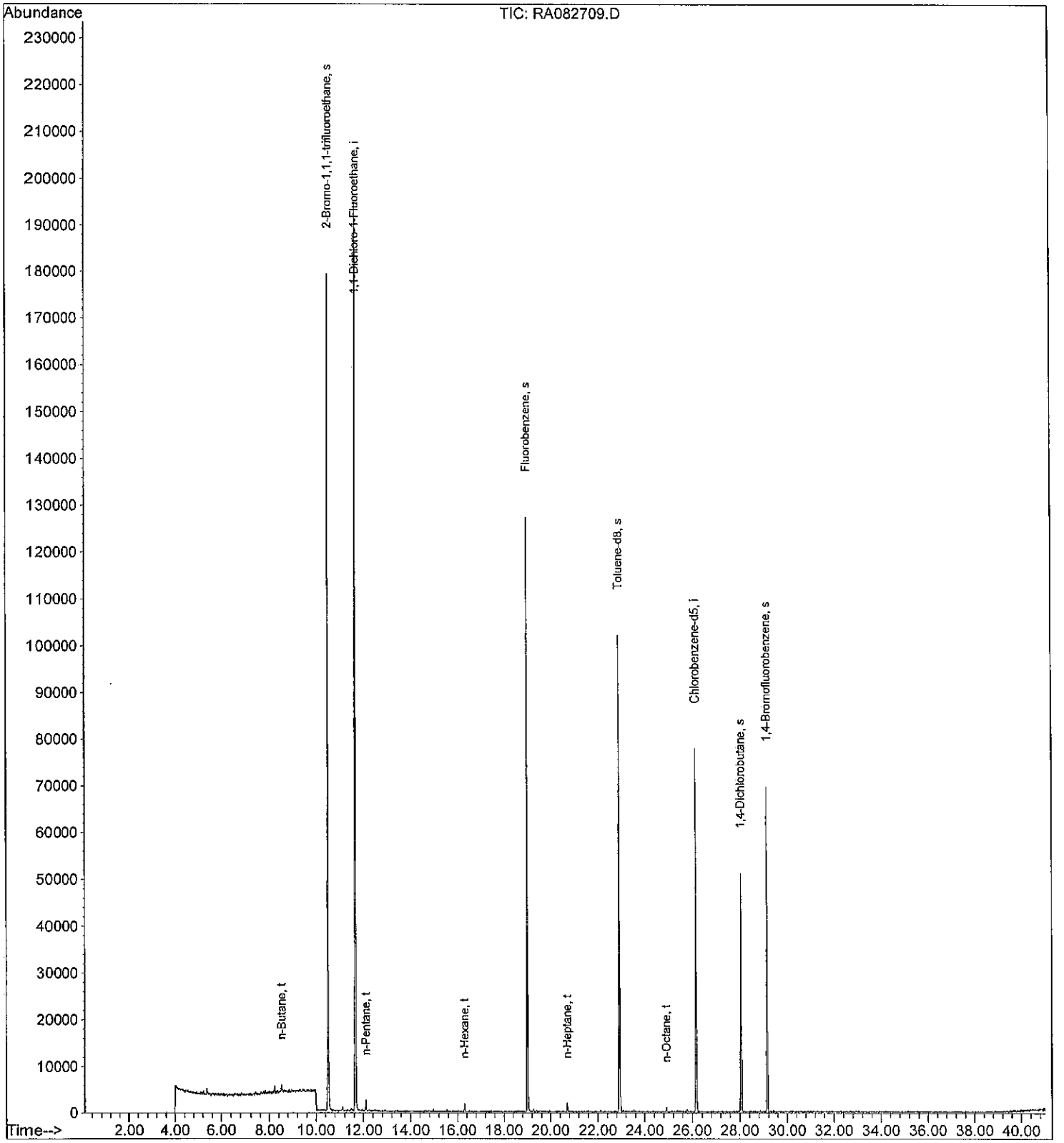
Target Compounds					Qvalue
18) n-Butane	8.54	43	1181	0.0272 ppbV	S 78
37) n-Pentane	12.11	43	1457	0.0315 ppbV	S 81
71) n-Hexane	16.31	57	704	0.0151 ppbV #	S 1
100) n-Heptane	20.71	71	314	0.0207 ppbV #	S 1
125) n-Octane	24.92	43	491	0.0143 ppbV #	S 48

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082709.D Vial: 1
Acq On : 27 Aug 2011 4:25 pm Operator: KRW
Sample : AUH0046-08,,,,;TCESL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 10:26 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082715.D Vial: 1
Acq On : 27 Aug 2011 10:26 pm Operator: KRW
Sample : AUH0046-01,,,,;TCESL Inst : GCMS-R1
Misc : 2.7416,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:35 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	202909	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	53562	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	78247	1.8869 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.50%	
65) Fluorobenzene	19.01	96	129951	1.3169 ppbV	0.02
Spiked Amount 2.000			Recovery	= 66.00%	
113) Toluene-d8	22.93	98	89820	1.9112 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.50%	
115) 1,4-Dichlorobutane	28.05	90	7406	1.9527 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
141) 1,4-Bromofluorobenzene	29.14	95	36334	2.0635 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	

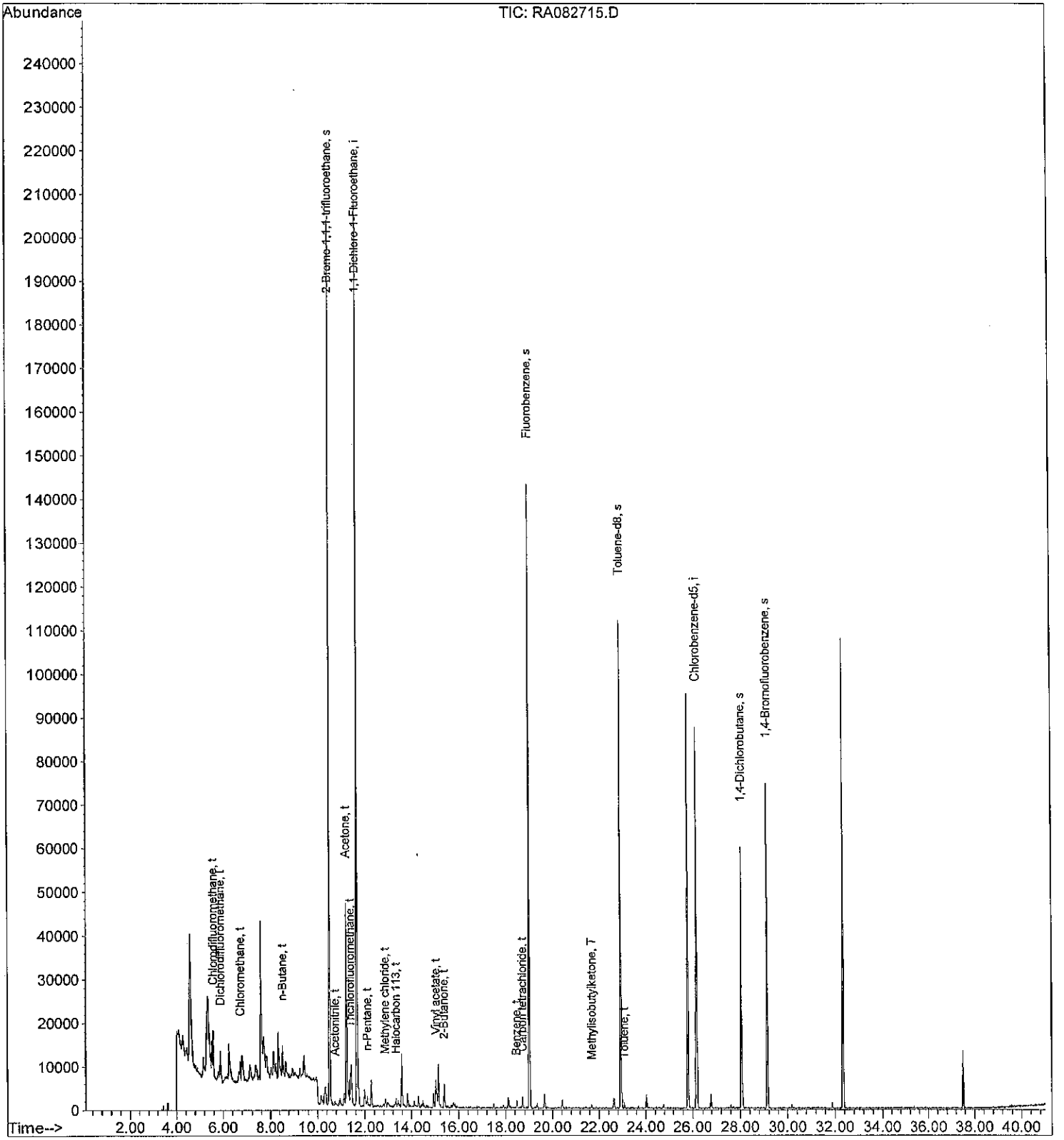
Target Compounds						Qvalue
8) Chlorodifluoromethane	5.58	51	12575	0.2352 ppbV	S	96
10) Dichlorodifluoromethane	5.89	85	10467	0.1010 ppbV	S	94
11) Chloromethane	6.73	50	3846	0.1512 ppbV	S	96
18) n-Butane	8.53	43	2147	0.0468 ppbV	S	91
29) Acetonitrile	10.74	41	875m	0.0402 ppbV	S	
32) Trichlorofluoromethane	11.37	101	4874	0.0520 ppbV #	S	67
34) Acetone	11.20	43	98012m	1.8408 ppbV	S	
37) n-Pentane	12.11	43	1652	0.0338 ppbV	S	74
43) Methylene chloride	12.86	49	391	0.0110 ppbV #	S	1
47) Halocarbon 113	13.34	151	735	0.0199 ppbV #	S	100
58) Vinyl acetate	15.03	43	11759m	0.1387 ppbV	S	
62) 2-Butanone	15.39	43	10057	0.1556 ppbV #	S	1
84) Benzene	18.48	78	1800	0.0403 ppbV #	S	75
85) Carbon tetrachloride	18.72	117	1018	0.0199 ppbV #	S	1
105) Methylisobutylketone	21.68	43	782m	0.0179 ppbV	S	
114) Toluene	23.09	91	1194	0.0296 ppbV #	S	1

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082715.D Vial: 1
Acq On : 27 Aug 2011 10:26 pm Operator: KRW
Sample : AUH0046-01,,,,;TCESL Inst : GCMS-R1
Misc : 2.7416,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:35 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082716.D Vial: 1
Acq On : 27 Aug 2011 11:25 pm Operator: KRW
Sample : 11H0392-DUP1,,,,;TCESL Inst : GCMS-R1
Misc : 2.7416,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:37 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8.30.11

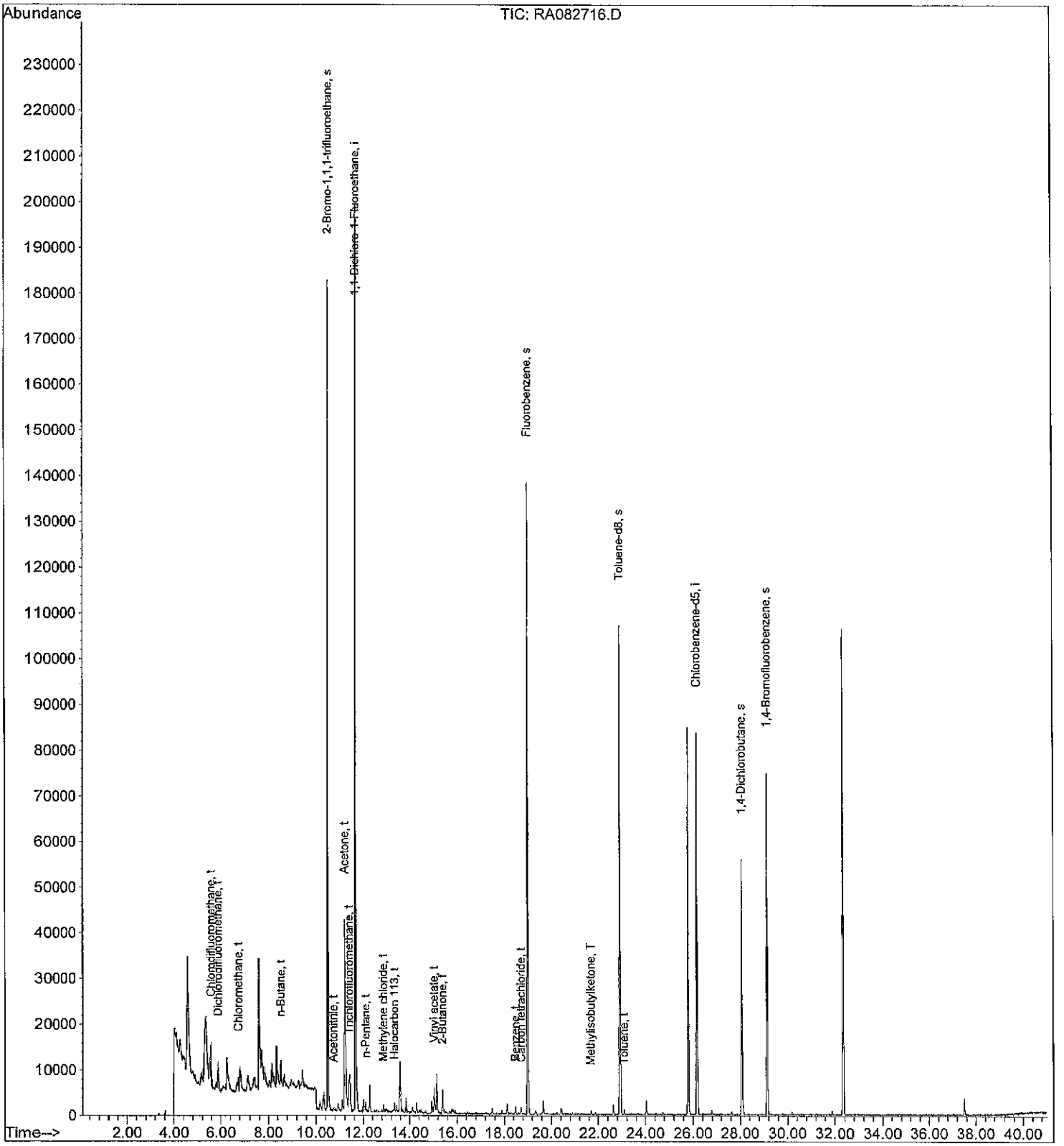
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	191002	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	49799	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	67418	1.7271 ppbV	0.03
Spiked Amount 2.000			Recovery	= 86.50%	
65) Fluorobenzene	19.01	96	120009	1.2919 ppbV	0.02
Spiked Amount 2.000			Recovery	= 64.50%	
113) Toluene-d8	22.92	98	84960	1.9444 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.00%	
115) 1,4-Dichlorobutane	28.06	90	7076	2.0067 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
141) 1,4-Bromofluorobenzene	29.14	95	34322	2.0965 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	

Target Compounds					Qvalue
8) Chlorodifluoromethane	5.59	51	10958	0.2177 ppbV	S 95
10) Dichlorodifluoromethane	5.90	85	8597	0.0882 ppbV	S 94
11) Chloromethane	6.74	50	2896	0.1210 ppbV	S 96
18) n-Butane	8.53	43	1563	0.0362 ppbV	S 70
29) Acetonitrile	10.75	41	621m	0.0303 ppbV	S
32) Trichlorofluoromethane	11.38	101	4572	0.0518 ppbV #	S 86
34) Acetone	11.19	43	87017m	1.7361 ppbV	S
37) n-Pentane	12.10	43	1166	0.0253 ppbV	S 77
43) Methylene chloride	12.86	49	366	0.0109 ppbV #	S 1
47) Halocarbon 113	13.34	151	584	0.0168 ppbV #	S 100
58) Vinyl acetate	15.03	43	11017	0.1381 ppbV #	S 43
62) 2-Butanone	15.39	43	8891	0.1461 ppbV #	S 1
84) Benzene	18.49	78	1396	0.0336 ppbV	S 60
85) Carbon tetrachloride	18.72	117	969	0.0204 ppbV #	S 1
105) Methylisobutylketone	21.67	43	886	0.0218 ppbV #	S 1
114) Toluene	23.09	91	1107	0.0295 ppbV #	S 1

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082716.D Vial: 1
Acq On : 27 Aug 2011 11:25 pm Operator: KRW
Sample : 11H0392-DUP1,,,,;TCESL Inst : GCMS-R1
Misc : 2.7416,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:37 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082717.D Vial: 1
Acq On : 28 Aug 2011 12:24 am Operator: KRW
Sample : AUH0046-02,,,,;TCESL Inst : GCMS-R1
Misc : 2.7184,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:40 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

AM 9-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	191834	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	48326	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	66278	1.6905 ppbV	0.03
Spiked Amount 2.000			Recovery	= 84.50%	
65) Fluorobenzene	19.01	96	118778	1.2731 ppbV	0.02
Spiked Amount 2.000			Recovery	= 63.50%	
113) Toluene-d8	22.93	98	82771	1.9520 ppbV	0.01
Spiked Amount 2.000			Recovery	= 97.50%	
115) 1,4-Dichlorobutane	28.06	90	6695	1.9565 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	
141) 1,4-Bromofluorobenzene	29.13	95	34802	2.1906 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.50%	

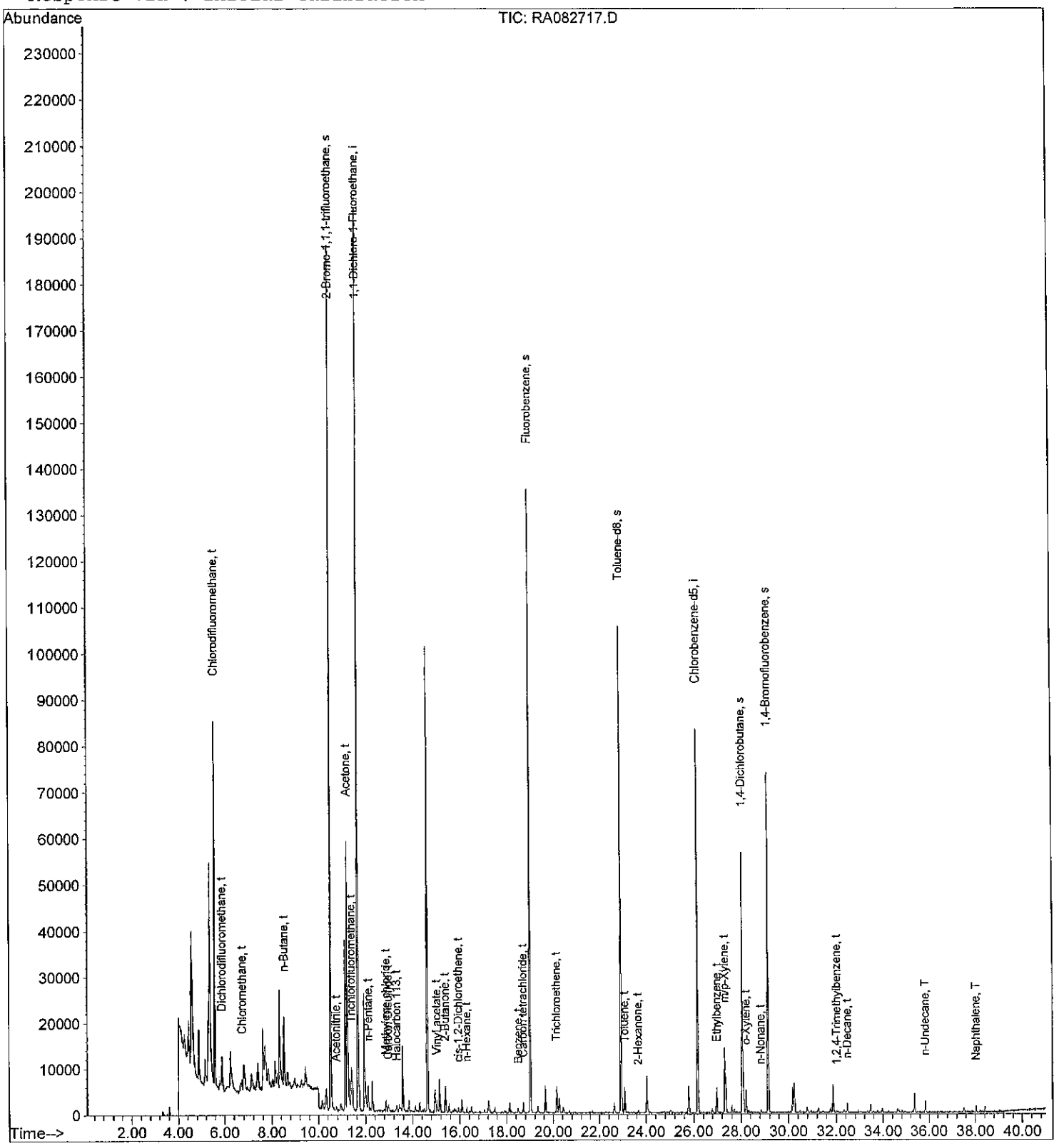
Target Compounds						Qvalue
8) Chlorodifluoromethane	5.57	51	89338	1.7672 ppbV	S	95
10) Dichlorodifluoromethane	5.89	85	10385	0.1060 ppbV	S	98
11) Chloromethane	6.73	50	2282	0.0949 ppbV	S	94
18) n-Butane	8.53	43	8365	0.1928 ppbV	S	82
29) Acetonitrile	10.74	41	640m	0.0311 ppbV	S	
32) Trichlorofluoromethane	11.37	101	6399	0.0722 ppbV #	S	68
34) Acetone	11.18	43	110089m	2.1869 ppbV	S	
37) n-Pentane	12.11	43	3685	0.0797 ppbV	S	81
43) Methylene chloride	12.87	49	961	0.0285 ppbV #	S	1
45) Carbon Disulfide	12.95	76	2030	0.0263 ppbV	S	78
47) Halocarbon 113	13.33	151	554m	0.0158 ppbV	S	
58) Vinyl acetate	15.03	43	5073m	0.0633 ppbV	S	
62) 2-Butanone	15.38	43	9918	0.1623 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.95	61	874	0.0194 ppbV #	S	1
71) n-Hexane	16.30	57	454	0.0098 ppbV #	S	1
84) Benzene	18.49	78	897m	0.0222 ppbV	S	
85) Carbon tetrachloride	18.71	117	796	0.0172 ppbV #	S	1
94) Trichloroethene	20.14	130	1652	0.0984 ppbV #	S	1
114) Toluene	23.09	91	4996	0.1371 ppbV #	S	1
116) 2-Hexanone	23.66	43	690	0.0267 ppbV #	S	10
129) Ethylbenzene	26.98	91	5125	0.1393 ppbV	S	91
130) m/p-Xylene	27.32	91	16980	0.5317 ppbV	S	91
136) o-Xylene	28.23	91	4320	0.1316 ppbV	S	87
140) n-Nonane	28.84	43	266	0.0086 ppbV #	S	49
153) 1,2,4-Trimethylbenzene	32.02	105	428	0.0115 ppbV #	S	1
158) n-Decane	32.47	57	832	0.0224 ppbV #	S	65
171) n-Undecane	35.84	57	1164	0.0226 ppbV #	S	73
173) Naphthalene	38.04	128	1767	0.0311 ppbV	S	73

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082717.D Vial: 1
Acq On : 28 Aug 2011 12:24 am Operator: KRW
Sample : AUH0046-02,,,,;TCESL Inst : GCMS-R1
Misc : 2.7184,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:40 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082718.D Vial: 1
Acq On : 28 Aug 2011 1:23 am Operator: KRW
Sample : 11H0392-DUP2,,,,;TCESL Inst : GCMS-R1
Misc : 2.7184,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:42 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

AM 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	189356	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	49969	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	66165	1.7097 ppbV	0.03
Spiked Amount 2.000			Recovery	= 85.50%	
65) Fluorobenzene	19.01	96	122151	1.3264 ppbV	0.02
Spiked Amount 2.000			Recovery	= 66.50%	
113) Toluene-d8	22.92	98	84475	1.9267 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.50%	
115) 1,4-Dichlorobutane	28.06	90	7444	2.1039 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	
141) 1,4-Bromofluorobenzene	29.13	95	36336	2.2120 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.50%	

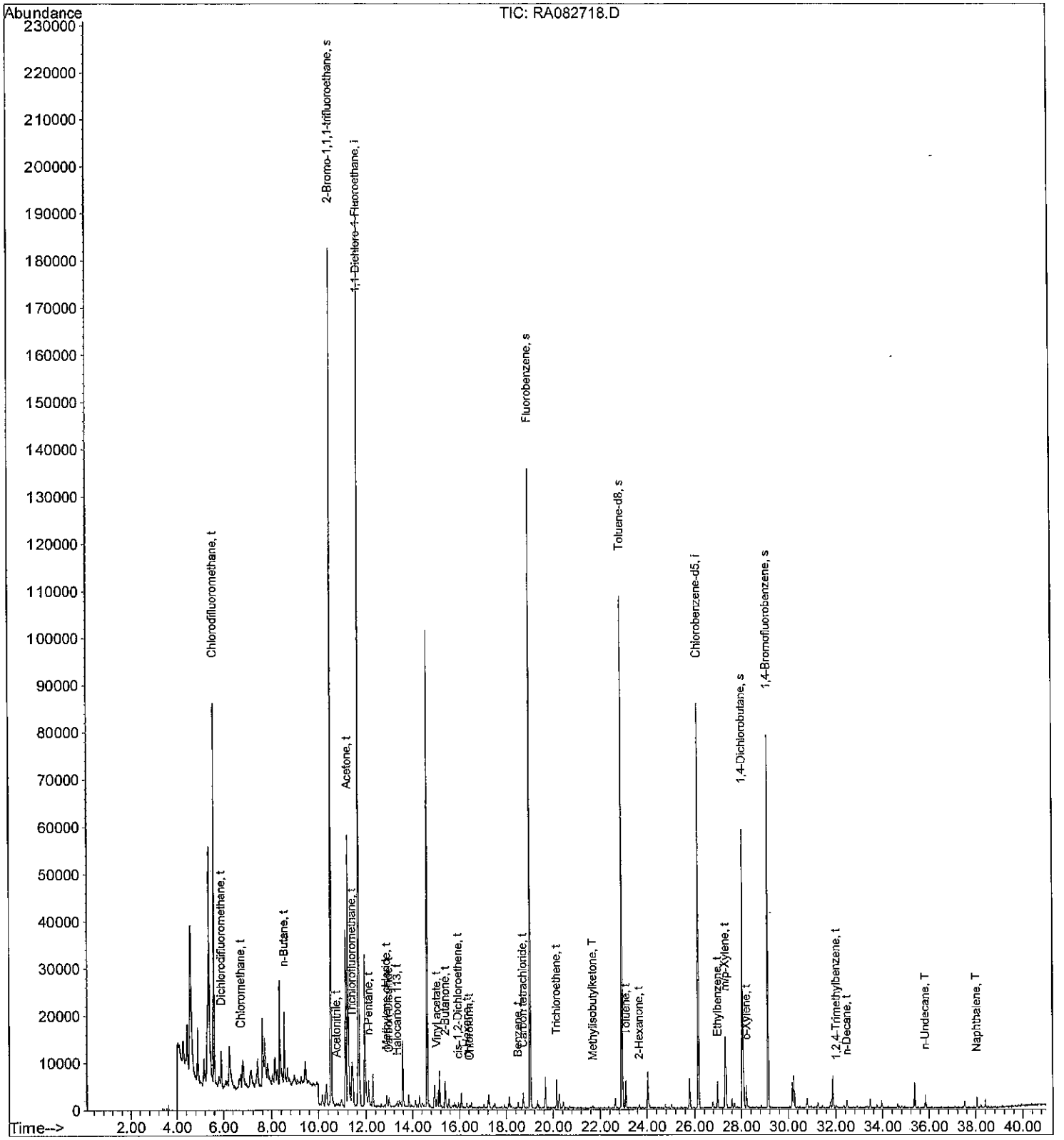
Target Compounds						Qvalue
8) Chlorodifluoromethane	5.58	51	90041	1.8044 ppbV	S	92
10) Dichlorodifluoromethane	5.90	85	10594	0.1096 ppbV	S	96
11) Chloromethane	6.73	50	2412	0.1016 ppbV	S	97
18) n-Butane	8.53	43	8531	0.1992 ppbV	S	80
29) Acetonitrile	10.73	41	626m	0.0308 ppbV	S	
32) Trichlorofluoromethane	11.37	101	6249	0.0714 ppbV #	S	69
34) Acetone	11.18	43	111189m	2.2377 ppbV	S	
37) n-Pentane	12.11	43	3776	0.0828 ppbV	S	85
43) Methylene chloride	12.87	49	1004	0.0302 ppbV #	S	1
45) Carbon Disulfide	12.96	76	1840	0.0242 ppbV	S	85
47) Halocarbon 113	13.33	151	452	0.0131 ppbV #	S	100
58) Vinyl acetate	15.03	43	5333m	0.0674 ppbV	S	
62) 2-Butanone	15.39	43	10022	0.1661 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.94	61	873	0.0196 ppbV #	S	1
71) n-Hexane	16.32	57	456	0.0099 ppbV #	S	1
72) Chloroform	16.42	83	280	0.0039 ppbV #	S	1
84) Benzene	18.49	78	1060	0.0254 ppbV	S	55
85) Carbon tetrachloride	18.72	117	932	0.0195 ppbV #	S	23
94) Trichloroethene	20.15	130	1739	0.1002 ppbV #	S	1
105) Methylisobutylketone	21.68	43	630	0.0155 ppbV #	S	1
114) Toluene	23.10	91	5789	0.1537 ppbV #	S	1
116) 2-Hexanone	23.67	43	567m	0.0212 ppbV	S	
129) Ethylbenzene	26.99	91	5659	0.1487 ppbV	S	90
130) m/p-Xylene	27.31	91	18251	0.5527 ppbV	S	93
136) o-Xylene	28.22	91	4249	0.1252 ppbV	S	79
153) 1,2,4-Trimethylbenzene	32.02	105	474	0.0123 ppbV #	S	1
158) n-Decane	32.48	57	759m	0.0197 ppbV	S	
171) n-Undecane	35.84	57	1359	0.0256 ppbV #	S	65
173) Naphthalene	38.03	128	1985	0.0338 ppbV	S	94

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082718.D Vial: 1
Acq On : 28 Aug 2011 1:23 am Operator: KRW
Sample : 11H0392-DUP2,,,,;TCESL Inst : GCMS-R1
Misc : 2.7184,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:42 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082719.D Vial: 1
Acq On : 28 Aug 2011 2:22 am Operator: KRW
Sample : AUH0046-03,,,,;TCESL Inst : GCMS-R1
Misc : 2.6731,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:56 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

CDFM

8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	189818	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	54068	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	64950	1.6742 ppbV	0.03
Spiked Amount 2.000			Recovery	= 83.50%	
65) Fluorobenzene	19.01	96	127179	1.3777 ppbV	0.02
Spiked Amount 2.000			Recovery	= 69.00%	
113) Toluene-d8	22.93	98	91719	1.9333 ppbV	0.01
Spiked Amount 2.000			Recovery	= 96.50%	
115) 1,4-Dichlorobutane	28.06	90	8165	2.1327 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	
141) 1,4-Bromofluorobenzene	29.13	95	38773	2.1814 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.00%	

Target Compounds					Qvalue
8) Chlorodifluoromethane	5.55	51	2957203	59.1187 ppbV	S 96
10) Dichlorodifluoromethane	5.90	85	11779	0.1215 ppbV	S 98
11) Chloromethane	6.74	50	2423m	0.1018 ppbV	S
15) Vinyl chloride	7.83	62	1188	0.0439 ppbV	S 91
18) n-Butane	8.53	43	29518	0.6874 ppbV	S 86
29) Acetonitrile	10.72	41	713	0.0350 ppbV	S 61
32) Trichlorofluoromethane	11.37	101	22235	0.2536 ppbV #	S 75
34) Acetone	11.17	43	218504	4.3867 ppbV #	S 1
37) n-Pentane	12.11	43	18203	0.3980 ppbV	S 88
43) Methylene chloride	12.86	49	10040	0.3013 ppbV #	S 1
45) Carbon Disulfide	12.95	76	1414	0.0185 ppbV	S 78
47) Halocarbon 113	13.34	151	448	0.0130 ppbV #	S 100
50) trans-1,2-Dichloroethene	14.37	61	551	0.0131 ppbV #	S 1
58) Vinyl acetate	15.03	43	5837m	0.0736 ppbV	S
62) 2-Butanone	15.38	43	17716	0.2930 ppbV #	S 1
68) cis-1,2-Dichloroethene	15.95	61	30198	0.6757 ppbV #	S 1
71) n-Hexane	16.31	57	6246	0.1358 ppbV #	S 1
72) Chloroform	16.42	83	3372	0.0470 ppbV #	S 1
84) Benzene	18.48	78	5937	0.1316 ppbV	S 75
85) Carbon tetrachloride	18.71	117	1135	0.0220 ppbV #	S 1
87) Cyclohexane	18.89	56	3018	0.0962 ppbV #	S 1
94) Trichloroethene	20.15	130	5451	0.2902 ppbV #	S 1
100) n-Heptane	20.70	71	1795	0.1001 ppbV #	S 1
105) Methylisobutylketone	21.68	43	1598	0.0363 ppbV #	S 1
114) Toluene	23.09	91	33141	0.8130 ppbV #	S 1
116) 2-Hexanone	23.66	43	983m	0.0340 ppbV	S
125) n-Octane	24.91	43	1879	0.0462 ppbV #	S 41
126) Tetrachloroethene	25.03	164	1189m	0.0788 ppbV	S
129) Ethylbenzene	26.98	91	5605	0.1361 ppbV	S 90
130) m/p-Xylene	27.33	91	18427	0.5157 ppbV	S 86
134) Styrene	28.04	104	1037	0.0614 ppbV #	S 14
136) o-Xylene	28.22	91	6429	0.1750 ppbV	S 83
140) n-Nonane	28.84	43	1305	0.0379 ppbV #	S 57
150) 1,3,5-Trimethylbenzene	31.09	105	773	0.0168 ppbV	S 85
153) 1,2,4-Trimethylbenzene	32.03	105	2979	0.0717 ppbV #	S 1

0.8130

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082719.D Vial: 1
Acq On : 28 Aug 2011 2:22 am Operator: KRW
Sample : AUH0046-03,,,,;TCESL Inst : GCMS-R1
Misc : 2.6731,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:56 19111 Quant Results File: RA110824.RES

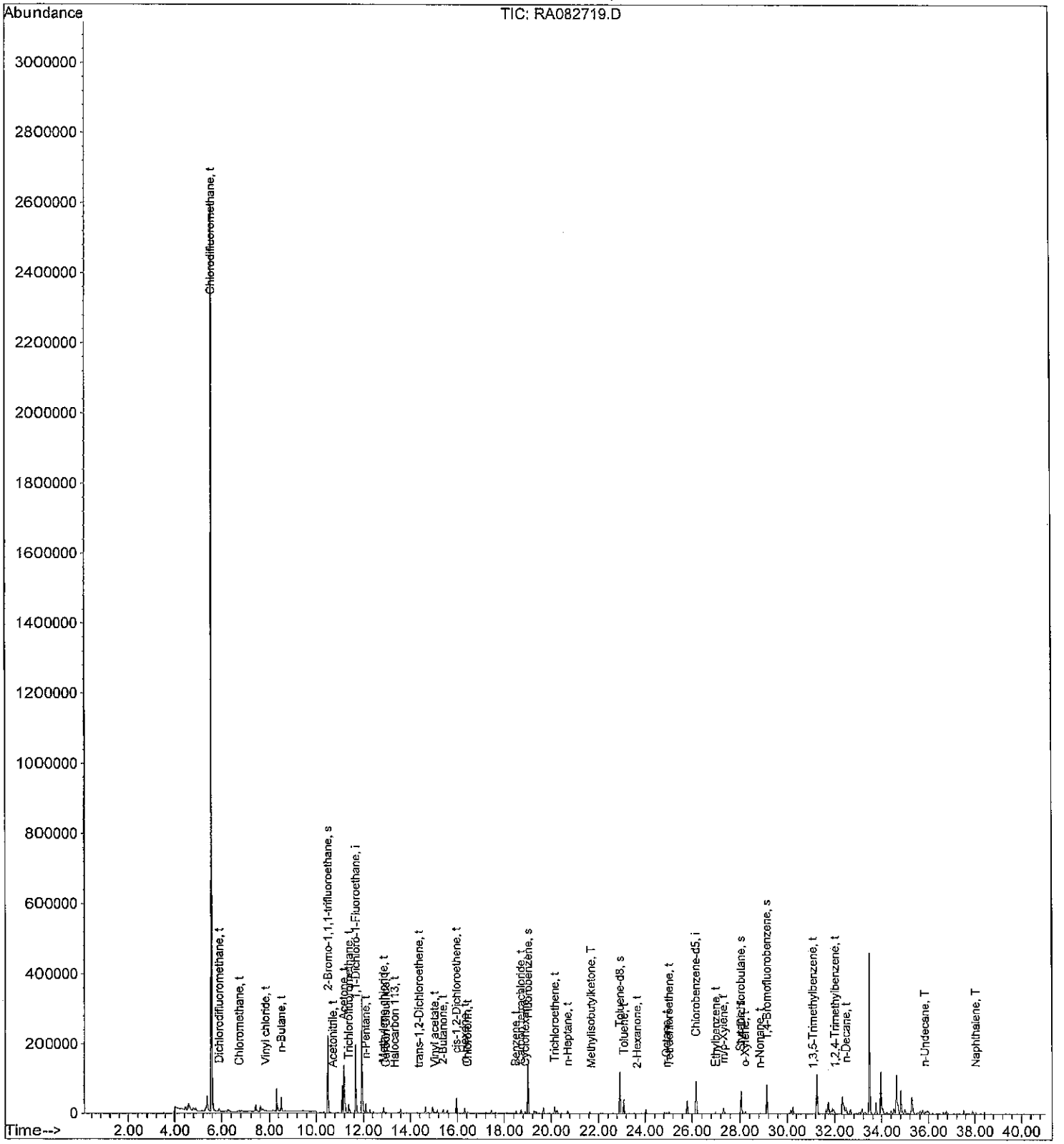
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
158) n-Decane	32.48	57	10776	0.2591 ppbV	S	75
171) n-Undecane	35.84	57	3499	0.0608 ppbV	S	73
173) Naphthalene	38.04	128	3163	0.0498 ppbV	S	94

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082719.D Vial: 1
Acq On : 28 Aug 2011 2:22 am Operator: KRW
Sample : AUH0046-03,,,,;TCESL Inst : GCMS-R1
Misc : 2.6731,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 10:56 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082720.D Vial: 1
Acq On : 28 Aug 2011 3:21 am Operator: KRW
Sample : AUH0046-04,,,,;TCESL Inst : GCMS-R1
Misc : 2.6699,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 11:00 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

AW 8-30-11

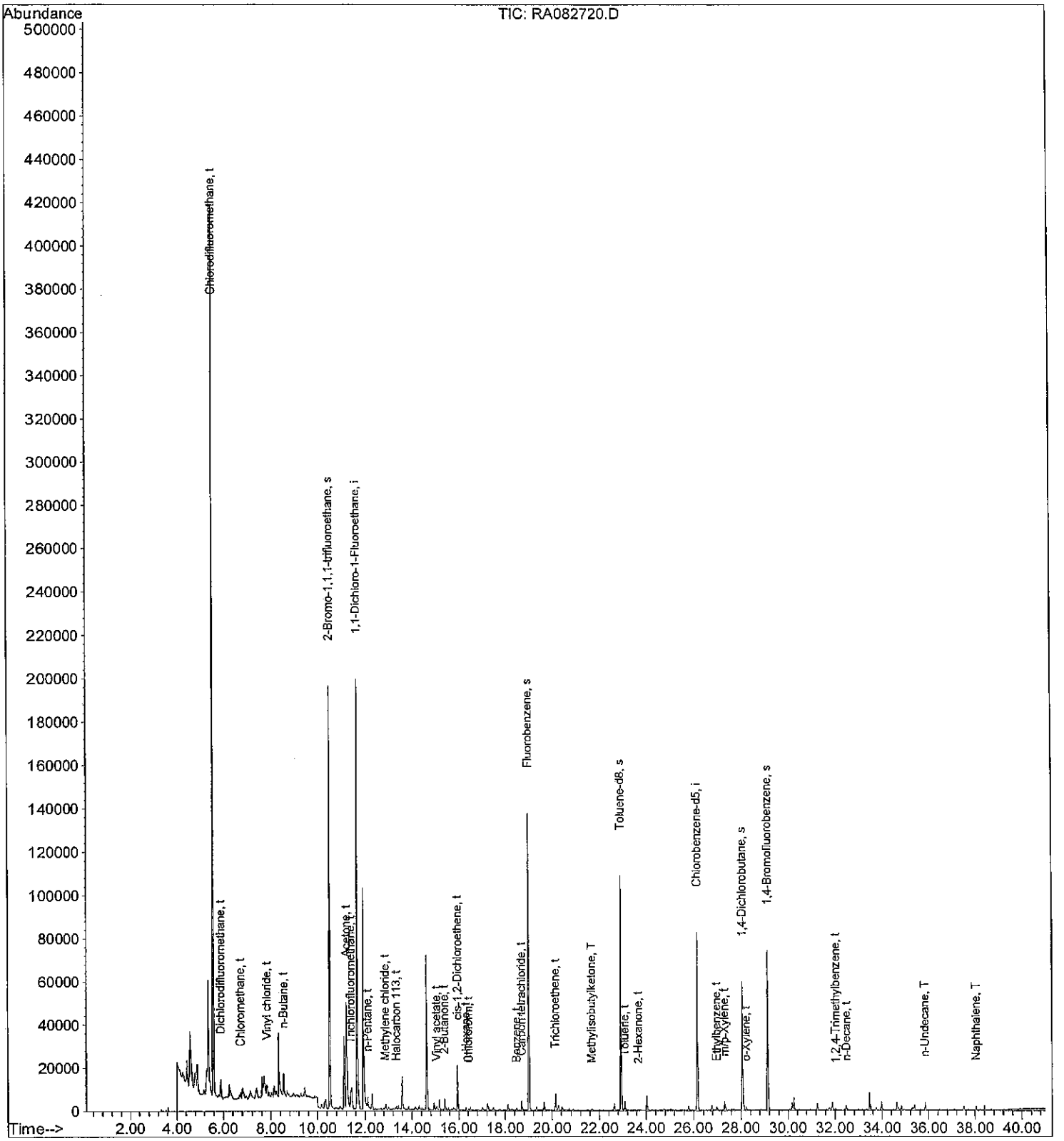
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	194189	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	48302	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.52	83	68687	1.7307 ppbV	0.03
Spiked Amount 2.000			Recovery	= 86.50%	
65) Fluorobenzene	19.01	96	122812	1.3004 ppbV	0.02
Spiked Amount 2.000			Recovery	= 65.00%	
113) Toluene-d8	22.93	98	84266	1.9882 ppbV	0.01
Spiked Amount 2.000			Recovery	= 99.50%	
115) 1,4-Dichlorobutane	28.05	90	7038	2.0578 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
141) 1,4-Bromofluorobenzene	29.13	95	35128	2.2122 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.56	51	452716	8.8467 ppbV	S	95
10) Dichlorodifluoromethane	5.89	85	12370	0.1248 ppbV	S	92
11) Chloromethane	6.74	50	2380m	0.0978 ppbV	S	
15) Vinyl chloride	7.83	62	2127	0.0768 ppbV	S	93
18) n-Butane	8.54	43	4794m	0.1091 ppbV	S	
32) Trichlorofluoromethane	11.38	101	5924m	0.0660 ppbV	S	
34) Acetone	11.19	43	95940m	1.8828 ppbV	S	
37) n-Pentane	12.11	43	3603	0.0770 ppbV	S	84
43) Methylene chloride	12.86	49	751	0.0220 ppbV #	S	1
47) Halocarbon 113	13.32	151	455m	0.0129 ppbV	S	
58) Vinyl acetate	15.03	43	3079m	0.0380 ppbV	S	
62) 2-Butanone	15.38	43	8685	0.1404 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.95	61	14123	0.3089 ppbV #	S	1
71) n-Hexane	16.31	57	435	0.0092 ppbV #	S	1
72) Chloroform	16.42	83	292	0.0040 ppbV #	S	1
84) Benzene	18.49	78	929	0.0231 ppbV	S	72
85) Carbon tetrachloride	18.71	117	962	0.0208 ppbV #	S	1
94) Trichloroethene	20.14	130	2424	0.1444 ppbV #	S	1
105) Methylisobutylketone	21.68	43	790	0.0201 ppbV #	S	1
114) Toluene	23.09	91	3994	0.1097 ppbV #	S	1
116) 2-Hexanone	23.67	43	414m	0.0160 ppbV	S	
129) Ethylbenzene	26.98	91	1957m	0.0532 ppbV	S	
130) m/p-Xylene	27.31	91	4827m	0.1512 ppbV	S	
136) o-Xylene	28.21	91	1493	0.0455 ppbV	S	79
153) 1,2,4-Trimethylbenzene	32.03	105	474	0.0128 ppbV #	S	1
158) n-Decane	32.48	57	1046m	0.0282 ppbV	S	
171) n-Undecane	35.83	57	1460	0.0284 ppbV	S	73
173) Naphthalene	38.04	128	1798	0.0317 ppbV	S	77

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082720.D Vial: 1
Acq On : 28 Aug 2011 3:21 am Operator: KRW
Sample : AUH0046-04,,,,;TCESL Inst : GCMS-R1
Misc : 2.6699,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 11:00 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082721.D Vial: 1
Acq On : 28 Aug 2011 4:20 am Operator: KRW
Sample : AUH0046-05,,,,;TCESL Inst : GCMS-R1
Misc : 2.7011,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 13:09 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

8.30-11

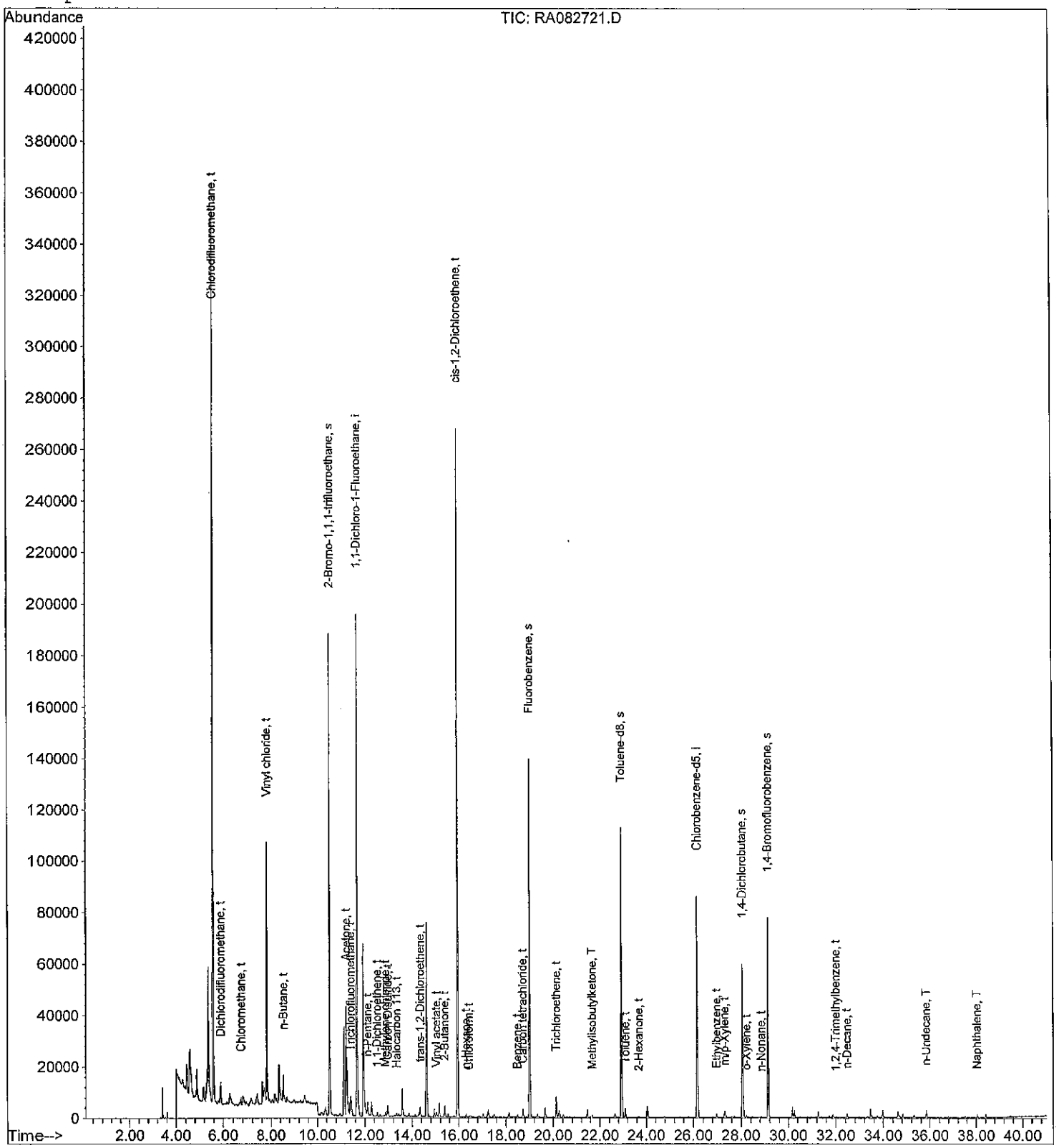
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	190990	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	50135	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	65864	1.6874 ppbV	0.03
Spiked Amount 2.000			Recovery	= 84.50%	
65) Fluorobenzene	19.01	96	121971	1.3131 ppbV	0.02
Spiked Amount 2.000			Recovery	= 65.50%	
113) Toluene-d8	22.92	98	86763	1.9723 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.50%	
115) 1,4-Dichlorobutane	28.05	90	7243	2.0403 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.00%	
141) 1,4-Bromofluorobenzene	29.14	95	35947	2.1811 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.57	51	384254	7.6346 ppbV	S	94
10) Dichlorodifluoromethane	5.90	85	11580	0.1188 ppbV	S	93
11) Chloromethane	6.74	50	2250	0.0940 ppbV	S	91
15) Vinyl chloride	7.82	62	93217	3.4209 ppbV	S	98
18) n-Butane	8.54	43	5591	0.1294 ppbV	S	74
32) Trichlorofluoromethane	11.38	101	5567	0.0631 ppbV #	S	75
34) Acetone	11.19	43	84841m	1.6928 ppbV	S	
37) n-Pentane	12.11	43	3570	0.0776 ppbV	S	87
41) 1,1-Dichloroethene	12.52	61	903	0.0181 ppbV #	S	5
43) Methylene chloride	12.86	49	681	0.0203 ppbV #	S	1
45) Carbon Disulfide	12.96	76	5706	0.0744 ppbV	S	99
47) Halocarbon 113	13.34	151	349m	0.0100 ppbV	S	
50) trans-1,2-Dichloroethene	14.36	61	2605	0.0617 ppbV #	S	1
58) Vinyl acetate	15.04	43	3279m	0.0411 ppbV	S	
62) 2-Butanone	15.39	43	7835	0.1288 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.94	61	188290	4.1875 ppbV #	S	1
71) n-Hexane	16.31	57	367	0.0079 ppbV #	S	1
72) Chloroform	16.43	83	155	0.0021 ppbV #	S	1
84) Benzene	18.48	78	865	0.0207 ppbV	S	57
85) Carbon tetrachloride	18.71	117	983	0.0205 ppbV #	S	1
94) Trichloroethene	20.14	130	2652	0.1522 ppbV #	S	1
105) Methylisobutylketone	21.67	43	661	0.0162 ppbV #	S	1
114) Toluene	23.09	91	3350	0.0886 ppbV #	S	1
116) 2-Hexanone	23.66	43	373	0.0139 ppbV #	S	1
129) Ethylbenzene	26.98	91	1559	0.0408 ppbV	S	89
130) m/p-Xylene	27.32	91	3889	0.1174 ppbV	S	88
136) o-Xylene	28.22	91	1213	0.0356 ppbV	S	81
140) n-Nonane	28.85	43	151	0.0047 ppbV #	S	7
153) 1,2,4-Trimethylbenzene	32.02	105	325	0.0084 ppbV #	S	1
158) n-Decane	32.47	57	793	0.0206 ppbV	S	74
171) n-Undecane	35.84	57	1195	0.0224 ppbV #	S	67
173) Naphthalene	38.04	128	1318	0.0224 ppbV	S	76

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082721.D Vial: 1
Acq On : 28 Aug 2011 4:20 am Operator: KRW
Sample : AUH0046-05,,,,;TCESL Inst : GCMS-R1
Misc : 2.7011,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 13:09 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082722.D Vial: 1
Acq On : 28 Aug 2011 5:19 am Operator: KRW
Sample : AUH0046-06,,,,;TCESL Inst : GCMS-R1
Misc : 2.7389,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 13:11 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	189294	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	54111	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	65862	1.7025 ppbV	0.03
Spiked Amount 2.000			Recovery	= 85.00%	
65) Fluorobenzene	19.01	96	122948	1.3355 ppbV	0.02
Spiked Amount 2.000			Recovery	= 67.00%	
113) Toluene-d8	22.93	98	86992	1.8322 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.50%	
115) 1,4-Dichlorobutane	28.05	90	7714	2.0133 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
141) 1,4-Bromofluorobenzene	29.14	95	36984	2.0791 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	

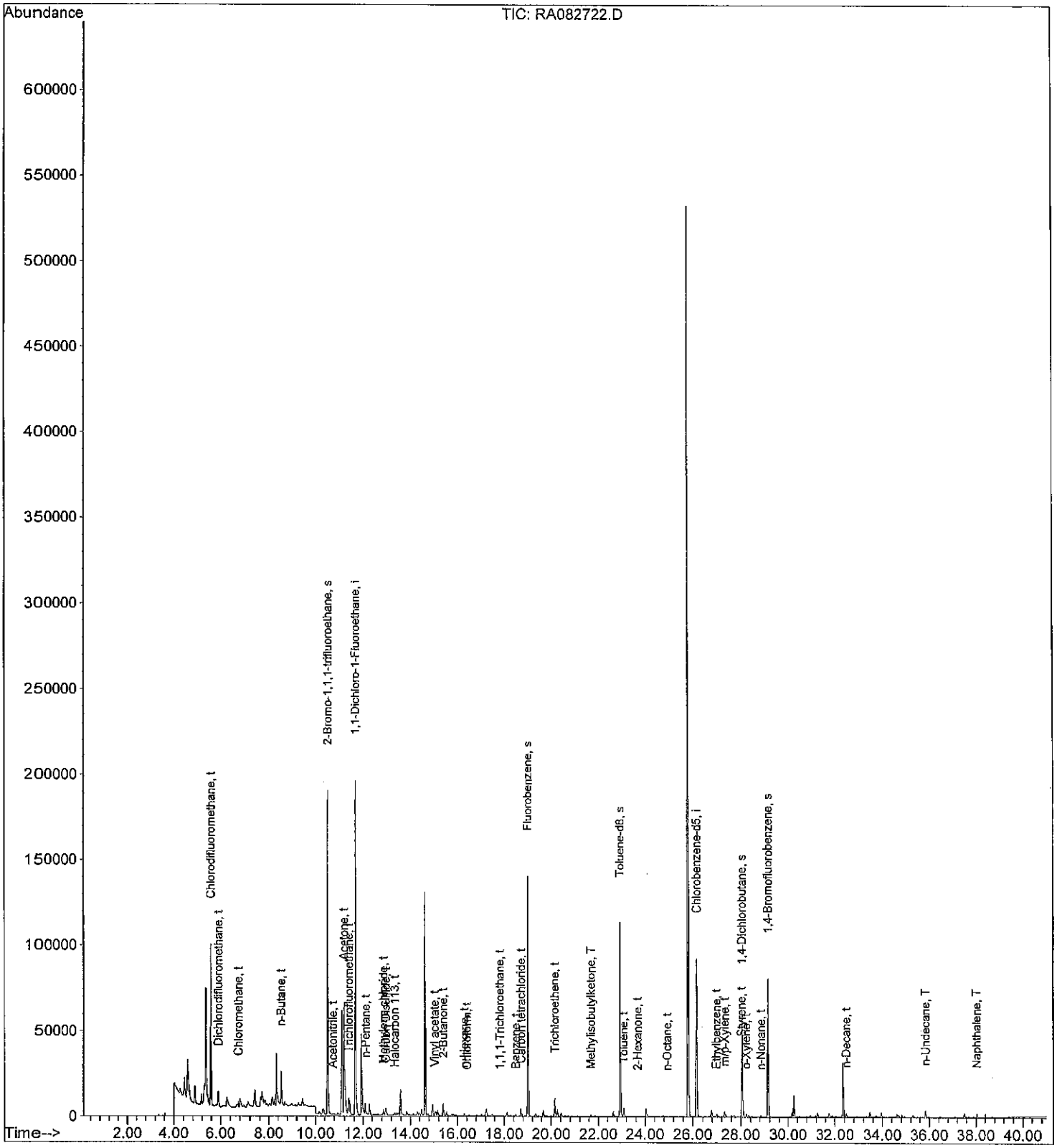
Target Compounds						Qvalue
8) Chlorodifluoromethane	5.58	51	104490	2.0947 ppbV	S	93
10) Dichlorodifluoromethane	5.90	85	12060	0.1248 ppbV	S	93
11) Chloromethane	6.74	50	2849	0.1201 ppbV	S	94
18) n-Butane	8.53	43	12557	0.2932 ppbV	S	78
29) Acetonitrile	10.74	41	455	0.0224 ppbV	S	74
32) Trichlorofluoromethane	11.38	101	7155	0.0818 ppbV #	S	66
34) Acetone	11.18	43	117326m	2.3620 ppbV	S	
37) n-Pentane	12.11	43	3986	0.0874 ppbV	S	88
43) Methylene chloride	12.86	49	1849	0.0556 ppbV #	S	1
45) Carbon Disulfide	12.96	76	3967	0.0522 ppbV	S	94
47) Halocarbon 113	13.33	151	627	0.0182 ppbV #	S	100
58) Vinyl acetate	15.04	43	3639m	0.0460 ppbV	S	
62) 2-Butanone	15.39	43	12234	0.2029 ppbV #	S	1
71) n-Hexane	16.30	57	571	0.0124 ppbV #	S	1
72) Chloroform	16.41	83	234	0.0033 ppbV #	S	1
81) 1,1,1-Trichloroethane	17.82	97	269	0.0034 ppbV #	S	1
84) Benzene	18.49	78	906	0.0201 ppbV #	S	55
85) Carbon tetrachloride	18.72	117	1118	0.0216 ppbV #	S	1
94) Trichloroethene	20.15	130	3178	0.1690 ppbV #	S	1
105) Methylisobutylketone	21.68	43	926	0.0210 ppbV #	S	1
114) Toluene	23.09	91	4249	0.1041 ppbV #	S	1
116) 2-Hexanone	23.67	43	563	0.0195 ppbV #	S	10
125) n-Octane	24.93	43	253	0.0062 ppbV #	S	2
129) Ethylbenzene	26.98	91	1818	0.0441 ppbV	S	89
130) m/p-Xylene	27.32	91	3952	0.1105 ppbV	S	88
134) Styrene	28.02	104	151	0.0089 ppbV #	S	1
136) o-Xylene	28.22	91	1207	0.0328 ppbV	S	82
140) n-Nonane	28.84	43	377	0.0109 ppbV #	S	42
158) n-Decane	32.47	57	1081	0.0260 ppbV	S	83
171) n-Undecane	35.85	57	1713	0.0298 ppbV #	S	51
173) Naphthalene	38.04	128	2338	0.0368 ppbV	S	87

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082722.D Vial: 1
Acq On : 28 Aug 2011 5:19 am Operator: KRW
Sample : AUH0046-06,,,,;TCESL Inst : GCMS-R1
Misc : 2.7389,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 13:11 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082723.D Vial: 1
Acq On : 28 Aug 2011 6:17 am Operator: KRW
Sample : AUH0046-07,,,,;TCESL Inst : GCMS-R1
Misc : 2.6042,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 13:32 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

8-30-11

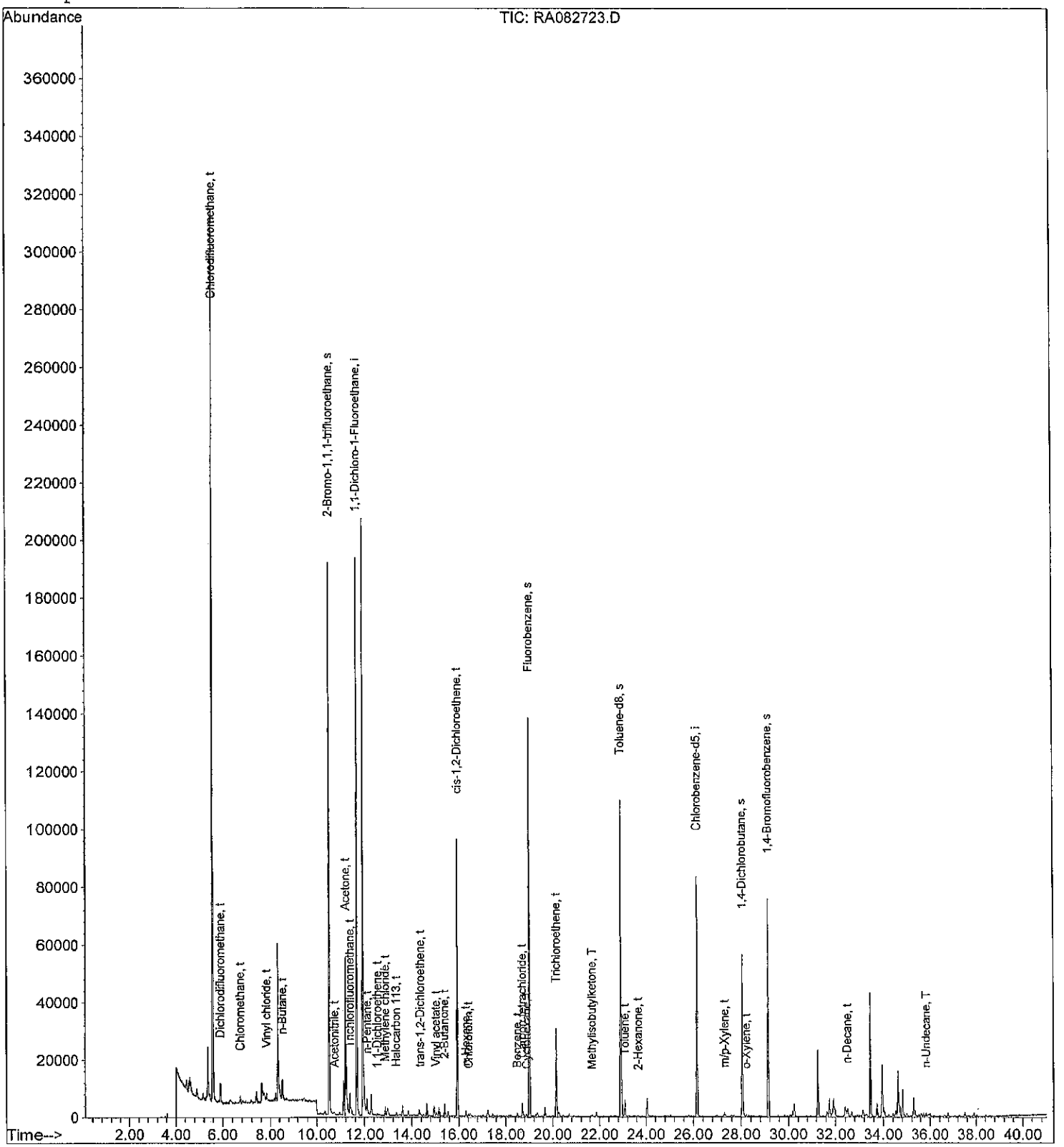
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	190198	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	48127	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.52	83	64647	1.6631 ppbV	0.03
Spiked Amount 2.000			Recovery	= 83.00%	
65) Fluorobenzene	19.01	96	121673	1.3154 ppbV	0.02
Spiked Amount 2.000			Recovery	= 66.00%	
113) Toluene-d8	22.93	98	84120	1.9920 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
115) 1,4-Dichlorobutane	28.06	90	7085	2.0791 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	
141) 1,4-Bromofluorobenzene	29.14	95	34101	2.1554 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.00%	

Target Compounds					Qvalue
8) Chlorodifluoromethane	5.57	51	336744	6.7185 ppbV	S 93
10) Dichlorodifluoromethane	5.89	85	10350	0.1066 ppbV	S 93
11) Chloromethane	6.74	50	2174	0.0912 ppbV	S 96
15) Vinyl chloride	7.83	62	2332	0.0859 ppbV	S 87
18) n-Butane	8.54	43	5275	0.1226 ppbV	S 87
29) Acetonitrile	10.74	41	381	0.0187 ppbV	S 66
32) Trichlorofluoromethane	11.38	101	6819	0.0776 ppbV #	S 72
34) Acetone	11.19	43	102098m	2.0456 ppbV	S
37) n-Pentane	12.11	43	3571	0.0779 ppbV	S 81
41) 1,1-Dichloroethene	12.53	61	304	0.0061 ppbV #	S 1
43) Methylene chloride	12.86	49	1628	0.0488 ppbV #	S 1
47) Halocarbon 113	13.33	151	361m	0.0104 ppbV	S
50) trans-1,2-Dichloroethene	14.35	61	888	0.0211 ppbV #	S 1
58) Vinyl acetate	15.03	43	3090m	0.0389 ppbV	S
62) 2-Butanone	15.39	43	7062	0.1165 ppbV #	S 1
68) cis-1,2-Dichloroethene	15.95	61	67093	1.4983 ppbV #	S 1
71) n-Hexane	16.30	57	650	0.0141 ppbV #	S 1
72) Chloroform	16.42	83	495	0.0069 ppbV #	S 1
84) Benzene	18.48	78	1095	0.0273 ppbV	S 46
85) Carbon tetrachloride	18.71	117	1005	0.0219 ppbV #	S 32
87) Cyclohexane	18.89	56	373	0.0134 ppbV #	S 1
94) Trichloroethene	20.14	130	9363	0.5599 ppbV #	S 1
105) Methylisobutylketone	21.68	43	631	0.0161 ppbV #	S 1
114) Toluene	23.09	91	4855	0.1338 ppbV #	S 1
116) 2-Hexanone	23.67	43	403	0.0157 ppbV #	S 10
130) m/p-Xylene	27.32	91	2111	0.0664 ppbV	S 77
136) o-Xylene	28.22	91	839	0.0257 ppbV	S 69
158) n-Decane	32.48	57	1695	0.0458 ppbV #	S 72
171) n-Undecane	35.84	57	614	0.0120 ppbV	S 76

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082723.D Vial: 1
Acq On : 28 Aug 2011 6:17 am Operator: KRW
Sample : AUH0046-07,,,,;TCESL Inst : GCMS-R1
Misc : 2.6042,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 13:32 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082724.D Vial: 1
Acq On : 28 Aug 2011 7:16 am Operator: KRW
Sample : AUH0046-09,,,,;TCESL Inst : GCMS-R1
Misc : 2.6731,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 13:37 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

AMB 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	192885	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	47914	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	64234	1.6295 ppbV	0.03
Spiked Amount 2.000			Recovery	= 81.50%	
65) Fluorobenzene	19.01	96	119319	1.2720 ppbV	0.02
Spiked Amount 2.000			Recovery	= 63.50%	
113) Toluene-d8	22.92	98	83941	1.9966 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
115) 1,4-Dichlorobutane	28.06	90	7078	2.0862 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.50%	
141) 1,4-Bromofluorobenzene	29.13	95	34228	2.1730 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.50%	

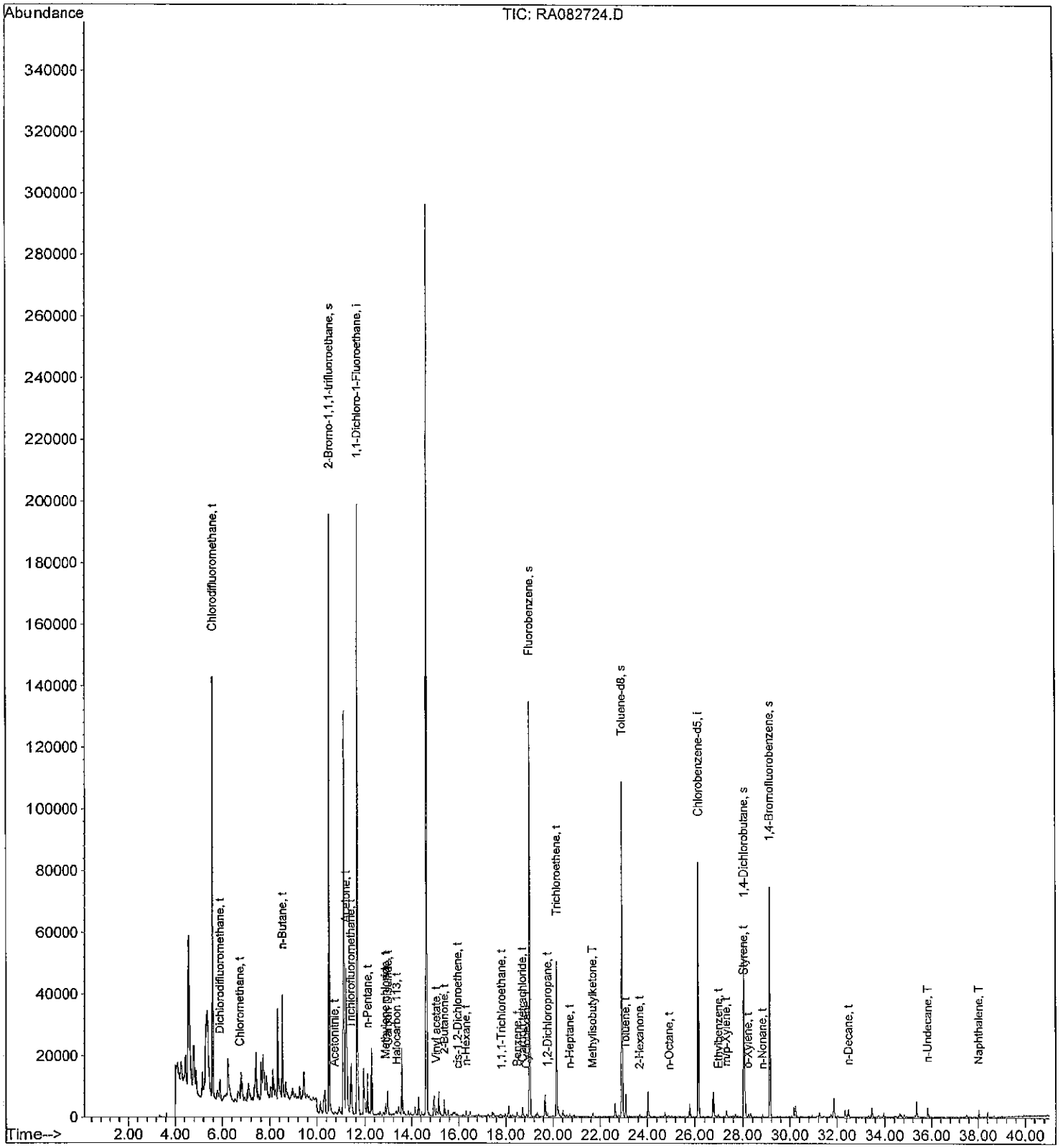
Target Compounds						Qvalue
8) Chlorodifluoromethane	5.57	51	151296	2.9765 ppbV	S	94
10) Dichlorodifluoromethane	5.90	85	9022	0.0916 ppbV	S	92
11) Chloromethane	6.74	50	2487	0.1029 ppbV	S	98
18) n-Butane	8.53	43	20185	0.4626 ppbV	S	89
29) Acetonitrile	10.73	41	339	0.0164 ppbV #	S	38
32) Trichlorofluoromethane	11.38	101	5760	0.0646 ppbV #	S	80
34) Acetone	11.19	43	88666m	1.7518 ppbV	S	
37) n-Pentane	12.11	43	8351	0.1797 ppbV	S	88
43) Methylene chloride	12.86	49	930	0.0275 ppbV #	S	1
45) Carbon Disulfide	12.96	76	11604	0.1497 ppbV	S	97
47) Halocarbon 113	13.33	151	454	0.0129 ppbV #	S	100
58) Vinyl acetate	15.03	43	4499m	0.0558 ppbV	S	
62) 2-Butanone	15.39	43	8923	0.1452 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.95	61	87m	0.0019 ppbV	S	
71) n-Hexane	16.31	57	735	0.0157 ppbV #	S	1
81) 1,1,1-Trichloroethane	17.82	97	384	0.0048 ppbV #	S	1
84) Benzene	18.49	78	1155	0.0289 ppbV #	S	69
85) Carbon tetrachloride	18.72	117	1007	0.0220 ppbV	S	65
87) Cyclohexane	18.87	56	215	0.0077 ppbV #	S	1
92) 1,2-Dichloropropane	19.76	63	259	0.0165 ppbV #	S	1
94) Trichloroethene	20.15	130	15506	0.9314 ppbV #	S	1
100) n-Heptane	20.71	71	80	0.0050 ppbV #	S	1
105) Methylisobutylketone	21.67	43	1419	0.0363 ppbV #	S	1
114) Toluene	23.09	91	6103	0.1689 ppbV #	S	1
116) 2-Hexanone	23.67	43	645	0.0252 ppbV #	S	7
125) n-Octane	24.93	43	188	0.0052 ppbV #	S	18
129) Ethylbenzene	26.98	91	1082	0.0297 ppbV	S	71
130) m/p-Xylene	27.31	91	2635	0.0832 ppbV	S	80
134) Styrene	28.03	104	262	0.0175 ppbV #	S	1
136) o-Xylene	28.21	91	939	0.0288 ppbV	S	81
140) n-Nonane	28.84	43	482	0.0158 ppbV #	S	37
158) n-Decane	32.48	57	1073	0.0291 ppbV	S	72
171) n-Undecane	35.84	57	1498	0.0294 ppbV #	S	56
173) Naphthalene	38.04	128	2302	0.0409 ppbV	S	96

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110827\RA082724.D Vial: 1
Acq On : 28 Aug 2011 7:16 am Operator: KRW
Sample : AUH0046-09,,,,;TCESL Inst : GCMS-R1
Misc : 2.6731,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 13:37 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



INSTRUMENT GCMS-R1 ANALYST / DATE: LW 8/30/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: Batch ID: 11H0421

DAILY CHECK ✓	INSERT: CHANGED (Y / N)	SEPTA: CHANGED (Y / N)	COLUMN: CHANGED (Y / N)	AUTOSAMPLER MAINT. ✓
M. PUMP OIL ✓	TURBO OIL NA ✓	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: R11 0328.u Elect Mult. 1624 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: Entech

GC PROGRAM:

GC Meth. RA 110824.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#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID:

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	Warmup	RA1865	0.5L	7	R083001	0.01043	VR-VSP-34-17
2	11H0421-CCV1	↓	|	7	02	↓	↓
3	-BS1	RA1748	|	11	03	0.07046	VR-VSP-34-18
4	-BSD1	↓	|	11	04	↓	↓
5	-BLK1	RA2153	↓	15	05	1.0	MB
6	Test CCV1	RA1821	0.5L	1	06	0.000096	VR-VSP-34-10
7	AVH0043-02RE1	93289	|	2	07	3.7761	
8	AVH0046-03RE1	5477	|	3	08	7.4750	
9	AVH0184-01	RA2128	↓	4	09	2.5059	

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	AVH0184-02	TC2012	0.5L	5	RA083010	2.5824	
11	03	RA2267	↓	6	11	2.7893	
12	04	TC2038	↓	7	12	2.7960	
13	AVH0073-01	RA2390	0.5L	8	13	2.8293	
14	AVH0240-01	7205	↓	9	14	2.3761	
15	02	7301	↓	10	15	2.2163	
16	03	VJ010	↓	11	16	2.1968	
17	Dup1	↓	↓	11	17	2.1965	
18	04	7309	↓	12	18	2.1809	
19	Dup2	↓	0.5L	12	19	↓	
20	05	RA2282	↓	13	20	2.3394	
21	06	RA2129	↓	14	21	2.0961	
22	07	HC0981	↓	15	22	2.1434	
23	TestCCV1	RA1821	0.5L	1	23	0.000096	VU2-VSP-3410
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

Sequence Name: C:\msdchem\1\sequence\R110830.S
Comment:
Operator: KRW
Data Path: C:\MSDCHEM\1\DATA\R110830\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

8/31/11
KW

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

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

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

Line			Sample Name/Misc Info
1)	Sample	1	RA083001 RA110824 WARMUP
2)	Sample	1	RA083002 RA110824 11H0421-CCV1,,,,0.01043;CCAL
3)	Sample	1	RA083003 RA110824 11H0421-BS1,,,,0.01046;LCS
4)	Sample	1	RA083004 RA110824 11H0421-BSD1,,,,0.01046;LCS
5)	Sample	1	RA083005 RA110824 11H0421-BLK1
6)	Sample	1	RA083006 RA110824 TEST CCV1,,,,0.00009;CCAL
7)	Sample	1	RA083007 RA110824 AUH0043-02RE1
8)	Sample	1	RA083008 RA110824 AUH0046-03RE1
9)	Sample	1	RA083009 RA110824 AUH0184-01
10)	Sample	1	RA083010 RA110824 AUH0184-02
11)	Sample	1	RA083011 RA110824 AUH0184-03
12)	Sample	1	RA083012 RA110824 AUH0184-04
13)	Sample	1	RA083013 RA110824 AUH0073-01RE1
14)	Sample	1	RA083014 RA110824 AUH0240-01
15)	Sample	1	RA083015 RA110824 AUH0240-02
16)	Sample	1	RA083016 RA110824 AUH0240-03
17)	Sample	1	RA083017 RA110824 11H0428-DUP1
18)	Sample	1	RA083018 RA110824 AUH0240-04
19)	Sample	1	RA083019 RA110824 11H0428-DUP2
20)	Sample	1	RA083020 RA110824 AUH0240-05
21)	Sample	1	RA083021 RA110824 AUH0240-06
22)	Sample	1	RA083022 RA110824 AUH0240-07
23)	Sample	1	RA083023 RA110824 TEST CCV1,,,,0.00009;CCAL

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

Sequence Name: C:\Smart\R110830.SEQ
Date: 08-31-2011
Time: 09:52:46
Int. Std Volume: 200 cc

8/31/11
LWS

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
WARMUP	1	7	500	0	C:\Smart\C053011V2.MPT	12:00
11H0421-CCV1	1	7	500	0	C:\Smart\C053011V2.MPT	12:00
11H0421-BS1	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
11H0421-BSD1	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
11H0421-BLK1	1	15	500	0	C:\Smart\C053011V2.MPT	12:00
TESTCCV1	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0043-02RE1	1	2	100	0	C:\Smart\C053011V2.MPT	12:00
AUH0046-03RE1	1	3	100	0	C:\Smart\C053011V2.MPT	12:00
AUH0184-01	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0184-02	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0184-03	1	6	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0184-04	1	7	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0073-01RE1	1	8	100	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-01	1	9	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-02	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-03	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
11H0421-DUP1	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-04	1	12	500	0	C:\Smart\C053011V2.MPT	12:00
11H0421-DUP2	1	12	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-05	1	13	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-06	1	14	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0240-07	1	15	500	0	C:\Smart\C053011V2.MPT	12:00
TESTCCV1	1	1	500	0	C:\Smart\C053011V2.MPT	12:00

BFB

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083002.D Vial: 1
Acq On : 30 Aug 2011 11:52 am Operator: KRW
Sample : 11H0421-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :

8/30/11

Spectrum Information: Average of 29.114 to 29.153 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	29.2	4938	PASS
75	95	30	66	63.0	10654	PASS
95	95	100	100	100.0	16920	PASS
96	95	5	9	6.9	1174	PASS
173	174	0.00	2	0.7	73	PASS
174	95	50	120	66.3	11220	PASS
175	174	4	9	7.4	826	PASS
176	174	93	101	93.9	10531	PASS
177	176	5	9	6.2	653	PASS

RA083002.D RA110824.M Tue Aug 30 12:42:13 2011 KRW

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083002.D Vial: 1
Acq On : 30 Aug 2011 11:52 am Operator: KRW
Sample : 11H0421-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:48 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-31-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	194072	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	76401	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	73691	1.8579 ppbV	0.02
Spiked Amount 2.000			Recovery	= 93.00%	
65) Fluorobenzene	19.00	96	159883	1.6940 ppbV	0.00
Spiked Amount 2.000			Recovery	= 84.50%	
113) Toluene-d8	22.93	98	137447	2.0503 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.50%	
115) 1,4-Dichlorobutane	28.05	90	11868	2.1938 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.50%	
141) 1,4-Bromofluorobenzene	29.14	95	55333	2.2031 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.00%	

Target Compounds					Qvalue
3) Ethylene	3.44	26	28828	4.6829 ppbV	S 94
4) Acetylene	3.54	26	47080	4.0971 ppbV	S 89
5) Ethane	3.62	26	11055	3.2133 ppbV	S 96
7) Propylene	5.21	41	77719	4.4750 ppbV	S 95
9) Propane	5.36	43	35064	4.3956 ppbV	S 91
10) Dichlorodifluoromethane	5.88	85	451221	4.5540 ppbV	S 98
11) Chloromethane	6.73	50	105153	4.3224 ppbV	S 98
12) Isobutane	7.38	43	215095	4.2709 ppbV	S 90
13) Halocarbon 114	7.59	85	372325	4.2318 ppbV	S 88
14) Acetaldehyde	7.55	44	43228	3.9250 ppbV #	S 100
15) Vinyl chloride	7.81	62	114737	4.1437 ppbV	S 97
16) 1-Butene/Isobutene	8.25	41	152722	4.3055 ppbV	S 74
17) 1,3-Butadiene	8.37	39	106400	4.7978 ppbV	S 98
18) n-Butane	8.52	43	185614	4.2278 ppbV	S 92
19) Methanol	8.33	31	24709m	4.4209 ppbV	S
20) trans-2-Butene	8.90	41	141266	4.3011 ppbV	S 89
23) Bromomethane	9.06	94	106298	4.1686 ppbV	S 91
24) cis-2-Butene	9.37	41	151032	4.6415 ppbV	S 90
25) Chloroethane	9.65	64	61425	4.1960 ppbV	S 91
26) Vinyl bromide	10.43	106	124264	4.9068 ppbV	S 88
27) 3-Methyl-1-butene	10.46	55	312484	4.9005 ppbV	S 80
28) Ethanol	10.49	45	44081	4.9075 ppbV	S 93
29) Acetonitrile	10.64	41	106743	5.1297 ppbV	S 95
30) Acrolein	10.86	56	51489	5.4873 ppbV #	S 53
31) Isopentane	11.09	41	153598	4.6750 ppbV #	S 1
32) Trichlorofluoromethane	11.36	101	445654	4.9709 ppbV #	S 71
33) 1-Pentene	11.67	42	173980	4.9601 ppbV #	S 1
34) Acetone	11.16	43	287046m	5.6365 ppbV	S
36) Acrylonitrile	12.09	52	95925	5.6412 ppbV #	S 1
37) n-Pentane	12.10	43	231947	4.9599 ppbV	S 85
39) Isoprene	12.27	67	148810	4.6995 ppbV	S 94
40) trans-2-Pentene	12.43	55	268574	5.0559 ppbV #	S 1
41) 1,1-Dichloroethene	12.51	61	256146	5.0404 ppbV #	S 10
42) cis-2-Pentene	12.72	55	262458	4.9895 ppbV #	S 1
43) Methylene chloride	12.84	49	171611	5.0366 ppbV #	S 1

5.6365 DAH 9-14-11

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083002.D Vial: 1
Acq On : 30 Aug 2011 11:52 am Operator: KRW
Sample : 11H0421-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:48 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	2-Methyl-2-butene	12.91	55	278975	5.1968 ppbV # S	1
45)	Carbon Disulfide	12.95	76	396263	5.0819 ppbV S	95
46)	3-Chloropropene	13.01	41	165753	5.3021 ppbV # S	1
47)	Halocarbon 113	13.32	151	171908	4.8610 ppbV # S	100
48)	Neohexane	13.47	43	192862	5.0197 ppbV # S	1
49)	Cyclopentene	14.18	67	280209	4.7656 ppbV # S	1
50)	trans-1,2-Dichloroethene	14.34	61	216170	5.0376 ppbV # S	1
51)	4-Methyl-1-pentene	14.38	43	195386	4.9050 ppbV S	82
53)	1,1-Dichloroethane	14.63	63	253628	4.2415 ppbV # S	100
54)	Cyclopentane	14.62	42	208164	4.0678 ppbV S	80
55)	2,3-Dimethylbutane	14.73	43	270838	3.9756 ppbV # S	64
56)	Methyl tert-butyl ether	14.82	73	338998	4.0393 ppbV # S	1
57)	Isohexane	14.94	42	142912	4.1140 ppbV # S	45
58)	Vinyl acetate	15.05	43	422211	5.2085 ppbV # S	48
62)	2-Butanone	15.34	43	297661	4.8144 ppbV # S	1
63)	Chloroprene	15.51	53	264646	4.5608 ppbV S	74
64)	3-Methylpentane	15.53	57	236891	4.1251 ppbV S	94
66)	2-Methyl-1-pentene	15.77	56	220034m	4.2491 ppbV S	
67)	1-Hexene	15.81	41	154632	4.6763 ppbV # S	55
68)	cis-1,2-Dichloroethene	15.94	61	204627	4.4785 ppbV # S	1
69)	Bromochloromethane	16.17	130	85049	4.0982 ppbV # S	1
71)	n-Hexane	16.30	57	203554	4.3282 ppbV # S	1
72)	Chloroform	16.41	83	323466	4.4144 ppbV # S	1
74)	trans-2-Hexene	16.51	55	265189	4.5568 ppbV # S	1
77)	cis-2-Hexene	16.91	55	212814	4.1718 ppbV S	96
78)	Methylcyclopentane	17.43	56	243925	4.1074 ppbV S	86
79)	1,2-Dichloroethane	17.45	62	298812	5.1102 ppbV S	89
80)	2,4-Dimethylpentane	17.62	43	292348	4.3424 ppbV # S	1
81)	1,1,1-Trichloroethane	17.81	97	379460	4.6980 ppbV # S	1
84)	Benzene	18.48	78	304628	4.7786 ppbV S	72
85)	Carbon tetrachloride	18.71	117	377412	5.1695 ppbV # S	1
86)	1-Butanol	18.67	56	51497	2.5824 ppbV S	96
87)	Cyclohexane	18.87	56	206936	4.6693 ppbV # S	1
88)	Isoheptane	19.27	43	311716	4.7872 ppbV # S	30
89)	2,3-Dimethylpentane	19.34	56	254927	4.6320 ppbV # S	62
91)	3-Methylhexane	19.65	43	246249	4.7667 ppbV # S	75
92)	1,2-Dichloropropane	19.75	63	125620	5.0117 ppbV # S	1
93)	Bromodichloromethane	20.08	83	323187	5.1842 ppbV # S	1
94)	Trichloroethene	20.14	130	131519	4.9545 ppbV # S	1
95)	1,4-Dioxane	20.18	88	50382	4.8689 ppbV # S	42
97)	2,2,4-Trimethylpentane	20.22	57	689691	4.5937 ppbV S	90
98)	2-Chloropentane	20.46	70	183856	5.0007 ppbV # S	13
100)	n-Heptane	20.70	71	121344	4.7899 ppbV # S	1
104)	cis-1,3-Dichloropropene	21.54	75	175138	5.4346 ppbV # S	1
105)	Methylisobutylketone	21.64	43	368449	5.9156 ppbV # S	1
106)	Methylcyclohexane	21.61	83	226879	4.6499 ppbV S	88
110)	trans-1,3-Dichloropropene	22.41	75	180323	6.1155 ppbV # S	1
111)	1,1,2-Trichloroethane	22.65	97	104933	5.3815 ppbV # S	1
112)	2,3,4-Trimethylpentane	22.87	43	419907	4.8734 ppbV S	92
114)	Toluene	23.08	91	323035	5.6078 ppbV # S	1
117)	2-Methylheptane	23.53	43	319638	5.1817 ppbV # S	13

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083002.D Vial: 1
Acq On : 30 Aug 2011 11:52 am Operator: KRW
Sample : 11H0421-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:48 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

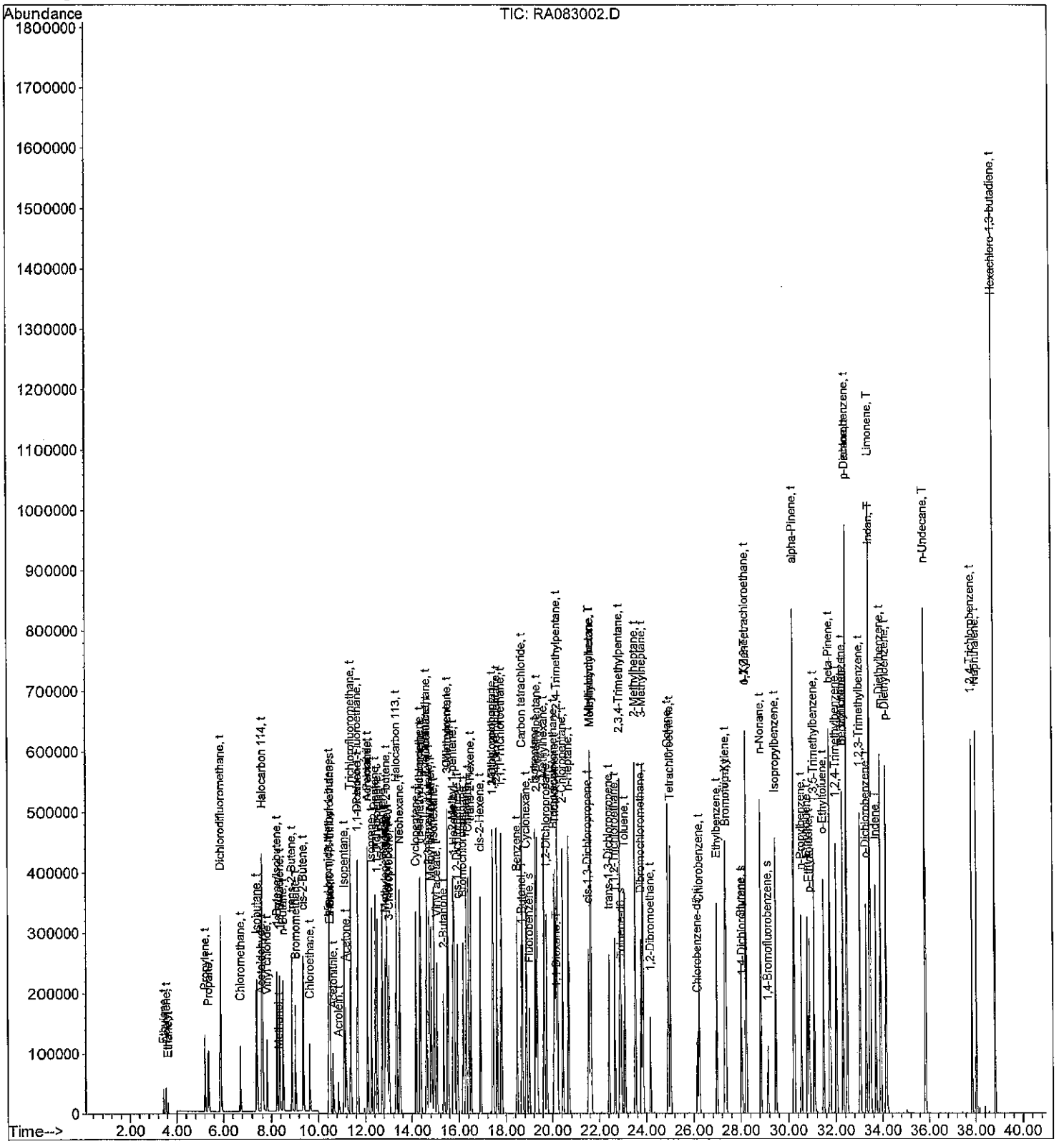
	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
119)	Dibromochloromethane	23.78	129	194379	5.6018	ppbV	# S	39
120)	3-Methylheptane	23.85	85	169658	4.7983	ppbV	# S	1
122)	1,2-Dibromoethane	24.17	107	146636	5.6589	ppbV	# S	1
125)	n-Octane	24.91	43	316197	5.5030	ppbV	# S	49
126)	Tetrachloroethene	25.02	164	118036	5.5347	ppbV	S	96
128)	Chlorobenzene	26.23	112	168247	5.5802	ppbV	# S	1
129)	Ethylbenzene	26.98	91	344728	5.9259	ppbV	S	96
130)	m/p-Xylene	27.35	91	598315m	11.8508	ppbV	S	
131)	Bromoform	27.37	173	122543	5.8192	ppbV	# S	1
134)	Styrene	28.02	104	141758	5.9413	ppbV	# S	23
135)	1,1,2,2-Tetrachloroethane	28.22	83	186144	5.0555	ppbV	S	93
136)	o-Xylene	28.22	91	311243	5.9967	ppbV	S	86
140)	n-Nonane	28.84	43	285415	5.8653	ppbV	# S	71
142)	Isopropylbenzene	29.45	105	434922	5.4200	ppbV	S	100
144)	alpha-Pinene	30.24	93	473996	5.2057	ppbV	S	94
147)	n-Propylbenzene	30.56	91	385015	5.0987	ppbV	# S	35
148)	m-Ethyltoluene	30.81	105	295253	4.7925	ppbV	S	89
149)	p-Ethyltoluene	30.90	105	271048	4.8534	ppbV	S	87
150)	1,3,5-Trimethylbenzene	31.09	105	374870	5.7649	ppbV	S	85
151)	o-Ethyltoluene	31.49	105	364891	5.0599	ppbV	S	87
152)	beta-Pinene	31.76	93	345445	3.7874	ppbV	# S	1
153)	1,2,4-Trimethylbenzene	32.02	105	389653	6.6333	ppbV	# S	1
156)	Benzyl chloride	32.30	91	287372	8.4167	ppbV	S	98
157)	m-Dichlorobenzene	32.30	146	148895	6.1280	ppbV	S	84
158)	n-Decane	32.47	57	377844	6.4300	ppbV	S	73
159)	p-Dichlorobenzene	32.47	146	158846	6.8158	ppbV	S	83
161)	1,2,3-Trimethylbenzene	33.03	105	450105	6.5472	ppbV	S	85
163)	o-Dichlorobenzene	33.29	146	187336	7.0112	ppbV	S	94
164)	Limonene	33.47	68	270895	7.5338	ppbV	S	84
165)	Indan	33.49	117	324146	8.2033	ppbV	S	91
166)	Indene	33.71	115	285158	8.2608	ppbV	S	93
167)	m-Diethylbenzene	33.92	105	338471	5.9528	ppbV	# S	28
168)	p-Diethylbenzene	34.15	119	278852	5.9467	ppbV	# S	1
171)	n-Undecane	35.84	57	474376	5.8363	ppbV	S	74
172)	1,2,4-Trichlorobenzene	37.84	180	192126	6.6631	ppbV	# S	100
173)	Naphthalene	38.03	128	511113	5.6982	ppbV	S	96
174)	Hexachloro-1,3-butadiene	38.81	225	296968	6.8783	ppbV	S	96

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083002.D Vial: 1
Acq On : 30 Aug 2011 11:52 am Operator: KRW
Sample : 11H0421-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:48 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083003.D Vial: 1
Acq On : 30 Aug 2011 12:53 pm Operator: KRW
Sample : 11H0421-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:50 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-31-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	200243	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	75438	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	76597	1.8717 ppbV	0.02
Spiked Amount 2.000			Recovery	= 93.50%	
65) Fluorobenzene	19.00	96	163556	1.6795 ppbV	0.01
Spiked Amount 2.000			Recovery	= 84.00%	
113) Toluene-d8	22.92	98	128871	1.9469 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
115) 1,4-Dichlorobutane	28.05	90	11321	2.1194 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	
141) 1,4-Bromofluorobenzene	29.13	95	54036	2.1789 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.00%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	29842	4.6982 ppbV	S	94
4) Acetylene	3.54	26	45170	3.8097 ppbV	S	90
5) Ethane	3.63	26	11874	3.3450 ppbV	S	98
7) Propylene	5.21	41	80595	4.4976 ppbV	S	96
8) Chlorodifluoromethane	5.57	51	269769	5.1123 ppbV	S	96
9) Propane	5.37	43	35251	4.2828 ppbV	S	89
10) Dichlorodifluoromethane	5.87	85	481491	4.7097 ppbV	S	98
11) Chloromethane	6.73	50	115388	4.5970 ppbV	S	97
12) Isobutane	7.37	43	221853	4.2693 ppbV	S	92
13) Halocarbon 114	7.59	85	358565	3.9498 ppbV	S	91
15) Vinyl chloride	7.81	62	127384	4.4587 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	156137	4.2662 ppbV	S	75
17) 1,3-Butadiene	8.36	39	112461	4.9148 ppbV	S	98
18) n-Butane	8.52	43	190636	4.2084 ppbV	S	93
19) Methanol	8.33	31	23196m	4.0223 ppbV	S	
20) trans-2-Butene	8.90	41	143948	4.2477 ppbV	S	89
23) Bromomethane	9.06	94	116812	4.4397 ppbV	S	93
24) cis-2-Butene	9.37	41	154123	4.5905 ppbV	S	90
25) Chloroethane	9.64	64	66063	4.3738 ppbV	S	91
26) Vinyl bromide	10.43	106	115649	4.4259 ppbV	S	84
27) 3-Methyl-1-butene	10.46	55	318240	4.8369 ppbV	S	79
29) Acetonitrile	10.64	41	96976m	4.5167 ppbV	S	
30) Acrolein	10.87	56	45289	4.6778 ppbV #	S	47
31) Isopentane	11.09	41	153958	4.5416 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	460388	4.9770 ppbV #	S	71
33) 1-Pentene	11.67	42	179812	4.9684 ppbV #	S	1
34) Acetone	11.16	43	271235m	5.1619 ppbV	S	
35) 2-Propanol	11.92	45	237862	5.9967 ppbV #	S	1
36) Acrylonitrile	12.08	52	87521	4.9884 ppbV #	S	1
37) n-Pentane	12.10	43	237015	4.9121 ppbV	S	86
38) Diethyl ether	12.28	74	62778	5.2467 ppbV #	S	1
39) Isoprene	12.27	67	157569	4.8228 ppbV	S	93
40) trans-2-Pentene	12.43	55	265204	4.8386 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	270047	5.1501 ppbV #	S	10
42) cis-2-Pentene	12.72	55	264328	4.8701 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083003.D Vial: 1
Acq On : 30 Aug 2011 12:53 pm Operator: KRW
Sample : 11H0421-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:50 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
43)	Methylene chloride	12.85	49	178005	5.0632	ppbV	#	S	1
44)	2-Methyl-2-butene	12.90	55	278837	5.0342	ppbV	#	S	1
45)	Carbon Disulfide	12.95	76	323580	4.0219	ppbV		S	96
46)	3-Chloropropene	13.01	41	152853	4.7387	ppbV	#	S	1
47)	Halocarbon 113	13.31	151	183822	5.0377	ppbV	#	S	100
50)	trans-1,2-Dichloroethene	14.34	61	214660	4.8483	ppbV	#	S	1
51)	4-Methyl-1-pentene	14.38	43	194380	4.7294	ppbV		S	81
53)	1,1-Dichloroethane	14.63	63	257928	4.1805	ppbV	#	S	100
56)	Methyl tert-butyl ether	14.81	73	380233	4.3911	ppbV	#	S	1
58)	Vinyl acetate	15.05	43	355171	4.2464	ppbV	#	S	47
62)	2-Butanone	15.34	43	282480	4.4280	ppbV	#	S	1
63)	Chloroprene	15.51	53	263918	4.4081	ppbV		S	74
68)	cis-1,2-Dichloroethene	15.94	61	212685	4.5114	ppbV	#	S	1
71)	n-Hexane	16.30	57	195402	4.0268	ppbV	#	S	1
72)	Chloroform	16.41	83	329512	4.3583	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	261497	4.3548	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	216332	4.1101	ppbV		S	94
79)	1,2-Dichloroethane	17.45	62	295173	4.8924	ppbV		S	89
81)	1,1,1-Trichloroethane	17.80	97	382804	4.5933	ppbV	#	S	1
84)	Benzene	18.48	78	306085	4.8627	ppbV		S	70
85)	Carbon tetrachloride	18.70	117	337100	4.6763	ppbV	#	S	1
86)	1-Butanol	18.67	56	79067	4.0155	ppbV		S	95
87)	Cyclohexane	18.87	56	201674	4.6086	ppbV	#	S	1
92)	1,2-Dichloropropane	19.75	63	124116	5.0150	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	338449	5.4983	ppbV	#	S	1
94)	Trichloroethene	20.14	130	127195	4.8528	ppbV	#	S	1
95)	1,4-Dioxane	20.18	88	37865	3.7060	ppbV	#	S	23
97)	2,2,4-Trimethylpentane	20.22	57	672378	4.5356	ppbV		S	90
98)	2-Chloropentane	20.45	70	160310	4.4160	ppbV	#	S	13
100)	n-Heptane	20.70	71	115891	4.6330	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	175850	5.5264	ppbV	#	S	1
105)	Methylisobutylketone	21.64	43	311458	5.0644	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.41	75	155747	5.3495	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	102973	5.3484	ppbV	#	S	1
114)	Toluene	23.09	91	312179	5.4885	ppbV	#	S	1
116)	2-Hexanone	23.63	43	231260	5.7395	ppbV	#	S	23
119)	Dibromochloromethane	23.77	129	194698	5.6826	ppbV	#	S	38
122)	1,2-Dibromoethane	24.17	107	135399	5.2920	ppbV	#	S	1
125)	n-Octane	24.91	43	302747	5.3362	ppbV	#	S	49
126)	Tetrachloroethene	25.02	164	115067	5.4644	ppbV		S	97
128)	Chlorobenzene	26.23	112	165042	5.5437	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	340393	5.9261	ppbV		S	97
130)	m/p-Xylene	27.35	91	592965m	11.8947	ppbV		S	
131)	Bromoform	27.38	173	118152	5.6823	ppbV	#	S	1
134)	Styrene	28.02	104	141403	6.0021	ppbV	#	S	22
135)	1,1,2,2-Tetrachloroethane	28.23	83	175257	4.8206	ppbV		S	94
136)	o-Xylene	28.23	91	312983	6.1072	ppbV		S	89
140)	n-Nonane	28.84	43	285024	5.9320	ppbV	#	S	71
142)	Isopropylbenzene	29.45	105	441354	5.5704	ppbV		S	100
145)	o/m-Chlorotoluene	30.41	91	231967	6.5700	ppbV	#	S	1
147)	n-Propylbenzene	30.56	91	376559	5.0503	ppbV	#	S	34

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083003.D Vial: 1
Acq On : 30 Aug 2011 12:53 pm Operator: KRW
Sample : 11H0421-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:50 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

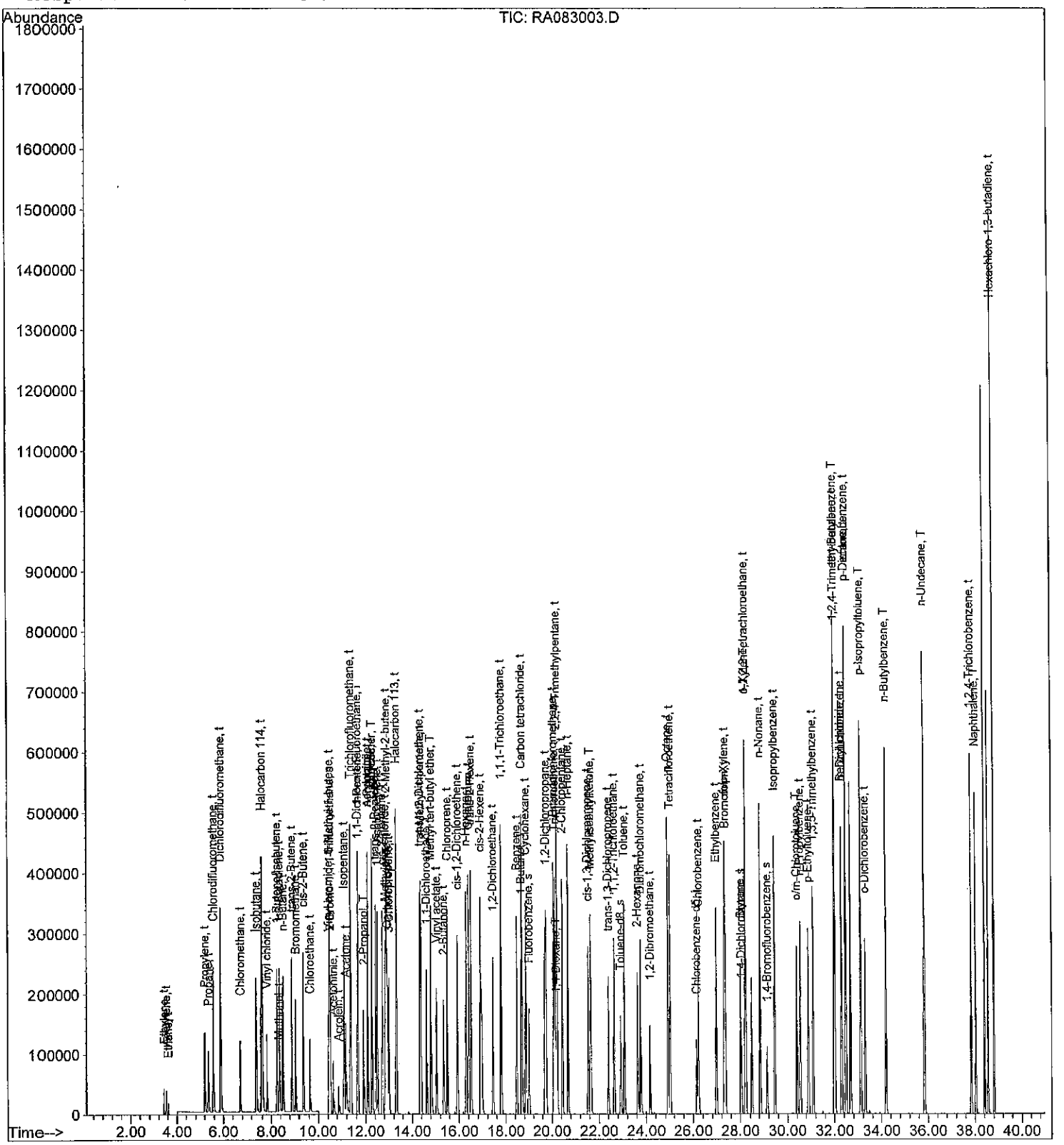
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
149)	p-Ethyltoluene	30.90	105	291011	5.2774	ppbV		S	88
150)	1,3,5-Trimethylbenzene	31.09	105	323942	5.0453	ppbV		S	85
153)	1,2,4-Trimethylbenzene	32.02	105	310472	5.3528	ppbV	#	S	1
154)	tert-Butylbenzene	32.00	119	468470	6.2467	ppbV	#	S	58
156)	Benzyl chloride	32.30	91	295221	8.7569	ppbV		S	98
157)	m-Dichlorobenzene	32.30	146	108085	4.5052	ppbV		S	83
158)	n-Decane	32.47	57	323601	5.5772	ppbV		S	72
159)	p-Dichlorobenzene	32.48	146	116321	5.0549	ppbV		S	83
162)	p-Isopropyltoluene	33.11	119	550469	8.1268	ppbV	#	S	43
163)	o-Dichlorobenzene	33.29	146	156189	5.9201	ppbV		S	94
169)	n-Butylbenzene	34.19	91	539241	8.2475	ppbV	#	S	1
171)	n-Undecane	35.84	57	429975	5.3576	ppbV		S	71
172)	1,2,4-Trichlorobenzene	37.85	180	183677	6.4514	ppbV	#	S	100
173)	Naphthalene	38.04	128	421523	4.7594	ppbV		S	96
174)	Hexachloro-1,3-butadiene	38.81	225	298462	7.0011	ppbV		S	96

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083003.D Vial: 1
Acq On : 30 Aug 2011 12:53 pm Operator: KRW
Sample : 11H0421-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:50 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083004.D Vial: 1
Acq On : 30 Aug 2011 1:54 pm Operator: KRW
Sample : 11H0421-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:52 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DMR 8-31-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	198651	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	74536	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	75993	1.8718 ppbV	0.02
Spiked Amount 2.000			Recovery	= 93.50%	
65) Fluorobenzene	19.00	96	162239	1.6793 ppbV	0.01
Spiked Amount 2.000			Recovery	= 84.00%	
113) Toluene-d8	22.92	98	129529	1.9805 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
115) 1,4-Dichlorobutane	28.05	90	11689	2.2148 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.50%	
141) 1,4-Bromofluorobenzene	29.13	95	53742	2.1933 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.50%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	28664	4.5489 ppbV	S	96
4) Acetylene	3.54	26	43220	3.6744 ppbV	S	91
5) Ethane	3.63	26	11438	3.2480 ppbV	S	98
7) Propylene	5.21	41	77376	4.3525 ppbV	S	96
8) Chlorodifluoromethane	5.57	51	262972	5.0234 ppbV	S	96
9) Propane	5.36	43	33313	4.0798 ppbV	S	88
10) Dichlorodifluoromethane	5.87	85	467600	4.6105 ppbV	S	98
11) Chloromethane	6.73	50	111477	4.4767 ppbV	S	97
12) Isobutane	7.38	43	213208	4.1358 ppbV	S	92
13) Halocarbon 114	7.59	85	347560	3.8593 ppbV	S	90
15) Vinyl chloride	7.81	62	121165	4.2750 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	150283	4.1391 ppbV	S	74
17) 1,3-Butadiene	8.37	39	109196	4.8104 ppbV	S	96
18) n-Butane	8.52	43	183352	4.0800 ppbV	S	93
19) Methanol	8.33	31	22606m	3.9514 ppbV	S	
20) trans-2-Butene	8.90	41	140180	4.1697 ppbV	S	90
23) Bromomethane	9.06	94	112920	4.3262 ppbV	S	91
24) cis-2-Butene	9.37	41	150467	4.5176 ppbV	S	92
25) Chloroethane	9.64	64	63773	4.2560 ppbV	S	92
26) Vinyl bromide	10.43	106	112785	4.3509 ppbV	S	87
27) 3-Methyl-1-butene	10.46	55	311692	4.7754 ppbV	S	79
29) Acetonitrile	10.64	41	93713m	4.3997 ppbV	S	
30) Acrolein	10.87	56	43519	4.5310 ppbV #	S	51
31) Isopentane	11.09	41	152085	4.5223 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	459729	5.0097 ppbV #	S	70
33) 1-Pentene	11.67	42	178817	4.9805 ppbV #	S	1
34) Acetone	11.16	43	266578m	5.1139 ppbV	S	
35) 2-Propanol	11.92	45	234489m	5.9590 ppbV	S	
36) Acrylonitrile	12.09	52	86238	4.9546 ppbV #	S	1
37) n-Pentane	12.10	43	234537	4.8997 ppbV	S	86
38) Diethyl ether	12.28	74	62259	5.2450 ppbV #	S	1
39) Isoprene	12.27	67	155959	4.8117 ppbV	S	94
40) trans-2-Pentene	12.43	55	263483	4.8458 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	269778	5.1862 ppbV #	S	10
42) cis-2-Pentene	12.72	55	263333	4.8907 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083004.D Vial: 1
Acq On : 30 Aug 2011 1:54 pm Operator: KRW
Sample : 11H0421-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:52 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
43)	Methylene chloride	12.85	49	177349	5.0850	ppbV	#	S	1
44)	2-Methyl-2-butene	12.90	55	276996	5.0410	ppbV	#	S	1
45)	Carbon Disulfide	12.95	76	320333	4.0135	ppbV		S	95
46)	3-Chloropropene	13.01	41	150996	4.7187	ppbV	#	S	1
47)	Halocarbon 113	13.32	151	183583	5.0715	ppbV	#	S	100
50)	trans-1,2-Dichloroethene	14.34	61	216250	4.9233	ppbV	#	S	1
51)	4-Methyl-1-pentene	14.38	43	191563	4.6982	ppbV		S	81
53)	1,1-Dichloroethane	14.63	63	254233	4.1536	ppbV	#	S	100
56)	Methyl tert-butyl ether	14.81	73	375300	4.3688	ppbV	#	S	1
58)	Vinyl acetate	15.05	43	351893	4.2410	ppbV	#	S	48
62)	2-Butanone	15.34	43	275426	4.3521	ppbV	#	S	1
63)	Chloroprene	15.51	53	262402	4.4179	ppbV		S	75
68)	cis-1,2-Dichloroethene	15.94	61	210067	4.4916	ppbV	#	S	1
71)	n-Hexane	16.30	57	193585	4.0213	ppbV	#	S	1
72)	Chloroform	16.41	83	327636	4.3682	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	258205	4.3345	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	213727	4.0932	ppbV		S	96
79)	1,2-Dichloroethane	17.45	62	293076	4.8966	ppbV		S	89
81)	1,1,1-Trichloroethane	17.80	97	383435	4.6378	ppbV	#	S	1
84)	Benzene	18.48	78	302340	4.8614	ppbV		S	70
85)	Carbon tetrachloride	18.70	117	337267	4.7352	ppbV	#	S	1
86)	1-Butanol	18.68	56	82992	4.2658	ppbV		S	94
87)	Cyclohexane	18.87	56	198052	4.5806	ppbV	#	S	1
92)	1,2-Dichloropropane	19.75	63	124108	5.0753	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	335683	5.5194	ppbV	#	S	1
94)	Trichloroethene	20.14	130	125513	4.8465	ppbV	#	S	1
95)	1,4-Dioxane	20.18	88	36568	3.6224	ppbV	#	S	13
97)	2,2,4-Trimethylpentane	20.22	57	664096	4.5339	ppbV		S	89
98)	2-Chloropentane	20.45	70	158746	4.4258	ppbV	#	S	14
100)	n-Heptane	20.70	71	116715	4.7225	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	174393	5.5469	ppbV	#	S	1
105)	Methylisobutylketone	21.64	43	308940	5.0843	ppbV	#	S	1
110)	trans-1,3-Dichloropropene	22.41	75	151020	5.2499	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	100956	5.3071	ppbV	#	S	1
114)	Toluene	23.09	91	312061	5.5529	ppbV	#	S	1
116)	2-Hexanone	23.63	43	228128	5.7303	ppbV	#	S	24
119)	Dibromochloromethane	23.77	129	194191	5.7364	ppbV	#	S	37
122)	1,2-Dibromoethane	24.17	107	132106	5.2258	ppbV	#	S	1
125)	n-Octane	24.91	43	301437	5.3774	ppbV	#	S	49
126)	Tetrachloroethene	25.02	164	112913	5.4270	ppbV		S	94
128)	Chlorobenzene	26.23	112	163806	5.5688	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	343006	6.0439	ppbV		S	98
130)	m/p-Xylene	27.35	91	592826m	12.0359	ppbV		S	
131)	Bromoform	27.38	173	119327	5.8082	ppbV	#	S	1
134)	Styrene	28.02	104	140034	6.0159	ppbV	#	S	22
135)	1,1,2,2-Tetrachloroethane	28.23	83	175229	4.8781	ppbV		S	93
136)	o-Xylene	28.23	91	312282	6.1673	ppbV		S	89
140)	n-Nonane	28.84	43	283560	5.9730	ppbV	#	S	71
142)	Isopropylbenzene	29.45	105	439298	5.6115	ppbV		S	100
145)	o/m-Chlorotoluene	30.41	91	233492	6.6932	ppbV	#	S	1
147)	n-Propylbenzene	30.55	91	377820	5.1286	ppbV	#	S	35

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083004.D Vial: 1
Acq On : 30 Aug 2011 1:54 pm Operator: KRW
Sample : 11H0421-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:52 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
149) p-Ethyltoluene	30.90	105	294010	5.3963	ppbV		S	87
150) 1,3,5-Trimethylbenzene	31.09	105	322245	5.0796	ppbV		S	85
153) 1,2,4-Trimethylbenzene	32.02	105	290124	5.0625	ppbV	#	S	1
154) tert-Butylbenzene	32.00	119	459980	6.2077	ppbV	#	S	58
156) Benzyl chloride	32.30	91	264123	7.9293	ppbV		S	98
157) m-Dichlorobenzene	32.30	146	104620	4.4135	ppbV		S	83
158) n-Decane	32.47	57	301253	5.2549	ppbV		S	74
159) p-Dichlorobenzene	32.48	146	105841	4.6551	ppbV		S	83
162) p-Isopropyltoluene	33.11	119	517576	7.7336	ppbV	#	S	43
163) o-Dichlorobenzene	33.29	146	135946	5.2152	ppbV		S	94
169) n-Butylbenzene	34.19	91	530031	8.2048	ppbV	#	S	1
171) n-Undecane	35.84	57	427049	5.3855	ppbV		S	71
172) 1,2,4-Trichlorobenzene	37.85	180	183855	6.5358	ppbV	#	S	100
173) Naphthalene	38.04	128	418412	4.7814	ppbV		S	96
174) Hexachloro-1,3-butadiene	38.81	225	299173	7.1027	ppbV		S	95

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083004.D Vial: 1
Acq On : 30 Aug 2011 1:54 pm Operator: KRW
Sample : 11H0421-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 14:52 19111 Quant Results File: RA110824.RES

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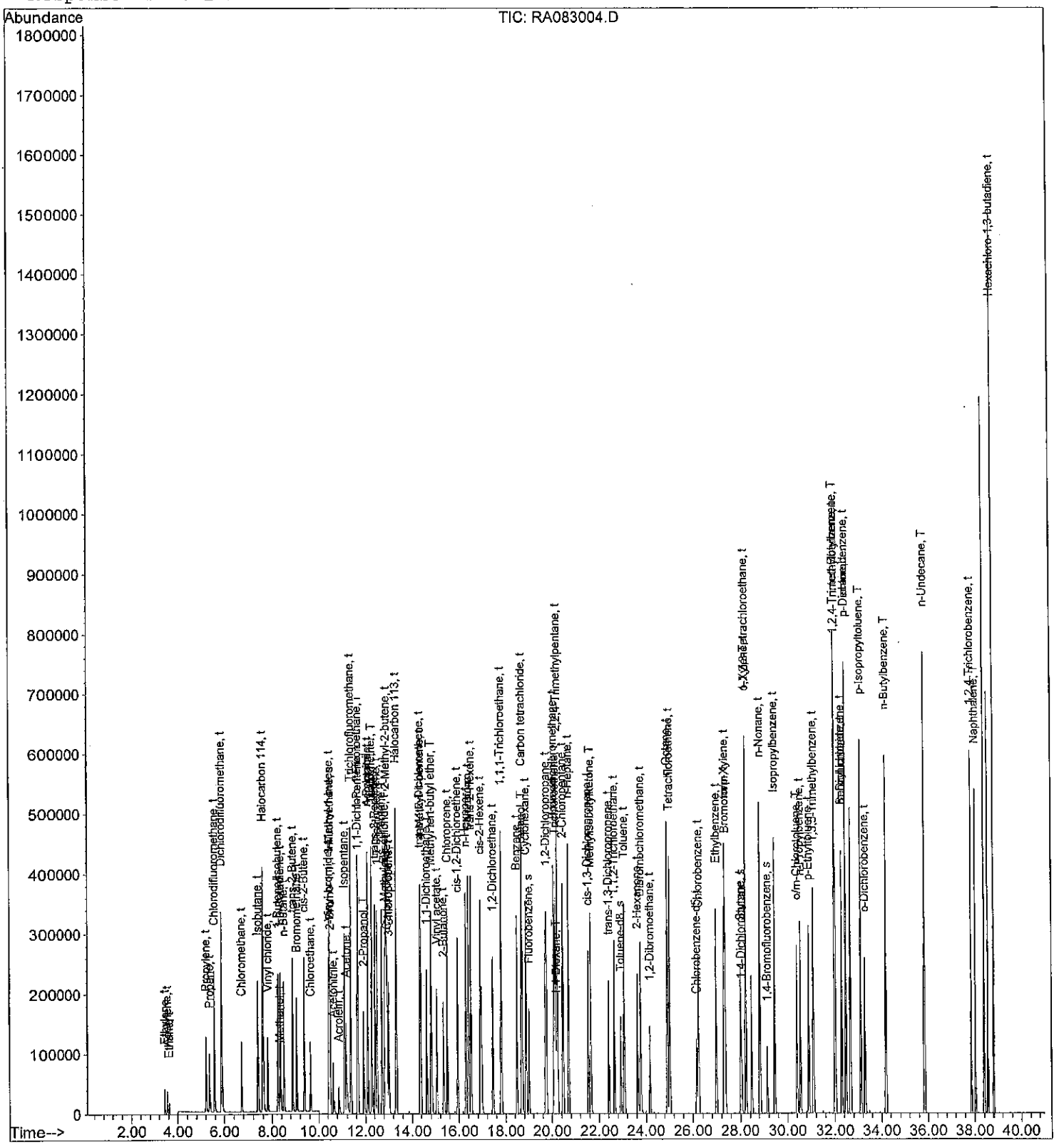
Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083005.D Vial: 1
Acq On : 30 Aug 2011 2:54 pm Operator: KRW
Sample : 11H0421-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 18:44 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-31-11

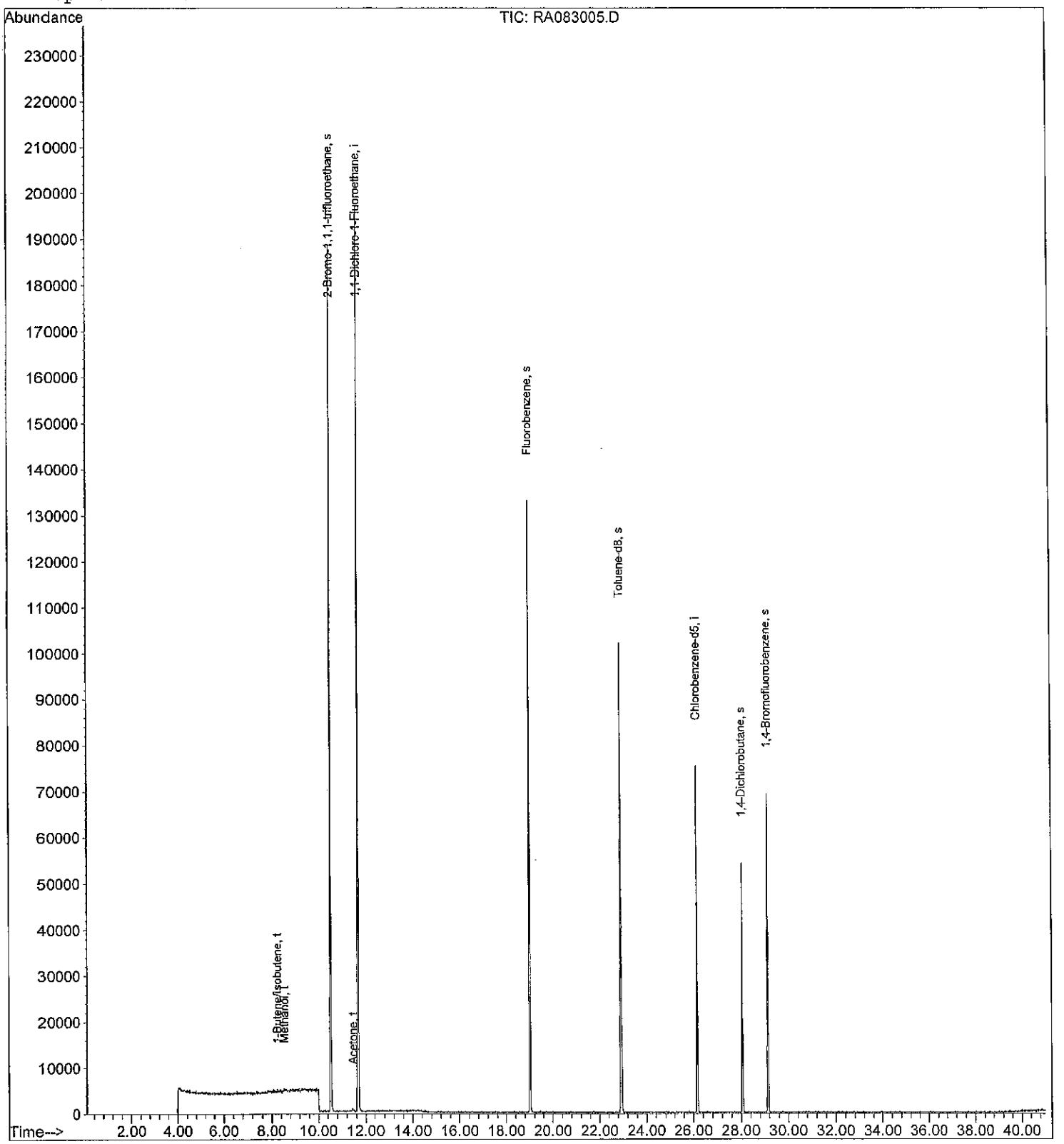
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	196572	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	45309	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	72247	1.7984 ppbV	0.03
Spiked Amount 2.000			Recovery	= 90.00%	
65) Fluorobenzene	19.01	96	118176	1.2362 ppbV	0.02
Spiked Amount 2.000			Recovery	= 62.00%	
113) Toluene-d8	22.92	98	78573	1.9764 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
115) 1,4-Dichlorobutane	28.05	90	6467	2.0157 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	
141) 1,4-Bromofluorobenzene	29.14	95	31758	2.1321 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	
Target Compounds					Qvalue
16) 1-Butene/Isobutene	8.24	41	172	0.0048 ppbV #	36
19) Methanol	8.54	31	92m	0.0163 ppbV	
34) Acetone	11.46	43	1097m	0.0213 ppbV	

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083005.D Vial: 1
Acq On : 30 Aug 2011 2:54 pm Operator: KRW
Sample : 11H0421-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 18:44 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083008.D Vial: 1
Acq On : 30 Aug 2011 5:50 pm Operator: KRW
Sample : AUH0046-03RE1,,,,;TCESL Inst : GCMS-R1
Misc : 7.4750,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 15:00 19111 Quant Results File: RA110824.RES

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Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Per-n for CDFA

DAH 8-31-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	166092	2.0000 ppbV	0.04
82) Chlorobenzene-d5	26.16	117	31300	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.52	83	53732	1.5829 ppbV	0.03
Spiked Amount 2.000			Recovery	= 79.00%	
65) Fluorobenzene	19.01	96	78703	0.9743 ppbV	0.02
Spiked Amount 2.000			Recovery	= 48.50%	
113) Toluene-d8	22.93	98	54048	1.9680 ppbV	0.01
Spiked Amount 2.000			Recovery	= 98.50%	
115) 1,4-Dichlorobutane	28.06	90	4470	2.0169 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	
141) 1,4-Bromofluorobenzene	29.13	95	22326	2.1698 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.50%	

Target Compounds					Qvalue
8) Chlorodifluoromethane	5.58	51	182428	4.1680 ppbV S	91
10) Dichlorodifluoromethane	5.90	85	691	0.0081 ppbV # S	54
18) n-Butane	8.54	43	1235	0.0329 ppbV S	64
32) Trichlorofluoromethane	11.38	101	1452	0.0189 ppbV # S	90
37) n-Pentane	12.11	43	1710	0.0427 ppbV S	82
43) Methylene chloride	12.87	49	422	0.0145 ppbV # S	1
68) cis-1,2-Dichloroethene	15.95	61	1196	0.0306 ppbV # S	1
71) n-Hexane	16.31	57	79	0.0020 ppbV # S	1
114) Toluene	23.09	91	1319	0.0559 ppbV # S	1

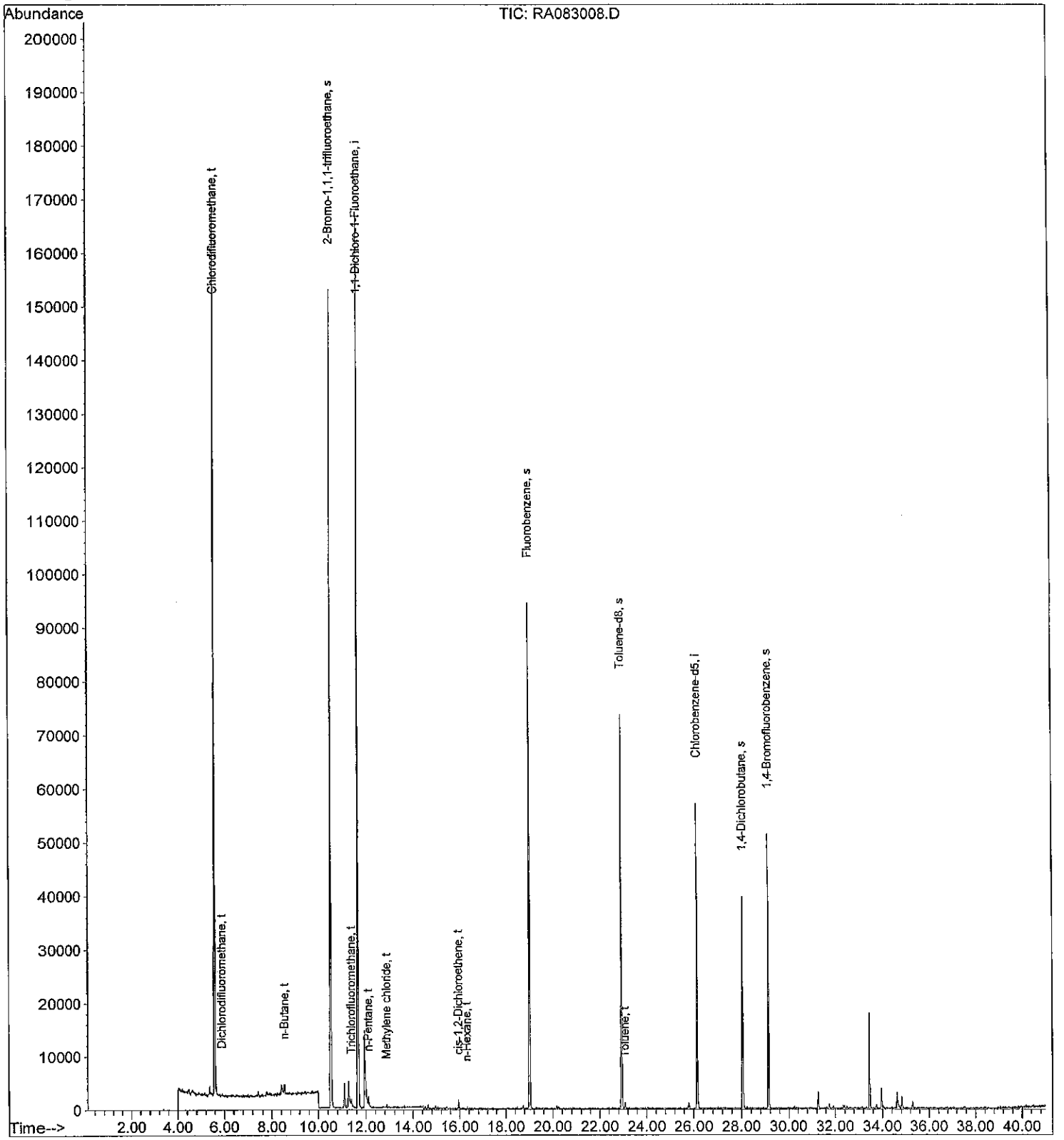
(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110830\RA083008.D Vial: 1
Acq On : 30 Aug 2011 5:50 pm Operator: KRW
Sample : AUH0046-03RE1,,,,;TCESL Inst : GCMS-R1
Misc : 7.4750,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 31 15:00 19111 Quant Results File: RA110824.RES

180/180

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



♦ **Data Package Contents** **AUH0047**

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)

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Analytical Report

Work Order: AUH0047

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
Wednesday, August 31, 2011

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 21:20

August 31, 2011

LABORATORY REPORT

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

Work Order:	AUH0047
Project Name:	Bannister Complex
Project Number:	[none]
Date Received:	08/03/11

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 confidentiol 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, 6 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.

Approved By:

Dane Wacasey
Project Manager

NELAP Certification # T104704217-10-6

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SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION	MATRIX	CONTAINER TYPE
AMBIENT SOUTH VOCS	AUH0047-01	07/30/11 20:11	Air	Passivated Canister
B1SB-R17-VOCS	AUH0047-02	07/30/11 19:40	Air	Passivated Canister
B1SB-U19-VOCS	AUH0047-03	07/30/11 19:28	Air	Passivated Canister
B1SB-A19-VOCS	AUH0047-04	07/30/11 19:51	Air	Passivated Canister
B2B-OD8-VOCS	AUH0047-05	07/30/11 19:30	Air	Passivated Canister
B1SB-P25-VOCS	AUH0047-06	07/30/11 19:17	Air	Passivated Canister
B1SB-W17-VOCS	AUH0047-07	07/30/11 19:32	Air	Passivated Canister
B2B-OB27-VOCS	AUH0047-08	07/30/11 19:08	Air	Passivated Canister
B1SB-E23-VOCS	AUH0047-09	07/30/11 18:36	Air	Passivated Canister
TRIP BLANK	AUH0047-10	07/30/11 00:00	Air	Passivated Canister
TRIP BLANK	AUH0047-11	08/02/11 00:00	Air	Passivated Canister

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ANALYTICAL REPORT

Sample ID: AUH0047-01 (AMBIENT SOUTH VOCS - Air) **Sampled: 07/30/11 20:11**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**4.15**		ug/m³ Air	0.336	3.85	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Dichlorodifluoromethane	**2.30**	J	ug/m³ Air	0.629	5.38	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Chloromethane	**1.39**	J	ug/m³ Air	0.162	2.25	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.79	7.60	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Vinyl chloride	ND		ug/m³ Air	0.403	2.78	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,3-Butadiene	ND		ug/m³ Air	0.229	2.41	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Butane	**0.509**	J	ug/m³ Air	0.237	2.58	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Bromomethane	ND		ug/m³ Air	0.669	4.22	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Chloroethane	ND		ug/m³ Air	0.356	2.87	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Acetonitrile	**0.234**	J	ug/m³ Air	0.118	1.83	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Trichlorofluoromethane	**1.43**	J	ug/m³ Air	0.434	6.11	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Acetone	**30.2**	B	ug/m³ Air	0.191	2.58	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Acrylonitrile	ND		ug/m³ Air	0.302	2.36	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
n-Pentane	**0.573**	J	ug/m³ Air	0.215	3.21	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Diethyl ether	ND		ug/m³ Air	0.262	3.30	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,1-Dichloroethene	ND		ug/m³ Air	0.259	4.31	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Methylene chloride	ND		ug/m³ Air	0.346	3.78	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Carbon disulfide	ND		ug/m³ Air	0.760	3.39	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Allyl chloride	ND		ug/m³ Air	0.519	3.40	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.10	8.33	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.554	4.31	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,1-Dichloroethane	ND		ug/m³ Air	0.436	4.40	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.429	3.92	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Vinyl acetate	**0.961**	J	ug/m³ Air	0.750	3.83	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
2-Butanone (MEK)	**1.94**	J	ug/m³ Air	0.427	3.21	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.390	4.31	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Hexane	ND		ug/m³ Air	0.420	3.83	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Chloroform	ND		ug/m³ Air	0.438	5.31	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,2-Dichloroethane	ND		ug/m³ Air	0.306	4.40	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,1,1-Trichloroethane	ND		ug/m³ Air	0.575	5.93	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Benzene	ND		ug/m³ Air	0.363	3.47	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Carbon tetrachloride	ND		ug/m³ Air	1.86	6.84	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Cyclohexane	ND		ug/m³ Air	0.464	3.74	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,2-Dichloropropane	ND		ug/m³ Air	0.400	5.03	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Bromodichloromethane	ND		ug/m³ Air	1.71	7.29	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Trichloroethene	ND		ug/m³ Air	0.394	5.84	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Heptane	ND		ug/m³ Air	0.365	4.46	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.521	4.94	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.846	4.45	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.743	4.94	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404

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ANALYTICAL REPORT

Sample ID: AUH0047-01 (AMBIENT SOUTH VOCS - Air) - cont. **Sampled: 07/30/11 20:11**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.599	5.93	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Toluene	**0.783**	J	ug/m³ Air	0.316	4.10	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
2-Hexanone	ND		ug/m³ Air	1.14	4.45	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Chlorodibromomethane	ND		ug/m³ Air	2.26	9.26	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.835	8.35	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
n-Octane	ND		ug/m³ Air	0.521	5.08	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Tetrachloroethene	ND		ug/m³ Air	0.616	7.38	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Chlorobenzene	ND		ug/m³ Air	0.363	5.01	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Ethylbenzene	ND		ug/m³ Air	0.661	4.72	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
m-Xylene & p-Xylene	ND		ug/m³ Air	1.45	9.44	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Bromoform	ND		ug/m³ Air	1.64	11.2	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Styrene	ND		ug/m³ Air	0.540	4.63	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.41	7.47	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
o-Xylene	ND		ug/m³ Air	0.727	4.72	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
n-Nonane	ND		ug/m³ Air	0.813	5.70	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Isopropylbenzene	ND		ug/m³ Air	0.690	5.35	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
n-Propylbenzene	ND		ug/m³ Air	1.08	5.35	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.879	5.35	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.986	5.35	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Benzyl chloride	ND		ug/m³ Air	0.825	5.63	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,3-Dichlorobenzene	ND		ug/m³ Air	1.71	6.54	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
n-Decane	**1.12**	J	ug/m³ Air	1.08	6.33	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,4-Dichlorobenzene	ND		ug/m³ Air	1.40	6.54	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,2-Dichlorobenzene	ND		ug/m³ Air	2.18	6.54	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
n-Undecane	ND		ug/m³ Air	0.872	6.95	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.936	8.07	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Naphthalene	ND		ug/m³ Air	1.20	5.70	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Hexachlorobutadiene	ND		ug/m³ Air	1.80	11.6	5.44	08/29/11 19:09	GCMSR1	KRW	11H0404
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*85 %*						08/29/11 19:09	GCMSR1	KRW	11H0404
Surr: Fluorobenzene (39-111%)	*59 %*						08/29/11 19:09	GCMSR1	KRW	11H0404
Surr: Toluene-d8 (79-118%)	*98 %*						08/29/11 19:09	GCMSR1	KRW	11H0404
Surr: 1,4-Dichlorobutane (80-130%)	*97 %*						08/29/11 19:09	GCMSR1	KRW	11H0404
Surr: 4-Bromofluorobenzene (81-131%)	*103 %*						08/29/11 19:09	GCMSR1	KRW	11H0404

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ANALYTICAL REPORT

Sample ID: AUH0047-02 (B1SB-R17-VOCS - Air) **Sampled: 07/30/11 19:40**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**122**		ug/m³ Air	0.312	3.56	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Dichlorodifluoromethane	**2.76**	J	ug/m³ Air	0.582	4.98	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Chloromethane	**1.10**	J	ug/m³ Air	0.150	2.08	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.59	7.04	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Vinyl chloride	**1.22**	J	ug/m³ Air	0.373	2.57	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,3-Butadiene	ND		ug/m³ Air	0.212	2.23	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Butane	**1.53**	J	ug/m³ Air	0.219	2.39	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Bromomethane	ND		ug/m³ Air	0.620	3.91	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Chloroethane	ND		ug/m³ Air	0.329	2.66	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Acetonitrile	**0.213**	J	ug/m³ Air	0.109	1.69	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Trichlorofluoromethane	**2.30**	J	ug/m³ Air	0.402	5.66	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Acetone	**29.0**	B	ug/m³ Air	0.177	2.39	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Acrylonitrile	ND		ug/m³ Air	0.280	2.18	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
n-Pentane	**1.23**	J	ug/m³ Air	0.199	2.97	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Diethyl ether	ND		ug/m³ Air	0.243	3.05	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,1-Dichloroethene	ND		ug/m³ Air	0.239	3.99	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Methylene chloride	**0.897**	J	ug/m³ Air	0.320	3.50	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Carbon disulfide	ND		ug/m³ Air	0.704	3.14	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Allyl chloride	ND		ug/m³ Air	0.480	3.15	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.01	7.71	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.513	3.99	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,1-Dichloroethane	ND		ug/m³ Air	0.403	4.07	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.397	3.63	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Vinyl acetate	**1.49**	J	ug/m³ Air	0.695	3.54	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
2-Butanone (MEK)	**2.50**	J	ug/m³ Air	0.395	2.97	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
cis-1,2-Dichloroethene	**31.3**		ug/m³ Air	0.361	3.99	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Hexane	ND		ug/m³ Air	0.389	3.55	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Chloroform	ND		ug/m³ Air	0.406	4.92	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,2-Dichloroethane	ND		ug/m³ Air	0.283	4.07	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,1,1-Trichloroethane	ND		ug/m³ Air	0.533	5.49	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Benzene	**0.423**	J	ug/m³ Air	0.336	3.22	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Carbon tetrachloride	ND		ug/m³ Air	1.72	6.33	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Cyclohexane	ND		ug/m³ Air	0.430	3.47	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,2-Dichloropropane	ND		ug/m³ Air	0.370	4.65	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Bromodichloromethane	ND		ug/m³ Air	1.58	6.75	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Trichloroethene	**14.5**		ug/m³ Air	0.365	5.41	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Heptane	ND		ug/m³ Air	0.338	4.13	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.482	4.57	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.784	4.12	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.688	4.57	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20

ANALYTICAL REPORT

Sample ID: AUH0047-02 (B1SB-R17-VOCS - Air) - cont. **Sampled: 07/30/11 19:40**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.555	5.49	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Toluene	**2.44**	J	ug/m³ Air	0.292	3.79	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
2-Hexanone	ND		ug/m³ Air	1.05	4.12	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Chlorodibromomethane	ND		ug/m³ Air	2.10	8.58	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.774	7.74	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
n-Octane	ND		ug/m³ Air	0.482	4.70	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Tetrachloroethene	ND		ug/m³ Air	0.570	6.83	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Chlorobenzene	ND		ug/m³ Air	0.336	4.63	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Ethylbenzene	ND		ug/m³ Air	0.612	4.37	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
m-Xylene & p-Xylene	**1.52**	J	ug/m³ Air	1.34	8.74	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Bromoform	ND		ug/m³ Air	1.51	10.4	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Styrene	ND		ug/m³ Air	0.500	4.29	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.24	6.91	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
o-Xylene	ND		ug/m³ Air	0.673	4.37	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
n-Nonane	ND		ug/m³ Air	0.753	5.28	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Isopropylbenzene	ND		ug/m³ Air	0.638	4.95	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
n-Propylbenzene	ND		ug/m³ Air	0.997	4.95	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.814	4.95	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.913	4.95	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Benzyl chloride	ND		ug/m³ Air	0.764	5.21	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,3-Dichlorobenzene	ND		ug/m³ Air	1.59	6.05	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
n-Decane	**1.33**	J	ug/m³ Air	1.00	5.86	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,4-Dichlorobenzene	ND		ug/m³ Air	1.29	6.05	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,2-Dichlorobenzene	ND		ug/m³ Air	2.02	6.05	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
n-Undecane	ND		ug/m³ Air	0.808	6.44	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.867	7.47	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Naphthalene	ND		ug/m³ Air	1.11	5.28	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Hexachlorobutadiene	ND		ug/m³ Air	1.66	10.7	5.03	08/28/11 17:26	GCMSR1	KDK	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*86 %*						08/28/11 17:26	GCMSR1	KDK	11H0397
Surr: Fluorobenzene (39-111%)	*58 %*						08/28/11 17:26	GCMSR1	KDK	11H0397
Surr: Toluene-d8 (79-118%)	*95 %*						08/28/11 17:26	GCMSR1	KDK	11H0397
Surr: 1,4-Dichlorobutane (80-130%)	*97 %*						08/28/11 17:26	GCMSR1	KDK	11H0397
Surr: 4-Bromofluorobenzene (81-131%)	*104 %*						08/28/11 17:26	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

ANALYTICAL REPORT

Sample ID: AUH0047-03 (B1SB-U19-VOCS - Air) **Sampled: 07/30/11 19:28**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**303**	RA, H2	ug/m³ Air	1.66	18.9	26.8	08/30/11 02:10	GCMSR1	KRW	11H0404
Dichlorodifluoromethane	**2.92**	J	ug/m³ Air	0.620	5.30	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Chloromethane	**1.18**	J	ug/m³ Air	0.159	2.21	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.75	7.49	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Vinyl chloride	**1.94**	J	ug/m³ Air	0.397	2.74	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,3-Butadiene	ND		ug/m³ Air	0.225	2.37	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Butane	**3.31**		ug/m³ Air	0.233	2.55	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Bromomethane	ND		ug/m³ Air	0.659	4.16	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Chloroethane	ND		ug/m³ Air	0.351	2.83	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Acetonitrile	**0.255**	J	ug/m³ Air	0.116	1.80	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Trichlorofluoromethane	**3.38**	J	ug/m³ Air	0.427	6.02	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Acetone	**42.0**	B	ug/m³ Air	0.188	2.54	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Acrylonitrile	ND		ug/m³ Air	0.298	2.33	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
n-Pentane	**2.45**	J	ug/m³ Air	0.212	3.16	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Diethyl ether	ND		ug/m³ Air	0.258	3.25	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,1-Dichloroethene	ND		ug/m³ Air	0.255	4.25	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Methylene chloride	**1.85**	J	ug/m³ Air	0.341	3.72	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Carbon disulfide	**0.943**	J	ug/m³ Air	0.749	3.34	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Allyl chloride	ND		ug/m³ Air	0.511	3.35	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.08	8.21	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
trans-1,2-Dichloroethene	**0.758**	J	ug/m³ Air	0.546	4.25	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,1-Dichloroethane	ND		ug/m³ Air	0.429	4.34	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.423	3.86	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Vinyl acetate	**1.21**	J	ug/m³ Air	0.739	3.77	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
2-Butanone (MEK)	**3.59**		ug/m³ Air	0.420	3.16	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
cis-1,2-Dichloroethene	**50.9**		ug/m³ Air	0.384	4.25	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Hexane	**0.876**	J	ug/m³ Air	0.414	3.78	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Chloroform	ND		ug/m³ Air	0.432	5.23	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,2-Dichloroethane	ND		ug/m³ Air	0.301	4.34	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,1,1-Trichloroethane	ND		ug/m³ Air	0.567	5.85	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Benzene	**1.02**	J	ug/m³ Air	0.358	3.42	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Carbon tetrachloride	ND		ug/m³ Air	1.83	6.74	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Cyclohexane	**0.645**	J	ug/m³ Air	0.457	3.69	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,2-Dichloropropane	ND		ug/m³ Air	0.394	4.95	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Bromodichloromethane	ND		ug/m³ Air	1.68	7.18	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Trichloroethene	**25.3**		ug/m³ Air	0.389	5.76	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Heptane	**0.639**	J	ug/m³ Air	0.360	4.39	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.513	4.86	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.834	4.39	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.732	4.86	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa	Work Order:	AUH0047		Received:	08/03/11 09:15
13910 W 96th Terrace				Reported:	08/31/11 21:20
Lenexa, KS 66215	Project:	Bannister Complex			
Wil W. King	Project Number:	[none]			

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUH0047-03 (B1SB-U19-VOCS - Air) - cont.							**Sampled: 07/30/11 19:28**			
EPA TO15 - Volatile Organic Compounds by GC/MS - cont.										
1,1,2-Trichloroethane	ND		ug/m³ Air	0.590	5.85	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Toluene	**4.61**		ug/m³ Air	0.311	4.04	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
2-Hexanone	**1.80**	J	ug/m³ Air	1.12	4.39	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Chlorodibromomethane	ND		ug/m³ Air	2.23	9.13	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.823	8.23	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
n-Octane	ND		ug/m³ Air	0.513	5.01	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Tetrachloroethene	ND		ug/m³ Air	0.607	7.27	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Chlorobenzene	ND		ug/m³ Air	0.358	4.93	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Ethylbenzene	**0.772**	J	ug/m³ Air	0.651	4.65	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
m-Xylene & p-Xylene	**2.52**	J	ug/m³ Air	1.43	9.30	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Bromoform	ND		ug/m³ Air	1.61	11.1	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Styrene	ND		ug/m³ Air	0.532	4.56	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.38	7.35	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
o-Xylene	**0.819**	J	ug/m³ Air	0.716	4.65	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
n-Nonane	ND		ug/m³ Air	0.801	5.62	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Isopropylbenzene	ND		ug/m³ Air	0.679	5.27	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
n-Propylbenzene	ND		ug/m³ Air	1.06	5.27	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.866	5.27	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.972	5.27	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Benzyl chloride	ND		ug/m³ Air	0.813	5.55	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,3-Dichlorobenzene	ND		ug/m³ Air	1.69	6.44	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
n-Decane	**1.39**	J	ug/m³ Air	1.07	6.23	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,4-Dichlorobenzene	ND		ug/m³ Air	1.38	6.44	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,2-Dichlorobenzene	ND		ug/m³ Air	2.14	6.44	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
n-Undecane	ND		ug/m³ Air	0.860	6.85	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.922	7.95	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Naphthalene	ND		ug/m³ Air	1.18	5.62	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Hexachlorobutadiene	ND		ug/m³ Air	1.77	11.4	5.36	08/28/11 18:28	GCMSR1	KDK	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*83 %*						08/28/11 18:28	GCMSR1	KDK	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*80 %*	*RA, H2*					08/30/11 02:10	GCMSR1	KRW	11H0404
Surr: Fluorobenzene (39-111%)	*60 %*						08/28/11 18:28	GCMSR1	KDK	11H0397
Surr: Fluorobenzene (39-111%)	*55 %*	*RA, H2*					08/30/11 02:10	GCMSR1	KRW	11H0404
Surr: Toluene-d8 (79-118%)	*100 %*						08/28/11 18:28	GCMSR1	KDK	11H0397
Surr: Toluene-d8 (79-118%)	*102 %*	*RA, H2*					08/30/11 02:10	GCMSR1	KRW	11H0404
Surr: 1,4-Dichlorobutane (80-130%)	*103 %*						08/28/11 18:28	GCMSR1	KDK	11H0397
Surr: 1,4-Dichlorobutane (80-130%)	*107 %*	*RA, H2*					08/30/11 02:10	GCMSR1	KRW	11H0404
Surr: 4-Bromofluorobenzene (81-131%)	*110 %*						08/28/11 18:28	GCMSR1	KDK	11H0397
Surr: 4-Bromofluorobenzene (81-131%)	*110 %*	*RA, H2*					08/30/11 02:10	GCMSR1	KRW	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

ANALYTICAL REPORT

Sample ID: AUH0047-04 (B1SB-A19-VOCS - Air) **Sampled: 07/30/11 19:51**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**181**		ug/m³ Air	0.326	3.72	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Dichlorodifluoromethane	**2.52**	J	ug/m³ Air	0.609	5.20	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Chloromethane	**1.05**	J	ug/m³ Air	0.156	2.17	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.70	7.36	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Vinyl chloride	ND		ug/m³ Air	0.390	2.69	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,3-Butadiene	ND		ug/m³ Air	0.221	2.33	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Butane	**1.23**	J	ug/m³ Air	0.229	2.50	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Bromomethane	ND		ug/m³ Air	0.648	4.09	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Chloroethane	ND		ug/m³ Air	0.344	2.78	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Acetonitrile	**0.198**	J	ug/m³ Air	0.114	1.77	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Trichlorofluoromethane	**1.70**	J	ug/m³ Air	0.420	5.91	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Acetone	**29.1**	B	ug/m³ Air	0.185	2.50	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Acrylonitrile	ND		ug/m³ Air	0.292	2.28	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
n-Pentane	**1.36**	J	ug/m³ Air	0.208	3.11	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Diethyl ether	ND		ug/m³ Air	0.254	3.19	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,1-Dichloroethene	ND		ug/m³ Air	0.250	4.17	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Methylene chloride	**0.347**	J	ug/m³ Air	0.334	3.66	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Carbon disulfide	ND		ug/m³ Air	0.736	3.28	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Allyl chloride	ND		ug/m³ Air	0.502	3.29	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.06	8.06	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.536	4.17	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,1-Dichloroethane	ND		ug/m³ Air	0.422	4.26	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.415	3.79	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Vinyl acetate	**1.00**	J	ug/m³ Air	0.726	3.71	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
2-Butanone (MEK)	**2.86**	J	ug/m³ Air	0.413	3.10	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.378	4.17	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Hexane	ND		ug/m³ Air	0.406	3.71	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Chloroform	ND		ug/m³ Air	0.424	5.14	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,2-Dichloroethane	**0.345**	J	ug/m³ Air	0.296	4.26	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,1,1-Trichloroethane	ND		ug/m³ Air	0.557	5.74	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Benzene	**0.371**	J	ug/m³ Air	0.351	3.36	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Carbon tetrachloride	ND		ug/m³ Air	1.80	6.62	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Cyclohexane	ND		ug/m³ Air	0.449	3.62	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,2-Dichloropropane	ND		ug/m³ Air	0.387	4.86	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Bromodichloromethane	ND		ug/m³ Air	1.65	7.05	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Trichloroethene	**1.10**	J	ug/m³ Air	0.382	5.65	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Heptane	ND		ug/m³ Air	0.354	4.31	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.504	4.78	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
4-Methyl-2-pentanone (MIBK)	**0.959**	J	ug/m³ Air	0.819	4.31	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.719	4.78	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:20

ANALYTICAL REPORT

Sample ID: AUH0047-04 (B1SB-AI9-VOCS - Air) - cont. **Sampled: 07/30/11 19:51**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.580	5.74	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Toluene	**3.23**	J	ug/m³ Air	0.305	3.97	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
2-Hexanone	ND		ug/m³ Air	1.10	4.31	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Chlorodibromomethane	ND		ug/m³ Air	2.19	8.96	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.808	8.08	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
n-Octane	ND		ug/m³ Air	0.504	4.92	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Tetrachloroethene	ND		ug/m³ Air	0.596	7.14	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Chlorobenzene	ND		ug/m³ Air	0.351	4.84	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Ethylbenzene	**0.827**	J	ug/m³ Air	0.640	4.57	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
m-Xylene & p-Xylene	**2.08**	J	ug/m³ Air	1.40	9.14	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Bromoform	ND		ug/m³ Air	1.58	10.9	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Styrene	ND		ug/m³ Air	0.522	4.48	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.34	7.22	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
o-Xylene	ND		ug/m³ Air	0.704	4.57	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
n-Nonane	ND		ug/m³ Air	0.787	5.52	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Isopropylbenzene	ND		ug/m³ Air	0.667	5.17	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
n-Propylbenzene	ND		ug/m³ Air	1.04	5.17	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.851	5.17	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.954	5.17	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Benzyl chloride	ND		ug/m³ Air	0.798	5.45	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,3-Dichlorobenzene	ND		ug/m³ Air	1.66	6.33	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
n-Decane	ND		ug/m³ Air	1.05	6.12	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,4-Dichlorobenzene	ND		ug/m³ Air	1.35	6.33	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,2-Dichlorobenzene	ND		ug/m³ Air	2.11	6.33	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
n-Undecane	**1.46**	J	ug/m³ Air	0.844	6.73	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.906	7.81	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Naphthalene	**1.70**	J	ug/m³ Air	1.16	5.52	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Hexachlorobutadiene	ND		ug/m³ Air	1.74	11.2	5.26	08/28/11 19:29	GCMSR1	KDK	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*83 %*						08/28/11 19:29	GCMSR1	KDK	11H0397
Surr: Fluorobenzene (39-111%)	*58 %*						08/28/11 19:29	GCMSR1	KDK	11H0397
Surr: Toluene-d8 (79-118%)	*94 %*						08/28/11 19:29	GCMSR1	KDK	11H0397
Surr: 1,4-Dichlorobutane (80-130%)	*104 %*						08/28/11 19:29	GCMSR1	KDK	11H0397
Surr: 4-Bromofluorobenzene (81-131%)	*107 %*						08/28/11 19:29	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

ANALYTICAL REPORT

Sample ID: AUH0047-05 (B2B-OD8-VOCS - Air) **Sampled: 07/30/11 19:30**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**22.7**		ug/m³ Air	0.330	3.77	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Dichlorodifluoromethane	**2.53**	J	ug/m³ Air	0.617	5.27	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Chloromethane	**0.932**	J	ug/m³ Air	0.158	2.20	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.74	7.45	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Vinyl chloride	ND		ug/m³ Air	0.395	2.72	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,3-Butadiene	ND		ug/m³ Air	0.224	2.36	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Butane	**3.16**		ug/m³ Air	0.232	2.53	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Bromomethane	ND		ug/m³ Air	0.656	4.14	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Chloroethane	ND		ug/m³ Air	0.349	2.81	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Acetonitrile	**0.155**	J	ug/m³ Air	0.115	1.79	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Trichlorofluoromethane	**1.80**	J	ug/m³ Air	0.425	5.99	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Acetone	**25.5**	B	ug/m³ Air	0.187	2.53	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Acrylonitrile	ND		ug/m³ Air	0.296	2.31	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
n-Pentane	**2.26**	J	ug/m³ Air	0.211	3.15	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Diethyl ether	ND		ug/m³ Air	0.257	3.23	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,1-Dichloroethene	ND		ug/m³ Air	0.254	4.23	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Methylene chloride	**0.496**	J	ug/m³ Air	0.339	3.70	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Carbon disulfide	ND		ug/m³ Air	0.745	3.32	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Allyl chloride	ND		ug/m³ Air	0.509	3.34	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.07	8.17	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.543	4.23	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,1-Dichloroethane	ND		ug/m³ Air	0.427	4.31	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.421	3.84	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Vinyl acetate	**0.794**	J	ug/m³ Air	0.736	3.75	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
2-Butanone (MEK)	**3.00**	J	ug/m³ Air	0.418	3.14	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.382	4.23	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Hexane	ND		ug/m³ Air	0.411	3.76	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Chloroform	**1.07**	J	ug/m³ Air	0.429	5.20	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,2-Dichloroethane	ND		ug/m³ Air	0.300	4.31	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,1,1-Trichloroethane	ND		ug/m³ Air	0.564	5.82	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Benzene	ND		ug/m³ Air	0.356	3.41	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Carbon tetrachloride	ND		ug/m³ Air	1.82	6.71	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Cyclohexane	ND		ug/m³ Air	0.455	3.67	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,2-Dichloropropane	ND		ug/m³ Air	0.392	4.93	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Bromodichloromethane	ND		ug/m³ Air	1.67	7.14	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Trichloroethene	**1.65**	J	ug/m³ Air	0.387	5.73	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Heptane	ND		ug/m³ Air	0.358	4.37	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.510	4.84	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.830	4.37	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.728	4.84	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

ANALYTICAL REPORT

Sample ID: AUH0047-05 (B2B-OD8-VOCS - Air) - cont. **Sampled: 07/30/11 19:30**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.587	5.82	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Toluene	**3.49**	J	ug/m³ Air	0.309	4.02	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
2-Hexanone	ND		ug/m³ Air	1.11	4.37	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Chlorodibromomethane	ND		ug/m³ Air	2.22	9.08	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.819	8.19	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
n-Octane	ND		ug/m³ Air	0.510	4.98	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Tetrachloroethene	ND		ug/m³ Air	0.604	7.23	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Chlorobenzene	ND		ug/m³ Air	0.356	4.91	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Ethylbenzene	**1.27**	J	ug/m³ Air	0.648	4.63	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
m-Xylene & p-Xylene	**3.33**	J	ug/m³ Air	1.42	9.26	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Bromoform	ND		ug/m³ Air	1.60	11.0	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Styrene	ND		ug/m³ Air	0.529	4.54	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.37	7.32	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
o-Xylene	**0.882**	J	ug/m³ Air	0.713	4.63	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
n-Nonane	ND		ug/m³ Air	0.797	5.59	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Isopropylbenzene	ND		ug/m³ Air	0.676	5.24	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
n-Propylbenzene	ND		ug/m³ Air	1.06	5.24	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.862	5.24	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.967	5.24	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Benzyl chloride	ND		ug/m³ Air	0.808	5.52	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,3-Dichlorobenzene	ND		ug/m³ Air	1.68	6.41	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
n-Decane	**1.18**	J	ug/m³ Air	1.06	6.20	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,4-Dichlorobenzene	ND		ug/m³ Air	1.37	6.41	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,2-Dichlorobenzene	ND		ug/m³ Air	2.13	6.41	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
n-Undecane	**1.22**	J	ug/m³ Air	0.855	6.81	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.918	7.91	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Naphthalene	**1.35**	J	ug/m³ Air	1.17	5.59	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Hexachlorobutadiene	ND		ug/m³ Air	1.76	11.4	5.33	08/29/11 20:09	GCMSR1	KRW	11H0404
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*79 %*						08/29/11 20:09	GCMSR1	KRW	11H0404
Surr: Fluorobenzene (39-111%)	*55 %*						08/29/11 20:09	GCMSR1	KRW	11H0404
Surr: Toluene-d8 (79-118%)	*98 %*						08/29/11 20:09	GCMSR1	KRW	11H0404
Surr: 1,4-Dichlorobutane (80-130%)	*99 %*						08/29/11 20:09	GCMSR1	KRW	11H0404
Surr: 4-Bromofluorobenzene (81-131%)	*106 %*						08/29/11 20:09	GCMSR1	KRW	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

ANALYTICAL REPORT

Sample ID: AUH0047-06 (B1SB-P25-VOCS - Air) **Sampled: 07/30/11 19:17**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**80.0**		ug/m³ Air	0.329	3.76	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Dichlorodifluoromethane	**7.42**		ug/m³ Air	0.615	5.26	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Chloromethane	**0.981**	J	ug/m³ Air	0.158	2.20	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.73	7.43	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Vinyl chloride	ND		ug/m³ Air	0.394	2.72	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,3-Butadiene	ND		ug/m³ Air	0.223	2.35	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Butane	**1.35**	J	ug/m³ Air	0.231	2.53	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Bromomethane	ND		ug/m³ Air	0.654	4.13	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Chloroethane	ND		ug/m³ Air	0.348	2.81	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Acetonitrile	**0.183**	J	ug/m³ Air	0.115	1.79	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Trichlorofluoromethane	**3.96**	J	ug/m³ Air	0.424	5.97	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Acetone	**37.1**	B	ug/m³ Air	0.187	2.53	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Acrylonitrile	ND		ug/m³ Air	0.295	2.31	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
n-Pentane	**2.00**	J	ug/m³ Air	0.210	3.14	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Diethyl ether	ND		ug/m³ Air	0.256	3.22	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,1-Dichloroethene	ND		ug/m³ Air	0.253	4.22	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Methylene chloride	**0.456**	J	ug/m³ Air	0.338	3.69	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Carbon disulfide	ND		ug/m³ Air	0.743	3.31	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Allyl chloride	ND		ug/m³ Air	0.507	3.33	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.07	8.15	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.542	4.22	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,1-Dichloroethane	ND		ug/m³ Air	0.426	4.30	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.420	3.83	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Vinyl acetate	**0.745**	J	ug/m³ Air	0.734	3.74	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
2-Butanone (MEK)	**3.67**		ug/m³ Air	0.417	3.14	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
cis-1,2-Dichloroethene	**2.26**	J	ug/m³ Air	0.381	4.22	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Hexane	ND		ug/m³ Air	0.410	3.75	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Chloroform	ND		ug/m³ Air	0.428	5.19	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,2-Dichloroethane	ND		ug/m³ Air	0.299	4.30	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,1,1-Trichloroethane	ND		ug/m³ Air	0.563	5.80	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Benzene	ND		ug/m³ Air	0.355	3.40	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Carbon tetrachloride	ND		ug/m³ Air	1.82	6.69	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Cyclohexane	ND		ug/m³ Air	0.454	3.66	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,2-Dichloropropane	ND		ug/m³ Air	0.391	4.91	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Bromodichloromethane	ND		ug/m³ Air	1.67	7.12	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Trichloroethene	**3.58**	J	ug/m³ Air	0.386	5.71	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Heptane	ND		ug/m³ Air	0.357	4.36	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.509	4.83	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.828	4.36	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.726	4.83	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397

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ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUH0047-06 (B1SB-P25-VOCS - Air) - cont.							**Sampled: 07/30/11 19:17**			
EPA TO15 - Volatile Organic Compounds by GC/MS - cont.										
1,1,2-Trichloroethane	ND		ug/m³ Air	0.586	5.80	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Toluene	**7.26**		ug/m³ Air	0.309	4.01	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
2-Hexanone	ND		ug/m³ Air	1.11	4.36	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Chlorodibromomethane	ND		ug/m³ Air	2.21	9.06	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.817	8.17	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
n-Octane	ND		ug/m³ Air	0.509	4.97	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Tetrachloroethene	ND		ug/m³ Air	0.602	7.21	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Chlorobenzene	ND		ug/m³ Air	0.355	4.89	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Ethylbenzene	**5.34**		ug/m³ Air	0.646	4.62	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
m-Xylene & p-Xylene	**16.3**		ug/m³ Air	1.42	9.23	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Bromoform	ND		ug/m³ Air	1.60	11.0	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Styrene	ND		ug/m³ Air	0.528	4.53	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.36	7.30	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
o-Xylene	**4.40**	J	ug/m³ Air	0.711	4.62	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
n-Nonane	**0.996**	J	ug/m³ Air	0.795	5.58	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Isopropylbenzene	ND		ug/m³ Air	0.674	5.23	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
n-Propylbenzene	ND		ug/m³ Air	1.05	5.23	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.860	5.23	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.964	5.23	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Benzyl chloride	ND		ug/m³ Air	0.806	5.50	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,3-Dichlorobenzene	ND		ug/m³ Air	1.67	6.39	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
n-Decane	**1.52**	J	ug/m³ Air	1.06	6.19	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,4-Dichlorobenzene	ND		ug/m³ Air	1.36	6.39	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,2-Dichlorobenzene	ND		ug/m³ Air	2.13	6.39	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
n-Undecane	**1.01**	J	ug/m³ Air	0.853	6.80	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.915	7.89	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Naphthalene	ND		ug/m³ Air	1.17	5.57	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Hexachlorobutadiene	ND		ug/m³ Air	1.76	11.3	5.32	08/28/11 22:33	GCMSR1	KDK	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*81 %*						08/28/11 22:33	GCMSR1	KDK	11H0397
Surr: Fluorobenzene (39-111%)	*58 %*						08/28/11 22:33	GCMSR1	KDK	11H0397
Surr: Toluene-d8 (79-118%)	*98 %*						08/28/11 22:33	GCMSR1	KDK	11H0397
Surr: 1,4-Dichlorobutane (80-130%)	*105 %*						08/28/11 22:33	GCMSR1	KDK	11H0397
Surr: 4-Bromofluorobenzene (81-131%)	*110 %*						08/28/11 22:33	GCMSR1	KDK	11H0397

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ANALYTICAL REPORT

Sample ID: AUH0047-07 (B1SB-W17-VOCS - Air) **Sampled: 07/30/11 19:32**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**124**		ug/m³ Air	0.314	3.59	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Dichlorodifluoromethane	**2.85**	J	ug/m³ Air	0.587	5.02	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Chloromethane	**1.02**	J	ug/m³ Air	0.151	2.10	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.61	7.10	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Vinyl chloride	**1.10**	J	ug/m³ Air	0.376	2.59	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,3-Butadiene	ND		ug/m³ Air	0.213	2.25	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Butane	**1.67**	J	ug/m³ Air	0.221	2.41	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Bromomethane	ND		ug/m³ Air	0.625	3.94	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Chloroethane	ND		ug/m³ Air	0.332	2.68	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Acetonitrile	**0.198**	J	ug/m³ Air	0.110	1.70	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Trichlorofluoromethane	**2.31**	J	ug/m³ Air	0.405	5.70	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Acetone	**25.2**	B	ug/m³ Air	0.178	2.41	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Acrylonitrile	ND		ug/m³ Air	0.282	2.20	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
n-Pentane	**1.44**	J	ug/m³ Air	0.201	3.00	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Diethyl ether	ND		ug/m³ Air	0.245	3.08	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,1-Dichloroethene	ND		ug/m³ Air	0.241	4.02	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Methylene chloride	**0.919**	J	ug/m³ Air	0.323	3.53	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Carbon disulfide	ND		ug/m³ Air	0.710	3.16	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Allyl chloride	ND		ug/m³ Air	0.484	3.18	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.02	7.78	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.517	4.02	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,1-Dichloroethane	ND		ug/m³ Air	0.407	4.11	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.401	3.66	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Vinyl acetate	**0.709**	J	ug/m³ Air	0.701	3.57	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
2-Butanone (MEK)	**1.80**	J	ug/m³ Air	0.398	2.99	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
cis-1,2-Dichloroethene	**28.4**		ug/m³ Air	0.364	4.02	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Hexane	ND		ug/m³ Air	0.392	3.58	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Chloroform	ND		ug/m³ Air	0.409	4.96	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,2-Dichloroethane	ND		ug/m³ Air	0.286	4.11	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,1,1-Trichloroethane	ND		ug/m³ Air	0.537	5.54	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Benzene	**0.629**	J	ug/m³ Air	0.339	3.24	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Carbon tetrachloride	ND		ug/m³ Air	1.74	6.39	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Cyclohexane	ND		ug/m³ Air	0.433	3.49	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,2-Dichloropropane	ND		ug/m³ Air	0.373	4.69	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Bromodichloromethane	ND		ug/m³ Air	1.59	6.80	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Trichloroethene	**13.8**		ug/m³ Air	0.368	5.45	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Heptane	ND		ug/m³ Air	0.341	4.16	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.486	4.61	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.790	4.16	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.693	4.61	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397

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ANALYTICAL REPORT

Sample ID: AUH0047-07 (B1SB-W17-VOCS - Air) - cont. **Sampled: 07/30/11 19:32**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.559	5.54	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Toluene	**4.42**		ug/m³ Air	0.295	3.83	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
2-Hexanone	ND		ug/m³ Air	1.06	4.16	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Chlorodibromomethane	ND		ug/m³ Air	2.11	8.65	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.780	7.80	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
n-Octane	ND		ug/m³ Air	0.486	4.74	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Tetrachloroethene	ND		ug/m³ Air	0.575	6.88	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Chlorobenzene	ND		ug/m³ Air	0.339	4.67	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Ethylbenzene	ND		ug/m³ Air	0.617	4.41	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
m-Xylene & p-Xylene	**1.71**	J	ug/m³ Air	1.35	8.81	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Bromoform	ND		ug/m³ Air	1.53	10.5	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Styrene	ND		ug/m³ Air	0.504	4.32	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.25	6.97	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
o-Xylene	ND		ug/m³ Air	0.679	4.41	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
n-Nonane	ND		ug/m³ Air	0.759	5.32	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Isopropylbenzene	ND		ug/m³ Air	0.644	4.99	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
n-Propylbenzene	ND		ug/m³ Air	1.01	4.99	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.821	4.99	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.921	4.99	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Benzyl chloride	ND		ug/m³ Air	0.770	5.26	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,3-Dichlorobenzene	ND		ug/m³ Air	1.60	6.10	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
n-Decane	**1.27**	J	ug/m³ Air	1.01	5.91	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,4-Dichlorobenzene	ND		ug/m³ Air	1.30	6.10	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,2-Dichlorobenzene	ND		ug/m³ Air	2.03	6.10	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
n-Undecane	ND		ug/m³ Air	0.814	6.49	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.874	7.53	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Naphthalene	ND		ug/m³ Air	1.12	5.32	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Hexachlorobutadiene	ND		ug/m³ Air	1.68	10.8	5.08	08/28/11 23:34	GCMSR1	KDK	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*82 %*						08/28/11 23:34	GCMSR1	KDK	11H0397
Surr: Fluorobenzene (39-111%)	*57 %*						08/28/11 23:34	GCMSR1	KDK	11H0397
Surr: Toluene-d8 (79-118%)	*98 %*						08/28/11 23:34	GCMSR1	KDK	11H0397
Surr: 1,4-Dichlorobutane (80-130%)	*101 %*						08/28/11 23:34	GCMSR1	KDK	11H0397
Surr: 4-Bromofluorobenzene (81-131%)	*108 %*						08/28/11 23:34	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20

ANALYTICAL REPORT

Sample ID: AUH0047-08 (B2B-OB27-VOCS - Air) **Sampled: 07/30/11 19:08**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**13.3**		ug/m³ Air	0.338	3.86	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Dichlorodifluoromethane	**8.51**		ug/m³ Air	0.631	5.39	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Chloromethane	**0.997**	J	ug/m³ Air	0.162	2.25	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.80	7.63	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Vinyl chloride	ND		ug/m³ Air	0.404	2.79	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,3-Butadiene	ND		ug/m³ Air	0.229	2.41	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Butane	**1.81**	J	ug/m³ Air	0.237	2.59	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Bromomethane	ND		ug/m³ Air	0.671	4.24	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Chloroethane	ND		ug/m³ Air	0.357	2.88	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Acetonitrile	**0.176**	J	ug/m³ Air	0.118	1.83	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Trichlorofluoromethane	**2.20**	J	ug/m³ Air	0.435	6.13	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Acetone	**34.6**	B	ug/m³ Air	0.192	2.59	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Acrylonitrile	ND		ug/m³ Air	0.303	2.37	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
n-Pentane	**5.29**		ug/m³ Air	0.216	3.22	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Diethyl ether	ND		ug/m³ Air	0.263	3.31	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,1-Dichloroethene	ND		ug/m³ Air	0.260	4.33	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Methylene chloride	ND		ug/m³ Air	0.347	3.79	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Carbon disulfide	ND		ug/m³ Air	0.763	3.40	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Allyl chloride	ND		ug/m³ Air	0.521	3.41	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.10	8.36	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.556	4.33	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,1-Dichloroethane	ND		ug/m³ Air	0.437	4.42	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.431	3.93	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Vinyl acetate	**1.06**	J	ug/m³ Air	0.753	3.84	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
2-Butanone (MEK)	**2.77**	J	ug/m³ Air	0.428	3.22	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.391	4.33	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Hexane	ND		ug/m³ Air	0.421	3.85	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Chloroform	ND		ug/m³ Air	0.439	5.33	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,2-Dichloroethane	ND		ug/m³ Air	0.307	4.42	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,1,1-Trichloroethane	ND		ug/m³ Air	0.577	5.95	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Benzene	**0.368**	J	ug/m³ Air	0.364	3.49	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Carbon tetrachloride	ND		ug/m³ Air	1.87	6.86	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Cyclohexane	ND		ug/m³ Air	0.466	3.76	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,2-Dichloropropane	ND		ug/m³ Air	0.401	5.04	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Bromodichloromethane	ND		ug/m³ Air	1.71	7.31	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Trichloroethene	**2.11**	J	ug/m³ Air	0.396	5.86	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Heptane	ND		ug/m³ Air	0.367	4.47	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.522	4.95	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.849	4.47	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.745	4.95	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

ANALYTICAL REPORT

Sample ID: AUH0047-08 (B2B-OB27-VOCS - Air) - cont. **Sampled: 07/30/11 19:08**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.601	5.95	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Toluene	**2.95**	J	ug/m³ Air	0.317	4.11	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
2-Hexanone	ND		ug/m³ Air	1.14	4.47	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Chlorodibromomethane	ND		ug/m³ Air	2.27	9.29	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.838	8.38	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
n-Octane	ND		ug/m³ Air	0.522	5.10	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Tetrachloroethene	ND		ug/m³ Air	0.618	7.40	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Chlorobenzene	ND		ug/m³ Air	0.364	5.02	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Ethylbenzene	ND		ug/m³ Air	0.663	4.74	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
m-Xylene & p-Xylene	**1.84**	J	ug/m³ Air	1.45	9.47	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Bromoform	ND		ug/m³ Air	1.64	11.3	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Styrene	ND		ug/m³ Air	0.541	4.65	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.42	7.49	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
o-Xylene	ND		ug/m³ Air	0.729	4.74	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
n-Nonane	ND		ug/m³ Air	0.815	5.72	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Isopropylbenzene	ND		ug/m³ Air	0.692	5.36	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
n-Propylbenzene	ND		ug/m³ Air	1.08	5.36	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.882	5.36	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.989	5.36	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Benzyl chloride	ND		ug/m³ Air	0.827	5.65	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,3-Dichlorobenzene	ND		ug/m³ Air	1.72	6.56	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
n-Decane	**1.54**	J	ug/m³ Air	1.09	6.35	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,4-Dichlorobenzene	ND		ug/m³ Air	1.40	6.56	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,2-Dichlorobenzene	ND		ug/m³ Air	2.18	6.56	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
n-Undecane	**0.966**	J	ug/m³ Air	0.875	6.97	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.939	8.10	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Naphthalene	ND		ug/m³ Air	1.20	5.72	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Hexachlorobutadiene	ND		ug/m³ Air	1.80	11.6	5.45	08/29/11 00:34	GCMSR1	KDK	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*80 %*						08/29/11 00:34	GCMSR1	KDK	11H0397
Surr: Fluorobenzene (39-111%)	*58 %*						08/29/11 00:34	GCMSR1	KDK	11H0397
Surr: Toluene-d8 (79-118%)	*99 %*						08/29/11 00:34	GCMSR1	KDK	11H0397
Surr: 1,4-Dichlorobutane (80-130%)	*106 %*						08/29/11 00:34	GCMSR1	KDK	11H0397
Surr: 4-Bromofluorobenzene (81-131%)	*107 %*						08/29/11 00:34	GCMSR1	KDK	11H0397

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ANALYTICAL REPORT

Sample ID: AUH0047-09 (B1SB-E23-VOCS - Air) **Sampled: 07/30/11 18:36**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**29.2**		ug/m³ Air	0.325	3.72	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Dichlorodifluoromethane	**2.59**	J	ug/m³ Air	0.608	5.20	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Chloromethane	**1.05**	J	ug/m³ Air	0.156	2.17	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2.70	7.35	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Vinyl chloride	ND		ug/m³ Air	0.389	2.69	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,3-Butadiene	ND		ug/m³ Air	0.221	2.32	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Butane	**1.48**	J	ug/m³ Air	0.229	2.50	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Bromomethane	ND		ug/m³ Air	0.647	4.08	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Chloroethane	**0.394**	J	ug/m³ Air	0.344	2.77	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Acetonitrile	**0.275**	J	ug/m³ Air	0.114	1.76	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Trichlorofluoromethane	**1.71**	J	ug/m³ Air	0.419	5.90	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Acetone	**64.6**	B	ug/m³ Air	0.185	2.50	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Acrylonitrile	ND		ug/m³ Air	0.292	2.28	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
n-Pentane	1.99	J	ug/m³ Air	0.208	3.10	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Diethyl ether	ND		ug/m³ Air	0.253	3.19	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,1-Dichloroethene	ND		ug/m³ Air	0.250	4.17	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Methylene chloride	**0.460**	J	ug/m³ Air	0.334	3.65	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Carbon disulfide	ND		ug/m³ Air	0.735	3.27	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Allyl chloride	ND		ug/m³ Air	0.502	3.29	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1.06	8.05	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.535	4.17	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,1-Dichloroethane	ND		ug/m³ Air	0.421	4.25	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.415	3.79	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Vinyl acetate	**0.999**	J	ug/m³ Air	0.725	3.70	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
2-Butanone (MEK)	**9.51**		ug/m³ Air	0.412	3.10	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.377	4.17	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Hexane	ND		ug/m³ Air	0.406	3.70	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Chloroform	**0.485**	J	ug/m³ Air	0.423	5.13	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,2-Dichloroethane	ND		ug/m³ Air	0.296	4.25	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,1,1-Trichloroethane	ND		ug/m³ Air	0.556	5.73	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Benzene	**0.547**	J	ug/m³ Air	0.351	3.36	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Carbon tetrachloride	ND		ug/m³ Air	1.80	6.61	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Cyclohexane	ND		ug/m³ Air	0.449	3.62	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,2-Dichloropropane	ND		ug/m³ Air	0.386	4.86	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Bromodichloromethane	ND		ug/m³ Air	1.65	7.04	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Trichloroethene	**11.4**		ug/m³ Air	0.381	5.65	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Heptane	ND		ug/m³ Air	0.353	4.31	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.503	4.77	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
4-Methyl-2-pentanone (MIBK)	**1.20**	J	ug/m³ Air	0.818	4.30	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.718	4.77	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20

ANALYTICAL REPORT

Sample ID: AUH0047-09 (B1SB-E23-VOCS - Air) - cont. **Sampled: 07/30/11 18:36**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.579	5.73	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Toluene	**39.9**		ug/m³ Air	0.305	3.96	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
2-Hexanone	**1.33**	J	ug/m³ Air	1.10	4.30	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Chlorodibromomethane	ND		ug/m³ Air	2.19	8.95	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.807	8.07	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
n-Octane	ND		ug/m³ Air	0.503	4.91	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Tetrachloroethene	ND		ug/m³ Air	0.595	7.13	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Chlorobenzene	ND		ug/m³ Air	0.351	4.84	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Ethylbenzene	**1.92**	J	ug/m³ Air	0.639	4.56	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
m-Xylene & p-Xylene	**6.45**	J	ug/m³ Air	1.40	9.13	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Bromoform	ND		ug/m³ Air	1.58	10.9	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Styrene	**1.46**	J	ug/m³ Air	0.521	4.48	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2.33	7.21	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
o-Xylene	**2.20**	J	ug/m³ Air	0.703	4.56	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
n-Nonane	**1.35**	J	ug/m³ Air	0.786	5.51	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Isopropylbenzene	ND		ug/m³ Air	0.666	5.17	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
n-Propylbenzene	ND		ug/m³ Air	1.04	5.17	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.850	5.17	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,2,4-Trimethylbenzene	**1.16**	J	ug/m³ Air	0.953	5.17	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Benzyl chloride	ND		ug/m³ Air	0.797	5.44	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,3-Dichlorobenzene	**6.29**	J	ug/m³ Air	1.66	6.32	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
n-Decane	**3.09**	J	ug/m³ Air	1.05	6.12	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,4-Dichlorobenzene	**6.56**		ug/m³ Air	1.35	6.32	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,2-Dichlorobenzene	ND		ug/m³ Air	2.10	6.32	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
n-Undecane	**4.43**	J	ug/m³ Air	0.843	6.72	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.905	7.80	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Naphthalene	**9.74**		ug/m³ Air	1.16	5.51	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Hexachlorobutadiene	ND		ug/m³ Air	1.74	11.2	5.25	08/29/11 01:35	GCMSR1	KDK	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*78 %*						08/29/11 01:35	GCMSR1	KDK	11H0397
Surr: Fluorobenzene (39-111%)	*54 %*						08/29/11 01:35	GCMSR1	KDK	11H0397
Surr: Toluene-d8 (79-118%)	*99 %*						08/29/11 01:35	GCMSR1	KDK	11H0397
Surr: 1,4-Dichlorobutane (80-130%)	*104 %*						08/29/11 01:35	GCMSR1	KDK	11H0397
Surr: 4-Bromofluorobenzene (81-131%)	*113 %*						08/29/11 01:35	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUH0047-10 (TRIP BLANK - Air)							**Sampled: 07/30/11**			
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0.124	1.41	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Dichlorodifluoromethane	ND		ug/m³ Air	0.231	1.98	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Chloromethane	ND		ug/m³ Air	0.0595	0.826	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	1.03	2.80	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Vinyl chloride	ND		ug/m³ Air	0.148	1.02	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,3-Butadiene	ND		ug/m³ Air	0.0841	0.885	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Butane	ND		ug/m³ Air	0.0870	0.951	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Bromomethane	ND		ug/m³ Air	0.246	1.55	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Chloroethane	ND		ug/m³ Air	0.131	1.06	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Acetonitrile	ND		ug/m³ Air	0.0433	0.672	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Trichlorofluoromethane	ND		ug/m³ Air	0.160	2.25	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Acetone	ND		ug/m³ Air	0.0703	0.950	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Acrylonitrile	ND		ug/m³ Air	0.111	0.868	2	08/29/11 02:34	GCMSR1	KDK	11H0397
n-Pentane	ND		ug/m³ Air	0.0791	1.18	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Diethyl ether	ND		ug/m³ Air	0.0964	1.21	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,1-Dichloroethene	ND		ug/m³ Air	0.0952	1.59	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Methylene chloride	ND		ug/m³ Air	0.127	1.39	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Carbon disulfide	ND		ug/m³ Air	0.280	1.25	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Allyl chloride	ND		ug/m³ Air	0.191	1.25	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.403	3.07	2	08/29/11 02:34	GCMSR1	KDK	11H0397
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.204	1.59	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,1-Dichloroethane	ND		ug/m³ Air	0.160	1.62	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.158	1.44	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Vinyl acetate	ND		ug/m³ Air	0.276	1.41	2	08/29/11 02:34	GCMSR1	KDK	11H0397
2-Butanone (MEK)	ND		ug/m³ Air	0.157	1.18	2	08/29/11 02:34	GCMSR1	KDK	11H0397
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.144	1.59	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Hexane	ND		ug/m³ Air	0.154	1.41	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Chloroform	ND		ug/m³ Air	0.161	1.95	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,2-Dichloroethane	ND		ug/m³ Air	0.113	1.62	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,1,1-Trichloroethane	ND		ug/m³ Air	0.212	2.18	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Benzene	ND		ug/m³ Air	0.134	1.28	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Carbon tetrachloride	ND		ug/m³ Air	0.684	2.52	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Cyclohexane	ND		ug/m³ Air	0.171	1.38	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,2-Dichloropropane	ND		ug/m³ Air	0.147	1.85	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Bromodichloromethane	ND		ug/m³ Air	0.629	2.68	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Trichloroethene	ND		ug/m³ Air	0.145	2.15	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Heptane	ND		ug/m³ Air	0.134	1.64	2	08/29/11 02:34	GCMSR1	KDK	11H0397
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.192	1.82	2	08/29/11 02:34	GCMSR1	KDK	11H0397
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.311	1.64	2	08/29/11 02:34	GCMSR1	KDK	11H0397
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.273	1.82	2	08/29/11 02:34	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

ANALYTICAL REPORT

Sample ID: AUH0047-10 (TRIP BLANK - Air) - cont. **Sampled: 07/30/11**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.220	2.18	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Toluene	ND		ug/m³ Air	0.116	1.51	2	08/29/11 02:34	GCMSR1	KDK	11H0397
2-Hexanone	ND		ug/m³ Air	0.418	1.64	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Chlorodibromomethane	ND		ug/m³ Air	0.833	3.41	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.307	3.07	2	08/29/11 02:34	GCMSR1	KDK	11H0397
n-Octane	ND		ug/m³ Air	0.192	1.87	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Tetrachloroethene	ND		ug/m³ Air	0.227	2.71	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Chlorobenzene	ND		ug/m³ Air	0.134	1.84	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Ethylbenzene	ND		ug/m³ Air	0.243	1.74	2	08/29/11 02:34	GCMSR1	KDK	11H0397
m-Xylene & p-Xylene	ND		ug/m³ Air	0.533	3.47	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Bromoform	ND		ug/m³ Air	0.602	4.13	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Styrene	ND		ug/m³ Air	0.199	1.70	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.888	2.75	2	08/29/11 02:34	GCMSR1	KDK	11H0397
o-Xylene	ND		ug/m³ Air	0.267	1.74	2	08/29/11 02:34	GCMSR1	KDK	11H0397
n-Nonane	ND		ug/m³ Air	0.299	2.10	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Isopropylbenzene	ND		ug/m³ Air	0.254	1.97	2	08/29/11 02:34	GCMSR1	KDK	11H0397
n-Propylbenzene	ND		ug/m³ Air	0.396	1.97	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.323	1.97	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.363	1.97	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Benzyl chloride	ND		ug/m³ Air	0.303	2.07	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,3-Dichlorobenzene	ND		ug/m³ Air	0.630	2.40	2	08/29/11 02:34	GCMSR1	KDK	11H0397
n-Decane	ND		ug/m³ Air	0.398	2.33	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,4-Dichlorobenzene	ND		ug/m³ Air	0.513	2.40	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,2-Dichlorobenzene	ND		ug/m³ Air	0.801	2.40	2	08/29/11 02:34	GCMSR1	KDK	11H0397
n-Undecane	ND		ug/m³ Air	0.321	2.56	2	08/29/11 02:34	GCMSR1	KDK	11H0397
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.344	2.97	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Naphthalene	ND		ug/m³ Air	0.440	2.10	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Hexachlorobutadiene	ND		ug/m³ Air	0.661	4.27	2	08/29/11 02:34	GCMSR1	KDK	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*83 %*						08/29/11 02:34	GCMSR1	KDK	11H0397
Surr: Fluorobenzene (39-111%)	*58 %*						08/29/11 02:34	GCMSR1	KDK	11H0397
Surr: Toluene-d8 (79-118%)	*104 %*						08/29/11 02:34	GCMSR1	KDK	11H0397
Surr: 1,4-Dichlorobutane (80-130%)	*97 %*						08/29/11 02:34	GCMSR1	KDK	11H0397
Surr: 4-Bromofluorobenzene (81-131%)	*101 %*						08/29/11 02:34	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUH0047-11 (TRIP BLANK - Air)							**Sampled: 08/02/11**			
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0.124	1.41	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Dichlorodifluoromethane	ND		ug/m³ Air	0.231	1.98	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Chloromethane	ND		ug/m³ Air	0.0595	0.826	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	1.03	2.80	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Vinyl chloride	ND		ug/m³ Air	0.148	1.02	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,3-Butadiene	ND		ug/m³ Air	0.0841	0.885	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Butane	ND		ug/m³ Air	0.0870	0.951	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Bromomethane	ND		ug/m³ Air	0.246	1.55	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Chloroethane	ND		ug/m³ Air	0.131	1.06	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Acetonitrile	ND		ug/m³ Air	0.0433	0.672	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Trichlorofluoromethane	ND		ug/m³ Air	0.160	2.25	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Acetone	**0.156**	J, B	ug/m³ Air	0.0703	0.950	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Acrylonitrile	ND		ug/m³ Air	0.111	0.868	2	08/29/11 03:35	GCMSR1	KDK	11H0397
n-Pentane	ND		ug/m³ Air	0.0791	1.18	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Diethyl ether	ND		ug/m³ Air	0.0964	1.21	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,1-Dichloroethene	ND		ug/m³ Air	0.0952	1.59	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Methylene chloride	ND		ug/m³ Air	0.127	1.39	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Carbon disulfide	ND		ug/m³ Air	0.280	1.25	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Allyl chloride	ND		ug/m³ Air	0.191	1.25	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.403	3.07	2	08/29/11 03:35	GCMSR1	KDK	11H0397
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.204	1.59	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,1-Dichloroethane	ND		ug/m³ Air	0.160	1.62	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.158	1.44	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Vinyl acetate	ND		ug/m³ Air	0.276	1.41	2	08/29/11 03:35	GCMSR1	KDK	11H0397
2-Butanone (MEK)	ND		ug/m³ Air	0.157	1.18	2	08/29/11 03:35	GCMSR1	KDK	11H0397
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.144	1.59	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Hexane	ND		ug/m³ Air	0.154	1.41	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Chloroform	ND		ug/m³ Air	0.161	1.95	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,2-Dichloroethane	ND		ug/m³ Air	0.113	1.62	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,1,1-Trichloroethane	ND		ug/m³ Air	0.212	2.18	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Benzene	ND		ug/m³ Air	0.134	1.28	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Carbon tetrachloride	ND		ug/m³ Air	0.684	2.52	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Cyclohexane	ND		ug/m³ Air	0.171	1.38	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,2-Dichloropropane	ND		ug/m³ Air	0.147	1.85	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Bromodichloromethane	ND		ug/m³ Air	0.629	2.68	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Trichloroethene	ND		ug/m³ Air	0.145	2.15	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Heptane	ND		ug/m³ Air	0.134	1.64	2	08/29/11 03:35	GCMSR1	KDK	11H0397
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.192	1.82	2	08/29/11 03:35	GCMSR1	KDK	11H0397
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.311	1.64	2	08/29/11 03:35	GCMSR1	KDK	11H0397
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.273	1.82	2	08/29/11 03:35	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

ANALYTICAL REPORT

Sample ID: AUH0047-11 (TRIP BLANK - Air) - cont. **Sampled: 08/02/11**

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

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0.220	2.18	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Toluene	ND		ug/m³ Air	0.116	1.51	2	08/29/11 03:35	GCMSR1	KDK	11H0397
2-Hexanone	ND		ug/m³ Air	0.418	1.64	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Chlorodibromomethane	ND		ug/m³ Air	0.833	3.41	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.307	3.07	2	08/29/11 03:35	GCMSR1	KDK	11H0397
n-Octane	ND		ug/m³ Air	0.192	1.87	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Tetrachloroethene	ND		ug/m³ Air	0.227	2.71	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Chlorobenzene	ND		ug/m³ Air	0.134	1.84	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Ethylbenzene	ND		ug/m³ Air	0.243	1.74	2	08/29/11 03:35	GCMSR1	KDK	11H0397
m-Xylene & p-Xylene	ND		ug/m³ Air	0.533	3.47	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Bromoform	ND		ug/m³ Air	0.602	4.13	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Styrene	ND		ug/m³ Air	0.199	1.70	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.888	2.75	2	08/29/11 03:35	GCMSR1	KDK	11H0397
o-Xylene	ND		ug/m³ Air	0.267	1.74	2	08/29/11 03:35	GCMSR1	KDK	11H0397
n-Nonane	ND		ug/m³ Air	0.299	2.10	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Isopropylbenzene	ND		ug/m³ Air	0.254	1.97	2	08/29/11 03:35	GCMSR1	KDK	11H0397
n-Propylbenzene	ND		ug/m³ Air	0.396	1.97	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.323	1.97	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.363	1.97	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Benzyl chloride	ND		ug/m³ Air	0.303	2.07	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,3-Dichlorobenzene	ND		ug/m³ Air	0.630	2.40	2	08/29/11 03:35	GCMSR1	KDK	11H0397
n-Decane	ND		ug/m³ Air	0.398	2.33	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,4-Dichlorobenzene	ND		ug/m³ Air	0.513	2.40	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,2-Dichlorobenzene	ND		ug/m³ Air	0.801	2.40	2	08/29/11 03:35	GCMSR1	KDK	11H0397
n-Undecane	ND		ug/m³ Air	0.321	2.56	2	08/29/11 03:35	GCMSR1	KDK	11H0397
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.344	2.97	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Naphthalene	ND		ug/m³ Air	0.440	2.10	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Hexachlorobutadiene	ND		ug/m³ Air	0.661	4.27	2	08/29/11 03:35	GCMSR1	KDK	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*82 %*						08/29/11 03:35	GCMSR1	KDK	11H0397
Surr: Fluorobenzene (39-111%)	*53 %*						08/29/11 03:35	GCMSR1	KDK	11H0397
Surr: Toluene-d8 (79-118%)	*102 %*						08/29/11 03:35	GCMSR1	KDK	11H0397
Surr: 1,4-Dichlorobutane (80-130%)	*104 %*						08/29/11 03:35	GCMSR1	KDK	11H0397
Surr: 4-Bromofluorobenzene (81-131%)	*107 %*						08/29/11 03:35	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:20

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0397-BLK1 (Blank - Air)										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0.124	1.41	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Dichlorodifluoromethane	ND		ug/m³ Air	0.231	1.98	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Chloromethane	ND		ug/m³ Air	0.0595	0.826	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	1.03	2.80	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Vinyl chloride	ND		ug/m³ Air	0.148	1.02	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,3-Butadiene	ND		ug/m³ Air	0.0841	0.885	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Butane	ND		ug/m³ Air	0.0870	0.951	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Bromomethane	ND		ug/m³ Air	0.246	1.55	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Chloroethane	ND		ug/m³ Air	0.131	1.06	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Acetonitrile	ND		ug/m³ Air	0.0433	0.672	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Trichlorofluoromethane	ND		ug/m³ Air	0.160	2.25	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Acetone	**0.118**	**J**	ug/m³ Air	0.0703	0.950	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Acrylonitrile	ND		ug/m³ Air	0.111	0.868	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
n-Pentane	ND		ug/m³ Air	0.0791	1.18	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Diethyl ether	ND		ug/m³ Air	0.0964	1.21	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,1-Dichloroethene	ND		ug/m³ Air	0.0952	1.59	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Methylene chloride	ND		ug/m³ Air	0.127	1.39	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Carbon disulfide	ND		ug/m³ Air	0.280	1.25	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Allyl chloride	ND		ug/m³ Air	0.191	1.25	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.403	3.07	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.204	1.59	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,1-Dichloroethane	ND		ug/m³ Air	0.160	1.62	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.158	1.44	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Vinyl acetate	ND		ug/m³ Air	0.276	1.41	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
2-Butanone (MEK)	ND		ug/m³ Air	0.157	1.18	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.144	1.59	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Hexane	ND		ug/m³ Air	0.154	1.41	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Chloroform	ND		ug/m³ Air	0.161	1.95	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,2-Dichloroethane	ND		ug/m³ Air	0.113	1.62	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,1,1-Trichloroethane	ND		ug/m³ Air	0.212	2.18	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Benzene	ND		ug/m³ Air	0.134	1.28	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Carbon tetrachloride	ND		ug/m³ Air	0.684	2.52	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Cyclohexane	ND		ug/m³ Air	0.171	1.38	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,2-Dichloropropane	ND		ug/m³ Air	0.147	1.85	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Bromodichloromethane	ND		ug/m³ Air	0.629	2.68	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Trichloroethene	ND		ug/m³ Air	0.145	2.15	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:20

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0397-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Heptane	ND		ug/m³ Air	0.134	1.64	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.192	1.82	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.311	1.64	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
trans-1,3-Dichloropropone	ND		ug/m³ Air	0.273	1.82	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,1,2-Trichloroethane	ND		ug/m³ Air	0.220	2.18	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Toluene	ND		ug/m³ Air	0.116	1.51	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
2-Hexanone	ND		ug/m³ Air	0.418	1.64	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Chlorodibromomethane	ND		ug/m³ Air	0.833	3.41	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.307	3.07	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
n-Octane	ND		ug/m³ Air	0.192	1.87	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Tetrachloroethene	ND		ug/m³ Air	0.227	2.71	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Chlorobenzene	ND		ug/m³ Air	0.134	1.84	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Ethylbenzene	ND		ug/m³ Air	0.243	1.74	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
m-Xylene & p-Xylene	ND		ug/m³ Air	0.533	3.47	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Bromoform	ND		ug/m³ Air	0.602	4.13	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Styrene	ND		ug/m³ Air	0.199	1.70	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.888	2.75	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
o-Xylene	ND		ug/m³ Air	0.267	1.74	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
n-Nonane	ND		ug/m³ Air	0.299	2.10	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Isopropylbenzene	ND		ug/m³ Air	0.254	1.97	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
n-Propylbenzene	ND		ug/m³ Air	0.396	1.97	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.323	1.97	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.363	1.97	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Benzyl chloride	ND		ug/m³ Air	0.303	2.07	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,3-Dichlorobenzene	ND		ug/m³ Air	0.630	2.40	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
n-Decane	ND		ug/m³ Air	0.398	2.33	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,4-Dichlorobenzene	ND		ug/m³ Air	0.513	2.40	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,2-Dichlorobenzene	ND		ug/m³ Air	0.801	2.40	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
n-Undecane	ND		ug/m³ Air	0.321	2.56	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.344	2.97	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Naphthalene	ND		ug/m³ Air	0.440	2.10	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Hexachlorobutadiene	ND		ug/m³ Air	0.661	4.27	2.00	08/28/11 14:54	GCMSR1	KDK	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*92%*						08/28/11 14:54	GCMSR1	KDK	11H0397
Surr: Fluorobenzene (39-111%)	*69%*						08/28/11 14:54	GCMSR1	KDK	11H0397
Surr: Toluene-d8 (79-118%)	*98%*						08/28/11 14:54	GCMSR1	KDK	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0397-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Surr: 1,4-Dichlorobutane (80-130%)	*106%*						08/28/11 14:54	GCMSR1	KDK	11H0397
Surr: 4-Bromofluorobenzene (81-131%)	*107%*						08/28/11 14:54	GCMSR1	KDK	11H0397
Sample ID: 11H0404-BLK1 (Blank - Air)										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0.124	1.41	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Dichlorodifluoromethane	ND		ug/m³ Air	0.231	1.98	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Chloromethane	ND		ug/m³ Air	0.0595	0.826	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	1.03	2.80	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Vinyl chloride	ND		ug/m³ Air	0.148	1.02	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,3-Butadiene	ND		ug/m³ Air	0.0841	0.885	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Butane	ND		ug/m³ Air	0.0870	0.951	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Bromomethane	ND		ug/m³ Air	0.246	1.55	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Chloroethane	ND		ug/m³ Air	0.131	1.06	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Acetonitrile	ND		ug/m³ Air	0.0433	0.672	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Trichlorofluoromethane	ND		ug/m³ Air	0.160	2.25	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Acetone	**0.0907**	J	ug/m³ Air	0.0703	0.950	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Acrylonitrile	ND		ug/m³ Air	0.111	0.868	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
n-Pentane	ND		ug/m³ Air	0.0791	1.18	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Diethyl ether	ND		ug/m³ Air	0.0964	1.21	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,1-Dichloroethene	ND		ug/m³ Air	0.0952	1.59	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Methylene chloride	ND		ug/m³ Air	0.127	1.39	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Carbon disulfide	ND		ug/m³ Air	0.280	1.25	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Allyl chloride	ND		ug/m³ Air	0.191	1.25	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0.403	3.07	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
trans-1,2-Dichloroethene	ND		ug/m³ Air	0.204	1.59	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,1-Dichloroethane	ND		ug/m³ Air	0.160	1.62	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Methyl tert-Butyl Ether	ND		ug/m³ Air	0.158	1.44	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Vinyl acetate	ND		ug/m³ Air	0.276	1.41	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
2-Butanone (MEK)	ND		ug/m³ Air	0.157	1.18	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
cis-1,2-Dichloroethene	ND		ug/m³ Air	0.144	1.59	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Hexane	ND		ug/m³ Air	0.154	1.41	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Chloroform	ND		ug/m³ Air	0.161	1.95	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,2-Dichloroethane	ND		ug/m³ Air	0.113	1.62	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:20

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0404-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
1,1,1-Trichloroethane	ND		ug/m³ Air	0.212	2.18	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Benzene	ND		ug/m³ Air	0.134	1.28	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Carbon tetrachloride	ND		ug/m³ Air	0.684	2.52	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Cyclohexane	ND		ug/m³ Air	0.171	1.38	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,2-Dichloropropane	ND		ug/m³ Air	0.147	1.85	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Bromodichloromethane	ND		ug/m³ Air	0.629	2.68	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Trichloroethene	ND		ug/m³ Air	0.145	2.15	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Heptane	ND		ug/m³ Air	0.134	1.64	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
cis-1,3-Dichloropropene	ND		ug/m³ Air	0.192	1.82	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0.311	1.64	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
trans-1,3-Dichloropropene	ND		ug/m³ Air	0.273	1.82	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,1,2-Trichloroethane	ND		ug/m³ Air	0.220	2.18	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Toluene	ND		ug/m³ Air	0.116	1.51	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
2-Hexanone	ND		ug/m³ Air	0.418	1.64	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Chlorodibromomethane	ND		ug/m³ Air	0.833	3.41	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0.307	3.07	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
n-Octane	ND		ug/m³ Air	0.192	1.87	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Tetrachloroethene	ND		ug/m³ Air	0.227	2.71	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Chlorobenzene	ND		ug/m³ Air	0.134	1.84	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Ethylbenzene	ND		ug/m³ Air	0.243	1.74	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
m-Xylene & p-Xylene	ND		ug/m³ Air	0.533	3.47	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Bromoform	ND		ug/m³ Air	0.602	4.13	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Styrene	ND		ug/m³ Air	0.199	1.70	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0.888	2.75	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
o-Xylene	ND		ug/m³ Air	0.267	1.74	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
n-Nonane	ND		ug/m³ Air	0.299	2.10	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Isopropylbenzene	ND		ug/m³ Air	0.254	1.97	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
n-Propylbenzene	ND		ug/m³ Air	0.396	1.97	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0.323	1.97	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0.363	1.97	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Benzyl chloride	ND		ug/m³ Air	0.303	2.07	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,3-Dichlorobenzene	ND		ug/m³ Air	0.630	2.40	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
n-Decane	ND		ug/m³ Air	0.398	2.33	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,4-Dichlorobenzene	ND		ug/m³ Air	0.513	2.40	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
1,2-Dichlorobenzene	ND		ug/m³ Air	0.801	2.40	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
n-Undecane	ND		ug/m³ Air	0.321	2.56	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa	Work Order:	AUH0047		Received:	08/03/11 09:15
13910 W 96th Terrace				Reported:	08/31/11 21:20
Lenexa, KS 66215	Project:	Bannister Complex			
Wil W. King	Project Number:	[none]			

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11H0404-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0.344	2.97	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Naphthalene	ND		ug/m³ Air	0.440	2.10	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Hexachlorobutadiene	ND		ug/m³ Air	0.661	4.27	2.00	08/29/11 18:08	GCMSR1	KRW	11H0404
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*92%*						08/29/11 18:08	GCMSR1	KRW	11H0404
Surr: Fluorobenzene (39-111%)	*65%*						08/29/11 18:08	GCMSR1	KRW	11H0404
Surr: Toluene-d8 (79-118%)	*102%*						08/29/11 18:08	GCMSR1	KRW	11H0404
Surr: 1,4-Dichlorobutane (80-130%)	*111%*						08/29/11 18:08	GCMSR1	KRW	11H0404
Surr: 4-Bromofluorobenzene (81-131%)	*106%*						08/29/11 18:08	GCMSR1	KRW	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20

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: 11H0397-CCV1 (Calibration Check - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Dichlorodifluoromethane	45.5		ug/m³ Air	1.98	2.00	51.1	89%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Chloromethane	18.6		ug/m³ Air	0.826	2.00	21.5	86%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	60.6		ug/m³ Air	2.80	2.00	71.4	85%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Vinyl chloride	22.4		ug/m³ Air	1.02	2.00	26.4	85%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,3-Butadiene	21.8		ug/m³ Air	0.885	2.00	24.2	90%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Butane	20.8		ug/m³ Air	0.951	2.00	24.1	86%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Bromomethane	33.8		ug/m³ Air	1.55	2.00	40.1	84%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Chloroethane	22.9		ug/m³ Air	1.06	2.00	27.3	84%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Acetonitrile	17.3		ug/m³ Air	0.672	2.00	18.0	96%	50 - 150	GCMSR1	08/28/11 11:57	11H0397
Trichlorofluoromethane	54.8		ug/m³ Air	2.25	2.00	60.3	91%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Acetone	25.7	B	ug/m³ Air	0.950	2.00	27.3	94%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Acrylonitrile	24.1		ug/m³ Air	0.868	2.00	23.8	102%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
n-Pentane	29.5		ug/m³ Air	1.18	2.00	31.7	93%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,1-Dichloroethene	40.1		ug/m³ Air	1.59	2.00	43.0	93%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Methylene chloride	34.8		ug/m³ Air	1.39	2.00	37.0	94%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Carbon disulfide	31.9		ug/m³ Air	1.25	2.00	33.5	95%	50 - 150	GCMSR1	08/28/11 11:57	11H0397
Allyl chloride	33.4		ug/m³ Air	1.25	2.00	34.6	97%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,1,2-Trichlorotrifluoroethane	74.1		ug/m³ Air	3.07	2.00	82.3	90%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
trans-1,2-Dichloroethene	39.8		ug/m³ Air	1.59	2.00	43.0	93%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,1-Dichloroethane	36.3		ug/m³ Air	1.62	2.00	44.8	81%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Methyl tert-Butyl Ether	31.0		ug/m³ Air	1.44	2.00	38.4	81%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Vinyl acetate	38.4		ug/m³ Air	1.41	2.00	40.4	95%	50 - 150	GCMSR1	08/28/11 11:57	11H0397
2-Butanone (MEK)	30.5		ug/m³ Air	1.18	2.00	33.5	91%	50 - 150	GCMSR1	08/28/11 11:57	11H0397
cis-1,2-Dichloroethene	37.1		ug/m³ Air	1.59	2.00	43.4	85%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Hexane	32.4		ug/m³ Air	1.41	2.00	39.0	83%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Chloroform	44.8		ug/m³ Air	1.95	2.00	53.0	85%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,2-Dichloroethane	42.3		ug/m³ Air	1.62	2.00	44.8	94%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,1,1-Trichloroethane	51.7		ug/m³ Air	2.18	2.00	60.3	86%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Benzene	30.0		ug/m³ Air	1.28	2.00	35.7	84%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Carbon tetrachloride	59.7		ug/m³ Air	2.52	2.00	68.9	87%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Cyclohexane	31.0		ug/m³ Air	1.38	2.00	38.1	81%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,2-Dichloropropane	44.9		ug/m³ Air	1.85	2.00	51.1	88%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Bromodichloromethane	65.4		ug/m³ Air	2.68	2.00	70.6	93%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Trichloroethene	50.7		ug/m³ Air	2.15	2.00	56.6	90%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Heptane	37.4		ug/m³ Air	1.64	2.00	44.0	85%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
cis-1,3-Dichloropropene	49.0		ug/m³ Air	1.82	2.00	49.2	100%	70 - 130	GCMSR1	08/28/11 11:57	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

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: 11H0397-CCV1 (Calibration Check - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
4-Methyl-2-pentanone (MIBK)	45.4		ug/m³ Air	1.64	2.00	46.6	97%	50 - 150	GCMSR1	08/28/11 11:57	11H0397
trans-1,3-Dichloropropene	54.7		ug/m³ Air	1.82	2.00	52.1	105%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,1,2-Trichloroethane	56.5		ug/m³ Air	2.18	2.00	60.9	93%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Toluene	40.6		ug/m³ Air	1.51	2.00	42.9	95%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Chlorodibromomethane	91.7		ug/m³ Air	3.41	2.00	92.4	99%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,2-Dibromoethane (EDB)	85.5		ug/m³ Air	3.07	2.00	86.5	99%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
n-Octane	49.0		ug/m³ Air	1.87	2.00	50.2	98%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Tetrachloroethene	71.4		ug/m³ Air	2.71	2.00	75.0	95%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Chlorobenzene	50.6		ug/m³ Air	1.84	2.00	51.8	98%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Ethylbenzene	50.0		ug/m³ Air	1.74	2.00	48.9	102%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
m-Xylene & p-Xylene	99.0		ug/m³ Air	3.47	2.00	96.0	103%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Bromoform	114		ug/m³ Air	4.13	2.00	114	100%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Styrene	49.8		ug/m³ Air	1.70	2.00	48.4	103%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,1,2,2-Tetrachloroethane	64.0		ug/m³ Air	2.75	2.00	76.6	84%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
o-Xylene	49.6		ug/m³ Air	1.74	2.00	48.5	102%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
n-Nonane	59.5		ug/m³ Air	2.10	2.00	55.8	107%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Isopropylbenzene	50.9		ug/m³ Air	1.97	2.00	50.8	100%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
n-Propylbenzene	48.3		ug/m³ Air	1.97	2.00	51.3	94%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,3,5-Trimethylbenzene	48.7		ug/m³ Air	1.97	2.00	55.9	87%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,2,4-Trimethylbenzene	53.4		ug/m³ Air	1.97	2.00	55.9	96%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
Benzyl chloride	**78.1**	**C8**	**ug/m³ Air**	**2.07**	**2.00**	**58.9**	**133%**	**70 - 130**	**GCMSR1**	**08/28/11 11:57**	**11H0397**
1,3-Dichlorobenzene	60.3		ug/m³ Air	2.40	2.00	68.4	88%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
n-Decane	66.6		ug/m³ Air	2.33	2.00	62.5	107%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,4-Dichlorobenzene	67.0		ug/m³ Air	2.40	2.00	67.7	99%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
1,2-Dichlorobenzene	72.3		ug/m³ Air	2.40	2.00	67.7	107%	70 - 130	GCMSR1	08/28/11 11:57	11H0397
n-Undecane	69.4		ug/m³ Air	2.56	2.00	68.0	102%	50 - 150	GCMSR1	08/28/11 11:57	11H0397
1,2,4-Trichlorobenzene	89.5		ug/m³ Air	2.97	2.00	84.4	106%	50 - 150	GCMSR1	08/28/11 11:57	11H0397
Naphthalene	54.1		ug/m³ Air	2.10	2.00	59.6	91%	50 - 150	GCMSR1	08/28/11 11:57	11H0397
Hexachlorobutadiene	134		ug/m³ Air	4.27	2.00	120	111%	50 - 150	GCMSR1	08/28/11 11:57	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*96%*								GCMSR1	08/28/11 11:57	11H0397
Surr: Fluorobenzene (70-130%)	*93%*								GCMSR1	08/28/11 11:57	11H0397
Surr: Toluene-d8 (70-130%)	*99%*								GCMSR1	08/28/11 11:57	11H0397
Surr: 1,4-Dichlorobutane (70-130%)	*108%*								GCMSR1	08/28/11 11:57	11H0397
Surr: 4-Bromofluorobenzene (70-130%)	*107%*								GCMSR1	08/28/11 11:57	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa	Work Order:	AUH0047		Received:	08/03/11 09:15
13910 W 96th Terrace				Reported:	08/31/11 21:20
Lenexa, KS 66215	Project:	Bannister Complex			
Wil W. King	Project Number:	[none]			

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: 11H0404-CCV1 (Calibration Check - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Dichlorodifluoromethane	45.2		ug/m³ Air	1.98	2.00	51.1	88%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Chloromethane	19.1		ug/m³ Air	0.826	2.00	21.5	89%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,2-Dichloro-1,1,2,2-tetrafluoroethane	61.4		ug/m³ Air	2.80	2.00	71.4	86%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Vinyl chloride	22.7		ug/m³ Air	1.02	2.00	26.4	86%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,3-Butadiene	21.9		ug/m³ Air	0.885	2.00	24.2	90%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Butane	21.1		ug/m³ Air	0.951	2.00	24.1	88%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Bromomethane	33.9		ug/m³ Air	1.55	2.00	40.1	85%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Chloroethane	23.3		ug/m³ Air	1.06	2.00	27.3	85%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Acetonitrile	17.3		ug/m³ Air	0.672	2.00	18.0	96%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
Trichlorofluoromethane	54.5		ug/m³ Air	2.25	2.00	60.3	90%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Acetone	27.0	B	ug/m³ Air	0.950	2.00	27.3	99%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Acrylonitrile	24.6		ug/m³ Air	0.868	2.00	23.8	103%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
n-Pentane	29.5		ug/m³ Air	1.18	2.00	31.7	93%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,1-Dichloroethene	39.6		ug/m³ Air	1.59	2.00	43.0	92%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Methylene chloride	34.2		ug/m³ Air	1.39	2.00	37.0	93%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Carbon disulfide	32.1		ug/m³ Air	1.25	2.00	33.5	96%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
Allyl chloride	31.1		ug/m³ Air	1.25	2.00	34.6	90%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,1,2-Trichlorotrifluoroethane	74.0		ug/m³ Air	3.07	2.00	82.3	90%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
trans-1,2-Dichloroethene	39.2		ug/m³ Air	1.59	2.00	43.0	91%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,1-Dichloroethane	36.3		ug/m³ Air	1.62	2.00	44.8	81%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Methyl tert-Butyl Ether	31.3		ug/m³ Air	1.44	2.00	38.4	82%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Vinyl acetate	38.7		ug/m³ Air	1.41	2.00	40.4	96%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
2-Butanone (MEK)	30.0		ug/m³ Air	1.18	2.00	33.5	89%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
cis-1,2-Dichloroethene	36.7		ug/m³ Air	1.59	2.00	43.4	85%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Hexane	33.0		ug/m³ Air	1.41	2.00	39.0	85%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Chloroform	43.4		ug/m³ Air	1.95	2.00	53.0	82%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,2-Dichloroethane	39.9		ug/m³ Air	1.62	2.00	44.8	89%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,1,1-Trichloroethane	51.2		ug/m³ Air	2.18	2.00	60.3	85%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Benzene	32.3		ug/m³ Air	1.28	2.00	35.7	91%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Carbon tetrachloride	66.0		ug/m³ Air	2.52	2.00	68.9	96%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Cyclohexane	35.3		ug/m³ Air	1.38	2.00	38.1	93%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,2-Dichloropropane	47.9		ug/m³ Air	1.85	2.00	51.1	94%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Bromodichloromethane	67.3		ug/m³ Air	2.68	2.00	70.6	95%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Trichloroethene	51.9		ug/m³ Air	2.15	2.00	56.6	92%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Heptane	42.0		ug/m³ Air	1.64	2.00	44.0	95%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
cis-1,3-Dichloropropene	46.1		ug/m³ Air	1.82	2.00	49.2	94%	70 - 130	GCMSR1	08/29/11 15:06	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:20

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: 11H0404-CCV1 (Calibration Check - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
4-Methyl-2-pentanone (MIBK)	48.4		ug/m³ Air	1.64	2.00	46.6	104%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
trans-1,3-Dichloropropene	49.0		ug/m³ Air	1.82	2.00	52.1	94%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,1,2-Trichloroethane	56.8		ug/m³ Air	2.18	2.00	60.9	93%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Toluene	41.6		ug/m³ Air	1.51	2.00	42.9	97%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Chlorodibromomethane	88.3		ug/m³ Air	3.41	2.00	92.4	96%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,2-Dibromoethane (EDB)	76.7		ug/m³ Air	3.07	2.00	86.5	89%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
n-Octane	53.4		ug/m³ Air	1.87	2.00	50.2	106%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Tetrachloroethene	72.9		ug/m³ Air	2.71	2.00	75.0	97%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Chlorobenzene	49.5		ug/m³ Air	1.84	2.00	51.8	95%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Ethylbenzene	50.7		ug/m³ Air	1.74	2.00	48.9	104%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
m-Xylene & p-Xylene	99.7		ug/m³ Air	3.47	2.00	96.0	104%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Bromoform	110		ug/m³ Air	4.13	2.00	114	96%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Styrene	48.9		ug/m³ Air	1.70	2.00	48.4	101%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,1,2,2-Tetrachloroethane	63.4		ug/m³ Air	2.75	2.00	76.6	83%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
o-Xylene	50.9		ug/m³ Air	1.74	2.00	48.5	105%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
n-Nonane	62.0		ug/m³ Air	2.10	2.00	55.8	111%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Isopropylbenzene	52.7		ug/m³ Air	1.97	2.00	50.8	104%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
n-Propylbenzene	48.1		ug/m³ Air	1.97	2.00	51.3	94%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,3,5-Trimethylbenzene	48.4		ug/m³ Air	1.97	2.00	55.9	87%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,2,4-Trimethylbenzene	49.9		ug/m³ Air	1.97	2.00	55.9	89%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
Benzyl chloride	**83.6**	**C8**	**ug/m³ Air**	**2.07**	**2.00**	**58.9**	**142%**	**70 - 130**	**GCMSR1**	**08/29/11 15:06**	**11H0404**
1,3-Dichlorobenzene	56.7		ug/m³ Air	2.40	2.00	68.4	83%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
n-Decane	68.8		ug/m³ Air	2.33	2.00	62.5	110%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,4-Dichlorobenzene	66.2		ug/m³ Air	2.40	2.00	67.7	98%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
1,2-Dichlorobenzene	73.9		ug/m³ Air	2.40	2.00	67.7	109%	70 - 130	GCMSR1	08/29/11 15:06	11H0404
n-Undecane	76.8		ug/m³ Air	2.56	2.00	68.0	113%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
1,2,4-Trichlorobenzene	104		ug/m³ Air	2.97	2.00	84.4	123%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
Naphthalene	61.8		ug/m³ Air	2.10	2.00	59.6	104%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
Hexachlorobutadiene	148		ug/m³ Air	4.27	2.00	120	123%	50 - 150	GCMSR1	08/29/11 15:06	11H0404
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*97%*								GCMSR1	08/29/11 15:06	11H0404
Surr: Fluorobenzene (70-130%)	*89%*								GCMSR1	08/29/11 15:06	11H0404
Surr: Toluene-d8 (70-130%)	*103%*								GCMSR1	08/29/11 15:06	11H0404
Surr: 1,4-Dichlorobutane (70-130%)	*102%*								GCMSR1	08/29/11 15:06	11H0404
Surr: 4-Bromofluorobenzene (70-130%)	*103%*								GCMSR1	08/29/11 15:06	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 21:20

PROJECT QUALITY CONTROL DATA

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:20

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0397-DUP2 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	0.464	J	0.487	ug/m³ Air	5	25	11H0397	AUH0079-01	08/29/11 5:38
Dichlorodifluoromethane	0.888	J	0.865	ug/m³ Air	3	25	11H0397	AUH0079-01	08/29/11 5:38
Chloromethane	0.726	J	0.662	ug/m³ Air	9	25	11H0397	AUH0079-01	08/29/11 5:38
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Vinyl chloride	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,3-Butadiene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Butane	2.56	J	2.60	ug/m³ Air	1	25	11H0397	AUH0079-01	08/29/11 5:38
Bromomethane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Chloroethane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Acetonitrile	0.400	J	0.393	ug/m³ Air	2	25	11H0397	AUH0079-01	08/29/11 5:38
Trichlorofluoromethane	0.882	J	0.797	ug/m³ Air	10	25	11H0397	AUH0079-01	08/29/11 5:38
Acetone	19.7	B	19.5	ug/m³ Air	1	25	11H0397	AUH0079-01	08/29/11 5:38
Acrylonitrile	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
n-Pentane	2.35	J	2.38	ug/m³ Air	1	25	11H0397	AUH0079-01	08/29/11 5:38
Diethyl ether	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Methylene chloride	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Carbon disulfide	4.67		4.60	ug/m³ Air	2	25	11H0397	AUH0079-01	08/29/11 5:38
Allyl chloride	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,1,2-Trichlorotrifluoroethane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Methyl tert-Butyl Ether	0.580	J	0.623	ug/m³ Air	7	25	11H0397	AUH0079-01	08/29/11 5:38
Vinyl acetate	1.32	J	1.15	ug/m³ Air	14	50	11H0397	AUH0079-01	08/29/11 5:38
2-Butanone (MEK)	3.42	J	3.42	ug/m³ Air	0.06	25	11H0397	AUH0079-01	08/29/11 5:38
cis-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Hexane	1.64	J	1.60	ug/m³ Air	2	25	11H0397	AUH0079-01	08/29/11 5:38
Chloroform	14.7		14.5	ug/m³ Air	2	25	11H0397	AUH0079-01	08/29/11 5:38
1,2-Dichloroethane	ND		ND	ng/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Benzene	18.7		19.6	ug/m³ Air	5	25	11H0397	AUH0079-01	08/29/11 5:38
Carbon tetrachloride	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Cyclohexane	0.693	J	0.643	ug/m³ Air	8	25	11H0397	AUH0079-01	08/29/11 5:38
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0397-DUP2 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Bromodichloromethane	**9.34**		**9.80**	ug/m³ Air	5	25	11H0397	AUH0079-01	08/29/11 5:38
Trichloroethene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Heptane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Toluene	**3.20**	J	**3.10**	ug/m³ Air	3	25	11H0397	AUH0079-01	08/29/11 5:38
2-Hexanone	**3.36**	J	**3.63**	ug/m³ Air	8	25	11H0397	AUH0079-01	08/29/11 5:38
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
n-Octane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Tetrachloroethene	**2.46**	J	**2.30**	ug/m³ Air	7	25	11H0397	AUH0079-01	08/29/11 5:38
Chlorobenzene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Ethylbenzene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
m-Xylene & p-Xylene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Bromoform	**6.38**	J	**6.01**	ug/m³ Air	6	25	11H0397	AUH0079-01	08/29/11 5:38
Styrene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
o-Xylene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
n-Nonane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Isopropylbenzene	ND		ND	ug/m³ Air		50	11H0397	AUH0079-01	08/29/11 5:38
n-Propylbenzene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Benzyl chloride	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
n-Decane	**1.64**	J	**1.80**	ug/m³ Air	10	25	11H0397	AUH0079-01	08/29/11 5:38
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
n-Undecane	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Naphthalene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11H0397	AUH0079-01	08/29/11 5:38

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Terracon Consulting Eng. & Scientists-Lenexa	Work Order:	AUH0047		Received:	08/03/11 09:15
13910 W 96th Terrace				Reported:	08/31/11 21:20
Lenexa, KS 66215	Project:	Bannister Complex			
Wil W. King	Project Number:	[none]			

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0397-DUP2 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*84%*						11H0397		08/29/11 5:38
Surr: Fluorobenzene (39-111%)	*56%*						11H0397		08/29/11 5:38
Surr: Toluene-d8 (79-118%)	*98%*						11H0397		08/29/11 5:38
Surr: 1,4-Dichlorobutane (80-130%)	*106%*						11H0397		08/29/11 5:38
Surr: 4-Bromofluorobenzene (81-131%)	*108%*						11H0397		08/29/11 5:38
Sample ID: 11H0404-DUP1 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	**22.7**		**22.4**	ug/m³ Air	1	25	11H0404	AUH0047-05	08/29/11 21:09
Dichlorodifluoromethane	**2.53**	J	**2.55**	ug/m³ Air	0.7	25	11H0404	AUH0047-05	08/29/11 21:09
Chloromethane	**0.932**	J	0.919	ug/m³ Air	1	25	11H0404	AUH0047-05	08/29/11 21:09
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Vinyl chloride	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,3-Butadiene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Butane	**3.16**		**3.05**	ug/m³ Air	3	25	11H0404	AUH0047-05	08/29/11 21:09
Bromomethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Chloroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Acetonitrile	**0.155**	J	**0.158**	ug/m³ Air	2	25	11H0404	AUH0047-05	08/29/11 21:09
Trichlorofluoromethane	**1.80**	J	**1.83**	ug/m³ Air	2	25	11H0404	AUH0047-05	08/29/11 21:09
Acetone	**25.5**	B	**25.0**	ug/m³ Air	2	25	11H0404	AUH0047-05	08/29/11 21:09
Acrylonitrile	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
n-Pentane	**2.26**	J	**2.39**	ug/m³ Air	5	25	11H0404	AUH0047-05	08/29/11 21:09
Diethyl ether	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Methylene chloride	**0.496**	J	**0.476**	ug/m³ Air	4	25	11H0404	AUH0047-05	08/29/11 21:09
Carbon disulfide	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Allyl chloride	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,1,2-Trichlorotrifluoroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Methyl tert-Butyl Ether	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Vinyl acetate	**0.794**	J	**0.931**	ug/m³ Air	16	50	11H0404	AUH0047-05	08/29/11 21:09

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:20

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0404-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
2-Butanone (MEK)	**3.00**	J	**2.96**	ug/m³ Air	1	25	11H0404	AUH0047-05	08/29/11 21:09
cis-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Hexane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Chloroform	**1.07**	J	**0.989**	ug/m³ Air	8	25	11H0404	AUH0047-05	08/29/11 21:09
1,2-Dichloroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Benzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Carbon tetrachloride	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Cyclohexane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Bromodichloromethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Trichloroethene	**1.65**	J	**1.78**	ug/m³ Air	8	25	11H0404	AUH0047-05	08/29/11 21:09
Heptane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Toluene	**3.49**	J	**3.32**	ug/m³ Air	5	25	11H0404	AUH0047-05	08/29/11 21:09
2-Hexanone	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
n-Octane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Tetrachloroethene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Chlorobenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Ethylbenzene	**1.27**	J	**1.16**	ug/m³ Air	8	25	11H0404	AUH0047-05	08/29/11 21:09
m-Xylene & p-Xylene	**3.33**	J	**3.36**	ug/m³ Air	0.8	25	11H0404	AUH0047-05	08/29/11 21:09
Bromoform	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Styrene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
o-Xylene	**0.882**	J	**0.990**	ug/m³ Air	12	25	11H0404	AUH0047-05	08/29/11 21:09
n-Nonane	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Isopropylbenzene	ND		ND	ug/m³ Air		50	11H0404	AUH0047-05	08/29/11 21:09
n-Propylbenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:20

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11H0404-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Benzyl chloride	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
n-Decane	**1.18**	**J**	1.09	ug/m³ Air	7	25	11H0404	AUH0047-05	08/29/11 21:09
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
n-Undecane	**1.22**	**J**	1.13	ug/m³ Air	8	25	11H0404	AUH0047-05	08/29/11 21:09
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Naphthalene	1.35		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11H0404	AUH0047-05	08/29/11 21:09
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*78%*						11H0404		08/29/11 21:09
Surr: Fluorobenzene (39-111%)	*55%*						11H0404		08/29/11 21:09
Surr: Toluene-d8 (79-118%)	*98%*						11H0404		08/29/11 21:09
Surr: 1,4-Dichlorobutane (80-130%)	*99%*						11H0404		08/29/11 21:09
Surr: 4-Bromofluorobenzene (81-131%)	*108%*						11H0404		08/29/11 21:09

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20

PROJECT QUALITY CONTROL DATA

LCS

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11H0397-BS1 (LCS - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Chlorodifluoromethane	37.3		ug/m³ Air	1.41	2.00	38.1	98%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Dichlorodifluoromethane	47.6		ug/m³ Air	1.98	2.00	51.7	92%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Chloromethane	20.2		ug/m³ Air	0.826	2.00	21.8	93%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	57.0		ug/m³ Air	2.80	2.00	73.1	78%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Vinyl chloride	24.2		ug/m³ Air	1.02	2.00	27.0	90%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,3-Butadiene	22.9		ug/m³ Air	0.885	2.00	23.8	96%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Butane	21.1		ug/m³ Air	0.951	2.00	24.1	88%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Bromomethane	36.3		ug/m³ Air	1.55	2.00	40.6	89%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Chloroethane	24.5		ug/m³ Air	1.06	2.00	27.3	90%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Acetonitrile	15.6		ug/m³ Air	0.672	2.00	17.6	89%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Trichlorofluoromethane	56.7		ug/m³ Air	2.25	2.00	60.0	95%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Acetone	24.8	B	ug/m³ Air	0.950	2.00	25.6	97%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Acrylonitrile	22.3		ug/m³ Air	0.868	2.00	23.4	96%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
n-Pentane	29.8		ug/m³ Air	1.18	2.00	31.8	94%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Diethyl ether	32.2		ug/m³ Air	1.21	2.00	32.7	99%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,1-Dichloroethene	42.0		ug/m³ Air	1.59	2.00	43.1	97%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Methylene chloride	35.8		ug/m³ Air	1.39	2.00	37.1	97%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Carbon disulfide	25.5		ug/m³ Air	1.25	2.00	33.9	75%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Allyl chloride	28.6		ug/m³ Air	1.25	2.00	33.4	86%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,1,2-Trichlorotrifluoroethane	78.7		ug/m³ Air	3.07	2.00	84.1	94%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
trans-1,2-Dichloroethene	38.8		ug/m³ Air	1.59	2.00	41.9	93%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,1-Dichloroethane	37.2		ug/m³ Air	1.62	2.00	44.0	85%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Methyl tert-Butyl Ether	33.7		ug/m³ Air	1.44	2.00	39.6	85%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Vinyl acetate	33.4		ug/m³ Air	1.41	2.00	39.8	84%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
2-Butanone (MEK)	27.7		ug/m³ Air	1.18	2.00	33.3	83%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
cis-1,2-Dichloroethene	38.8		ug/m³ Air	1.59	2.00	44.0	88%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Hexane	31.2		ug/m³ Air	1.41	2.00	40.6	77%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Chloroform	46.0		ug/m³ Air	1.95	2.00	52.1	88%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,2-Dichloroethane	42.5		ug/m³ Air	1.62	2.00	44.0	96%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,1,1-Trichloroethane	52.4		ug/m³ Air	2.18	2.00	58.8	89%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Benzene	30.3		ug/m³ Air	1.28	2.00	34.8	87%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Carbon tetrachloride	59.0		ug/m³ Air	2.52	2.00	71.1	83%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Cyclohexane	29.8		ug/m³ Air	1.38	2.00	38.2	78%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,2-Dichloropropane	45.0		ug/m³ Air	1.85	2.00	50.7	89%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Bromodichloromethane	71.6		ug/m³ Air	2.68	2.00	74.3	96%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Trichloroethene	51.1		ug/m³ Air	2.15	2.00	59.6	86%	50 - 150	GCMSR1	08/28/11 12:55	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:20

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: 11H0397-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Heptane	36.4		ug/m³ Air	1.64	2.00	45.5	80%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
cis-1,3-Dichloropropene	52.7		ug/m³ Air	1.82	2.00	51.3	103%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
4-Methyl-2-pentanone (MIBK)	39.4		ug/m³ Air	1.64	2.00	46.7	84%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
trans-1,3-Dichloropropene	50.7		ug/m³ Air	1.82	2.00	47.0	108%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,1,2-Trichloroethane	57.8		ug/m³ Air	2.18	2.00	59.9	96%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Toluene	40.2		ug/m³ Air	1.51	2.00	41.8	96%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
2-Hexanone	46.4		ug/m³ Air	1.64	2.00	46.3	100%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Chlorodibromomethane	97.4		ug/m³ Air	3.41	2.00	95.3	102%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,2-Dibromoethane (EDB)	86.2		ug/m³ Air	3.07	2.00	84.4	102%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
n-Octane	46.9		ug/m³ Air	1.87	2.00	49.9	94%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Tetrachloroethene	71.0		ug/m³ Air	2.71	2.00	70.3	101%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Chlorobenzene	51.4		ug/m³ Air	1.84	2.00	51.5	100%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Ethylbenzene	50.2		ug/m³ Air	1.74	2.00	48.2	104%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
m-Xylene & p-Xylene	99.4		ug/m³ Air	3.47	2.00	94.5	105%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Bromoform	124		ug/m³ Air	4.13	2.00	113	110%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Styrene	50.4		ug/m³ Air	1.70	2.00	47.7	106%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,1,2,2-Tetrachloroethane	63.7		ug/m³ Air	2.75	2.00	77.6	82%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
o-Xylene	50.4		ug/m³ Air	1.74	2.00	49.1	103%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
n-Nonane	58.2		ug/m³ Air	2.10	2.00	56.0	104%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Isopropylbenzene	51.0		ug/m³ Air	1.97	2.00	51.9	98%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
n-Propylbenzene	47.7		ug/m³ Air	1.97	2.00	51.4	93%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,3,5-Trimethylbenzene	47.4		ug/m³ Air	1.97	2.00	54.0	88%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,2,4-Trimethylbenzene	51.7		ug/m³ Air	1.97	2.00	53.5	97%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Benzyl chloride	81.3		ug/m³ Air	2.07	2.00	57.9	140%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,3-Dichlorobenzene	53.7		ug/m³ Air	2.40	2.00	67.3	80%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
n-Decane	61.1		ug/m³ Air	2.33	2.00	63.3	96%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,4-Dichlorobenzene	58.8		ug/m³ Air	2.40	2.00	65.4	90%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,2-Dichlorobenzene	66.4		ug/m³ Air	2.40	2.00	67.3	99%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
n-Undecane	61.6		ug/m³ Air	2.56	2.00	69.6	89%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
1,2,4-Trichlorobenzene	82.5		ug/m³ Air	2.97	2.00	84.6	98%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Naphthalene	43.8		ug/m³ Air	2.10	2.00	56.5	78%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Hexachlorobutadiene	130		ug/m³ Air	4.27	2.00	118	110%	50 - 150	GCMSR1	08/28/11 12:55	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*96%*								GCMSR1	08/28/11 12:55	11H0397
Surr: Fluorobenzene (39-111%)	*92%*								GCMSR1	08/28/11 12:55	11H0397
Surr: Toluene-d8 (79-118%)	*96%*								GCMSR1	08/28/11 12:55	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20

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: 11H0397-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Surr: 1,4-Dichlorobutane (80-130%)	*106%*								GCMSR1	08/28/11 12:55	11H0397
Surr: 4-Bromofluorobenzene (81-131%)	*107%*								GCMSR1	08/28/11 12:55	11H0397
Sample ID: 11H0404-BS1 (LCS - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Chlorodifluoromethane	37.2		ug/m³ Air	1.41	2.00	38.1	98%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Dichlorodifluoromethane	47.1		ug/m³ Air	1.98	2.00	51.7	91%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Chloromethane	20.2		ug/m³ Air	0.826	2.00	21.8	93%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,2-Dichloro-1,1,2,2-tetrafluoroethane	57.0		ug/m³ Air	2.80	2.00	73.1	78%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Vinyl chloride	24.1		ug/m³ Air	1.02	2.00	27.0	89%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,3-Butadiene	22.8		ug/m³ Air	0.885	2.00	23.8	96%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Butane	21.2		ug/m³ Air	0.951	2.00	24.1	88%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Bromomethane	36.2		ug/m³ Air	1.55	2.00	40.6	89%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Chloroethane	24.6		ug/m³ Air	1.06	2.00	27.3	90%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Acetonitrile	15.7		ug/m³ Air	0.672	2.00	17.6	89%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Trichlorofluoromethane	56.6		ug/m³ Air	2.25	2.00	60.0	94%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Acetone	24.9	B	ug/m³ Air	0.950	2.00	25.6	97%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Acrylonitrile	22.1		ug/m³ Air	0.868	2.00	23.4	95%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
n-Pentane	30.0		ug/m³ Air	1.18	2.00	31.8	94%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Diethyl ether	32.8		ug/m³ Air	1.21	2.00	32.7	101%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,1-Dichloroethene	41.7		ug/m³ Air	1.59	2.00	43.1	97%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Methylene chloride	36.0		ug/m³ Air	1.39	2.00	37.1	97%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Carbon disulfide	25.4		ug/m³ Air	1.25	2.00	33.9	75%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Allyl chloride	30.1		ug/m³ Air	1.25	2.00	33.4	90%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,1,2-Trichlorotrifluoroethane	79.0		ug/m³ Air	3.07	2.00	84.1	94%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
trans-1,2-Dichloroethene	38.3		ug/m³ Air	1.59	2.00	41.9	91%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,1-Dichloroethane	36.1		ug/m³ Air	1.62	2.00	44.0	82%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Methyl tert-Butyl Ether	33.5		ug/m³ Air	1.44	2.00	39.6	85%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Vinyl acetate	31.4		ug/m³ Air	1.41	2.00	39.8	79%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
2-Butanone (MEK)	27.1		ug/m³ Air	1.18	2.00	33.3	81%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
cis-1,2-Dichloroethene	37.5		ug/m³ Air	1.59	2.00	44.0	85%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Hexane	30.8		ug/m³ Air	1.41	2.00	40.6	76%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Chloroform	44.4		ug/m³ Air	1.95	2.00	52.1	85%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,2-Dichloroethane	40.1		ug/m³ Air	1.62	2.00	44.0	91%	50 - 150	GCMSR1	08/29/11 16:07	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:20

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: 11H0404-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
1,1,1-Trichloroethane	51.7		ug/m³ Air	2.18	2.00	58.8	88%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Benzene	33.0		ug/m³ Air	1.28	2.00	34.8	95%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Carbon tetrachloride	61.2		ug/m³ Air	2.52	2.00	71.1	86%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Cyclohexane	34.1		ug/m³ Air	1.38	2.00	38.2	89%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,2-Dichloropropane	48.9		ug/m³ Air	1.85	2.00	50.7	96%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Bromodichloromethane	73.2		ug/m³ Air	2.68	2.00	74.3	99%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Trichloroethene	53.2		ug/m³ Air	2.15	2.00	59.6	89%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Heptane	40.9		ug/m³ Air	1.64	2.00	45.5	90%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
cis-1,3-Dichloropropene	49.3		ug/m³ Air	1.82	2.00	51.3	96%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
4-Methyl-2-pentanone (MIBK)	42.9		ug/m³ Air	1.64	2.00	46.7	92%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
trans-1,3-Dichloropropene	45.1		ug/m³ Air	1.82	2.00	47.0	96%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,1,2-Trichloroethane	57.7		ug/m³ Air	2.18	2.00	59.9	96%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Toluene	41.7		ug/m³ Air	1.51	2.00	41.8	100%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
2-Hexanone	45.3		ug/m³ Air	1.64	2.00	46.3	98%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Chlorodibromomethane	93.4		ug/m³ Air	3.41	2.00	95.3	98%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,2-Dibromoethane (EDB)	74.6		ug/m³ Air	3.07	2.00	84.4	88%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
n-Octane	52.0		ug/m³ Air	1.87	2.00	49.9	104%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Tetrachloroethene	73.9		ug/m³ Air	2.71	2.00	70.3	105%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Chlorobenzene	50.3		ug/m³ Air	1.84	2.00	51.5	98%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Ethylbenzene	51.9		ug/m³ Air	1.74	2.00	48.2	108%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
m-Xylene & p-Xylene	102		ug/m³ Air	3.47	2.00	94.5	108%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Bromoform	115		ug/m³ Air	4.13	2.00	113	102%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Styrene	50.1		ug/m³ Air	1.70	2.00	47.7	105%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,1,2,2-Tetrachloroethane	66.1		ug/m³ Air	2.75	2.00	77.6	85%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
o-Xylene	52.6		ug/m³ Air	1.74	2.00	49.1	107%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
n-Nonane	63.2		ug/m³ Air	2.10	2.00	56.0	113%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Isopropylbenzene	54.7		ug/m³ Air	1.97	2.00	51.9	105%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
n-Propylbenzene	49.7		ug/m³ Air	1.97	2.00	51.4	97%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,3,5-Trimethylbenzene	49.0		ug/m³ Air	1.97	2.00	54.0	91%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,2,4-Trimethylbenzene	47.8		ug/m³ Air	1.97	2.00	53.5	89%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Benzyl chloride	77.0		ug/m³ Air	2.07	2.00	57.9	133%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,3-Dichlorobenzene	50.3		ug/m³ Air	2.40	2.00	67.3	75%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
n-Decane	59.2		ug/m³ Air	2.33	2.00	63.3	94%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,4-Dichlorobenzene	52.7		ug/m³ Air	2.40	2.00	65.4	81%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
1,2-Dichlorobenzene	58.6		ug/m³ Air	2.40	2.00	67.3	87%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
n-Undecane	70.6		ug/m³ Air	2.56	2.00	69.6	102%	50 - 150	GCMSR1	08/29/11 16:07	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa	Work Order:	AUH0047		Received:	08/03/11 09:15
13910 W 96th Terrace				Reported:	08/31/11 21:20
Lenexa, KS 66215	Project:	Bannister Complex			
Wil W. King	Project Number:	[none]			

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: 11H0404-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
1,2,4-Trichlorobenzene	99.9		ug/m³ Air	2.97	2.00	84.6	118%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Naphthalene	51.5		ug/m³ Air	2.10	2.00	56.5	91%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Hexachlorobutadiene	149		ug/m³ Air	4.27	2.00	118	126%	50 - 150	GCMSR1	08/29/11 16:07	11H0404
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*98%*								GCMSR1	08/29/11 16:07	11H0404
Surr: Fluorobenzene (39-111%)	*88%*								GCMSR1	08/29/11 16:07	11H0404
Surr: Toluene-d8 (79-118%)	*100%*								GCMSR1	08/29/11 16:07	11H0404
Surr: 1,4-Dichlorobutane (80-130%)	*104%*								GCMSR1	08/29/11 16:07	11H0404
Surr: 4-Bromofluorobenzene (81-131%)	*105%*								GCMSR1	08/29/11 16:07	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20

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: 11H0397-BSD1 (LCS Dup - Air)												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Chlorodifluoromethane	36.9		ug/m³ Air	1.41	2.00	38.1	97%	50 - 150	1	25	08/28/11 13:56	11H0397
Dichlorodifluoromethane	46.9		ug/m³ Air	1.98	2.00	51.7	91%	50 - 150	1	25	08/28/11 13:56	11H0397
Chloromethane	19.6		ug/m³ Air	0.826	2.00	21.8	90%	50 - 150	3	25	08/28/11 13:56	11H0397
1,2-Dichloro-1,1,2,2-tetrafluoroethane	56.3		ug/m³ Air	2.80	2.00	73.1	77%	50 - 150	1	25	08/28/11 13:56	11H0397
Vinyl chloride	23.4		ug/m³ Air	1.02	2.00	27.0	87%	50 - 150	3	25	08/28/11 13:56	11H0397
1,3-Butadiene	22.4		ug/m³ Air	0.885	2.00	23.8	94%	50 - 150	2	25	08/28/11 13:56	11H0397
Butane	20.7		ug/m³ Air	0.951	2.00	24.1	86%	50 - 150	2	25	08/28/11 13:56	11H0397
Bromomethane	35.5		ug/m³ Air	1.55	2.00	40.6	87%	50 - 150	2	25	08/28/11 13:56	11H0397
Chloroethane	23.8		ug/m³ Air	1.06	2.00	27.3	87%	50 - 150	3	25	08/28/11 13:56	11H0397
Acetonitrile	14.7		ug/m³ Air	0.672	2.00	17.6	84%	50 - 150	6	25	08/28/11 13:56	11H0397
Trichlorofluoromethane	56.9		ug/m³ Air	2.25	2.00	60.0	95%	50 - 150	0.4	25	08/28/11 13:56	11H0397
Acetone	24.6	B	ug/m³ Air	0.950	2.00	25.6	96%	50 - 150	1	25	08/28/11 13:56	11H0397
Acrylonitrile	22.1		ug/m³ Air	0.868	2.00	23.4	94%	50 - 150	1	25	08/28/11 13:56	11H0397
n-Pentane	29.7		ug/m³ Air	1.18	2.00	31.8	93%	50 - 150	0.4	25	08/28/11 13:56	11H0397
Diethyl ether	32.5		ug/m³ Air	1.21	2.00	32.7	99%	50 - 150	0.8	25	08/28/11 13:56	11H0397
1,1-Dichloroethene	41.6		ug/m³ Air	1.59	2.00	43.1	97%	50 - 150	0.8	25	08/28/11 13:56	11H0397
Methylene chloride	36.5		ug/m³ Air	1.39	2.00	37.1	99%	50 - 150	2	25	08/28/11 13:56	11H0397
Carbon disulfide	25.5		ug/m³ Air	1.25	2.00	33.9	75%	50 - 150	0.08	25	08/28/11 13:56	11H0397
Allyl chloride	29.1		ug/m³ Air	1.25	2.00	33.4	87%	50 - 150	2	25	08/28/11 13:56	11H0397
1,1,2-Trichlorotrifluoroethane	79.0		ug/m³ Air	3.07	2.00	84.1	94%	50 - 150	0.4	25	08/28/11 13:56	11H0397
trans-1,2-Dichloroethene	38.8		ug/m³ Air	1.59	2.00	41.9	93%	50 - 150	0.08	25	08/28/11 13:56	11H0397
1,1-Dichloroethane	36.9		ug/m³ Air	1.62	2.00	44.0	84%	50 - 150	0.8	25	08/28/11 13:56	11H0397
Methyl tert-Butyl Ether	33.9		ug/m³ Air	1.44	2.00	39.6	86%	50 - 150	0.8	25	08/28/11 13:56	11H0397
Vinyl acetate	33.0		ug/m³ Air	1.41	2.00	39.8	83%	50 - 150	1	50	08/28/11 13:56	11H0397
2-Butanone (MEK)	27.3		ug/m³ Air	1.18	2.00	33.3	82%	50 - 150	1	25	08/28/11 13:56	11H0397
cis-1,2-Dichloroethene	38.3		ug/m³ Air	1.59	2.00	44.0	87%	50 - 150	1	25	08/28/11 13:56	11H0397
Hexane	31.0		ug/m³ Air	1.41	2.00	40.6	76%	50 - 150	0.8	25	08/28/11 13:56	11H0397
Chloroform	45.4		ug/m³ Air	1.95	2.00	52.1	87%	50 - 150	1	25	08/28/11 13:56	11H0397
1,2-Dichloroethane	40.9		ug/m³ Air	1.62	2.00	44.0	93%	50 - 150	4	25	08/28/11 13:56	11H0397
1,1,1-Trichloroethane	52.6		ug/m³ Air	2.18	2.00	58.8	90%	50 - 150	0.4	25	08/28/11 13:56	11H0397
Benzene	32.9		ug/m³ Air	1.28	2.00	34.8	95%	50 - 150	8	25	08/28/11 13:56	11H0397
Carbon tetrachloride	66.2		ug/m³ Air	2.52	2.00	71.1	93%	50 - 150	12	25	08/28/11 13:56	11H0397
Cyclohexane	33.4		ug/m³ Air	1.38	2.00	38.2	87%	50 - 150	11	25	08/28/11 13:56	11H0397
1,2-Dichloropropane	48.6		ug/m³ Air	1.85	2.00	50.7	96%	50 - 150	8	25	08/28/11 13:56	11H0397
Bromodichloromethane	74.7		ug/m³ Air	2.68	2.00	74.3	100%	50 - 150	4	25	08/28/11 13:56	11H0397
Trichloroethene	53.4		ug/m³ Air	2.15	2.00	59.6	90%	50 - 150	4	25	08/28/11 13:56	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:20

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: 11H0397-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Heptane	40.5		ug/m³ Air	1.64	2.00	45.5	89%	50 - 150	11	25	08/28/11 13:56	11H0397
cis-1,3-Dichloropropene	50.7		ug/m³ Air	1.82	2.00	51.3	99%	50 - 150	4	25	08/28/11 13:56	11H0397
4-Methyl-2-pentanone (MIBK)	42.7		ug/m³ Air	1.64	2.00	46.7	91%	50 - 150	8	25	08/28/11 13:56	11H0397
trans-1,3-Dichloropropene	47.1		ug/m³ Air	1.82	2.00	47.0	100%	50 - 150	7	25	08/28/11 13:56	11H0397
1,1,2-Trichloroethane	59.3		ug/m³ Air	2.18	2.00	59.9	99%	50 - 150	3	25	08/28/11 13:56	11H0397
Toluene	41.9		ug/m³ Air	1.51	2.00	41.8	100%	50 - 150	4	25	08/28/11 13:56	11H0397
2-Hexanone	46.7		ug/m³ Air	1.64	2.00	46.3	101%	50 - 150	0.7	25	08/28/11 13:56	11H0397
Chlorodibromomethane	96.9		ug/m³ Air	3.41	2.00	95.3	102%	50 - 150	0.5	25	08/28/11 13:56	11H0397
1,2-Dibromoethane (EDB)	78.3		ug/m³ Air	3.07	2.00	84.4	93%	50 - 150	10	25	08/28/11 13:56	11H0397
n-Octane	51.4		ug/m³ Air	1.87	2.00	49.9	103%	50 - 150	9	25	08/28/11 13:56	11H0397
Tetrachloroethene	72.6		ug/m³ Air	2.71	2.00	70.3	103%	50 - 150	2	25	08/28/11 13:56	11H0397
Chlorobenzene	50.6		ug/m³ Air	1.84	2.00	51.5	98%	50 - 150	2	25	08/28/11 13:56	11H0397
Ethylbenzene	51.6		ug/m³ Air	1.74	2.00	48.2	107%	50 - 150	3	25	08/28/11 13:56	11H0397
m-Xylene & p-Xylene	102		ug/m³ Air	3.47	2.00	94.5	108%	50 - 150	3	25	08/28/11 13:56	11H0397
Bromoform	124		ug/m³ Air	4.13	2.00	113	110%	50 - 150	0.04	25	08/28/11 13:56	11H0397
Styrene	50.3		ug/m³ Air	1.70	2.00	47.7	106%	50 - 150	0.1	25	08/28/11 13:56	11H0397
1,1,2,2-Tetrachloroethane	64.9		ug/m³ Air	2.75	2.00	77.6	84%	50 - 150	2	25	08/28/11 13:56	11H0397
o-Xylene	52.5		ug/m³ Air	1.74	2.00	49.1	107%	50 - 150	4	25	08/28/11 13:56	11H0397
n-Nonane	62.5		ug/m³ Air	2.10	2.00	56.0	112%	50 - 150	7	25	08/28/11 13:56	11H0397
Isopropylbenzene	53.9		ug/m³ Air	1.97	2.00	51.9	104%	50 - 150	6	50	08/28/11 13:56	11H0397
n-Propylbenzene	49.0		ug/m³ Air	1.97	2.00	51.4	95%	50 - 150	3	25	08/28/11 13:56	11H0397
1,3,5-Trimethylbenzene	48.1		ug/m³ Air	1.97	2.00	54.0	89%	50 - 150	2	25	08/28/11 13:56	11H0397
1,2,4-Trimethylbenzene	46.1		ug/m³ Air	1.97	2.00	53.5	86%	50 - 150	11	25	08/28/11 13:56	11H0397
Benzyl chloride	71.5		ug/m³ Air	2.07	2.00	57.9	124%	50 - 150	13	25	08/28/11 13:56	11H0397
1,3-Dichlorobenzene	49.0		ug/m³ Air	2.40	2.00	67.3	73%	50 - 150	9	25	08/28/11 13:56	11H0397
n-Decane	56.9		ug/m³ Air	2.33	2.00	63.3	90%	50 - 150	7	25	08/28/11 13:56	11H0397
1,4-Dichlorobenzene	50.1		ug/m³ Air	2.40	2.00	65.4	77%	50 - 150	16	25	08/28/11 13:56	11H0397
1,2-Dichlorobenzene	53.9		ug/m³ Air	2.40	2.00	67.3	80%	50 - 150	21	25	08/28/11 13:56	11H0397
n-Undecane	71.2		ug/m³ Air	2.56	2.00	69.6	102%	50 - 150	14	25	08/28/11 13:56	11H0397
1,2,4-Trichlorobenzene	99.7		ug/m³ Air	2.97	2.00	84.6	118%	50 - 150	19	25	08/28/11 13:56	11H0397
Naphthalene	52.6		ug/m³ Air	2.10	2.00	56.5	93%	50 - 150	18	25	08/28/11 13:56	11H0397
Hexachlorobutadiene	150		ug/m³ Air	4.27	2.00	118	127%	50 - 150	14	25	08/28/11 13:56	11H0397
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*96%*										08/28/11 13:56	11H0397
Surr: Fluorobenzene (39-111%)	*89%*										08/28/11 13:56	11H0397
Surr: Toluene-d8 (79-118%)	*99%*										08/28/11 13:56	11H0397

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUH0047 Project: Bannister Complex Project Number: [none]	Received: 08/03/11 09:15 Reported: 08/31/11 21:20	

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: 11H0397-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Surr: 1,4-Dichlorobutane (80-130%)	*106%*										08/28/11 13:56	11H0397
Surr: 4-Bromofluorobenzene (81-131%)	*107%*										08/28/11 13:56	11H0397
Sample ID: 11H0404-BSD1 (LCS Dup - Air)												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Chlorodifluoromethane	36.7		ug/m³ Air	1.41	2.00	38.1	96%	50 - 150	1	25	08/29/11 17:08	11H0404
Dichlorodifluoromethane	46.6		ug/m³ Air	1.98	2.00	51.7	90%	50 - 150	1	25	08/29/11 17:08	11H0404
Chloromethane	19.5		ug/m³ Air	0.826	2.00	21.8	90%	50 - 150	3	25	08/29/11 17:08	11H0404
1,2-Dichloro-1,1,2,2-tetrafluoroethane	55.9		ug/m³ Air	2.80	2.00	73.1	76%	50 - 150	2	25	08/29/11 17:08	11H0404
Vinyl chloride	23.2		ug/m³ Air	1.02	2.00	27.0	86%	50 - 150	4	25	08/29/11 17:08	11H0404
1,3-Butadiene	22.1		ug/m³ Air	0.885	2.00	23.8	93%	50 - 150	3	25	08/29/11 17:08	11H0404
Butane	20.4		ug/m³ Air	0.951	2.00	24.1	85%	50 - 150	4	25	08/29/11 17:08	11H0404
Bromomethane	35.0		ug/m³ Air	1.55	2.00	40.6	86%	50 - 150	3	25	08/29/11 17:08	11H0404
Chloroethane	23.6		ug/m³ Air	1.06	2.00	27.3	86%	50 - 150	4	25	08/29/11 17:08	11H0404
Acetonitrile	15.5		ug/m³ Air	0.672	2.00	17.6	88%	50 - 150	1	25	08/29/11 17:08	11H0404
Trichlorofluoromethane	56.9		ug/m³ Air	2.25	2.00	60.0	95%	50 - 150	0.5	25	08/29/11 17:08	11H0404
Acetone	24.7	B	ug/m³ Air	0.950	2.00	25.6	97%	50 - 150	0.5	25	08/29/11 17:08	11H0404
Acrylonitrile	22.2		ug/m³ Air	0.868	2.00	23.4	95%	50 - 150	0.6	25	08/29/11 17:08	11H0404
n-Pentane	29.4		ug/m³ Air	1.18	2.00	31.8	92%	50 - 150	2	25	08/29/11 17:08	11H0404
Diethyl ether	32.8		ug/m³ Air	1.21	2.00	32.7	100%	50 - 150	0.2	25	08/29/11 17:08	11H0404
1,1-Dichloroethene	41.8		ug/m³ Air	1.59	2.00	43.1	97%	50 - 150	0.1	25	08/29/11 17:08	11H0404
Methylene chloride	36.1		ug/m³ Air	1.39	2.00	37.1	98%	50 - 150	0.3	25	08/29/11 17:08	11H0404
Carbon disulfide	25.5		ug/m³ Air	1.25	2.00	33.9	75%	50 - 150	0.5	25	08/29/11 17:08	11H0404
Allyl chloride	30.1		ug/m³ Air	1.25	2.00	33.4	90%	50 - 150	0.02	25	08/29/11 17:08	11H0404
1,1,2-Trichlorotrifluoroethane	79.6		ug/m³ Air	3.07	2.00	84.1	95%	50 - 150	0.7	25	08/29/11 17:08	11H0404
trans-1,2-Dichloroethene	39.0		ug/m³ Air	1.59	2.00	41.9	93%	50 - 150	2	25	08/29/11 17:08	11H0404
1,1-Dichloroethane	36.0		ug/m³ Air	1.62	2.00	44.0	82%	50 - 150	0.1	25	08/29/11 17:08	11H0404
Methyl tert-Butyl Ether	33.2		ug/m³ Air	1.44	2.00	39.6	84%	50 - 150	0.9	25	08/29/11 17:08	11H0404
Vinyl acetate	31.8		ug/m³ Air	1.41	2.00	39.8	80%	50 - 150	1	50	08/29/11 17:08	11H0404
2-Butanone (MEK)	27.0		ug/m³ Air	1.18	2.00	33.3	81%	50 - 150	0.1	25	08/29/11 17:08	11H0404
cis-1,2-Dichloroethene	37.2		ug/m³ Air	1.59	2.00	44.0	85%	50 - 150	1	25	08/29/11 17:08	11H0404
Hexane	30.3		ug/m³ Air	1.41	2.00	40.6	75%	50 - 150	2	25	08/29/11 17:08	11H0404
Chloroform	44.5		ug/m³ Air	1.95	2.00	52.1	85%	50 - 150	0.3	25	08/29/11 17:08	11H0404
1,2-Dichloroethane	40.8		ug/m³ Air	1.62	2.00	44.0	93%	50 - 150	2	25	08/29/11 17:08	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]		Received: Reported:	08/03/11 09:15 08/31/11 21:20

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: 11H0404-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
1,1,1-Trichloroethane	51.8		ug/m³ Air	2.18	2.00	58.8	88%	50 - 150	0.2	25	08/29/11 17:08	11H0404
Benzene	32.8		ug/m³ Air	1.28	2.00	34.8	94%	50 - 150	0.6	25	08/29/11 17:08	11H0404
Carbon tetrachloride	61.4		ug/m³ Air	2.52	2.00	71.1	86%	50 - 150	0.4	25	08/29/11 17:08	11H0404
Cyclohexane	33.5		ug/m³ Air	1.38	2.00	38.2	88%	50 - 150	2	25	08/29/11 17:08	11H0404
1,2-Dichloropropane	49.0		ug/m³ Air	1.85	2.00	50.7	97%	50 - 150	0.3	25	08/29/11 17:08	11H0404
Bromodichloromethane	75.6		ug/m³ Air	2.68	2.00	74.3	102%	50 - 150	3	25	08/29/11 17:08	11H0404
Trichloroethene	54.4		ug/m³ Air	2.15	2.00	59.6	91%	50 - 150	2	25	08/29/11 17:08	11H0404
Heptane	40.6		ug/m³ Air	1.64	2.00	45.5	89%	50 - 150	0.9	25	08/29/11 17:08	11H0404
cis-1,3-Dichloropropene	52.2		ug/m³ Air	1.82	2.00	51.3	102%	50 - 150	6	25	08/29/11 17:08	11H0404
4-Methyl-2-pentanone (MIBK)	42.7		ug/m³ Air	1.64	2.00	46.7	91%	50 - 150	0.3	25	08/29/11 17:08	11H0404
trans-1,3-Dichloropropene	49.0		ug/m³ Air	1.82	2.00	47.0	104%	50 - 150	8	25	08/29/11 17:08	11H0404
1,1,2-Trichloroethane	59.7		ug/m³ Air	2.18	2.00	59.9	100%	50 - 150	3	25	08/29/11 17:08	11H0404
Toluene	42.3		ug/m³ Air	1.51	2.00	41.8	101%	50 - 150	1	25	08/29/11 17:08	11H0404
2-Hexanone	46.6		ug/m³ Air	1.64	2.00	46.3	101%	50 - 150	3	25	08/29/11 17:08	11H0404
Chlorodibromomethane	97.3		ug/m³ Air	3.41	2.00	95.3	102%	50 - 150	4	25	08/29/11 17:08	11H0404
1,2-Dibromoethane (EDB)	81.8		ug/m³ Air	3.07	2.00	84.4	97%	50 - 150	9	25	08/29/11 17:08	11H0404
n-Octane	51.7		ug/m³ Air	1.87	2.00	49.9	104%	50 - 150	0.5	25	08/29/11 17:08	11H0404
Tetrachloroethene	75.1		ug/m³ Air	2.71	2.00	70.3	107%	50 - 150	2	25	08/29/11 17:08	11H0404
Chlorobenzene	51.2		ug/m³ Air	1.84	2.00	51.5	99%	50 - 150	2	25	08/29/11 17:08	11H0404
Ethylbenzene	51.6		ug/m³ Air	1.74	2.00	48.2	107%	50 - 150	0.7	25	08/29/11 17:08	11H0404
m-Xylene & p-Xylene	103		ug/m³ Air	3.47	2.00	94.5	109%	50 - 150	0.9	25	08/29/11 17:08	11H0404
Bromoform	119		ug/m³ Air	4.13	2.00	113	106%	50 - 150	3	25	08/29/11 17:08	11H0404
Styrene	50.7		ug/m³ Air	1.70	2.00	47.7	106%	50 - 150	1	25	08/29/11 17:08	11H0404
1,1,2,2-Tetrachloroethane	65.8		ug/m³ Air	2.75	2.00	77.6	85%	50 - 150	0.4	25	08/29/11 17:08	11H0404
o-Xylene	53.0		ug/m³ Air	1.74	2.00	49.1	108%	50 - 150	0.6	25	08/29/11 17:08	11H0404
n-Nonane	62.7		ug/m³ Air	2.10	2.00	56.0	112%	50 - 150	0.8	25	08/29/11 17:08	11H0404
Isopropylbenzene	54.5		ug/m³ Air	1.97	2.00	51.9	105%	50 - 150	0.4	50	08/29/11 17:08	11H0404
n-Propylbenzene	49.2		ug/m³ Air	1.97	2.00	51.4	96%	50 - 150	0.9	25	08/29/11 17:08	11H0404
1,3,5-Trimethylbenzene	48.8		ug/m³ Air	1.97	2.00	54.0	90%	50 - 150	0.5	25	08/29/11 17:08	11H0404
1,2,4-Trimethylbenzene	46.9		ug/m³ Air	1.97	2.00	53.5	88%	50 - 150	2	25	08/29/11 17:08	11H0404
Benzyl chloride	71.7		ug/m³ Air	2.07	2.00	57.9	124%	50 - 150	7	25	08/29/11 17:08	11H0404
1,3-Dichlorobenzene	49.8		ug/m³ Air	2.40	2.00	67.3	74%	50 - 150	0.9	25	08/29/11 17:08	11H0404
n-Decane	57.6		ug/m³ Air	2.33	2.00	63.3	91%	50 - 150	3	25	08/29/11 17:08	11H0404
1,4-Dichlorobenzene	50.8		ug/m³ Air	2.40	2.00	65.4	78%	50 - 150	4	25	08/29/11 17:08	11H0404
1,2-Dichlorobenzene	54.2		ug/m³ Air	2.40	2.00	67.3	81%	50 - 150	8	25	08/29/11 17:08	11H0404
n-Undecane	70.8		ug/m³ Air	2.56	2.00	69.6	102%	50 - 150	0.3	25	08/29/11 17:08	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa	Work Order:	AUH0047		Received:	08/03/11 09:15
13910 W 96th Terrace				Reported:	08/31/11 21:20
Lenexa, KS 66215	Project:	Bannister Complex			
Wil W. King	Project Number:	[none]			

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: 11H0404-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
1,2,4-Trichlorobenzene	99.9		ug/m³ Air	2.97	2.00	84.6	118%	50 - 150	0.006	25	08/29/11 17:08	11H0404
Naphthalene	51.5		ug/m³ Air	2.10	2.00	56.5	91%	50 - 150	0.05	25	08/29/11 17:08	11H0404
Hexachlorobutadiene	152		ug/m³ Air	4.27	2.00	118	129%	50 - 150	3	25	08/29/11 17:08	11H0404
Surr: 2-Bromo-1,1,1-trifluoroethane (60-121%)	*94%*										08/29/11 17:08	11H0404
Surr: Fluorobenzene (39-111%)	*87%*										08/29/11 17:08	11H0404
Surr: Toluene-d8 (79-118%)	*100%*										08/29/11 17:08	11H0404
Surr: 1,4-Dichlorobutane (80-130%)	*107%*										08/29/11 17:08	11H0404
Surr: 4-Bromofluorobenzene (81-131%)	*107%*										08/29/11 17:08	11H0404

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUH0047 Bannister Complex [none]	Received: Reported:	08/03/11 09:15 08/31/11 21:20

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.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
RA	Results are from a second analysis of the sample.
ND	Not detected.

5499937	Terracon	Good	24hr-70%	DTW 07/26/11	DTW 08/11/11	good	8/11/11
7343491					DTW 08/10/11	good	
7342868					DTW 08/12/11	good	
7300138					DTW 08/09/11	good	
7229273					DTW 08/12/11	good	
7299278					DTW 08/09/11	good	
7300952					DTW 08/10/11	good	Busted gauge
5502898					DTW 08/09/11	good	
7300954					DTW 08/11/11	good	

VOC EQUIPMENT SIGN-OUT LOGBOOK

EQUIPMENT NUMBER	CLIENT	CONDITION SHIPPED OUT	CALIBRATED	INITIALS/DATE OUT	INITIALS/DATE RETURNED	CONDITION ON RETURN	COMMENTS
7300105	TERRACON	GOOD	24HR - 70%	DTW 07/26/11	DTW 08/11/11	good	
7289097					DTW 08/09/11	good	
7340650					DTW 08/09/11	good	
7300971					DTW 08/11/11	good	
7300947					DTW 08/01/11	good	
7343248					DTW 08/10/11	good	
7299272					DTW 08/09/11	good	
7301111					DTW 08/11/11	good	
7343485					DTW 08/09/11	good	
7343492					DTW 08/11/11	good	
7298377					DTW 08/09/11	good	
7343027					DTW 08/10/11	good	
7342987					DTW 08/12/11	good	
7299277					DTW 08/11/11	good	
7300149					DTW 08/12/11	good	
7301037					DTW 08/11/11	good	
7343025					DTW 08/11/11	good	
7300142					DTW 08/11/11	good	
00001			1HR - 70%		DTW 08/12/11	good	
A168475					DTW 08/12/11	good	
00520					DTW 08/12/11	good	
FC023					DTW 08/12/11	good	
A133246					DTW 08/12/11	good	

VOC EQUIPMENT SIGN-OUT LOGBOOK

EQUIPMENT NUMBER	CLIENT	CONDITION SHIPPED OUT	CALIBRATED	INITIALS/DATE OUT	INITIALS/DATE RETURNED	CONDITION ON RETURN	COMMENTS
FC025	Terracon	Good	1HR-70%	DTW 07/26/11	DTW 08/12/11	Bad gauge	
FC029					DTW 08/12/11	good	
7301138					DTW 08/09/11	good	
7299282					DTW 08/08/11	good	
7301142					DTW 08/08/11	good	

TestAmerica – Austin Laboratory Chain of Custody Addendum **Work Order Number** AUH0047

RECEIVED BY: MJ CLIENT: Terracon Lenexa

DATE/TIME RECEIVED: 8/3/11 09:15 PROJECT: Bannister Complex

UNPACKED DATE/TIME: 8/3/11 12:55 LOGIN BY: [illegible] LOGIN REVIEWED BY: MJ

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: MJ

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: MJ

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 2 VOID, 2 UNUSED CANS RECEIVED

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 CF	TB ☐ SC ☐ Initial CF	TB ☐ SC ☐ Initial CF	TB ☐ SC ☐ Initial CF	TB ☐ SC ☐ Initial CF	TB ☐ SC ☐ Initial CF	TB ☐ SC ☐ Initial CF	TB ☐ SC ☐ Initial 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 approx. amt. of headspace (>6mm) 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: [signature] Date: 8/17/11

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE Revised 07/26/11

TestAmerica
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Canister Samples Chain of Custody Record

AUH0047

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
Address:	13910 W 96th Terr
City/State/Zip	Lenexa KS 66215
Phone:	913-492-7777
FAX:	913-492-7443
Project Name:	GSA
Site:	Bannister Complex
PO.#	02107144

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 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)
Ambient South VOCs	7/29+30 2011	20:27	20:11	-30	-6	5502898	HL0887	✓								X			
BISB - R17 - VOCs	7/29+30 2011	19:50	19:40	-28	-4	7300952	7508	✓							X				
BISB - U19 - VOCs	7/29+30 2011	19:28	19:28	-30	-6	7300954	260	✓			8/3/11	mgf			X				
BISB - A19 - VOCs	7/29+30 2011	19:51	19:51	-29	-4	7289097	HL2097	✓			GOOD				X				
B2B - OD8 - VOCs	7/29+30 2011	19:30	19:30	-30	-4	7306138	5424	✓							X				
BISB - P25 - VOCs	7/29+30 2011	19:17	19:17	7-30	-9	7299277	RA2127	✓							X				
BISB - W17 - VOCs	7/29+30 2011	19:32	19:32	7-30	-8	7343485	RA2460	✓							X				
B2B - OB27 - VOCs	7/29+30 2011	19:08	19:08	7-30	-9	7343492	HL0930	✓							X				
BISB - E23 - VOCs	7/29+30 2011	19:01	18:36	-30	-8	7229273	RA2301	✓							X				

Special Instructions/QC Requirements & Comments:

Samples Shipped by: Tim Easlee	Date/Time: 8-2-11 3:00 pm	Samples Received by: Melanie J. Leary 8/3/11 09:15
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

TAL-4143 (0608)

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

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	Samples Collected By: WWK TEE
Company: Terracon Consultants		Phone: 913-492-7777	
Address: 13910 W 96TH Terr		Email: wwking@terracon.com	
City/State/Zip Lenexa KS 66215		Site Contact:	
Phone: 913-492-7777		LAB Contact:	
FAX: 913-492 7443		Analysis Turnaround Time	
Project Name: GSA		Standard (Specify) X	
Site: Bannister Complex		Rush (Specity)	
PO # 02107144			

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)
trip Blank	7-30-11						6666	✓												
trip Blank	8-2-11						239	✓								8/3/11 mjs				
																~~GOOD~~				
																Second ATD				

Special Instructions/QC Requirements & Comments:

Samples Shipped by: Tim Eagley	Date/Time: 8-2-11 3:00pm	Samples Received by: Melanie J. Leary
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
AUH0047-01	HL0889	8/28/2011 2:11:42 PM	-14.24	-2.946955	6	16	1	2.718487	2.718487
AUH0047-02	7508	8/28/2011 2:11:50 PM	-14.24	-2.1611	4.4	15.7	1	2.516786	2.516786
AUH0047-03	260	8/28/2011 2:12:05 PM	-14.24	-2.554027	5.2	16.6	1	2.678425	2.678425
AUH0047-04	HL2097	8/28/2011 2:12:06 PM	-14.24	-2.455796	5	16.3	1	2.63064	2.63064
AUH0047-05	5424	8/28/2011 2:12:06 PM	-14.24	-2.455796	5	16.7	1	2.664584	2.664584
AUH0047-06	RA2127	8/28/2011 2:12:07 PM	-14.24	-2.652259	5.4	16.1	1	2.657982	2.657982
AUH0047-07	RA2410	8/28/2011 2:12:08 PM	-14.24	-1.866405	3.8	16.7	1	2.537662	2.537662
AUH0047-08	HL0930	8/28/2011 2:12:08 PM	-14.24	-2.946955	6	16.1	1	2.727342	2.727342
AUH0047-09	RA2301	8/28/2011 2:12:09 PM	-14.24	-2.554027	5.2	16	1	2.627081	2.627081
AUH0047-10	6666	8/28/2011 2:12:10 PM	-14.7	0	0	0	1	1	1
AUH0047-11	239	8/28/2011 2:12:10 PM	-14.7	0	0	0	1	1	1

PEER REVIEWED BY DTW

Initial Calibration

Response Factor Report GCMS-R1

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration

8-25-11

Calibration Files
20 =RA082414.D 50 =RA082415.D 100 =RA082416.D
250 =RA082417.D 500 =RA082418.D 750 =RA082419.D

1000 =RA082420.D 20A =RA082405.D 50A =RA082406.D 100A =RA082407.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	0.409	0.404	0.403	0.400	0.405	0.419	0.436	0.402	0.405	0.402	0.40874	2.50
3)	t	Ethylene	0.067	0.064	0.064	0.061	0.058	0.064	0.066				0.06344	4.66
4)	t	Acetylene	0.141	0.116	0.112	0.109	0.111	0.117	0.123				0.11842	9.33
5)	t	Ethane	0.051	0.044	0.040	0.031	0.029	0.026	0.027				0.03545	27.14
6)	t	Halocarbon 134A								0.273	0.239	0.220	0.22989	8.93
7)	t	Propylene	0.209	0.173	0.171	0.163	0.169	0.180	0.188				0.17898	8.66
8)	t	Chlorodifluorometha								0.641	0.552	0.511	0.52705	10.38
9)	t	Propane	0.102	0.079	0.078	0.075	0.076	0.080	0.085				0.08221	11.54
10)	t	Dichlorodifluoromet	1.306	1.013	1.018	0.955	0.932	0.957	0.967				1.02109	12.67
11)	t	Chloromethane	0.307	0.245	0.237	0.232	0.231	0.246	0.256				0.25071	10.43
12)	t	Isobutane	0.632	0.501	0.500	0.479	0.484	0.509	0.529				0.51901	10.10
13)	t	Halocarbon 114	1.165	0.935	0.881	0.835	0.820	0.845	0.866				0.90670	13.23
14)	t	Acetaldehyde								0.127	0.108	0.119	0.11350	6.31
15)	t	Vinyl chloride	0.352	0.274	0.268	0.262	0.265	0.283	0.293				0.28535	10.98
16)	t	1-Butene/Isobutene	0.441	0.362	0.347	0.338	0.341	0.359	0.371				0.36555	9.63
17)	t	1,3-Butadiene	0.278	0.227	0.220	0.214	0.214	0.221	0.227				0.22854	9.78
18)	t	n-Butane	0.559	0.457	0.430	0.416	0.417	0.435	0.453				0.45244	10.98
19)	t	Methanol								0.084	0.066	0.057	0.05760	23.12
20)	t	trans-2-Butene	0.415	0.340	0.323	0.311	0.313	0.329	0.338				0.33847	10.45
21)	t	Neopentane								1.061	0.932	0.863	0.90304	8.30
22)	t	Dichlorofluorometha								0.776	0.702	0.644	0.65682	9.29
23)	t	Bromomethane	0.327	0.264	0.250	0.240	0.243	0.254	0.262				0.26279	11.23
24)	t	cis-2-Butene	0.410	0.335	0.322	0.308	0.313	0.324	0.336				0.33533	10.31
25)	t	Chloroethane	0.190	0.151	0.142	0.136	0.138	0.147	0.153				0.15086	12.07
26)	t	Vinyl bromide								0.299	0.271	0.254	0.26098	7.03
27)	t	3-Methyl-1-butene	0.840	0.660	0.622	0.609	0.604	0.624	0.641				0.65714	12.58
28)	t	Ethanol								0.119	0.079	0.118	0.09257	19.91
29)	t	Acetonitrile								0.232	0.218	0.208	0.21444	3.98
30)	t	Acrolein								0.102	0.094	0.096	0.09670	3.55
31)	t	Isopentane	0.434	0.347	0.330	0.308	0.301	0.322	0.328				0.33859	13.16
32)	t	Trichlorofluorometh	1.219	0.990	0.925	0.857	0.832	0.828	0.815				0.92391	15.66
33)	t	1-Pentene	0.457	0.370	0.344	0.334	0.334	0.344	0.348				0.36147	12.10
34)	t	Acetone								0.626	0.554	0.521	0.52482	9.62
35)	T	2-Propanol								0.526	0.442	0.403	0.39617	18.31
36)	t	Acrylonitrile								0.194	0.170	0.173	0.17524	4.85
37)	t	n-Pentane	0.616	0.495	0.466	0.449	0.441	0.451	0.455				0.48193	12.79
38)	T	Diethyl ether								0.137	0.120	0.115	0.11951	6.80
39)	t	Isoprene	0.410	0.327	0.305	0.302	0.301	0.315	0.323				0.32632	11.79

40)	t	trans-2-Pentene	0.678	0.553	0.521	0.512	0.508	0.525	0.535				0.54743	10.87
41)	t	1,1-Dichloroethene	0.671	0.539	0.514	0.488	0.481	0.486	0.488				0.52371	13.02
42)	t	cis-2-Pentene	0.653	0.558	0.521	0.508	0.503	0.522	0.530				0.54209	9.57
43)	t	Methylene chloride	0.444	0.367	0.344	0.326	0.321	0.327	0.329				0.35114	12.56
44)	t	2-Methyl-2-butene	0.679	0.564	0.526	0.519	0.515	0.532	0.538				0.55322	10.44
45)	t	Carbon Disulfide								0.934	0.847	0.781	0.80356	8.09
46)	t	3-Chloropropene	0.379	0.336	0.312	0.305	0.301	0.309	0.312				0.32217	8.52
47)	t	Halocarbon 113	0.475	0.384	0.357	0.338	0.329	0.333	0.336				0.36445	14.42
48)	t	Neohexane	0.501	0.415	0.388	0.366	0.359	0.370	0.372				0.39594	12.63
49)	t	Cyclopentene	0.754	0.611	0.587	0.564	0.562	0.582	0.581				0.60595	11.12
50)	t	trans-1,2-Dichloroe	0.552	0.452	0.419	0.402	0.391	0.399	0.481				0.44222	13.14
51)	t	4-Methyl-1-pentene	0.507	0.414	0.383	0.371	0.368	0.373	0.459				0.41051	13.03
52)	T	1-Propanol								0.047	0.046	0.039	0.03770	18.18
53)	t	1,1-Dichloroethane	0.771	0.634	0.591	0.567	0.571	0.585	0.595				0.61623	11.65
54)	t	Cyclopentane	0.636	0.529	0.513	0.488	0.492	0.508	0.525				0.52737	9.57
55)	t	2,3-Dimethylbutane	0.879	0.710	0.663	0.645	0.645	0.676	0.696				0.70206	11.63
56)	T	Methyl tert-butyl e	1.004	0.858	0.828	0.807	0.816	0.855	0.886				0.86488	7.75
57)	t	Isohexane	0.453	0.359	0.340	0.328	0.326	0.343	0.355				0.35799	12.25
58)	t	Vinyl acetate								0.902	0.815	0.801	0.83538	4.53
59)	t	cis-4-Methyl-2-pent								0.603	0.559	0.523	0.54093	5.79
60)	t	trans-4-Methyl-2-pe								0.723	0.630	0.603	0.62581	7.12
61)	T	Butyraldehyde								0.055	0.050	0.048	0.05054	4.99
62)	t	2-Butanone								0.684	0.636	0.633	0.63716	3.78
63)	t	Chloroprene	0.721	0.597	0.556	0.570	0.572	0.584	0.585				0.59799	9.30
64)	t	3-Methylpentane	0.723	0.592	0.566	0.544	0.547	0.574	0.596				0.59181	10.32
65)	s	Fluorobenzene	0.902	0.917	0.910	0.970	1.046	1.117	1.173	0.865	0.868	0.882	0.97267	10.07
66)	t	2-Methyl-1-pentene	0.594	0.521	0.537	0.508	0.501	0.516	0.558				0.53365	6.12
67)	t	1-Hexene	0.435	0.328	0.341	0.329	0.310	0.330	0.311				0.34077	12.65
68)	t	cis-1,2-Dichloroeth	0.577	0.466	0.447	0.443	0.441	0.458	0.465				0.47086	10.18
69)	t	Bromochloromethane	0.265	0.214	0.204	0.198	0.197	0.206	0.212				0.21387	11.06
70)	t	2-Ethyl-1-butene								0.358	0.323	0.315	0.32848	4.95
71)	t	n-Hexane	0.558	0.467	0.457	0.451	0.464	0.488	0.509				0.48467	7.80
72)	t	Chloroform	0.947	0.778	0.712	0.703	0.702	0.722	0.721				0.75514	11.71
73)	t	cis-3-Hexene								0.440	0.405	0.387	0.40822	4.91
74)	t	trans-2-Hexene	0.670	0.590	0.553	0.565	0.581	0.609	0.629				0.59974	6.74
75)	t	2-Methyl-2-pentene								0.587	0.544	0.511	0.53084	5.18
76)	t	cis-3-Methyl-2-pent								0.440	0.386	0.374	0.39021	5.94
77)	t	cis-2-Hexene	0.574	0.505	0.492	0.494	0.512	0.545	0.558				0.52570	6.23
78)	t	Methylcyclopentane	0.706	0.610	0.579	0.564	0.581	0.610	0.633				0.61201	7.81
79)	t	1,2-Dichloroethane	0.726	0.631	0.561	0.575	0.572	0.583	0.570				0.60259	9.80
80)	t	2,4-Dimethylpentane	0.842	0.693	0.667	0.637	0.653	0.674	0.690				0.69380	9.87
81)	t	1,1,1-Trichloroetha	1.037	0.854	0.816	0.778	0.772	0.783	0.787				0.83238	11.37
82)	i	Chlorobenzene-d5	----------ISTD----------											
83)	T	Methylcyclopentene								2.163	2.012	1.889	1.82949	11.52
84)	t	Benzene	2.236	1.814	1.749	1.623	1.461	1.412	1.387				1.66879	17.97
85)	t	Carbon tetrachlorid	2.843	2.210	2.159	1.856	1.558	1.421	1.332				1.91116	28.03
86)	T	1-Butanol								0.577	0.534	0.527	0.52203	7.50
87)	t	Cyclohexane	1.631	1.345	1.278	1.092	0.968	0.909	0.897				1.16016	23.44
88)	t	Isoheptane	2.364	1.935	1.894	1.665	1.418	1.338	1.318				1.70453	22.61
89)	t	2,3-Dimethylpentane	2.065	1.639	1.570	1.368	1.199	1.135	1.109				1.44071	23.91
90)	T	Cyclohexene								1.523	1.387	1.263	1.22838	14.63
91)	t	3-Methylhexane	1.897	1.517	1.482	1.309	1.150	1.073	1.038				1.35235	22.60
92)	t	1,2-Dichloropropane	0.881	0.704	0.674	0.638	0.576	0.566	0.554				0.65615	17.44
93)	t	Bromodichloromethan	2.210	1.844	1.709	1.604	1.426	1.354	1.278				1.63194	19.86

94)	t	Trichloroethene	0.943	0.750	0.696	0.686	0.624	0.599	0.565				0.69490	18.18
95)	T	1,4-Dioxane								0.473	0.339	0.258	0.27088	37.67
96)	T	1-Heptene								0.739	0.693	0.661	0.64193	9.86
97)	t	2,2,4-Trimethylpent	5.598	4.471	4.303	3.782	3.269	3.091	2.998				3.93026	23.80
98)	t	2-Chloropentane	1.183	1.016	1.010	0.962	0.881	0.849	0.835				0.96244	12.70
99)	t	trans-3-Heptene								1.298	1.161	1.112	1.08986	10.99
100)	t	n-Heptane	0.870	0.695	0.712	0.644	0.588	0.571	0.562				0.66317	16.36
101)	T	cis-3-Heptene								1.295	1.237	1.172	1.12432	10.83
102)	T	trans-2-Heptene								1.035	1.017	0.964	0.95250	6.39
103)	T	2,4,4-Trimethyl-1-p								3.255	3.010	2.719	2.60919	16.01
104)	t	cis-1,3-Dichloropro	1.020	0.868	0.775	0.856	0.815	0.811	0.760				0.84361	10.32
105)	T	Methylisobutylketon								2.053	1.756	1.605	1.63046	13.38
106)	t	Methylcyclohexane	1.749	1.441	1.425	1.234	1.072	1.021	1.000				1.27726	21.62
107)	T	2,4,4-Trimethyl-2-p								2.494	2.291	2.084	1.98242	16.93
108)	T	2,5-Dimethylhexane								2.421	2.187	1.954	1.88878	17.20
109)	T	2,2,3-Trimethylpent								4.113	3.758	3.345	3.22586	17.42
110)	t	trans-1,3-Dichlorop	0.916	0.787	0.718	0.787	0.751	0.750	0.694				0.77188	9.33
111)	t	1,1,2-Trichloroetha	0.627	0.554	0.509	0.492	0.469	0.467	0.455				0.51043	11.99
112)	t	2,3,4-Trimethylpent	3.252	2.534	2.465	2.174	1.885	1.774	1.704				2.25554	24.24
113)	s	Toluene-d8	1.754	1.772	1.806	1.780	1.746	1.725	1.737	1.706	1.751	1.722	1.75488	1.60
114)	t	Toluene	1.848	1.543	1.498	1.475	1.405	1.404	1.382				1.50795	10.67
115)	s	1,4-Dichlorobutane	0.137	0.141	0.141	0.143	0.142	0.156	0.146	0.141	0.142	0.143	0.14162	3.56
116)	t	2-Hexanone								1.427	1.301	0.983	1.06823	19.35
117)	t	2-Methylheptane	2.186	1.798	1.794	1.534	1.407	1.314	1.270				1.61479	20.39
118)	T	1-Methylcyclohexene								1.370	1.323	1.234	1.21557	8.98
119)	t	Dibromochloromethan	1.157	0.990	0.927	0.888	0.827	0.808	0.761				0.90835	14.74
120)	t	3-Methylheptane	1.213	1.019	1.004	0.898	0.807	0.773	0.765				0.92558	17.74
121)	T	Hexanal								0.205	0.182	0.151	0.16680	11.88
122)	t	1,2-Dibromoethane	0.899	0.741	0.610	0.672	0.627	0.626	0.574				0.67832	16.36
123)	T	2,2,5-Trimethylhexa								4.899	4.543	4.097	3.91739	16.55
124)	T	1-Octene								0.789	0.727	0.721	0.71769	5.43
125)	t	n-Octane	1.787	1.587	1.606	1.503	1.394	1.346	1.306				1.50414	11.31
126)	t	Tetrachloroethene	0.711	0.596	0.550	0.536	0.511	0.508	0.496				0.55827	13.47
127)	T	cis-2-Octene								0.999	0.915	0.923	0.93602	3.72
128)	t	Chlorobenzene	0.941	0.827	0.774	0.763	0.741	0.751	0.728				0.78928	9.40
129)	t	Ethylbenzene	1.633	1.462	1.548	1.521	1.493	1.521	1.483				1.52283	3.69
130)	t	m/p-Xylene	1.482	1.327	1.349	1.310	1.273	1.277	1.233				1.32164	6.09
131)	t	Bromoform	0.698	0.591	0.562	0.534	0.504	0.499	0.470				0.55126	13.84
132)	T	Butyl acrylate								1.204	1.309	1.281	1.16271	12.44
133)	T	Heptanal								0.288	0.294	0.278	0.26820	8.70
134)	t	Styrene	0.691	0.594	0.608	0.613	0.613	0.634	0.619				0.62459	5.08
135)	t	1,1,2,2-Tetrachloro	1.043	0.841	0.833	0.815	1.047	1.067	1.100				0.96387	13.18
136)	t	o-Xylene	1.541	1.377	1.407	1.355	1.303	1.294	1.235				1.35868	7.27
137)	T	1-Nonene								0.560	0.561	0.564	0.58383	3.73
138)	t	cis-4-Nonene								1.194	1.173	1.130	1.17405	2.40
139)	t	trans-4-Nonene								1.213	1.155	1.089	1.12632	5.93
140)	t	n-Nonane	1.405	1.290	1.361	1.277	1.228	1.209	1.147				1.27385	6.97
141)	s	1,4-Bromofluorobenz	0.668	0.666	0.680	0.655	0.648	0.670	0.642	0.662	0.663	0.656	0.65748	2.07
142)	t	Isopropylbenzene	2.304	2.088	2.159	2.077	2.039	2.082	1.955				2.10060	5.17
143)	T	Benzaldehyde								0.566	0.626	0.479	0.53865	14.59
144)	t	alpha-Pinene	3.159	2.653	2.645	2.355	2.050	1.944	1.879				2.38357	19.55
145)	T	o/m-Chlorotoluene								1.027	0.939	0.902	0.93606	4.69
146)	T	p-Chlorotoluene								0.907	0.834	0.818	0.84188	3.83
147)	t	n-Propylbenzene	1.944	1.671	1.791	1.749	2.005	2.443	2.234				1.97675	14.09
148)	t	m-Ethyltoluene	1.453	1.254	1.316	1.331	1.820	2.041	2.073				1.61273	22.07

149)	t	p-Ethyltoluene	1.283	1.147	1.196	1.189	1.648	1.879	1.893				1.46195	22.87
150)	t	1,3,5-Trimethylbenz	1.570	1.376	1.389	1.477	1.978	2.015	2.111				1.70224	18.80
151)	t	o-Ethyltoluene	1.619	1.469	1.519	1.607	2.248	2.314	2.439				1.88778	22.44
152)	t	beta-Pinene	3.027	2.576	2.612	2.372	2.128	2.045	1.952				2.38765	15.94
153)	t	1,2,4-Trimethylbenz	1.313	1.121	1.129	1.403	1.858	1.901	2.038				1.53773	25.09
154)	T	tert-Butylbenzene								1.983	1.896	1.885	1.98826	5.13
155)	T	1-Decene								0.428	0.391	0.386	0.52108	28.11
156)	t	Benzyl chloride	0.788	0.555	0.454	1.019	1.038	1.141	1.261				0.89379	33.94
157)	t	m-Dichlorobenzene	0.561	0.464	0.460	0.534	0.783	0.784	0.867				0.63605	26.72
158)	t	n-Decane	1.761	1.381	1.172	1.664	1.591	1.587	1.612				1.53827	12.87
159)	t	p-Dichlorobenzene	0.515	0.432	0.420	0.557	0.763	0.754	0.829				0.61008	27.77
160)	T	Isobutylbenzene								1.732	1.654	1.623	2.08561	24.73
161)	t	1,2,3-Trimethylbenz	1.610	1.264	1.247	2.032	2.068	2.129	2.247				1.79965	23.39
162)	T	p-Isopropyltoluene								1.402	1.237	1.197	1.79579	34.63
163)	t	o-Dichlorobenzene	0.631	0.486	0.420	0.773	0.812	0.834	0.939				0.69945	27.46
164)	T	Limonene								0.724	0.727	0.691	0.94127	28.72
165)	T	Indan								0.801	0.709	0.689	1.03439	38.19
166)	T	Indene								0.553	0.501	0.484	0.90363	52.60
167)	t	m-Diethylbenzene	1.731	1.408	1.019	1.578	1.477	1.589	1.617				1.48844	15.54
168)	t	p-Diethylbenzene	1.424	1.129	0.818	1.297	1.198	1.345	1.381				1.22752	16.94
169)	T	n-Butylbenzene								1.427	1.202	1.009	1.73340	32.97
170)	T	1-Undecene								0.819	0.905	0.850	0.86908	3.82
171)	T	n-Undecane								1.908	2.159	2.115	2.12773	4.90
172)	t	1,2,4-Trichlorobenz	0.799	0.758	0.864	0.762	0.590	0.584	0.927				0.75482	17.10
173)	T	Naphthalene								1.729	2.099	2.082	2.34807	16.91
174)	t	Hexachloro-1,3-buta	1.368	1.246	1.342	1.201	0.889	0.780	1.086				1.13022	19.87

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

RA110824.M Thu Aug 25 13:00:26 2011 DAH

Calibration Table Report

Method: RA110824.M

Title:

Last Calibration: Thu Aug 25 12:26:45 2011

8-25-11

Calibration Files

Compound	20	50	100	250	500	750	1000	20A	50A	100A	250A	500A	750A	999A	Avg	%RSD
	RA082414.	RA082415.	RA082416.	RA082417.	RA082418.	RA082419.	RA082420.	RA082405.	RA082406.	RA082407.	RA082408.	RA082409.	RA082410.	RA082411.D		
1,1-Dichloro-1-Fluoroethane	ISTD															
2-Bromo-1,1,1-trifluoroethane	0.409	0.404	0.403	0.400	0.405	0.419	0.436	0.402	0.405	0.402	0.402	0.401	0.413	0.422	0.40874	2.50
Ethylene	0.067	0.064	0.064	0.061	0.058	0.064	0.066								0.06344	4.66
Acetylene	0.141	0.116	0.112	0.109	0.111	0.117	0.123								0.11842	9.33
Ethane	0.051	0.044	0.040	0.031	0.029	0.026	0.027								0.03545	27.14
Halocarbon 134A								0.273	0.239	0.220	0.218	0.214	0.220	0.226	0.22989	8.93
Propylene	0.209	0.173	0.171	0.163	0.169	0.180	0.188								0.17898	8.66
Chlorodifluoromethane								0.641	0.552	0.511	0.500	0.487	0.495	0.502	0.52705	10.38
Propane	0.102	0.079	0.078	0.075	0.076	0.080	0.085					0.457			0.08221	11.54
Dichlorodifluoromethane	1.306	1.013	1.018	0.955	0.932	0.957	0.967						8-25-11		1.02109	12.67
Chloromethane	0.307	0.245	0.237	0.232	0.231	0.246	0.256								0.25071	10.43
Isobutane	0.632	0.501	0.500	0.479	0.484	0.509	0.529								0.51901	10.10
Halocarbon 114	1.165	0.935	0.881	0.835	0.820	0.845	0.866								0.90670	13.23
Acetaldehyde								0.127	0.108	0.119	0.109	0.108	0.111	0.113	0.11350	6.31
Vinyl chloride	0.352	0.274	0.268	0.262	0.265	0.283	0.293								0.28535	10.98
1-Butene/Isobutene	0.441	0.362	0.347	0.338	0.341	0.359	0.371								0.36555	9.63
1,3-Butadiene	0.278	0.227	0.220	0.214	0.214	0.221	0.227								0.22854	9.78
n-Butane	0.559	0.457	0.430	0.416	0.417	0.435	0.453								0.45244	10.98
Methanol					0.417			0.084	0.066	0.057	0.051	0.048	0.049	0.048	0.05760	23.12
trans-2-Butene	0.415	0.340	0.323	0.311	0.313	0.329	0.338								0.33847	10.45
Neopentane								1.061	0.932	0.863	0.863	0.843	0.870	0.889	0.90304	8.30
Dichlorofluoromethane								0.776	0.702	0.644	0.629	0.610	0.616	0.620	0.65682	9.29
Bromomethane	0.327	0.264	0.250	0.240	0.243	0.254	0.262								0.26279	11.23
cis-2-Butene	0.410	0.335	0.322	0.308	0.313	0.324	0.336								0.33533	10.31
Chloroethane	0.190	0.151	0.142	0.136	0.138	0.147	0.153								0.15086	12.07
Vinyl bromide								0.299	0.271	0.254	0.249	0.246	0.251	0.257	0.26098	7.03
3-Methyl-1-butene	0.840	0.660	0.622	0.609	0.604	0.624	0.641								0.65714	12.58
Ethanol								0.119	0.079	0.118	0.091	0.083	0.082	0.075	0.09257	19.91
Acetonitrile								0.232	0.218	0.208	0.208	0.207	0.213	0.215	0.21444	3.98
Acrolein								0.102	0.094	0.096	0.093	0.093	0.099	0.100	0.09670	3.55
Isopentane	0.434	0.347	0.330	0.308	0.301	0.322	0.328								0.33859	13.16
Trichlorofluoromethane	1.219	0.990	0.925	0.857	0.832	0.828	0.815								0.92391	15.66
1-Pentene	0.457	0.370	0.344	0.334	0.334	0.344	0.348								0.36147	12.10
Acetone								0.626	0.554	0.521	0.501	0.485	0.492	0.494	0.52482	9.62
2-Propanol								0.526	0.442	0.403	0.377	0.379	0.348	0.299	0.39617	18.31
Acrylonitrile								0.194	0.170	0.173	0.171	0.170	0.172	0.178	0.17524	4.85
n-Pentane	0.616	0.495	0.466	0.449	0.441	0.451	0.455								0.48193	12.79
Diethyl ether								0.137	0.120	0.115	0.117	0.114	0.116	0.118	0.11951	6.80
Isoprene	0.410	0.327	0.305	0.302	0.301	0.315	0.323								0.32632	11.79
trans-2-Pentene	0.678	0.553	0.521	0.512	0.508	0.525	0.535								0.54743	10.87
1,1-Dichloroethene	0.671	0.539	0.514	0.488	0.481	0.486	0.488								0.52371	13.02
cis-2-Pentene	0.653	0.558	0.521	0.508	0.503	0.522	0.530								0.54209	9.57
Methylene chloride	0.444	0.367	0.344	0.326	0.321	0.327	0.329								0.35114	12.56
2-Methyl-2-butene	0.679	0.564	0.526	0.519	0.515	0.532	0.538								0.55322	10.44
Carbon Disulfide								0.934	0.847	0.781	0.775	0.749	0.766	0.773	0.80356	8.09
3-Chloropropene	0.379	0.336	0.312	0.305	0.301	0.309	0.312								0.32217	8.52
Halocarbon 113	0.475	0.384	0.357	0.338	0.329	0.333	0.336								0.36445	14.42
Neohexane	0.501	0.415	0.388	0.366	0.359	0.370	0.372								0.39594	12.63
Cyclopentene	0.754	0.611	0.587	0.564	0.562	0.582	0.581								0.60595	11.12
trans-1,2-Dichloroethene	0.552	0.452	0.419	0.402	0.391	0.399	0.401								0.44222	13.14
4-Methyl-1-pentene	0.507	0.414	0.383	0.371	0.368	0.373	0.459								0.41051	13.03
1-Propanol								0.047	0.046	0.039	0.035	0.037	0.033	0.028	0.03770	18.18
1,1-Dichloroethane	0.771	0.634	0.591	0.567	0.571	0.585	0.595								0.61623	11.65
Cyclopentane	0.636	0.529	0.513	0.488	0.492	0.508	0.525								0.52737	9.57
2,3-Dimethylbutane	0.879	0.710	0.663	0.645	0.645	0.676	0.696								0.70206	11.63
Methyl tert-butyl ether	1.004	0.858	0.828	0.807	0.816	0.855	0.886								0.86488	7.75
Isohexane	0.453	0.359	0.340	0.328	0.326	0.343	0.355								0.35800	12.25

	Vinyl acetate								0.902	0.815	0.801	0.828	0.795	0.844	0.863	0.83538	4.53
	cis-4-Methyl-2-pentene								0.603	0.559	0.523	0.519	0.515	0.527	0.541	0.54093	5.79
	trans-4-Methyl-2-pentene								0.723	0.630	0.603	0.600	0.592	0.611	0.621	0.62581	7.12
	Butyraldehyde								0.055	0.050	0.048	0.049	0.049	0.051	0.052	0.05054	4.99
	2-Butanone								0.684	0.636	0.633	0.624	0.605	0.635	0.643	0.63716	3.78
	Chloroprene	0.721	0.597	0.556	0.570	0.572	0.584	0.585								0.59799	9.30
	3-Methylpentane	0.723	0.592	0.566	0.544	0.547	0.574	0.596								0.59181	10.32
	Fluorobenzene	0.902	0.917	0.910	0.970	1.046	1.117	1.173	0.865	0.868	0.882	0.921	0.947	1.034	1.065	0.97267	10.07
	2-Methyl-1-pentene	0.594	0.521	0.537	0.508	0.501	0.516	0.558								0.53365	6.12
	1-Hexene	0.435	0.328	0.341	0.329	0.310	0.330	0.311								0.34077	12.65
	cis-1,2-Dichloroethene	0.577	0.466	0.447	0.443	0.441	0.458	0.465								0.47086	10.18
	Bromochloromethane	0.265	0.214	0.204	0.198	0.197	0.206	0.212								0.21387	11.06
	2-Ethyl-1-butene								0.358	0.323	0.315	0.314	0.318	0.331	0.340	0.32848	4.95
	n-Hexane	0.558	0.467	0.457	0.451	0.464	0.488	0.509								0.48467	7.80
	Chloroform	0.947	0.778	0.712	0.703	0.702	0.722	0.721								0.75514	11.71
	cis-3-Hexene								0.440	0.405	0.387	0.390	0.393	0.416	0.427	0.40823	4.91
	trans-2-Hexene	0.670	0.590	0.553	0.565	0.581	0.609	0.629								0.59974	6.74
	2-Methyl-2-pentene								0.587	0.544	0.511	0.514	0.508	0.523	0.528	0.53084	5.18
	cis-3-Methyl-2-pentene								0.440	0.386	0.374	0.376	0.374	0.386	0.395	0.39021	5.94
	cis-2-Hexene	0.574	0.505	0.492	0.494	0.512	0.545	0.558								0.52570	6.23
	Methylcyclopentane	0.706	0.610	0.579	0.564	0.581	0.610	0.633								0.61201	7.81
	1,2-Dichloroethane	0.726	0.631	0.561	0.575	0.572	0.583	0.570								0.60260	9.80
	2,4-Dimethylpentane	0.842	0.693	0.667	0.637	0.653	0.674	0.690								0.69380	9.87
	1,1,1-Trichloroethane	1.037	0.854	0.816	0.778	0.772	0.783	0.787								0.83238	11.37
	Chlorobenzene-d5	ISTD	0.439	0.383	0.499	0.606	0.607	0.756								0.54399	22.78
	Methylcyclopentene								2.163	2.012	1.889	1.821	1.727	1.615	1.580	1.82949	11.52
	Benzene	2.236	1.814	1.749	1.623	1.461	1.412	1.387								1.66879	17.97
	Carbon tetrachloride	2.843	2.210	2.159	1.856	1.558	1.421	1.332								1.91116	28.03
	1-Butanol								0.577	0.534	0.527	0.502	0.471			0.52203	7.50
	Cyclohexane	1.631	1.345	1.278	1.092	0.968	0.909	0.897								1.16016	23.44
	Isoheptane	2.364	1.935	1.894	1.665	1.418	1.338	1.318								1.70453	22.61
	2,3-Dimethylpentane	2.065	1.639	1.570	1.368	1.199	1.135	1.109								1.44071	23.91
	Cyclohexene								1.523	1.387	1.263	1.210	1.140	1.046	1.030	1.22838	14.63
	3-Methylhexane	1.897	1.517	1.482	1.309	1.150	1.073	1.038								1.35235	22.60
	1,2-Dichloropropane	0.881	0.704	0.674	0.638	0.576	0.566	0.554								0.65615	17.44
	Bromodichloromethane	2.210	1.844	1.709	1.604	1.426	1.354	1.278								1.63194	19.86
	Trichloroethene	0.943	0.750	0.696	0.686	0.624	0.599	0.565								0.69490	18.18
	1,4-Dioxane								0.473	0.339	0.258	0.201	0.202	0.214	0.208	0.27088	37.67
	1-Heptene								0.739	0.693	0.661	0.649	0.614	0.574	0.563	0.64193	9.86
	2,2,4-Trimethylpentane	5.598	4.471	4.303	3.782	3.269	3.091	2.998								3.93026	23.80
	2-Chloropentane	1.183	1.016	1.010	0.962	0.881	0.849	0.835								0.96244	12.70
	trans-3-Heptene								1.298	1.161	1.112	1.095	1.045	0.976	0.942	1.08986	10.99
	n-Heptane	0.870	0.695	0.712	0.644	0.588	0.571	0.562								0.66317	16.36
	cis-3-Heptene								1.295	1.237	1.172	1.132	1.076	0.994	0.964	1.12432	10.83
	trans-2-Heptene								1.035	1.017	0.964	0.955	0.938	0.885	0.873	0.95250	6.39
	2,4,4-Trimethyl-1-pentene								3.255	3.010	2.719	2.564	2.405	2.188	2.124	2.60919	16.01
	cis-1,3-Dichloropropene	1.02	0.868	0.775	0.856	0.815	0.811	0.76								0.84361	10.32
	Methylisobutylketone								2.053	1.756	1.605	1.6	1.544	1.447	1.410	1.63046	13.38
	Methylcyclohexane	1.749	1.441	1.425	1.234	1.072	1.021	1								1.27726	21.62
	2,4,4-Trimethyl-2-pentene								2.494	2.291	2.084	1.964	1.829	1.646	1.568	1.98242	16.93
	2,5-Dimethylhexane								2.421	2.187	1.954	1.824	1.732	1.575	1.528	1.88878	17.20
	2,2,3-Trimethylpentane								4.113	3.758	3.345	3.175	2.943	2.667	2.581	3.22586	17.42
	trans-1,3-Dichloropropene	0.916	0.787	0.718	0.787	0.751	0.75	0.694								0.77188	9.33
	1,1,2-Trichloroethane	0.627	0.554	0.509	0.492	0.469	0.467	0.455								0.51043	11.99
	2,3,4-Trimethylpentane	3.252	2.534	2.465	2.174	1.885	1.774	1.704								2.25554	24.24
	Toluene-d8	1.754	1.772	1.806	1.78	1.746	1.725	1.737	1.706	1.751	1.722	1.773	1.795	1.754	1.747	1.75488	1.60
	Toluene	1.848	1.543	1.498	1.475	1.405	1.404	1.382								1.50795	10.67
	1,4-Dichlorobutane	0.137	0.141	0.141	0.143	0.142	0.156	0.146	0.141	0.142	0.143	0.139	0.14	0.136	0.136	0.14162	3.56
	2-Hexanone								1.427	1.301	0.983	0.977	0.936	0.924	0.929	1.06823	19.35
	2-Methylheptane	2.186	1.798	1.794	1.534	1.407	1.314	1.27								1.61479	20.39
	1-Methylcyclohexene								1.37	1.323	1.234	1.228	1.184	1.093	1.076	1.21557	8.98
	Dibromochloromethane	1.157	0.99	0.927	0.888	0.827	0.808	0.761								0.90835	14.74
	3-Methylheptane	1.213	1.019	1.004	0.898	0.807	0.773	0.765								0.92558	17.74
	Hexanal								0.205	0.182	0.151	0.155	0.158	0.156	0.160	0.16680	11.88
	1,2-Dibromoethane	0.899	0.741	0.61	0.672	0.627	0.626	0.574								0.67832	16.36
	2,2,5-Trimethylhexane								4.899	4.543	4.097	3.878	3.6	3.267	3.137	3.91739	16.55
	1-Octene								0.789	0.727	0.721	0.723	0.716	0.677	0.670	0.71769	5.43

	n-Octane	1.787	1.587	1.606	1.503	1.394	1.346	1.306								1.50414	11.31
	Tetrachloroethene	0.711	0.596	0.55	0.536	0.511	0.508	0.496								0.55828	13.47
	cis-2-Octene								0.999	0.915	0.923	0.952	0.954	0.908	0.900	0.93602	3.72
	Chlorobenzene	0.941	0.827	0.774	0.763	0.741	0.751	0.728								0.78928	9.40
	Ethylbenzene	1.633	1.462	1.548	1.521	1.493	1.521	1.483								1.52283	3.69
	m/p-Xylene	1.482	1.327	1.349	1.31	1.273	1.277	1.233								1.32164	6.09
	Bromoform	0.698	0.591	0.562	0.534	0.504	0.499	0.47								0.55126	13.84
	Butyl acrylate								1.204	1.309	1.281	0.93	0.996	1.175	1.243	1.16271	12.44
	Heptanal								0.288	0.294	0.278	0.232	0.241	0.266	0.279	0.26820	8.70
	Styrene	0.691	0.594	0.608	0.613	0.613	0.634	0.619								0.62459	5.08
	1,1,2,2-Tetrachloroethane	1.043	0.841	0.833	0.815	1.047	1.067	1.1								0.96387	13.18
	o-Xylene	1.541	1.377	1.407	1.355	1.303	1.294	1.235								1.35868	7.27
	1-Nonene								0.56	0.561	0.564	0.597	0.609	0.591	0.606	0.58383	3.73
	cis-4-Nonene								1.194	1.173	1.13	1.209	1.197	1.153	1.162	1.17405	2.40
	trans-4-Nonene								1.213	1.155	1.089	1.158	1.179	1.038	1.052	1.12632	5.93
	n-Nonane	1.405	1.29	1.361	1.277	1.228	1.209	1.147								1.27385	6.97
	1,4-Bromofluorobenzene	0.668	0.666	0.68	0.655	0.648	0.67	0.642	0.662	0.663	0.656	0.672	0.648	0.638	0.636	0.65748	2.07
	Isopropylbenzene	2.304	2.088	2.159	2.077	2.039	2.082	1.955								2.10060	5.17
	Benzaldehyde								0.566	0.626	0.479	0.39	0.555	0.574	0.580	0.53865	14.59
	alpha-Pinene	3.159	2.653	2.645	2.355	2.05	1.944	1.879								2.38357	19.55
	o/m-Chlorotoluene								1.027	0.939	0.902	0.944	0.916	0.895	0.931	0.93606	4.69
	p-Chlorotoluene								0.907	0.834	0.818	0.843	0.822	0.813	0.856	0.84188	3.83
	n-Propylbenzene	1.944	1.671	1.791	1.749	2.005	2.443	2.234								1.97675	14.09
	m-Ethyltoluene	1.453	1.254	1.316	1.331	1.82	2.041	2.073								1.61273	22.07
	p-Ethyltoluene	1.283	1.147	1.196	1.189	1.648	1.879	1.893								1.46195	22.87
	1,3,5-Trimethylbenzene	1.57	1.376	1.389	1.477	1.978	2.015	2.111								1.70224	18.80
	o-Ethyltoluene	1.619	1.469	1.519	1.607	2.248	2.314	2.439								1.88778	22.44
	beta-Pinene	3.027	2.576	2.612	2.372	2.128	2.045	1.952								2.38765	15.94
	1,2,4-Trimethylbenzene	1.313	1.121	1.129	1.403	1.858	1.901	2.038								1.53773	25.09
	tert-Butylbenzene								1.983	1.896	1.885	1.914	2.007	2.068	2.164	1.98826	5.13
	1-Decene								0.428	0.391	0.386	0.416	0.635	0.678	0.712	0.52108	28.11
	Benzyl chloride	0.788	0.555	0.454	1.019	1.038	1.141	1.261								0.89379	33.94
	m-Dichlorobenzene	0.561	0.464	0.46	0.534	0.783	0.784	0.867								0.63605	26.72
	n-Decane	1.761	1.381	1.172	1.664	1.591	1.587	1.612								1.53827	12.87
	p-Dichlorobenzene	0.515	0.432	0.42	0.557	0.763	0.754	0.829								0.61008	27.77
	Isobutylbenzene								1.732	1.654	1.623	1.748	2.351	2.665	2.828	2.08561	24.73
	1,2,3-Trimethylbenzene	1.61	1.264	1.247	2.032	2.068	2.129	2.247								1.79965	23.39
	p-Isopropyltoluene								1.402	1.237	1.197	1.365	2.459	2.446	2.464	1.79579	34.63
	o-Dichlorobenzene	0.631	0.486	0.42	0.773	0.812	0.834	0.939								0.69945	27.46
	Limonene								0.724	0.727	0.691	0.762	1.179	1.236	1.269	0.94127	28.72
	Indan								0.801	0.709	0.689	0.721	1.25	1.462	1.608	1.03439	38.19
	Indene								0.553	0.501	0.484	0.556	1.378	1.409	1.445	0.90363	52.60
	m-Diethylbenzene	1.731	1.408	1.019	1.578	1.477	1.589	1.617								1.48844	15.54
	p-Diethylbenzene	1.424	1.129	0.818	1.297	1.198	1.345	1.381								1.22752	16.94
	n-Butylbenzene								1.427	1.202	1.009	1.55	2.394	2.273	2.278	1.73340	32.97
	1-Undecene								0.819	0.905	0.85	0.888	0.906	0.842	0.874	0.86908	3.82
	n-Undecane								1.908	2.159	2.115	2.199	2.22	2.118	2.174	2.12773	4.90
	1,2,4-Trichlorobenzene	0.799	0.758	0.864	0.762	0.59	0.584	0.927								0.75482	17.10
	Naphthalene								1.729	2.099	2.082	2.369	2.757	2.615	2.785	2.34807	16.91
	Hexachloro-1,3-butadiene	1.368	1.246	1.342	1.201	0.889	0.78	1.086								1.13022	19.87
	Thu Aug 25 13:02:17 2011																

Compound List Report GCMS-R1

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
Total Cpnds : 174

BMS 8.25.11

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,1-Dichloro-1-Fluoroethane	81	11.63	1.000	A	3	A	B
2	S	2-Bromo-1,1,1-trifluoroethane	83	10.49	0.902	A	3	A	B
3	T	Ethylene	26	3.43	0.295	A	3	A	B
4	T	Acetylene	26	3.54	0.304	A	3	A	B
5	T	Ethane	26	3.62	0.312	A	2	A	B
6	T	Halocarbon 134A	69	4.42	0.380	A	3	A	B
7	T	Propylene	41	5.21	0.448	A	3	A	B
8	T	Chlorodifluoromethane	51	5.56	0.479	A	3	A	B
9	T	Propane	43	5.36	0.461	A	3	A	B
10	T	Dichlorodifluoromethane	85	5.88	0.505	A	3	A	B
11	T	Chloromethane	50	6.72	0.578	A	3	A	B
12	T	Isobutane	43	7.37	0.634	A	3	A	B
13	T	Halocarbon 114	85	7.58	0.652	A	3	A	B
14	T	Acetaldehyde	44	7.54	0.648	A	3	A	B
15	T	Vinyl chloride	62	7.81	0.672	A	3	A	B
16	T	1-Butene/Isobutene	41	8.25	0.709	A	3	A	B
17	T	1,3-Butadiene	39	8.36	0.719	A	3	A	B
18	T	n-Butane	43	8.51	0.732	A	3	A	B
19	T	Methanol	31	8.31	0.714	A	1	A	B
20	T	trans-2-Butene	41	8.89	0.765	A	3	A	B
21	T	Neopentane	57	8.93	0.768	A	3	A	B
22	T	Dichlorofluoromethane	67	10.18	0.875	A	3	A	B
23	T	Bromomethane	94	9.05	0.778	A	3	A	B
24	T	cis-2-Butene	41	9.37	0.806	A	3	A	B
25	T	Chloroethane	64	9.64	0.829	A	3	A	B
26	T	Vinyl bromide	106	10.41	0.896	A	3	A	B
27	T	3-Methyl-1-butene	55	10.45	0.899	A	3	A	B
28	T	Ethanol	45	10.46	0.900	A	2	A	B
29	T	Acetonitrile	41	10.61	0.912	A	3	A	B
30	T	Acrolein	56	10.84	0.932	A	3	A	B
31	T	Isopentane	41	11.08	0.953	A	3	A	B
32	T	Trichlorofluoromethane	101	11.35	0.976	A	3	A	B
33	T	1-Pentene	42	11.66	1.003	A	3	A	B
34	T	Acetone	43	11.13	0.958	A	2	A	B
35	T	2-Propanol	45	11.88	1.022	A	3	A	B
36	T	Acrylonitrile	52	12.06	1.038	A	3	A	B
37	T	n-Pentane	43	12.08	1.039	A	3	A	B
38	T	Diethyl ether	74	12.25	1.054	A	3	A	B
39	T	Isoprene	67	12.26	1.054	A	3	A	B
40	T	trans-2-Pentene	55	12.41	1.068	A	3	A	B
41	T	1,1-Dichloroethene	61	12.50	1.075	A	3	A	B
42	T	cis-2-Pentene	55	12.71	1.093	A	3	A	B
43	T	Methylene chloride	49	12.83	1.104	A	3	A	B
44	T	2-Methyl-2-butene	55	12.90	1.109	A	3	A	B
45	T	Carbon Disulfide	76	12.92	1.112	A	1	A	B
46	T	3-Chloropropene	41	13.00	1.118	A	2	A	B
47	T	Halocarbon 113	151	13.30	1.144	A	3	A	B
48	T	Neohexane	43	13.46	1.158	A	3	A	B
49	T	Cyclopentene	67	14.17	1.218	A	3	A	B
50	T	trans-1,2-Dichloroethene	61	14.33	1.233	A	3	A	B
51	T	4-Methyl-1-pentene	43	14.37	1.236	A	3	A	B
52	T	1-Propanol	59	14.31	1.231	A	3	A	B
53	T	1,1-Dichloroethane	63	14.62	1.258	A	3	A	B
54	T	Cyclopentane	42	14.61	1.257	A	3	A	B
55	T	2,3-Dimethylbutane	43	14.72	1.266	A	3	A	B
56	T	Methyl tert-butyl ether	73	14.80	1.273	A	3	A	B
57	T	Isohexane	42	14.93	1.284	A	3	A	B
58	T	Vinyl acetate	43	15.03	1.292	A	2	A	B
59	T	cis-4-Methyl-2-pentene	69	14.86	1.279	A	3	A	B
60	T	trans-4-Methyl-2-pentene	69	14.99	1.290	A	3	A	B
61	T	Butyraldehyde	72	15.09	1.298	A	3	A	B
62	T	2-Butanone	43	15.31	1.317	A	3	A	B
63	T	Chloroprene	53	15.50	1.333	A	3	A	B
64	T	3-Methylpentane	57	15.53	1.336	A	3	A	B
65	S	Fluorobenzene	96	18.99	1.634	A	2	A	B

66		T	2-Methyl-1-pentene	56	15.76	1.355	A	3	A	B
67		T	1-Hexene	41	15.80	1.359	A	3	A	B
68		T	cis-1,2-Dichloroethene	61	15.93	1.370	A	3	A	B
69		T	Bromochloromethane	130	16.16	1.390	A	3	A	B
70		T	2-Ethyl-1-butene	69	16.25	1.398	A	3	A	B
71		T	n-Hexane	57	16.29	1.401	A	3	A	B
72		T	Chloroform	83	16.40	1.411	A	3	A	B
73		T	cis-3-Hexene	55	16.43	1.413	A	3	A	B
74		T	trans-2-Hexene	55	16.51	1.420	A	3	A	B
75		T	2-Methyl-2-pentene	41	16.60	1.428	A	3	A	B
76		T	cis-3-Methyl-2-pentene	69	16.72	1.438	A	3	A	B
77		T	cis-2-Hexene	55	16.91	1.454	A	3	A	B
78		T	Methylcyclopentane	56	17.43	1.499	A	3	A	B
79		T	1,2-Dichloroethane	62	17.45	1.501	A	3	A	B
80		T	2,4-Dimethylpentane	43	17.61	1.515	A	3	A	B
81		T	1,1,1-Trichloroethane	97	17.79	1.531	A	3	A	B
82	I		Chlorobenzene-d5	117	26.16	1.000	A	3	A	B
83		T	Methylcyclopentene	67	18.43	0.705	A	3	A	B
84		T	Benzene	78	18.48	0.706	A	3	A	B
85		T	Carbon tetrachloride	117	18.70	0.715	A	3	A	B
86		T	1-Butanol	56	18.66	0.713	A	3	A	B
87		T	Cyclohexane	56	18.87	0.721	A	3	A	B
88		T	Isoheptane	43	19.27	0.737	A	3	A	B
89		T	2,3-Dimethylpentane	56	19.34	0.739	A	3	A	B
90		T	Cyclohexene	67	19.57	0.748	A	3	A	B
91		T	3-Methylhexane	43	19.65	0.751	A	3	A	B
92		T	1,2-Dichloropropane	63	19.75	0.755	A	3	A	B
93		T	Bromodichloromethane	83	20.07	0.767	A	3	A	B
94		T	Trichloroethene	130	20.14	0.770	A	3	A	B
95		T	1,4-Dioxane	88	20.16	0.771	A	3	A	B
96		T	1-Heptene	55	20.19	0.772	A	3	A	B
97		T	2,2,4-Trimethylpentane	57	20.22	0.773	A	3	A	B
98		T	2-Chloropentane	70	20.45	0.782	A	3	A	B
99		T	trans-3-Heptene	41	20.60	0.788	A	3	A	B
100		T	n-Heptane	71	20.70	0.791	A	3	A	B
101		T	cis-3-Heptene	41	20.74	0.793	A	3	A	B
102		T	trans-2-Heptene	55	20.89	0.799	A	3	A	B
103		T	2,4,4-Trimethyl-1-pentene	57	21.15	0.808	A	3	A	B
104		T	cis-1,3-Dichloropropene	75	21.54	0.823	A	3	A	B
105		T	Methylisobutylketone	43	21.63	0.827	A	3	A	B
106		T	Methylcyclohexane	83	21.61	0.826	A	3	A	B
107		T	2,4,4-Trimethyl-2-pentene	55	21.89	0.837	A	3	A	B
108		T	2,5-Dimethylhexane	57	22.08	0.844	A	3	A	B
109		T	2,2,3-Trimethylpentane	57	22.17	0.848	A	3	A	B
110		T	trans-1,3-Dichloropropene	75	22.41	0.857	A	3	A	B
111		T	1,1,2-Trichloroethane	97	22.65	0.866	A	3	A	B
112		T	2,3,4-Trimethylpentane	43	22.87	0.874	A	3	A	B
113		S	Toluene-d8	98	22.92	0.876	A	2	A	B
114		T	Toluene	91	23.09	0.883	A	3	A	B
115		S	1,4-Dichlorobutane	90	28.05	1.072	A	3	A	B
116		T	2-Hexanone	43	23.63	0.903	A	3	A	B
117		T	2-Methylheptane	43	23.53	0.899	A	3	A	B
118		T	1-Methylcyclohexene	81	23.53	0.900	A	3	A	B
119		T	Dibromochloromethane	129	23.77	0.909	A	3	A	B
120		T	3-Methylheptane	85	23.85	0.912	A	3	A	B
121		T	Hexanal	44	24.02	0.918	A	3	A	B
122		T	1,2-Dibromoethane	107	24.17	0.924	A	3	A	B
123		T	2,2,5-Trimethylhexane	57	24.29	0.929	A	3	A	B
124		T	1-Octene	55	24.45	0.935	A	3	A	B
125		T	n-Octane	43	24.92	0.953	A	3	A	B
126		T	Tetrachloroethene	164	25.02	0.957	A	3	A	B
127		T	cis-2-Octene	55	25.40	0.971	A	3	A	B
128		T	Chlorobenzene	112	26.23	1.003	A	3	A	B
129		T	Ethylbenzene	91	26.98	1.031	A	3	A	B
130		T	m/p-Xylene	91	27.35	1.046	A	3	A	B
131		T	Bromoform	173	27.38	1.047	A	3	A	B
132		T	Butyl acrylate	55	27.95	1.069	A	3	A	B
133		T	Heptanal	70	28.09	1.074	A	3	A	B
134		T	Styrene	104	28.02	1.071	A	3	A	B
135		T	1,1,2,2-Tetrachloroethane	83	28.23	1.079	A	3	A	B
136		T	o-Xylene	91	28.23	1.079	A	3	A	B
137		T	1-Nonene	56	28.41	1.086	A	3	A	B
138		T	cis-4-Nonene	55	28.59	1.093	A	3	A	B
139		T	trans-4-Nonene	55	28.68	1.096	A	3	A	B

140	T	n-Nonane	43	28.84	1.103	A	3	A	B
141	S	1,4-Bromofluorobenzene	95	29.14	1.114	A	3	A	B
142	T	Isopropylbenzene	105	29.46	1.126	A	3	A	B
143	T	Benzaldehyde	77	30.16	1.153	A	3	A	B
144	T	alpha-Pinene	93	30.24	1.156	A	3	A	B
145	T	o/m-Chlorotoluene	91	30.42	1.163	A	3	A	B
146	T	p-Chlorotoluene	91	30.57	1.169	A	3	A	B
147	T	n-Propylbenzene	91	30.56	1.168	A	3	A	B
148	T	m-Ethyltoluene	105	30.81	1.178	A	3	A	B
149	T	p-Ethyltoluene	105	30.90	1.181	A	3	A	B
150	T	1,3,5-Trimethylbenzene	105	31.09	1.189	A	3	A	B
151	T	o-Ethyltoluene	105	31.49	1.204	A	3	A	B
152	T	beta-Pinene	93	31.77	1.214	A	3	A	B
153	T	1,2,4-Trimethylbenzene	105	32.02	1.224	A	3	A	B
154	T	tert-Butylbenzene	119	32.00	1.223	A	3	A	B
155	T	1-Decene	56	32.07	1.226	A	3	A	B
156	T	Benzyl chloride	91	32.30	1.235	A	3	A	B
157	T	m-Dichlorobenzene	146	32.30	1.235	A	3	A	B
158	T	n-Decane	57	32.48	1.242	A	3	A	B
159	T	p-Dichlorobenzene	146	32.48	1.242	A	3	A	B
160	T	Isobutylbenzene	91	32.57	1.245	A	3	A	B
161	T	1,2,3-Trimethylbenzene	105	33.04	1.263	A	3	A	B
162	T	p-Isopropyltoluene	119	33.11	1.266	A	3	A	B
163	T	o-Dichlorobenzene	146	33.30	1.273	A	3	A	B
164	T	Limonene	68	33.47	1.279	A	3	A	B
165	T	Indan	117	33.49	1.280	A	3	A	B
166	T	Indene	115	33.71	1.289	A	3	A	B
167	T	m-Diethylbenzene	105	33.92	1.297	A	3	A	B
168	T	p-Diethylbenzene	119	34.15	1.306	A	3	A	B
169	T	n-Butylbenzene	91	34.19	1.307	A	3	A	B
170	T	1-Undecene	55	35.47	1.356	A	3	A	B
171	T	n-Undecane	57	35.84	1.370	A	3	A	B
172	T	1,2,4-Trichlorobenzene	180	37.85	1.447	A	3	A	B
173	T	Naphthalene	128	38.04	1.454	A	3	A	B
174	T	Hexachloro-1,3-butadiene	225	38.81	1.484	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

RA110824.M Thu Aug 25 13:00:09 2011 DAH

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	Purity (102	0.01046		Purity (ext)	0.0106				
Compounc	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	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Acetylene	74-86-2	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Ethane	74-84-0	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Halocarbo	811-97-2	0.0106	20.4	51	102	255	510	765	1020
Propylene	115-07-1	0.01046	19.8	49.5	99	247.5	495	742.5	990
Chlorodiflu	75-45-6	0.0106	21	52.5	105	262.5	525	787.5	1050
Propane	74-98-6	0.01046	19.6	49	98	245	490	735	980
Dichlorodif	75-71-8	0.01046	19.8	49.5	99	247.5	495	742.5	990
Chlorometl	74-87-3	0.01046	20	50	100	250	500	750	1000
Isobutane	75-28-5	0.01046	19.6	49	98	245	490	735	980
Halocarbo	76-14-2	0.01046	19.6	49	98	245	490	735	980
Acetaldehy	75-07-0	0.0106	20.4	51	102	255	510	765	1020
Vinyl chlori	75-01-4	0.01046	19.8	49.5	99	247.5	495	742.5	990
1-Butene/I	106-98-9	0.01046	19.4	48.5	97	242.5	485	727.5	970
1,3-Butadi	106-99-0	0.01046	21	52.5	105	262.5	525	787.5	1050
n-Butane	106-97-8	0.01046	19.4	48.5	97	242.5	485	727.5	970
Methanol	67-56-1	0.0106	20.8	52	104	260	520	780	1040
trans-2-Bu	624-64-6	0.01046	19.4	48.5	97	242.5	485	727.5	970
Neopentan	463-82-1	0.0106	21	52.5	105	262.5	525	787.5	1050
Dichloroflu	75-43-4	0.0106	21.2	53	106	265	530	795	1060
Bromometl	74-83-9	0.01046	19.8	49.5	99	247.5	495	742.5	990
cis-2-Buter	590-18-1	0.01046	20.8	52	104	260	520	780	1040
Chloroetha	75-00-3	0.01046	19.8	49.5	99	247.5	495	742.5	990
Vinyl Brom	593-60-2	0.0106	20.6	51.5	103	257.5	515	772.5	1030
3-Methyl-1	563-45-1	0.01046	21	52.5	105	262.5	525	787.5	1050
Ethanol	64-17-5	0.0106	20.4	51	102	255	510	765	1020
Acetonitrile	75-05-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Acrolein	107-02-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Isopentane	78-78-4	0.01046	19.8	49.5	99	247.5	495	742.5	990
Trichloroflu	75-69-4	0.01046	20.6	51.5	103	257.5	515	772.5	1030
1-Pentene	109-67-1	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Acetone	67-64-1	0.0106	22	55	110	275	550	825	1100
2-Propanol	67-63-0	0.0106	24	60	120	300	600	900	1200
Acrylonitrile	107-13-1	0.0106	21	52.5	105	262.5	525	787.5	1050
n-Pentane	109-66-0	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Diethyl eth	60-29-7	0.0106	20.4	51	102	255	510	765	1020
Isoprene	78-79-5	0.01046	20.4	51	102	255	510	765	1020
trans-2-Pe	646-04-8	0.01046	21	52.5	105	262.5	525	787.5	1050
1,1-Dichlor	75-35-4	0.01046	20.8	52	104	260	520	780	1040
cis-2-Pente	627-20-3	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Methylene	75-09-2	0.01046	20.4	51	102	255	510	765	1020
2-Methyl-2	513-35-9	0.01046	21.4	53.5	107	267.5	535	802.5	1070
Carbon Di	75-15-0	0.0106	20.6	51.5	103	257.5	515	772.5	1030
3-Chloropr	107-05-1	0.01046	21.2	53	106	265	530	795	1060
Halocarbo	76-13-1	0.01046	20.6	51.5	103	257.5	515	772.5	1030
Neohexane	75-83-2	0.01046	20.4	51	102	255	510	765	1020

Cyclopente	142-29-0	0.01046	19.8	49.5	99	247.5	495	742.5	990
trans-1,2-D	156-60-5	0.01046	20.8	52	104	260	520	780	1040
4-Methyl-1·	691-37-2	0.01046	20.4	51	102	255	510	765	1020
1-Propanol	71-23-8	0.0106	24	60	120	300	600	900	1200
1,1-Dichlor	75-34-3	0.01046	21.2	53	106	265	530	795	1060
Cyclopenta	287-92-3	0.01046	20.4	51	102	255	510	765	1020
2,3-Dimeth	79-29-8	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Methyl tert·	1634-04-4	0.01046	20.4	51	102	255	510	765	1020
Isohexane	107-83-5	0.01046	20.8	52	104	260	520	780	1040
Vinyl Aceta	108-05-4	0.0106	22	55	110	275	550	825	1100
cis-4-Meth	691-38-3	0.0106	20.8	52	104	260	520	780	1040
trans-4-Me	674-76-0	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Butyraldeh	123-72-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
2-Butanon	78-93-3	0.0106	21.8	54.5	109	272.5	545	817.5	1090
Chloroprer	126-99-8	0.01046	20.2	50.5	101	252.5	505	757.5	1010
3-Methylpe	96-14-0	0.01046	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	0.01046	20.4	51	102	255	510	765	1020
1-Hexene	592-41-6	0.01046	20.2	50.5	101	252.5	505	757.5	1010
cis-1,2-Dic	156-59-2	0.01046	21	52.5	105	262.5	525	787.5	1050
Bromochlo	74-97-5	0.01046	20.4	51	102	255	510	765	1020
2-Ethyl-1-b	760-21-4	0.0106	20	50	100	250	500	750	1000
n-Hexane	110-54-3	0.01046	21.2	53	106	265	530	795	1060
Chloroform	67-66-3	0.01046	20.8	52	104	260	520	780	1040
cis-3-Hexe	7642-09-3	0.0106	20.6	51.5	103	257.5	515	772.5	1030
trans-2-He	4050-45-7	0.01046	21	52.5	105	262.5	525	787.5	1050
2-Methyl-2·	625-27-4	0.0106	20.2	50.5	101	252.5	505	757.5	1010
cis-3-Meth	922-62-3	0.0106	21	52.5	105	262.5	525	787.5	1050
cis-2-Hexe	7688-21-3	0.01046	19.4	48.5	97	242.5	485	727.5	970
1,2-Dichlor	107-06-2	0.01046	21.2	53	106	265	530	795	1060
Methylcycl	96-37-7	0.01046	20.2	50.5	101	252.5	505	757.5	1010
2,4-Dimeth	108-08-7	0.01046	20.6	51.5	103	257.5	515	772.5	1030
1,1,1-Trich	71-55-6	0.01046	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	0.0106	22	55	110	275	550	825	1100
Benzene	71-43-2	0.01046	21.4	53.5	107	267.5	535	802.5	1070
1-Butanol	71-36-3	0.0106	19.4	48.5	97	242.5	485	727.5	970
Carbon tet	56-23-5	0.01046	21	52.5	105	262.5	525	787.5	1050
Cyclohexa	110-82-7	0.01046	21.2	53	106	265	530	795	1060
Isoheptane	31394-54-4	0.01046	20.6	51.5	103	257.5	515	772.5	1030
2,3-Dimeth	565-59-3	0.01046	20.4	51	102	255	510	765	1020
Cyclohexe	110-83-8	0.0106	20.2	50.5	101	252.5	505	757.5	1010
3-Methylhe	589-34-4	0.01046	20.4	51	102	255	510	765	1020
1,2-Dichlor	78-87-5	0.01046	21.2	53	106	265	530	795	1060
Bromodich	75-27-4	0.01046	20.2	50.5	101	252.5	505	757.5	1010
Trichloroet	79-01-6	0.01046	20.2	50.5	101	252.5	505	757.5	1010
1,4-Dioxan	123-91-1	0.0106	20.8	52	104	260	520	780	1040
1-Heptene	592-76-7	0.0106	20	50	100	250	500	750	1000
2,2,4-Trim	540-84-1	0.01046	20.4	51	102	255	510	765	1020
2-Chlorope	625-29-6	0.01046	20.4	51	102	255	510	765	1020
trans-3-He	14686-14-7	0.0106	21.4	53.5	107	267.5	535	802.5	1070
n-Heptane	142-82-5	0.01046	20.6	51.5	103	257.5	515	772.5	1030

cis-3-Hept	7642-10-6	0.0106	21.4	53.5	107	267.5	535	802.5	1070	
trans-2-He	14686-13-	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
2,4,4-Trim	107-39-1	0.0106	20.4	51	102	255	510	765	1020	
cis-1,3-Dic	10061-01-	0.01046	20.8	52	104	260	520	780	1040	
Methylisob	108-10-1	0.0106	21.8	54.5	109	272.5	545	817.5	1090	
Methylcycl	108-87-2	0.01046	20.6	51.5	103	257.5	515	772.5	1030	
2,4,4-Trim	107-40-4	0.0106	20.2	50.5	101	252.5	505	757.5	1010	
2,5-Dimeth	592-13-2	0.0106	20.8	52	104	260	520	780	1040	
2,2,3-Trim	564-02-3	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
trans-1,3-D	10061-02-	0.01046	22	55	110	275	550	825	1100	
1,1,2-Trich	79-00-5	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
2,3,4-Trim	565-75-3	0.01046	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	0.01046	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	0.0106	21.4	53.5	107	257.5	535	802.5	1070	
2-Methylhe	592-27-8	0.01046	20.6	51.5	103	267.5	515	772.5	1030	
1-Methylcy	591-49-1	0.0106	21.4	53.5	107	267.5	535	802.5	1070	
Dibromoch	124-48-1	0.01046	20.8	52	104	260	520	780	1040	
3-Methylhe	589-81-1	0.01046	20.4	51	102	255	510	765	1020	
Hexanal	66-25-1	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
1,2-Dibrom	106-93-4	0.01046	21.6	54	108	270	540	810	1080	
2,2,5-Trim	3522-94-9	0.0106	21.8	54.5	109	272.5	545	817.5	1090	
1-Octene	111-66-0	0.0106	20	50	100	250	500	750	1000	
n-Octane	111-65-9	0.01046	20.6	51.5	103	257.5	515	772.5	1030	
Tetrachlor	127-18-4	0.01046	21.2	53	106	265	530	795	1060	
cis-2-Octe	7642-04-8	0.0106	21	52.5	105	262.5	525	787.5	1050	
Chloroben	108-90-7	0.01046	21.6	54	108	270	540	810	1080	
Ethylbenze	100-41-4	0.01046	21.6	54	108	270	540	810	1080	
m/p-Xylene	106-42-3	0.01046	42.4	106	212	530	1060	1590		2120
Bromoform	75-25-2	0.01046	21.2	53	106	265	530	795	1060	
Butyl Acryl	141-32-2	0.0106	22.8	57	114	285	570	855	1140	
Styrene	100-42-5	0.01046	21.8	54.5	109	272.5	545	817.5	1090	
Heptanal	111-71-7	0.0106	20.6	51.5	103	257.5	515	772.5	1030	
1,1,2,2-Tet	79-34-5	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
o-Xylene	95-47-6	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
1-Nonene	124-11-8	0.0106	19.4	48.5	97	242.5	485	727.5	970	
cis-4-None	10405-84-	0.0106	22.8	57	114	285	570	855	1140	
trans-4-No	10405-85-	0.0106	19.2	48	96	240	480	720	960	
n-Nonane	111-84-2	0.01046	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	0.01046	19.8	49.5	99	247.5	495	742.5	990	
Benzaldeh	100-52-7	0.0106	20.8	52	104	260	520	780	1040	
alpha-Pine	80-56-8	0.01046	21.4	53.5	107	267.5	535	802.5	1070	
o/m-Chlor	2/3-CT	0.0106	42.8	107	214	535	1070	1605		2140
p-Chlorotol	106-43-4	0.0106	21.6	54	108	270	540	810	1080	
n-Propylbe	103-65-1	0.01046	20	50	100	250	500	750	1000	
m-Ethyltol	620-14-4	0.01046	20	50	100	250	500	750	1000	
p-Ethyltolu	622-96-8	0.01046	20.2	50.5	101	252.5	505	757.5	1010	
1,3,5-Trim	108-67-8	0.01046	21.8	54.5	109	272.5	545	817.5	1090	
o-Ethyltolu	611-14-3	0.01046	19.8	49.5	99	247.5	495	742.5	990	
beta-Pinen	127-91-3	0.01046	15	37.5	75	187.5	375	562.5	750	

1,2,4-Trim	95-63-6	0.01046	21.8	54.5	109	272.5	545	817.5	1090
tert-Butylb	98-06-6	0.0106	21.4	53.5	107	267.5	535	802.5	1070
1-Decene	872-05-9	0.0106	21.4	53.5	107	267.5	535	802.5	1070
Benzyl chl	100-44-7	0.01046	21.8	54.5	109	272.5	545	817.5	1090
m-Dichloro	541-73-1	0.01046	21.8	54.5	109	272.5	545	817.5	1090
n-Decane	124-18-5	0.01046	20.6	51.5	103	257.5	515	772.5	1030
p-Dichlorol	106-46-7	0.01046	21.6	54	108	270	540	810	1080
Isobutylber	538-93-2	0.0106	22	55	110	275	550	825	1100
1,2,3-Trim	526-73-8	0.01046	19.6	49	98	245	490	735	980
p-Isopropy	99-87-6	0.0106	22	55	110	275	550	825	1100
o-Dichlorol	95-50-1	0.01046	21.6	54	108	270	540	810	1080
Limonene	138-86-3	0.0106	21	52.5	105	262.5	525	787.5	1050
Indan	496-11-7	0.0106	21	52.5	105	262.5	525	787.5	1050
Indene	95-13-6	0.0106	20.6	51.5	103	257.5	515	772.5	1030
m-Diethylb	141-93-5	0.01046	19.4	48.5	97	242.5	485	727.5	970
p-Diethylbe	105-05-5	0.01046	19.8	49.5	99	247.5	495	742.5	990
n-Butylben	104-51-8	0.0106	22.2	55.5	111	277.5	555	832.5	1110
1-Undecen	821-95-4	0.0106	20.8	52	104	260	520	780	1040

INSTRUMENT GCMS-R1 ANALYST / DATE: NOVL 8/24/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: 8/24/11 Batch ID: NA

DAILY CHECK ✓	INSERT: CHANGED (Y/N) N	SEPTA: CHANGED (Y/N) N	COLUMN: CHANGED (Y/N) N	AUTOSAMPLER MAINT. NA
M. PUMP OIL ✓	TURBO OIL NA	FILAMENT CHANGE NO	OTHER NA	
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: R110328.U Elect Mult. 1624 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: Entech

GC PROGRAM:

GC Meth. RA110612.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: NA

GC COLUMN:

Column ID#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID: 341359

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	WARMUP	RA1784	0.5	4	RA082401	0.01046	VOC-VSP-34-15
2	LCS	↓	↓	4	02	↓	↓
3	BLK	RA2153	↓	1	03	1.0	
4	PREFLUSH	RA1703	0.1	10	04	0.01060	VOC-VSP-34-5
5	EXT BLEND 20	↓	0.02	↓	05	↓	↓
6	50	↓	0.05	↓	06	↓	↓
7	100	↓	0.10	↓	07	↓	↓
8	250	↓	0.25	↓	08	↓	↓
9	500	↓	0.5	↓	09	↓	↓

Instrument Sequence (continued)

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	EXT BLEND 750	RA1703	0.75	10	RA0824 10	0.01060	VOC-VSP-34-5
11	1000		1.0		11		
12	MB1	RA2153	0.5	1	12	1.0	
13	PREFLUSH	RA1748	0.1	6	13	0.01046	VOC-VSP-34-18
14	102 BLEND 20		0.02		14		
15	50		0.05		15		
16	100		0.10		16		
17	250		0.25		17		
18	500		0.50		18		
19	750		0.75		19		
20	1000		1.0		20		
21	MB	RA2153	0.5	1	21	1.0	
22	ICV 102	HR1865		3	22	0.01073	VOC-VSP-34-17
23	LCS	RA1784		4	23	0.01046	VOC-VSP-34-15
24	EXT	RA1822		9	24	0.01034	VOC-VSP-34-7
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

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   Sequence Name: C:\msdchem\1\sequence\R110824.S
         Comment:
        Operator: KDK
       Data Path: C:\MSDCHEM\1\DATA\R110824\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject

   ----------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Sample          1  RA082401 RA110612 WARMUP
 2)  Sample          1  RA082402 RA110612 LCS
 3)  Sample          1  RA082403 RA110612 BLK
 4)  Sample          1  RA082404 RA110612 PREFLUSH,,,,0.01060;EXT
 5)  Sample          1  RA082405 RA110612 EXT BLEND 20,,,,0.01060;EXT
 6)  Sample          1  RA082406 RA110612 EXT BLEND 50,,,,0.01060;EXT
 7)  Sample          1  RA082407 RA110612 EXT BLEND 100,,,,0.01060;EXT
 8)  Sample          1  RA082408 RA110612 EXT BLEND 250,,,,0.01060;EXT
 9)  Sample          1  RA082409 RA110612 EXT BLEND 500,,,,0.01060;EXT
10)  Sample          1  RA082410 RA110612 EXT BLEND 750,,,,0.01060;EXT
11)  Sample          1  RA082411 RA110612 EXT BLEND 1000,,,,0.01060;EXT
12)  Sample          1  RA082412 RA110612 MB
13)  Sample          1  RA082413 RA110612 PREFLUSH,,,,0.01046;102
14)  Sample          1  RA082414 RA110612 102 BLEND 20,,,,0.01046;102
15)  Sample          1  RA082415 RA110612 102 BLEND 50,,,,0.01046;102
16)  Sample          1  RA082416 RA110612 102 BLEND 100,,,,0.01046;102
17)  Sample          1  RA082417 RA110612 102 BLEND 250,,,,0.01046;102
18)  Sample          1  RA082418 RA110612 102 BLEND 500,,,,0.01046;102
19)  Sample          1  RA082419 RA110612 102 BLEND 750,,,,0.01046;102
20)  Sample          1  RA082420 RA110612 102 BLEND 1000,,,,0.01046;102
21)  Sample          1  RA082421 RA110612 MB
22)  Sample          1  RA082422 RA110612 ICV 102,,,,0.01043;102
23)  Sample          1  RA082423 RA110612 ICV LCS,,,,;0.01046;LCS
24)  Sample          1  RA082424 RA110612 ICV EXT,,,,0.01034;EXT
```

MAB 8/25/11

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

Sequence Name: C:\Smart\R110824.SEQ
Date: 08-25-2011
Time: 13:11:16
Int. Std Volume: 200 cc

MM 8-25-11

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
WARMUP	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
LCS	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
BLK	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
PREFLUSH	1	10	100	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 20	1	10	20	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 50	1	10	50	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 100	1	10	100	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 250	1	10	250	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 500	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 750	1	10	750	0	C:\Smart\C053011V2.MPT	12:00
EXT BLEND 1000	1	10	1000	0	C:\Smart\C053011V2.MPT	12:00
BLK	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
PREFLUSH	1	6	100	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 20	1	6	20	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 50	1	6	50	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 100	1	6	100	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 250	1	6	250	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 500	1	6	500	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 750	1	6	750	0	C:\Smart\C053011V2.MPT	12:00
102 BLEND 1000	1	6	1000	0	C:\Smart\C053011V2.MPT	12:00
MB	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
ICV 102	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
ICV LCS	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
ICV EXT	1	9	500	0	C:\Smart\C053011V2.MPT	12:00

BFB

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :

Spectrum Information: Average of 29.110 to 29.160 min.

DAH 8-25-11

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	27.3	5192	PASS
75	95	30	66	63.0	11958	PASS
95	95	100	100	100.0	18993	PASS
96	95	5	9	6.7	1277	PASS
173	174	0.00	2	0.8	107	PASS
174	95	50	120	69.4	13178	PASS
175	174	4	9	7.0	929	PASS
176	174	93	101	95.2	12552	PASS
177	176	5	9	6.4	801	PASS

RA082405.D RA110612.M Thu Aug 25 11:52:28 2011 DAH

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:15 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	294731	2.0000 ppbV	0.01
82) Chlorobenzene-d5	26.16	117	106765	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	118502	1.9908 ppbV	0.02
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.01	96	254928	1.7355 ppbV	0.01
Spiked Amount 2.000			Recovery	= 87.00%	
113) Toluene-d8	22.92	98	182140	2.2409 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.00%	
115) 1,4-Dichlorobutane	28.06	90	15015	1.8799 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.00%	
141) 1,4-Bromofluorobenzene	29.14	95	70657	1.8631 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.44	69	8685	0.2821 ppbV	S	86
8) Chlorodifluoromethane	5.58	51	21043	0.2944 ppbV	S	98
14) Acetaldehyde	7.70	44	4055m	0.3048 ppbV	S	
19) Methanol	8.43	31	2727m	0.3874 ppbV	S	
21) Neopentane	8.95	57	34791	0.2838 ppbV	S	95
22) Dichlorofluoromethane	10.21	67	25705	0.2771 ppbV	S	95
26) Vinyl bromide	10.45	106	9607	0.2611 ppbV	S	83
28) Ethanol	10.54	45	3793m	0.3816 ppbV	S	
29) Acetonitrile	10.71	41	7450	0.2417 ppbV	S	82
30) Acrolein	10.93	56	3273	0.2383 ppbV #	S	34
34) Acetone	11.25	43	21517m	0.2922 ppbV	S	
35) 2-Propanol	11.97	45	19727m	0.3657 ppbV	S	
36) Acrylonitrile	12.13	52	6350	0.2532 ppbV #	S	1
38) Diethyl ether	12.30	74	4379	0.2604 ppbV #	S	1
45) Carbon Disulfide	12.95	76	30042	0.2592 ppbV	S	97
52) 1-Propanol	14.37	59	1768	0.3171 ppbV #	S	1
58) Vinyl acetate	15.07	43	30997	0.3054 ppbV #	S	48
59) cis-4-Methyl-2-pentene	14.88	69	19594	0.2916 ppbV #	S	95
60) trans-4-Methyl-2-pentene	15.02	69	23256	0.3042 ppbV	S	95
61) Butyraldehyde	15.15	72	1779	0.2673 ppbV #	S	1
62) 2-Butanone	15.38	43	23299	0.3112 ppbV #	S	1
70) 2-Ethyl-1-butene	16.27	69	11196	0.2669 ppbV #	S	69
73) cis-3-Hexene	16.45	55	14143	0.2538 ppbV	S	85
75) 2-Methyl-2-pentene	16.62	41	18514	0.2553 ppbV	S	92
76) cis-3-Methyl-2-pentene	16.74	69	14420	0.2787 ppbV	S	92
83) Methylcyclopentene	18.44	67	26925	0.4469 ppbV	S	88
86) 1-Butanol	18.70	56	6341	0.3589 ppbV	S	97
90) Cyclohexene	19.58	67	17409	0.4344 ppbV	S	84
95) 1,4-Dioxane	20.20	88	5569	0.5309 ppbV #	S	50
96) 1-Heptene	20.21	55	8362	0.3409 ppbV #	S	84
99) trans-3-Heptene	20.61	41	15723	0.3887 ppbV	S	82
101) cis-3-Heptene	20.75	41	15681	0.3716 ppbV #	S	14
102) trans-2-Heptene	20.90	55	12065	0.3233 ppbV #	S	62
103) 2,4,4-Trimethyl-1-pentene	21.16	57	37573	0.4451 ppbV	S	94
105) Methylisobutylketone	21.65	43	25323	0.4057 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:15 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

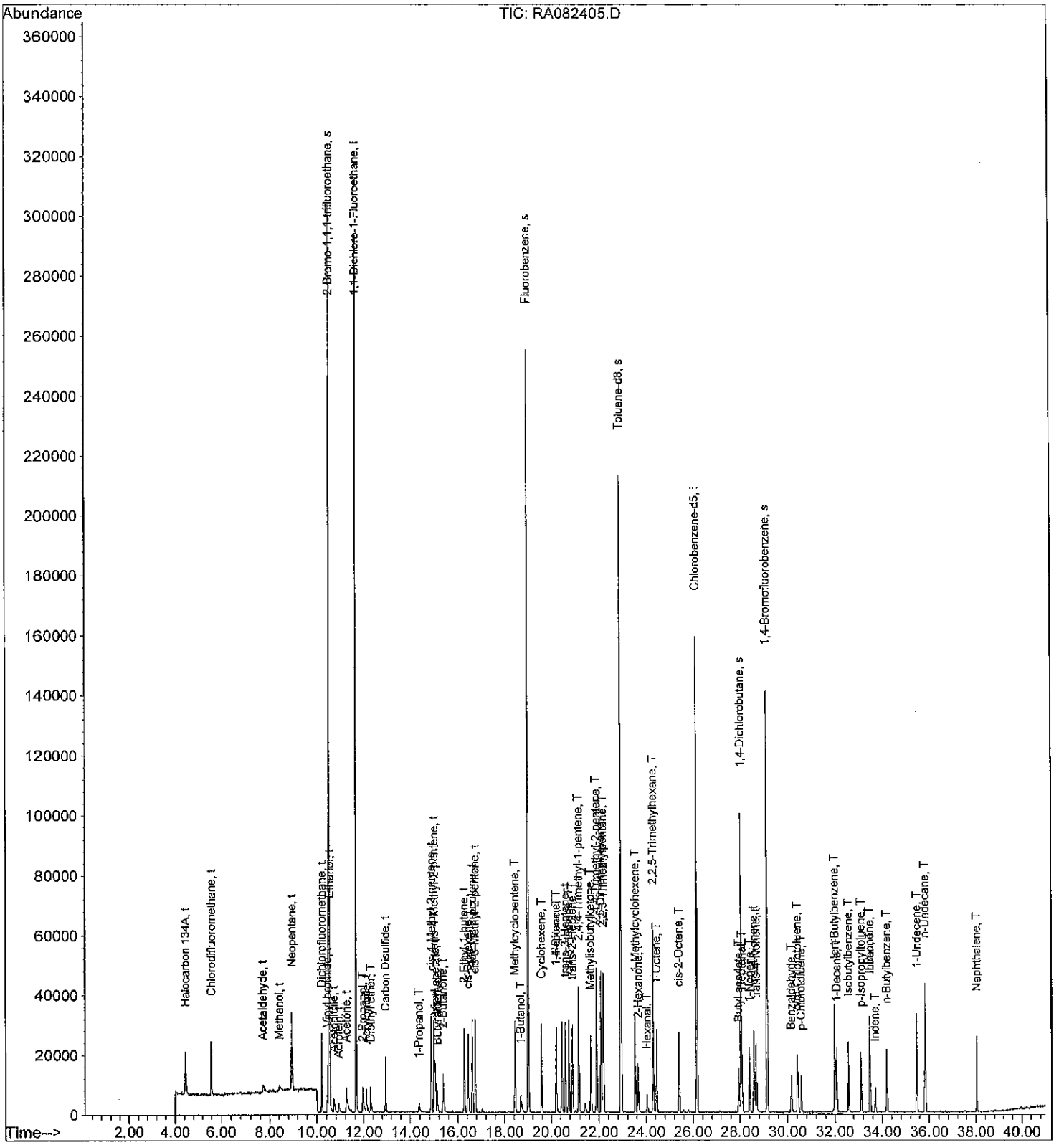
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107)	2,4,4-Trimethyl-2-pentene	21.90	55	28509	0.4310	ppbV		S	78
108)	2,5-Dimethylhexane	22.08	57	28492	0.4363	ppbV		S	91
109)	2,2,3-Trimethylpentane	22.17	57	47940	0.4377	ppbV	#	S	42
116)	2-Hexanone	23.65	43	17280	0.3535	ppbV	#	S	22
118)	1-Methylcyclohexene	23.54	81	16593	0.3760	ppbV		S	94
121)	Hexanal	24.03	44	2394	0.3240	ppbV	#	S	1
123)	2,2,5-Trimethylhexane	24.30	57	60437	0.4624	ppbV		S	95
124)	1-Octene	24.45	55	8931	0.2925	ppbV	#	S	1
127)	cis-2-Octene	25.41	55	11873	0.3017	ppbV		S	91
132)	Butyl acrylate	27.96	55	15537	0.3872	ppbV		S	87
133)	Heptanal	28.09	70	3354	0.3591	ppbV	#	S	22
137)	1-Nonene	28.42	56	6143	0.2232	ppbV		S	86
138)	cis-4-Nonene	28.59	55	15410	0.2703	ppbV	#	S	100
139)	trans-4-Nonene	28.68	55	13174	0.2387	ppbV		S	95
143)	Benzaldehyde	30.18	77	6664	0.5272	ppbV	#	S	36
145)	o/m-Chlorotoluene	30.43	91	24865	0.4909	ppbV	#	S	1
146)	p-Chlorotoluene	30.58	91	11080	0.2315	ppbV	#	S	37
154)	tert-Butylbenzene	32.01	119	24011	0.3163	ppbV	#	S	57
155)	1-Decene	32.07	56	5187	0.2448	ppbV	#	S	1
160)	Isobutylbenzene	32.57	91	21557	0.2722	ppbV	#	S	39
162)	p-Isopropyltoluene	33.11	119	17456	0.2902	ppbV	#	S	45
164)	Limonene	33.46	68	8605	0.2558	ppbV		S	87
165)	Indan	33.48	117	9520	0.2229	ppbV		S	80
166)	Indene	33.71	115	6444	0.2195	ppbV		S	84
169)	n-Butylbenzene	34.19	91	17931	0.3650	ppbV	#	S	1
170)	1-Undecene	35.49	55	9639	0.4241	ppbV	#	S	58
171)	n-Undecane	35.84	57	22003	0.3356	ppbV		S	73
173)	Naphthalene	38.04	128	21321	0.4004	ppbV		S	94

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082405.D Vial: 1
Acq On : 24 Aug 2011 1:33 pm Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:15 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082406.D Vial: 1
Acq On : 24 Aug 2011 2:34 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:18 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	285489	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	101888	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	115614	2.0051 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
65) Fluorobenzene	19.00	96	247729	1.7411 ppbV	0.00
Spiked Amount 2.000			Recovery	= 87.00%	
113) Toluene-d8	22.92	98	178420	2.3002 ppbV	0.00
Spiked Amount 2.000			Recovery	= 115.00%	
115) 1,4-Dichlorobutane	28.05	90	14499	1.9022 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.00%	
141) 1,4-Bromofluorobenzene	29.14	95	67579	1.8673 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.44	69	18460	0.6191 ppbV	S	81
8) Chlorodifluoromethane	5.58	51	43887	0.6338 ppbV	S	97
14) Acetaldehyde	7.66	44	8323m	0.6459 ppbV	S	
19) Methanol	8.39	31	5216m	0.7650 ppbV	S	
21) Neopentane	8.95	57	74072	0.6238 ppbV	S	98
22) Dichlorofluoromethane	10.20	67	56268	0.6263 ppbV	S	96
26) Vinyl bromide	10.43	106	21090	0.5918 ppbV	S	84
28) Ethanol	10.51	45	6070m	0.6304 ppbV	S	
29) Acetonitrile	10.68	41	16967m	0.5683 ppbV	S	
30) Acrolein	10.90	56	7333	0.5512 ppbV #	S	46
34) Acetone	11.21	43	46115m	0.6465 ppbV	S	
35) 2-Propanol	11.93	45	40109m	0.7675 ppbV	S	
36) Acrylonitrile	12.11	52	13509	0.5560 ppbV #	S	1
38) Diethyl ether	12.29	74	9235	0.5669 ppbV #	S	1
45) Carbon Disulfide	12.94	76	65987	0.5879 ppbV	S	98
52) 1-Propanol	14.35	59	4144	0.7673 ppbV #	S	1
58) Vinyl acetate	15.05	43	67839	0.6900 ppbV #	S	48
59) cis-4-Methyl-2-pentene	14.88	69	43977	0.6756 ppbV #	S	97
60) trans-4-Methyl-2-pentene	15.01	69	49084	0.6628 ppbV	S	96
61) Butyraldehyde	15.13	72	3899	0.6047 ppbV #	S	1
62) 2-Butanone	15.36	43	52447m	0.7231 ppbV	S	
70) 2-Ethyl-1-butene	16.27	69	24404	0.6007 ppbV #	S	73
73) cis-3-Hexene	16.44	55	31534	0.5842 ppbV	S	88
75) 2-Methyl-2-pentene	16.61	41	41587	0.5921 ppbV	S	94
76) cis-3-Methyl-2-pentene	16.74	69	30670	0.6121 ppbV	S	91
83) Methylcyclopentene	18.43	67	59748	1.0390 ppbV	S	91
86) 1-Butanol	18.68	56	13980	0.8291 ppbV	S	96
90) Cyclohexene	19.59	67	37827	0.9890 ppbV	S	89
95) 1,4-Dioxane	20.19	88	9521	0.9511 ppbV #	S	56
96) 1-Heptene	20.20	55	18711	0.7994 ppbV	S	92
99) trans-3-Heptene	20.61	41	33550	0.8691 ppbV	S	89
101) cis-3-Heptene	20.75	41	35729	0.8871 ppbV #	S	15
102) trans-2-Heptene	20.90	55	28282	0.7940 ppbV #	S	57
103) 2,4,4-Trimethyl-1-pentene	21.15	57	82905	1.0291 ppbV	S	90
105) Methylisobutylketone	21.65	43	51672	0.8674 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082406.D Vial: 1
Acq On : 24 Aug 2011 2:34 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:18 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

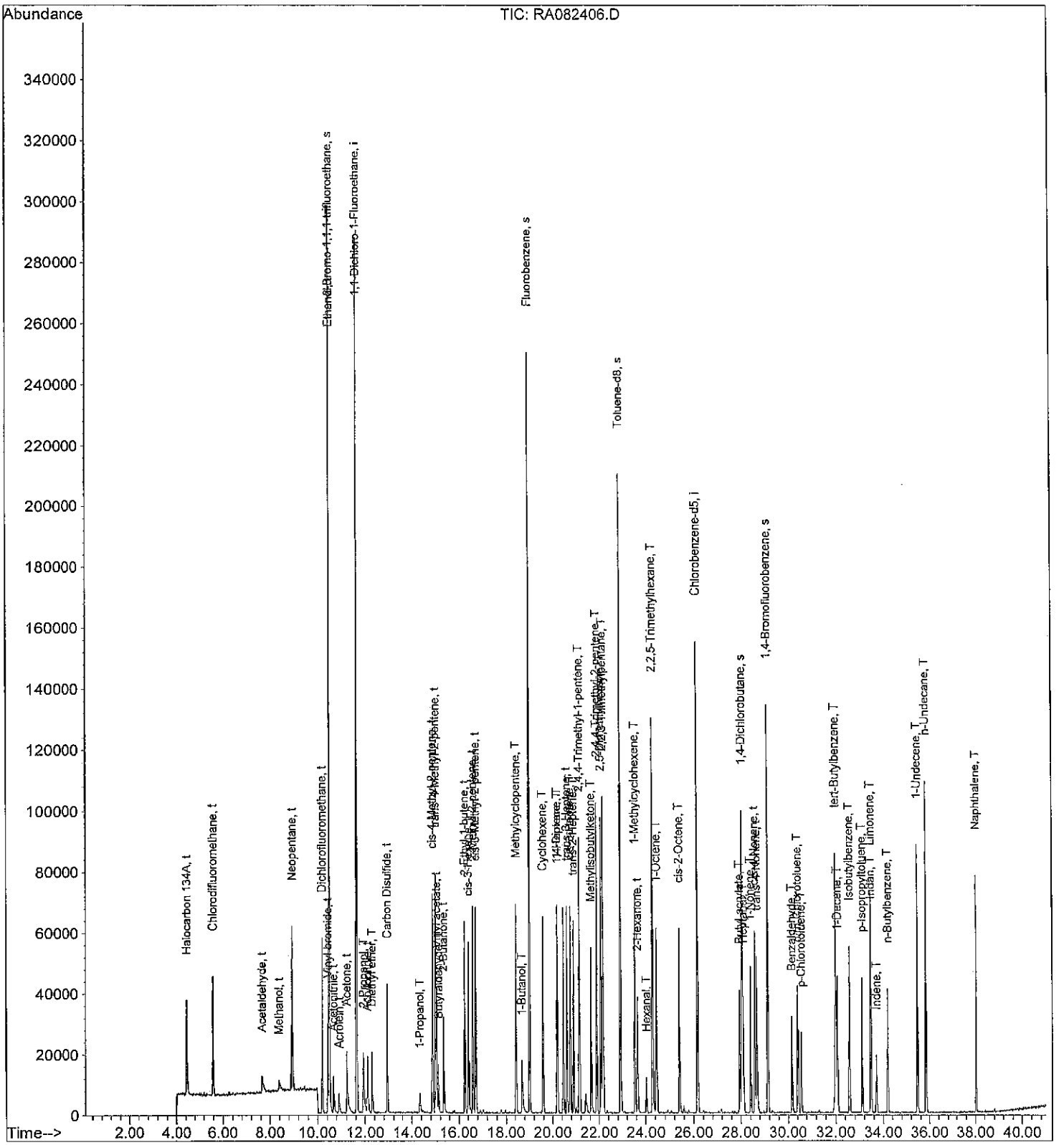
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107)	2,4,4-Trimethyl-2-pentene	21.90	55	62479	0.9899	ppbV		S	80
108)	2,5-Dimethylhexane	22.08	57	61410	0.9855	ppbV		S	85
109)	2,2,3-Trimethylpentane	22.18	57	104508	0.9999	ppbV	#	S	41
116)	2-Hexanone	23.65	43	37599	0.8059	ppbV	#	S	22
118)	1-Methylcyclohexene	23.54	81	38220	0.9076	ppbV		S	92
121)	Hexanal	24.03	44	5071	0.7191	ppbV	#	S	1
123)	2,2,5-Trimethylhexane	24.29	57	133707	1.0719	ppbV		S	93
124)	1-Octene	24.45	55	19622	0.6734	ppbV	#	S	1
127)	cis-2-Octene	25.40	55	25948	0.6908	ppbV		S	94
132)	Butyl acrylate	27.96	55	40280	1.0518	ppbV		S	87
133)	Heptanal	28.10	70	8165	0.9161	ppbV	#	S	71
137)	1-Nonene	28.41	56	14690	0.5594	ppbV		S	96
138)	cis-4-Nonene	28.60	55	36114	0.6638	ppbV	#	S	100
139)	trans-4-Nonene	28.68	55	29937	0.5684	ppbV		S	97
143)	Benzaldehyde	30.17	77	17566	1.4562	ppbV	#	S	34
145)	o/m-Chlorotoluene	30.43	91	54229	1.1218	ppbV	#	S	1
146)	p-Chlorotoluene	30.58	91	24315	0.5323	ppbV	#	S	36
154)	tert-Butylbenzene	32.00	119	54787	0.7564	ppbV	#	S	55
155)	1-Decene	32.07	56	11308	0.5592	ppbV	#	S	1
160)	Isobutylbenzene	32.57	91	49129	0.6500	ppbV	#	S	51
162)	p-Isopropyltoluene	33.11	119	36734	0.6399	ppbV	#	S	45
164)	Limonene	33.46	68	20609	0.6420	ppbV		S	87
165)	Indan	33.49	117	20095	0.4931	ppbV		S	92
166)	Indene	33.71	115	13934	0.4974	ppbV		S	88
169)	n-Butylbenzene	34.20	91	36026	0.7684	ppbV	#	S	1
170)	1-Undecene	35.47	55	25412	1.1715	ppbV	#	S	55
171)	n-Undecane	35.84	57	59516	0.9511	ppbV		S	73
173)	Naphthalene	38.04	128	61816	1.2165	ppbV		S	94

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082406.D Vial: 1
Acq On : 24 Aug 2011 2:34 pm Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:18 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082407.D Vial: 1
Acq On : 24 Aug 2011 3:37 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:26 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	291304	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	108933	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	116962	1.9880 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.00	96	256997	1.7702 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.50%	
113) Toluene-d8	22.92	98	187603	2.2621 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.00%	
115) 1,4-Dichlorobutane	28.06	90	15525	1.9050 ppbV	0.02
Spiked Amount 2.000			Recovery	= 95.50%	
141) 1,4-Bromofluorobenzene	29.13	95	71500	1.8478 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.43	69	34599	1.1371 ppbV	S	82
8) Chlorodifluoromethane	5.57	51	82772	1.1715 ppbV	S	96
14) Acetaldehyde	7.61	44	18675m	1.4203 ppbV	S	
19) Methanol	8.35	31	9090m	1.3065 ppbV	S	
21) Neopentane	8.94	57	139975	1.1553 ppbV	S	96
22) Dichlorofluoromethane	10.19	67	105410	1.1499 ppbV	S	97
26) Vinyl bromide	10.42	106	40450	1.1123 ppbV	S	87
28) Ethanol	10.49	45	18597m	1.8928 ppbV	S	
29) Acetonitrile	10.65	41	33048m	1.0849 ppbV	S	
30) Acrolein	10.88	56	15269	1.1249 ppbV #	S	49
34) Acetone	11.18	43	88498m	1.2159 ppbV	S	
35) 2-Propanol	11.90	45	74684m	1.4006 ppbV	S	
36) Acrylonitrile	12.09	52	28041m	1.1311 ppbV	S	
38) Diethyl ether	12.28	74	18083	1.0879 ppbV #	S	1
45) Carbon Disulfide	12.93	76	124143	1.0839 ppbV	S	95
52) 1-Propanol	14.33	59	7134	1.2946 ppbV #	S	1
58) Vinyl acetate	15.04	43	135957	1.3552 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.87	69	83972	1.2643 ppbV #	S	95
60) trans-4-Methyl-2-pentene	15.00	69	95939	1.2697 ppbV	S	91
61) Butyraldehyde	15.12	72	7626	1.1592 ppbV #	S	1
62) 2-Butanone	15.34	43	106486m	1.4389 ppbV	S	
70) 2-Ethyl-1-butene	16.26	69	48576	1.1718 ppbV #	S	76
73) cis-3-Hexene	16.43	55	61511	1.1169 ppbV	S	95
75) 2-Methyl-2-pentene	16.60	41	79743	1.1127 ppbV	S	95
76) cis-3-Methyl-2-pentene	16.73	69	60607	1.1854 ppbV	S	92
83) Methylcyclopentene	18.43	67	119947	1.9510 ppbV	S	93
86) 1-Butanol	18.67	56	29491m	1.6359 ppbV	S	
90) Cyclohexene	19.58	67	73620	1.8003 ppbV	S	85
95) 1,4-Dioxane	20.18	88	15520	1.4501 ppbV #	S	60
96) 1-Heptene	20.19	55	38164	1.5251 ppbV	S	91
99) trans-3-Heptene	20.61	41	68686	1.6643 ppbV	S	89
101) cis-3-Heptene	20.75	41	72425	1.6819 ppbV #	S	12
102) trans-2-Heptene	20.90	55	57347	1.5059 ppbV #	S	57
103) 2,4,4-Trimethyl-1-pentene	21.14	57	160100	1.8589 ppbV	S	92
105) Methylisobutylketone	21.64	43	101007	1.5860 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082407.D Vial: 1
Acq On : 24 Aug 2011 3:37 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:26 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

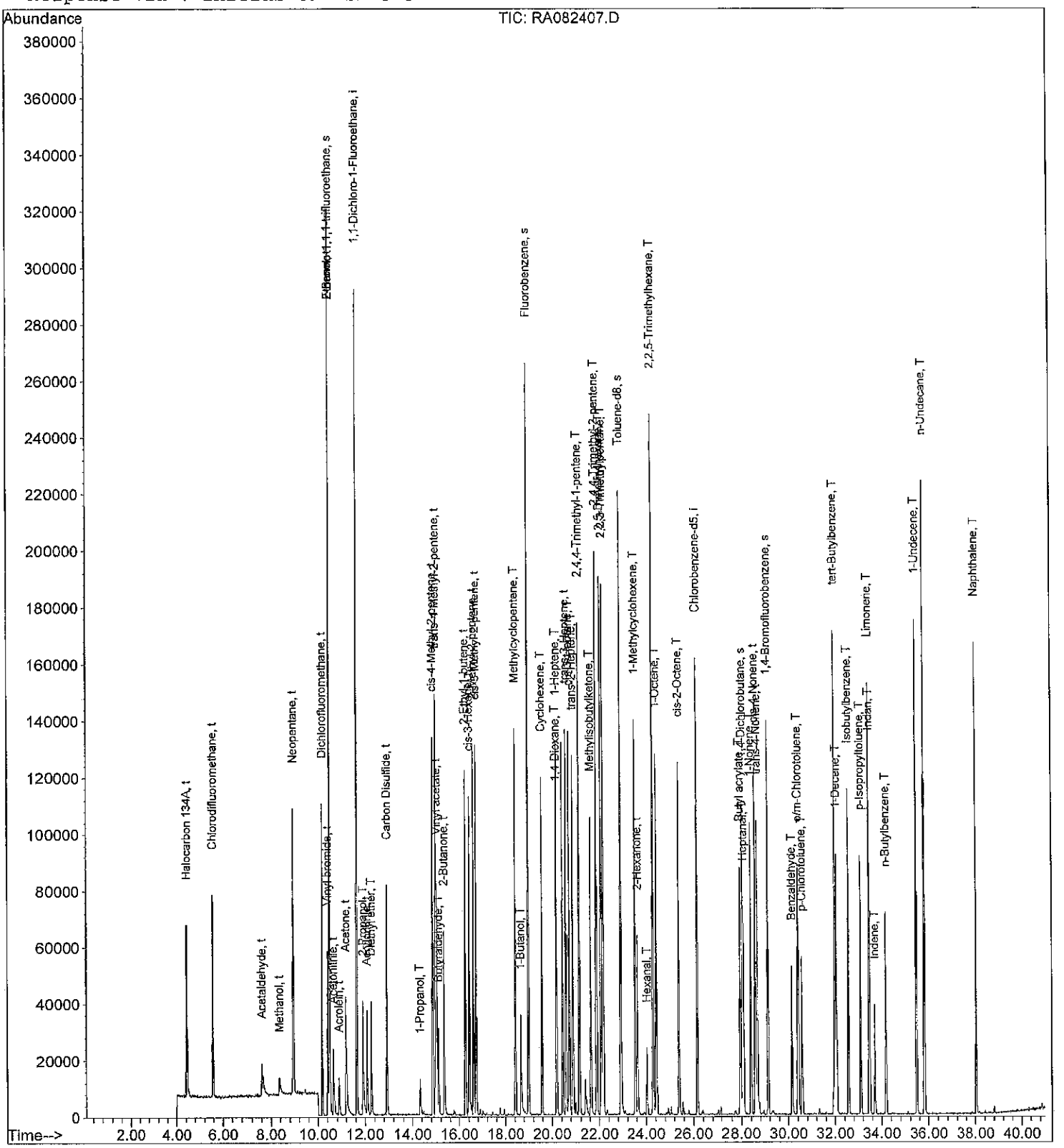
Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.89	55	121511	1.8006	ppbV		S	81
108) 2,5-Dimethylhexane	22.08	57	117299	1.7606	ppbV		S	87
109) 2,2,3-Trimethylpentane	22.17	57	198894	1.7800	ppbV	#	S	41
116) 2-Hexanone	23.64	43	60744	1.2178	ppbV	#	S	22
118) 1-Methylcyclohexene	23.54	81	76249	1.6936	ppbV		S	92
121) Hexanal	24.03	44	9004	1.1943	ppbV	#	S	1
123) 2,2,5-Trimethylhexane	24.29	57	257823	1.9333	ppbV		S	95
124) 1-Octene	24.44	55	41645	1.3368	ppbV	#	S	1
127) cis-2-Octene	25.41	55	55963	1.3936	ppbV		S	92
132) Butyl acrylate	27.96	55	84331	2.0597	ppbV		S	86
133) Heptanal	28.10	70	16503	1.7318	ppbV	#	S	67
137) 1-Nonene	28.42	56	31580	1.1247	ppbV		S	96
138) cis-4-Nonene	28.59	55	74349	1.2783	ppbV	#	S	100
139) trans-4-Nonene	28.68	55	60379	1.0723	ppbV		S	92
143) Benzaldehyde	30.17	77	28777	2.2313	ppbV	#	S	28
145) o/m-Chlorotoluene	30.42	91	111469	2.1568	ppbV	#	S	1
146) p-Chlorotoluene	30.58	91	50988	1.0440	ppbV	#	S	35
154) tert-Butylbenzene	32.00	119	116449	1.5037	ppbV	#	S	55
155) 1-Decene	32.07	56	23847	1.1030	ppbV	#	S	1
160) Isobutylbenzene	32.57	91	103063	1.2754	ppbV	#	S	40
162) p-Isopropyltoluene	33.11	119	76049	1.2390	ppbV	#	S	42
164) Limonene	33.47	68	41906	1.2210	ppbV		S	80
165) Indan	33.49	117	41787	0.9590	ppbV		S	86
166) Indene	33.71	115	28756	0.9601	ppbV		S	86
169) n-Butylbenzene	34.20	91	64635	1.2895	ppbV	#	S	1
170) 1-Undecene	35.47	55	51043	2.2010	ppbV	#	S	64
171) n-Undecane	35.84	57	124530	1.8614	ppbV		S	74
173) Naphthalene	38.04	128	130958	2.4105	ppbV		S	96

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082407.D Vial: 1
Acq On : 24 Aug 2011 3:37 pm Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:26 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082408.D Vial: 1
Acq On : 24 Aug 2011 4:41 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:32 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	285412	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	112455	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	114683	1.9895 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.00	96	262933	1.8484 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	
113) Toluene-d8	22.92	98	199365	2.3287 ppbV	0.00
Spiked Amount 2.000			Recovery	= 116.50%	
115) 1,4-Dichlorobutane	28.05	90	15609	1.8554 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.00%	
141) 1,4-Bromofluorobenzene	29.13	95	75573	1.8919 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	

Target Compounds					Qvalue
6) Halocarbon 134A	4.42	69	84082m	2.8205 ppbV	S
8) Chlorodifluoromethane	5.57	51	198616	2.8690 ppbV	S 96
14) Acetaldehyde	7.56	44	41927m	3.2545 ppbV	S
19) Methanol	8.33	31	19941m	2.9253 ppbV	S
21) Neopentane	8.94	57	342793	2.8876 ppbV	S 97
22) Dichlorofluoromethane	10.18	67	252121	2.8071 ppbV	S 97
26) Vinyl bromide	10.42	106	97024	2.7231 ppbV	S 85
28) Ethanol	10.47	45	35279m	3.6648 ppbV	S
29) Acetonitrile	10.63	41	81102m	2.7173 ppbV	S
30) Acrolein	10.86	56	36375	2.7351 ppbV #	S 45
34) Acetone	11.16	43	208393m	2.9222 ppbV	S
35) 2-Propanol	11.90	45	171071m	3.2745 ppbV	S
36) Acrylonitrile	12.08	52	67919	2.7963 ppbV #	S 1
38) Diethyl ether	12.27	74	45032	2.7652 ppbV #	S 1
45) Carbon Disulfide	12.94	76	302056	2.6917 ppbV	S 95
52) 1-Propanol	14.32	59	15844	2.9346 ppbV #	S 1
58) Vinyl acetate	15.04	43	344466	3.5044 ppbV #	S 47
59) cis-4-Methyl-2-pentene	14.87	69	203976	3.1345 ppbV #	S 97
60) trans-4-Methyl-2-pentene	15.00	69	233800	3.1581 ppbV	S 91
61) Butyraldehyde	15.11	72	19154	2.9716 ppbV #	S 1
62) 2-Butanone	15.33	43	257297m	3.5485 ppbV	S
70) 2-Ethyl-1-butene	16.26	69	118785	2.9245 ppbV #	S 71
73) cis-3-Hexene	16.43	55	152083	2.8184 ppbV	S 92
75) 2-Methyl-2-pentene	16.60	41	196434	2.7977 ppbV	S 93
76) cis-3-Methyl-2-pentene	16.73	69	149240	2.9791 ppbV	S 92
83) Methylcyclopentene	18.43	67	298392	4.7016 ppbV	S 92
86) 1-Butanol	18.66	56	72531	3.8973 ppbV	S 97
90) Cyclohexene	19.57	67	182055	4.3126 ppbV	S 85
95) 1,4-Dioxane	20.18	88	31221	2.8258 ppbV #	S 51
96) 1-Heptene	20.19	55	96752	3.7452 ppbV	S 92
99) trans-3-Heptene	20.61	41	174575	4.0976 ppbV	S 89
101) cis-3-Heptene	20.75	41	180450	4.0593 ppbV #	S 13
102) trans-2-Heptene	20.90	55	146630	3.7299 ppbV #	S 55
103) 2,4,4-Trimethyl-1-pentene	21.15	57	389701	4.3830 ppbV	S 94
105) Methylisobutylketone	21.64	43	259785	3.9513 ppbV #	S 1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082408.D Vial: 1
Acq On : 24 Aug 2011 4:41 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:32 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

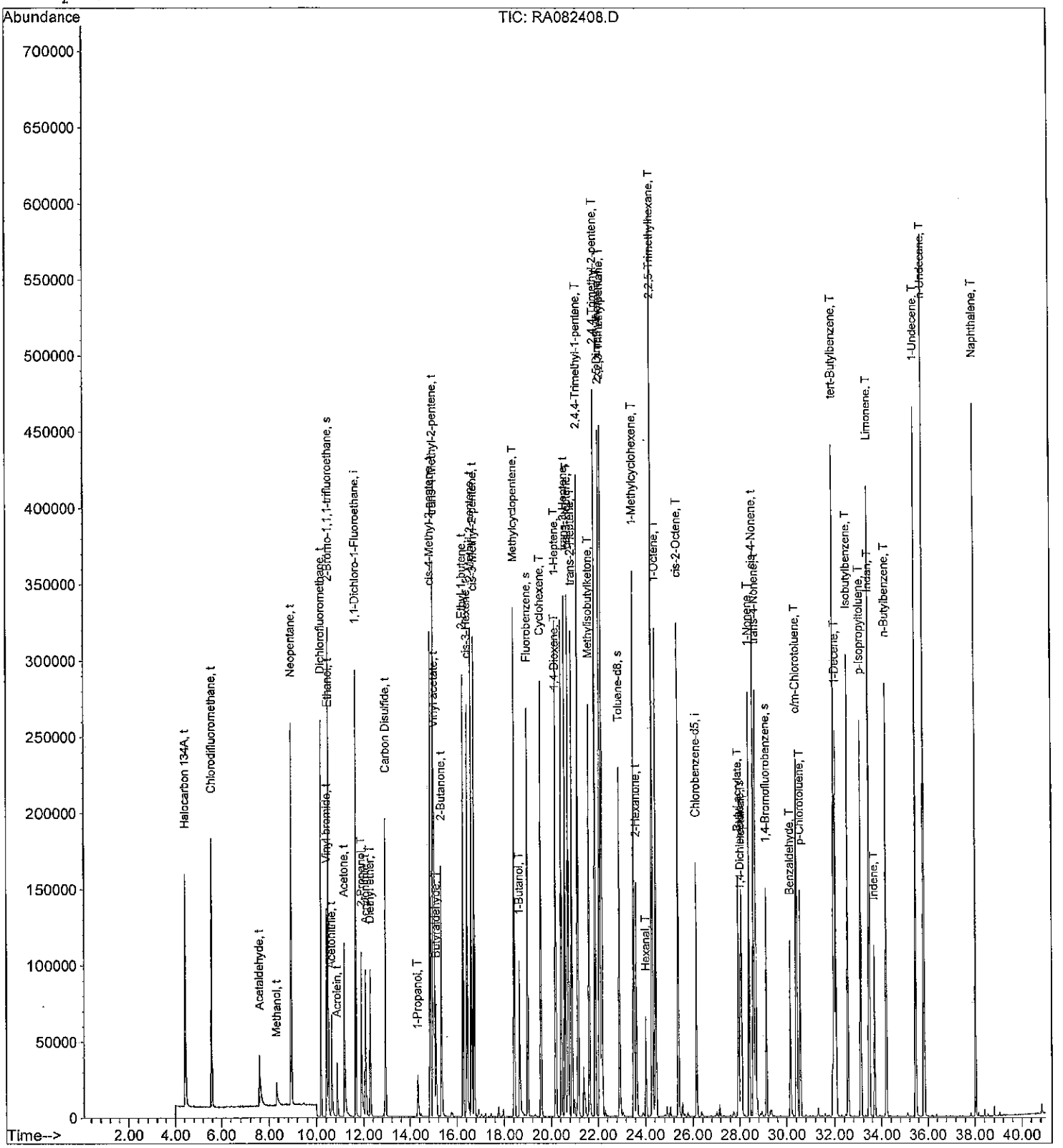
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107)	2,4,4-Trimethyl-2-pentene	21.89	55	295611	4.2434	ppbV		S	82
108)	2,5-Dimethylhexane	22.08	57	282726	4.1107	ppbV		S	87
109)	2,2,3-Trimethylpentane	22.17	57	487302	4.2244	ppbV	#	S	40
116)	2-Hexanone	23.63	43	149956	2.9122	ppbV	#	S	23
118)	1-Methylcyclohexene	23.53	81	195835	4.2134	ppbV		S	90
121)	Hexanal	24.02	44	23763	3.0532	ppbV	#	S	1
123)	2,2,5-Trimethylhexane	24.29	57	629876	4.5753	ppbV		S	95
124)	1-Octene	24.45	55	107684	3.3484	ppbV	#	S	1
127)	cis-2-Octene	25.41	55	149001	3.5943	ppbV		S	91
132)	Butyl acrylate	27.95	55	157984	3.7377	ppbV		S	86
133)	Heptanal	28.09	70	35667	3.6257	ppbV	#	S	63
137)	1-Nonene	28.41	56	86274	2.9765	ppbV		S	96
138)	cis-4-Nonene	28.59	55	205412	3.4210	ppbV	#	S	100
139)	trans-4-Nonene	28.68	55	165705	2.8506	ppbV		S	95
143)	Benzaldehyde	30.17	77	60505	4.5445	ppbV	#	S	34
145)	o/m-Chlorotoluene	30.42	91	300907	5.6398	ppbV	#	S	1
146)	p-Chlorotoluene	30.58	91	135706	2.6915	ppbV	#	S	35
154)	tert-Butylbenzene	32.00	119	305221	3.8178	ppbV	#	S	59
155)	1-Decene	32.07	56	66393	2.9746	ppbV	#	S	1
160)	Isobutylbenzene	32.57	91	286434	3.4335	ppbV	#	S	47
162)	p-Isopropyltoluene	33.11	119	223702	3.5305	ppbV	#	S	44
164)	Limonene	33.46	68	119289	3.3670	ppbV		S	82
165)	Indan	33.49	117	112864	2.5090	ppbV		S	89
166)	Indene	33.71	115	85387	2.7616	ppbV		S	94
169)	n-Butylbenzene	34.19	91	256439	4.9559	ppbV	#	S	1
170)	1-Undecene	35.47	55	137576	5.7466	ppbV	#	S	54
171)	n-Undecane	35.84	57	334195	4.8388	ppbV		S	77
173)	Naphthalene	38.04	128	384869	6.8622	ppbV		S	95

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082408.D Vial: 1
Acq On : 24 Aug 2011 4:41 pm Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:32 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082409.D Vial: 1
Acq On : 24 Aug 2011 5:48 pm Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8.25.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.63	81	291437	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.16	117	122198	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	116916	1.9863 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	18.99	96	276131	1.9011 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.00%	
113) Toluene-d8	22.92	98	219328	2.3576 ppbV	0.00
Spiked Amount 2.000			Recovery	= 118.00%	
115) 1,4-Dichlorobutane	28.05	90	17137	1.8746 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.50%	
141) 1,4-Bromofluorobenzene	29.14	95	79131	1.8231 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.42	69	168224	5.5263 ppbV	S	85
8) Chlorodifluoromethane	5.56	51	395317	5.5923 ppbV	S	97
14) Acetaldehyde	7.54	44	84898m	6.4538 ppbV	S	
19) Methanol	8.31	31	38874m	5.5848 ppbV	S	
21) Neopentane	8.93	57	683918	5.6420 ppbV	S	98
22) Dichlorofluoromethane	10.18	67	499417	5.4455 ppbV	S	97
26) Vinyl bromide	10.41	106	195984	5.3868 ppbV	S	85
28) Ethanol	10.46	45	65493m	6.6629 ppbV	S	
29) Acetonitrile	10.61	41	164904m	5.4108 ppbV	S	
30) Acrolein	10.84	56	74073	5.4545 ppbV #	S	45
34) Acetone	11.13	43	412030m	5.6582 ppbV	S	
35) 2-Propanol	11.88	45	351244m	6.5843 ppbV	S	
36) Acrylonitrile	12.06	52	137674	5.5509 ppbV #	S	1
38) Diethyl ether	12.25	74	89631	5.3900 ppbV #	S	1
45) Carbon Disulfide	12.92	76	596209	5.2032 ppbV	S	94
52) 1-Propanol	14.31	59	34057	6.1776 ppbV #	S	1
58) Vinyl acetate	15.03	43	675370	6.7287 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.86	69	413365	6.2209 ppbV #	S	100
60) trans-4-Methyl-2-pentene	14.99	69	471210	6.2333 ppbV	S	92
61) Butyraldehyde	15.09	72	38591	5.8633 ppbV #	S	1
62) 2-Butanone	15.31	43	509153m	6.8769 ppbV	S	
70) 2-Ethyl-1-butene	16.25	69	245597	5.9216 ppbV #	S	75
73) cis-3-Hexene	16.43	55	312844	5.6777 ppbV	S	93
75) 2-Methyl-2-pentene	16.60	41	396238	5.5266 ppbV	S	90
76) cis-3-Methyl-2-pentene	16.72	69	303418	5.9316 ppbV	S	92
83) Methylcyclopentene	18.43	67	615291	8.9218 ppbV	S	93
86) 1-Butanol	18.66	56	148012	7.3189 ppbV	S	98
90) Cyclohexene	19.57	67	372790	8.1266 ppbV	S	84
95) 1,4-Dioxane	20.16	88	67980	5.6622 ppbV #	S	74
96) 1-Heptene	20.19	55	198920	7.0861 ppbV	S	93
99) trans-3-Heptene	20.60	41	362138	7.8222 ppbV	S	90
101) cis-3-Heptene	20.74	41	372665	7.7149 ppbV #	S	14
102) trans-2-Heptene	20.89	55	312839	7.3233 ppbV #	S	55
103) 2,4,4-Trimethyl-1-pentene	21.15	57	794210	8.2204 ppbV	S	94
105) Methylisobutylketone	21.63	43	544824	7.6261 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082409.D Vial: 1
Acq On : 24 Aug 2011 5:48 pm Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:39 19111 Quant Results File: RA110612.RES

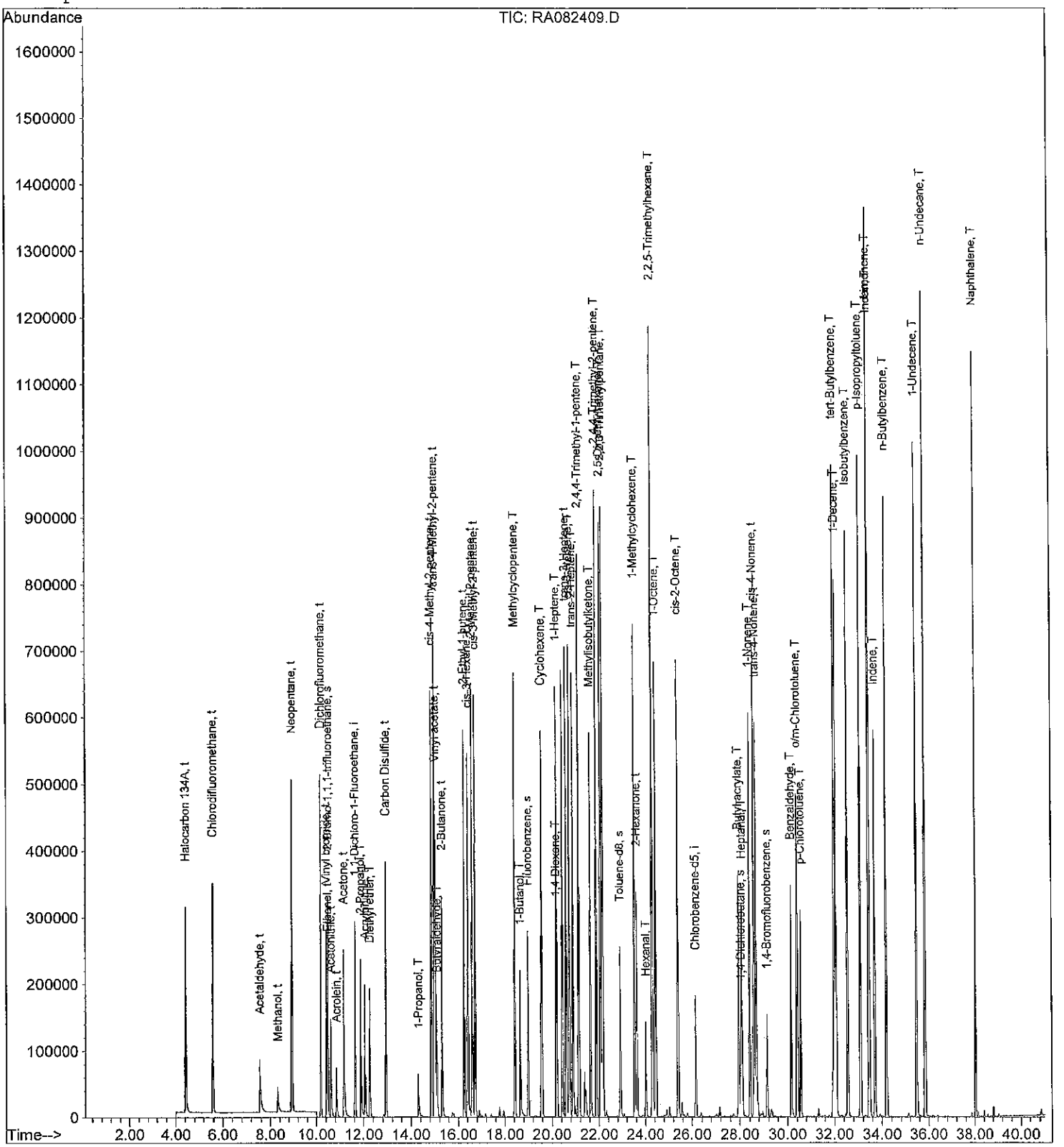
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107)	2,4,4-Trimethyl-2-pentene	21.89	55	598333	7.9041	ppbV		S	83
108)	2,5-Dimethylhexane	22.08	57	583417	7.8063	ppbV		S	90
109)	2,2,3-Trimethylpentane	22.17	57	981472	7.8300	ppbV	#	S	38
116)	2-Hexanone	23.63	43	324238	5.7947	ppbV	#	S	23
118)	1-Methylcyclohexene	23.53	81	410344	8.1248	ppbV		S	92
121)	Hexanal	24.02	44	52555	6.2141	ppbV	#	S	1
123)	2,2,5-Trimethylhexane	24.29	57	1270715	8.4943	ppbV		S	96
124)	1-Octene	24.45	55	232004	6.6388	ppbV	#	S	1
127)	cis-2-Octene	25.40	55	324494	7.2035	ppbV		S	94
132)	Butyl acrylate	27.95	55	367830	8.0086	ppbV		S	86
133)	Heptanal	28.09	70	80342	7.5159	ppbV	#	S	59
137)	1-Nonene	28.41	56	191241	6.0718	ppbV		S	98
138)	cis-4-Nonene	28.59	55	441924	6.7732	ppbV	#	S	100
139)	trans-4-Nonene	28.68	55	366508	5.8022	ppbV		S	94
143)	Benzaldehyde	30.16	77	186754	12.9086	ppbV	#	S	30
145)	o/m-Chlorotoluene	30.42	91	634644	10.9465	ppbV	#	S	1
146)	p-Chlorotoluene	30.57	91	287640	5.2500	ppbV	#	S	35
154)	tert-Butylbenzene	32.00	119	695247	8.0030	ppbV	#	S	58
155)	1-Decene	32.07	56	220164	9.0777	ppbV	#	S	1
160)	Isobutylbenzene	32.57	91	837384	9.2376	ppbV	#	S	46
162)	p-Isopropyltoluene	33.11	119	875910	12.7214	ppbV	#	S	42
164)	Limonene	33.47	68	400770	10.4099	ppbV		S	83
165)	Indan	33.49	117	424919	8.6930	ppbV		S	90
166)	Indene	33.71	115	459520	13.6771	ppbV		S	93
169)	n-Butylbenzene	34.19	91	860455	15.3031	ppbV	#	S	1
170)	1-Undecene	35.47	55	305037	11.7255	ppbV	#	S	55
171)	n-Undecane	35.84	57	733430	9.7726	ppbV		S	77
173)	Naphthalene	38.04	128	973267	15.9698	ppbV		S	96

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082409.D Vial: 1
Acq On : 24 Aug 2011 5:48 pm Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:39 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082410.D Vial: 1
Acq On : 24 Aug 2011 6:56 pm Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:46 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8.25.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.62	81	290023	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.16	117	137377	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.47	83	119734	2.0441 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 102.00%	
65) Fluorobenzene	18.99	96	299950	2.0751 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 104.00%	
113) Toluene-d8	22.92	98	240981	2.3041 ppbV	0.00
Spiked Amount 2.000			Recovery	= 115.00%	
115) 1,4-Dichlorobutane	28.05	90	18662	1.8158 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	
141) 1,4-Bromofluorobenzene	29.13	95	87665	1.7965 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.00%	

Target Compounds					Qvalue
6) Halocarbon 134A	4.42	69	259115m	8.5536 ppbV	S
8) Chlorodifluoromethane	5.57	51	599586m	8.5233 ppbV	S
14) Acetaldehyde	7.52	44	130758m	9.9885 ppbV	S
19) Methanol	8.29	31	59070m	8.5277 ppbV	S
21) Neopentane	8.93	57	1052536	8.7253 ppbV	S 98
22) Dichlorofluoromethane	10.17	67	753278	8.2536 ppbV	S 97
26) Vinyl bromide	10.40	106	297887	8.2276 ppbV	S 84
28) Ethanol	10.46	45	96660m	9.8815 ppbV	S
29) Acetonitrile	10.60	41	253418m	8.3556 ppbV	S
30) Acrolein	10.83	56	116975	8.6556 ppbV #	S 47
34) Acetone	11.12	43	624324m	8.6154 ppbV	S
35) 2-Propanol	11.88	45	480777m	9.0564 ppbV	S
36) Acrylonitrile	12.05	52	207774m	8.4182 ppbV	S
38) Diethyl ether	12.25	74	136722	8.2619 ppbV #	S 1
45) Carbon Disulfide	12.92	76	909011	7.9717 ppbV	S 96
52) 1-Propanol	14.30	59	45919	8.3698 ppbV #	S 1
58) Vinyl acetate	15.02	43	1070242	10.7148 ppbV #	S 46
59) cis-4-Methyl-2-pentene	14.85	69	632270	9.5617 ppbV #	S 97
60) trans-4-Methyl-2-pentene	14.98	69	725951	9.6499 ppbV	S 91
61) Butyraldehyde	15.09	72	60117	9.1784 ppbV #	S 1
62) 2-Butanone	15.31	43	798066m	10.8316 ppbV	S
70) 2-Ethyl-1-butene	16.24	69	381863	9.2520 ppbV	S 75
73) cis-3-Hexene	16.41	55	493466	8.9995 ppbV	S 92
75) 2-Methyl-2-pentene	16.59	41	609329	8.5402 ppbV	S 91
76) cis-3-Methyl-2-pentene	16.72	69	467754	9.1888 ppbV	S 90
83) Methylcyclopentene	18.42	67	970022	12.5113 ppbV	S 94
86) 1-Butanol	18.66	56	132957m	5.8481 ppbV	S
90) Cyclohexene	19.57	67	577131	11.1911 ppbV	S 86
95) 1,4-Dioxane	20.16	88	121380	8.9930 ppbV	S 76
96) 1-Heptene	20.19	55	313623	9.9378 ppbV	S 94
99) trans-3-Heptene	20.60	41	569997	10.9517 ppbV	S 91
101) cis-3-Heptene	20.74	41	581017	10.6991 ppbV #	S 13
102) trans-2-Heptene	20.89	55	497920	10.3680 ppbV #	S 58
103) 2,4,4-Trimethyl-1-pentene	21.14	57	1218800	11.2212 ppbV	S 96
105) Methylisobutylketone	21.63	43	861159	10.7221 ppbV #	S 1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082410.D Vial: 1
Acq On : 24 Aug 2011 6:56 pm Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:46 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

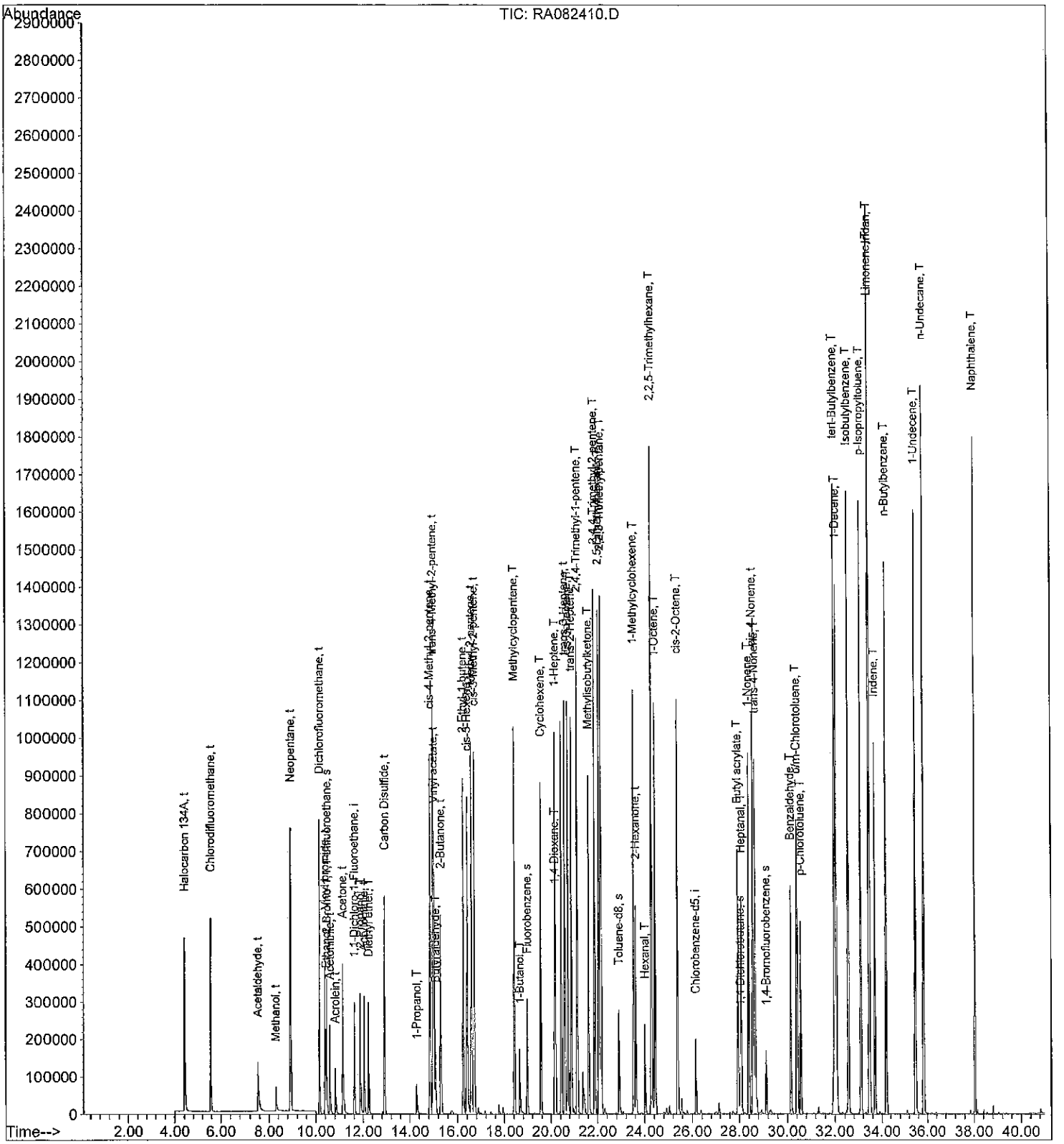
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
107)	2,4,4-Trimethyl-2-pentene	21.89	55	907647	10.6654	ppbV	S	86
108)	2,5-Dimethylhexane	22.07	57	894434	10.6455	ppbV	S	91
109)	2,2,3-Trimethylpentane	22.17	57	1500317	10.6468	ppbV #	S	38
116)	2-Hexanone	23.63	43	539732	8.5801	ppbV #	S	22
118)	1-Methylcyclohexene	23.53	81	638652	11.2480	ppbV	S	92
121)	Hexanal	24.01	44	87745	9.2286	ppbV #	S	1
123)	2,2,5-Trimethylhexane	24.29	57	1944312	11.5610	ppbV	S	97
124)	1-Octene	24.44	55	369684	9.4097	ppbV #	S	1
127)	cis-2-Octene	25.40	55	520410	10.2762	ppbV	S	93
132)	Butyl acrylate	27.95	55	731607	14.1689	ppbV	S	86
133)	Heptanal	28.10	70	149755	12.4615	ppbV #	S	57
137)	1-Nonene	28.41	56	313002	8.8396	ppbV	S	99
138)	cis-4-Nonene	28.59	55	717650	9.7838	ppbV #	S	100
139)	trans-4-Nonene	28.68	55	544183	7.6632	ppbV	S	96
143)	Benzaldehyde	30.17	77	326084	20.0489	ppbV #	S	30
145)	o/m-Chlorotoluene	30.42	91	1045888	16.0466	ppbV #	S	1
146)	p-Chlorotoluene	30.58	91	479625	7.7868	ppbV #	S	34
154)	tert-Butylbenzene	32.00	119	1208529	12.3743	ppbV #	S	58
155)	1-Decene	32.08	56	395952	14.5218	ppbV #	S	1
160)	Isobutylbenzene	32.57	91	1600608	15.7061	ppbV #	S	46
162)	p-Isopropyltoluene	33.11	119	1469215	18.9807	ppbV #	S	42
164)	Limonene	33.47	68	708655	16.3733	ppbV	S	86
165)	Indan	33.49	117	838262	15.2544	ppbV	S	90
166)	Indene	33.71	115	792655	20.9857	ppbV	S	93
169)	n-Butylbenzene	34.19	91	1377763	21.7959	ppbV #	S	1
170)	1-Undecene	35.48	55	478167	16.3497	ppbV #	S	58
171)	n-Undecane	35.84	57	1179672	13.9817	ppbV	S	80
173)	Naphthalene	38.03	128	1556396	22.7162	ppbV	S	96

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082410.D Vial: 1
Acq On : 24 Aug 2011 6:56 pm Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:46 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082411.D Vial: 1
Acq On : 24 Aug 2011 8:07 pm Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:53 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.61	81	288895	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.16	117	144232	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.47	83	121794	2.0874 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 104.50%	
65) Fluorobenzene	18.99	96	307766	2.1375 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 107.00%	
113) Toluene-d8	22.92	98	251985	2.2948 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.50%	
115) 1,4-Dichlorobutane	28.05	90	19596	1.8161 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	
141) 1,4-Bromofluorobenzene	29.14	95	91666	1.7892 ppbV	0.01
Spiked Amount 2.000			Recovery	= 89.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.41	69	352788m	11.6913 ppbV	S	
8) Chlorodifluoromethane	5.56	51	806696m	11.5123 ppbV	S	
14) Acetaldehyde	7.51	44	176695m	13.5503 ppbV	S	
19) Methanol	8.29	31	76417m	11.0751 ppbV	S	
21) Neopentane	8.92	57	1428579	11.8889 ppbV	S	98
22) Dichlorofluoromethane	10.16	67	1006803	11.0745 ppbV	S	97
26) Vinyl bromide	10.40	106	405293	11.2379 ppbV	S	84
28) Ethanol	10.45	45	117749m	12.0845 ppbV	S	
29) Acetonitrile	10.60	41	339222m	11.2283 ppbV	S	
30) Acrolein	10.82	56	157773m	11.7200 ppbV	S	
34) Acetone	11.11	43	832210m	11.5289 ppbV	S	
35) 2-Propanol	11.88	45	548658m	10.3755 ppbV	S	
36) Acrylonitrile	12.05	52	285506	11.6127 ppbV #	S	1
38) Diethyl ether	12.24	74	184037	11.1645 ppbV #	S	1
45) Carbon Disulfide	12.91	76	1219689	10.7380 ppbV	S	95
52) 1-Propanol	14.30	59	50943	9.3218 ppbV #	S	1
58) Vinyl acetate	15.01	43	1453463	14.6082 ppbV #	S	46
59) cis-4-Methyl-2-pentene	14.85	69	861363	13.0771 ppbV #	S	100
60) trans-4-Methyl-2-pentene	14.98	69	979094	13.0657 ppbV	S	89
61) Butyraldehyde	15.08	72	82318	12.6171 ppbV #	S	1
62) 2-Butanone	15.30	43	1073198m	14.6227 ppbV	S	
70) 2-Ethyl-1-butene	16.24	69	521266	12.6789 ppbV	S	79
73) cis-3-Hexene	16.41	55	673861	12.3374 ppbV	S	92
75) 2-Methyl-2-pentene	16.59	41	816398	11.4871 ppbV	S	90
76) cis-3-Methyl-2-pentene	16.72	69	635824	12.5392 ppbV	S	88
83) Methylcyclopentene	18.42	67	1328930	16.3258 ppbV	S	93
86) 1-Butanol	18.65	56	131504m	5.5092 ppbV	S	
90) Cyclohexene	19.56	67	795272	14.6881 ppbV	S	86
95) 1,4-Dioxane	20.15	88	165665	11.6907 ppbV	S	78
96) 1-Heptene	20.19	55	430122	12.9815 ppbV	S	93
99) trans-3-Heptene	20.60	41	770362	14.0979 ppbV	S	91
101) cis-3-Heptene	20.74	41	788873	13.8363 ppbV #	S	14
102) trans-2-Heptene	20.89	55	687013	13.6255 ppbV #	S	58
103) 2,4,4-Trimethyl-1-pentene	21.14	57	1655837	14.5203 ppbV	S	97
105) Methylisobutylketone	21.63	43	1174637	13.9300 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082411.D Vial: 1
Acq On : 24 Aug 2011 8:07 pm Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:53 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

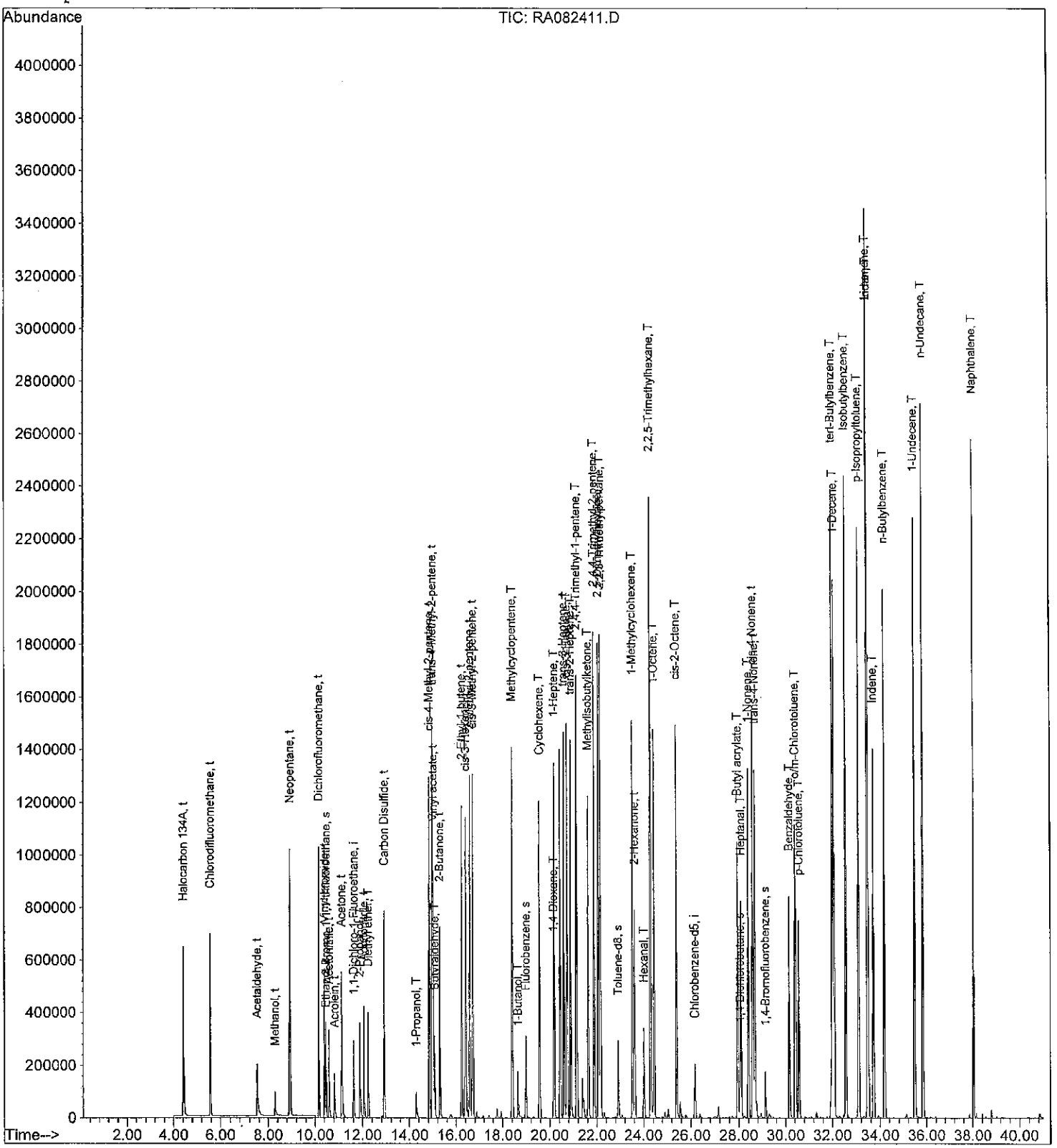
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
107)	2,4,4-Trimethyl-2-pentene	21.89	55	1210970	13.5533	ppbV		S	86
108)	2,5-Dimethylhexane	22.08	57	1215107	13.7748	ppbV		S	93
109)	2,2,3-Trimethylpentane	22.17	57	2031899	13.7337	ppbV	#	S	37
116)	2-Hexanone	23.63	43	760102	11.5091	ppbV	#	S	22
118)	1-Methylcyclohexene	23.53	81	879985	14.7618	ppbV		S	93
121)	Hexanal	24.01	44	126051	12.6274	ppbV	#	S	1
123)	2,2,5-Trimethylhexane	24.29	57	2614130	14.8050	ppbV		S	97
124)	1-Octene	24.44	55	512527	12.4255	ppbV	#	S	1
127)	cis-2-Octene	25.40	55	722563	13.5899	ppbV		S	91
132)	Butyl acrylate	27.96	55	1083296	19.9829	ppbV		S	83
133)	Heptanal	28.10	70	219711	17.4138	ppbV	#	S	58
137)	1-Nonene	28.41	56	449169	12.0822	ppbV		S	95
138)	cis-4-Nonene	28.59	55	1012445	13.1467	ppbV	#	S	100
139)	trans-4-Nonene	28.68	55	771897	10.3532	ppbV		S	96
143)	Benzaldehyde	30.17	77	461402	27.0204	ppbV	#	S	29
145)	o/m-Chlorotoluene	30.42	91	1522196	22.2443	ppbV	#	S	1
146)	p-Chlorotoluene	30.58	91	706762	10.9291	ppbV	#	S	34
154)	tert-Butylbenzene	32.00	119	1770272	17.2645	ppbV	#	S	59
155)	1-Decene	32.08	56	582616	20.3523	ppbV	#	S	1
160)	Isobutylbenzene	32.57	91	2377628	22.2218	ppbV	#	S	46
162)	p-Isopropyltoluene	33.11	119	2072115	25.4973	ppbV	#	S	41
164)	Limonene	33.47	68	1018953	22.4238	ppbV		S	87
165)	Indan	33.49	117	1290965	22.3760	ppbV		S	92
166)	Indene	33.72	115	1137479	28.6837	ppbV		S	93
169)	n-Butylbenzene	34.20	91	1933309	29.1309	ppbV	#	S	1
170)	1-Undecene	35.48	55	694822	22.6285	ppbV	#	S	61
171)	n-Undecane	35.84	57	1695152	19.1364	ppbV		S	82
173)	Naphthalene	38.04	128	2320649	32.2610	ppbV		S	97

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082411.D Vial: 1
Acq On : 24 Aug 2011 8:07 pm Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 9:53 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	280235	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	101679	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	114479	2.0227 ppbV	0.01
Spiked Amount 2.000			Recovery	= 101.00%	
65) Fluorobenzene	19.00	96	252721	1.8095 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	
113) Toluene-d8	22.93	98	178378	2.3044 ppbV	0.01
Spiked Amount 2.000			Recovery	= 115.00%	
115) 1,4-Dichlorobutane	28.05	90	13898	1.8271 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.50%	
141) 1,4-Bromofluorobenzene	29.14	95	67898	1.8799 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.00%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	1971m	0.2428 ppbV	S	
4) Acetylene	3.54	26	4178	0.4040 ppbV	S	91
5) Ethane	3.62	26	1508	0.3609 ppbV	S	99
7) Propylene	5.22	41	6068	0.2750 ppbV	S	90
9) Propane	5.37	43	2943	0.2768 ppbV	S	86
10) Dichlorodifluoromethane	5.89	85	37894	0.2998 ppbV	S	97
11) Chloromethane	6.73	50	8988	0.2803 ppbV	S	92
12) Isobutane	7.39	43	18152	0.2836 ppbV	S	86
13) Halocarbon 114	7.60	85	33472	0.2960 ppbV	S	91
15) Vinyl chloride	7.82	62	10217	0.2881 ppbV	S	97
16) 1-Butene/Isobutene	8.26	41	12531	0.2781 ppbV	S	78
17) 1,3-Butadiene	8.37	39	8551	0.3032 ppbV	S	97
18) n-Butane	8.52	43	15898	0.2764 ppbV	S	96
20) trans-2-Butene	8.90	41	11787	0.2799 ppbV	S	89
23) Bromomethane	9.07	94	9480	0.2828 ppbV	S	89
24) cis-2-Butene	9.38	41	12501	0.2950 ppbV	S	87
25) Chloroethane	9.67	64	5504	0.2838 ppbV	S	89
27) 3-Methyl-1-butene	10.47	55	25841	0.3022 ppbV	S	79
31) Isopentane	11.09	41	12583	0.2847 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	36817	0.3073 ppbV #	S	67
33) 1-Pentene	11.67	42	13791	0.2933 ppbV #	S	1
37) n-Pentane	12.10	43	18599	0.2957 ppbV	S	84
39) Isoprene	12.27	67	12269	0.2924 ppbV	S	92
40) trans-2-Pentene	12.43	55	20864	0.2920 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	20458	0.3047 ppbV #	S	9
42) cis-2-Pentene	12.72	55	19704	0.2776 ppbV #	S	1
43) Methylene chloride	12.85	49	13288	0.2899 ppbV #	S	1
44) 2-Methyl-2-butene	12.91	55	21297	0.2969 ppbV #	S	1
46) 3-Chloropropene	13.01	41	11785	0.3149 ppbV #	S	1
47) Halocarbon 113	13.32	151	14353	0.3024 ppbV #	S	100
48) Neohexane	13.48	43	14987	0.2908 ppbV #	S	1
49) Cyclopentene	14.18	67	21889	0.2879 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.34	61	16824	0.3071 ppbV #	S	1
51) 4-Methyl-1-pentene	14.38	43	15146	0.2940 ppbV	S	89
53) 1,1-Dichloroethane	14.64	63	23963	0.3574 ppbV	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.62	42	19028	0.3224	ppbV		S	81
55)	2,3-Dimethylbutane	14.73	43	26014	0.3346	ppbV	#	S	59
56)	Methyl tert-butyl ether	14.84	73	30007m	0.3420	ppbV		S	
57)	Isohexane	14.94	42	13823m	0.3591	ppbV		S	
63)	Chloroprene	15.52	53	21333	0.3545	ppbV		S	81
64)	3-Methylpentane	15.54	57	21824	0.3294	ppbV		S	93
66)	2-Methyl-1-pentene	15.77	56	17765	0.2882	ppbV	#	S	1
67)	1-Hexene	15.80	41	12887m	0.3088	ppbV		S	
68)	cis-1,2-Dichloroethene	15.94	61	17764	0.3043	ppbV	#	S	1
69)	Bromochloromethane	16.17	130	7938	0.2816	ppbV	#	S	1
71)	n-Hexane	16.30	57	17329	0.2915	ppbV	#	S	1
72)	Chloroform	16.41	83	28868	0.2966	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	20636	0.2769	ppbV	#	S	1
77)	cis-2-Hexene	16.92	55	16308	0.2499	ppbV		S	96
78)	Methylcyclopentane	17.42	56	20914	0.2808	ppbV		S	86
79)	1,2-Dichloroethane	17.46	62	22565	0.2743	ppbV		S	87
80)	2,4-Dimethylpentane	17.61	43	25434	0.2993	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.80	97	32218	0.2952	ppbV	#	S	1
84)	Benzene	18.48	78	25445	0.4526	ppbV		S	76
85)	Carbon tetrachloride	18.71	117	31746	0.5056	ppbV	#	S	1
87)	Cyclohexane	18.88	56	18386	0.5218	ppbV	#	S	1
88)	Isoheptane	19.27	43	25897	0.4878	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.35	56	22399m	0.4910	ppbV		S	
91)	3-Methylhexane	19.64	43	20582	0.4931	ppbV	#	S	70
92)	1,2-Dichloropropane	19.75	63	9935	0.4161	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	23735	0.3916	ppbV	#	S	1
94)	Trichloroethene	20.14	130	10130	0.3941	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	60734	0.4918	ppbV		S	88
98)	2-Chloropentane	20.46	70	12836	0.3845	ppbV	#	S	14
100)	n-Heptane	20.70	71	9526	0.4435	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	11286	0.3320	ppbV	#	S	1
106)	Methylcyclohexane	21.62	83	19155	0.4661	ppbV		S	97
110)	trans-1,3-Dichloropropene	22.41	75	10716	0.3130	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	7132	0.3143	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.88	43	35624	0.5145	ppbV		S	93
114)	Toluene	23.08	91	21428	0.3447	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	23945	0.4595	ppbV	#	S	28
119)	Dibromochloromethane	23.77	129	12796	0.3020	ppbV	#	S	37
120)	3-Methylheptane	23.85	85	13162	0.4296	ppbV	#	S	1
122)	1,2-Dibromoethane	24.18	107	10332	0.3153	ppbV	#	S	1
125)	n-Octane	24.92	43	19573	0.3693	ppbV	#	S	47
126)	Tetrachloroethene	25.02	164	8016	0.3216	ppbV		S	92
128)	Chlorobenzene	26.23	112	10814	0.2746	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	18754	0.2798	ppbV		S	92
130)	m/p-Xylene	27.36	91	33419m	0.5520	ppbV		S	
131)	Bromoform	27.38	173	7867	0.2726	ppbV	#	S	1
134)	Styrene	28.03	104	8015	0.2565	ppbV	#	S	27
135)	1,1,2,2-Tetrachloroethane	28.23	83	11869	0.2966	ppbV		S	92
136)	o-Xylene	28.22	91	17534	0.2897	ppbV		S	85
140)	n-Nonane	28.85	43	15238	0.2867	ppbV	#	S	73
142)	Isopropylbenzene	29.45	105	24259	0.2630	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

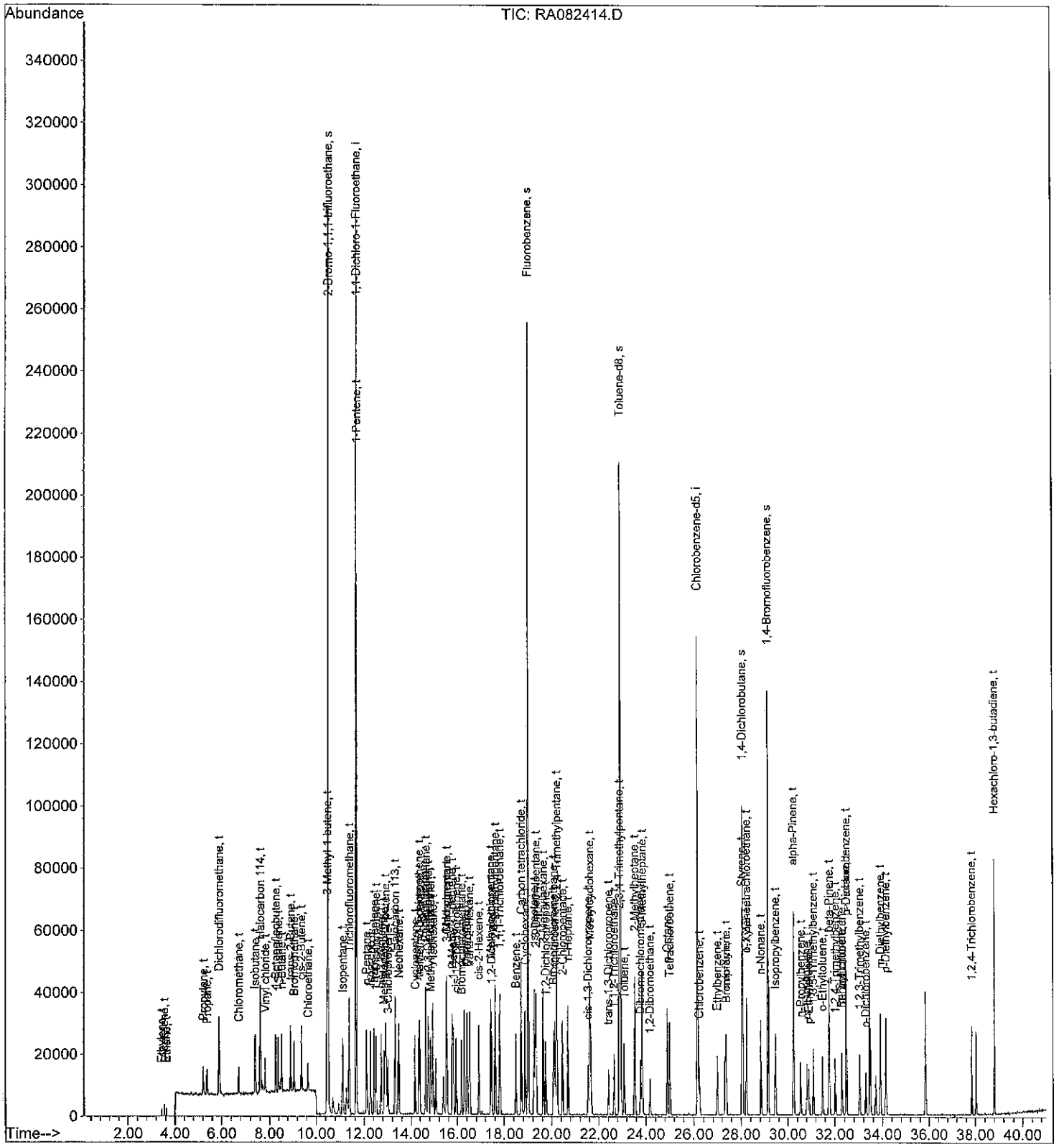
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.24	93	35954	0.4862	ppbV		S	95
147)	n-Propylbenzene	30.56	91	20673	0.2360	ppbV	#	S	35
148)	m-Ethyltoluene	30.81	105	15451	0.2409	ppbV		S	88
149)	p-Ethyltoluene	30.90	105	13780	0.2207	ppbV		S	89
150)	1,3,5-Trimethylbenzene	31.10	105	18196	0.2860	ppbV		S	81
151)	o-Ethyltoluene	31.48	105	17052	0.2433	ppbV		S	92
152)	beta-Pinene	31.76	93	24147	0.3119	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	15223	0.2786	ppbV	#	S	1
156)	Benzyl chloride	32.29	91	9138	0.2971	ppbV		S	97
157)	m-Dichlorobenzene	32.31	146	6500	0.2458	ppbV		S	84
158)	n-Decane	32.47	57	19296m	0.3651	ppbV		S	
159)	p-Dichlorobenzene	32.47	146	5915	0.2376	ppbV		S	74
161)	1,2,3-Trimethylbenzene	33.03	105	16786	0.3001	ppbV		S	89
163)	o-Dichlorobenzene	33.30	146	7253	0.3055	ppbV		S	84
167)	m-Diethylbenzene	33.91	105	17862	0.4486	ppbV	#	S	24
168)	p-Diethylbenzene	34.15	119	14994	0.4762	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	37.84	180	9260	0.4563	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	15715	0.3666	ppbV		S	95

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082414.D Vial: 1
Acq On : 24 Aug 2011 11:14 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:31 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	281748	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	106787	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	113931	2.0022 ppbV	0.01
Spiked Amount 2.000			Recovery	= 100.00%	
65) Fluorobenzene	19.00	96	258247	1.8391 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.00%	
113) Toluene-d8	22.92	98	189206	2.3273 ppbV	0.00
Spiked Amount 2.000			Recovery	= 116.50%	
115) 1,4-Dichlorobutane	28.06	90	15049	1.8837 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.00%	
141) 1,4-Bromofluorobenzene	29.14	95	71125	1.8751 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.00%	

Target Compounds					Qvalue
3) Ethylene	3.43	26	4763m	0.5836 ppbV	S
4) Acetylene	3.54	26	8598m	0.8269 ppbV	S
5) Ethane	3.62	26	3263	0.7768 ppbV	S 97
7) Propylene	5.21	41	12607	0.5683 ppbV	S 93
9) Propane	5.37	43	5689	0.5322 ppbV	S 80
10) Dichlorodifluoromethane	5.89	85	73857	0.5812 ppbV	S 98
11) Chloromethane	6.73	50	18079	0.5608 ppbV	S 98
12) Isobutane	7.38	43	36150	0.5617 ppbV	S 93
13) Halocarbon 114	7.60	85	67482	0.5935 ppbV	S 88
15) Vinyl chloride	7.82	62	19973	0.5602 ppbV	S 98
16) 1-Butene/Isobutene	8.26	41	25849	0.5707 ppbV	S 75
17) 1,3-Butadiene	8.37	39	17555	0.6191 ppbV	S 97
18) n-Butane	8.52	43	32641	0.5645 ppbV	S 94
20) trans-2-Butene	8.90	41	24305	0.5740 ppbV	S 89
23) Bromomethane	9.06	94	19230	0.5705 ppbV	S 91
24) cis-2-Butene	9.37	41	25677	0.6027 ppbV	S 90
25) Chloroethane	9.66	64	10993	0.5638 ppbV	S 93
27) 3-Methyl-1-butene	10.46	55	51076	0.5942 ppbV	S 78
31) Isopentane	11.09	41	25346	0.5704 ppbV #	S 1
32) Trichlorofluoromethane	11.36	101	75124	0.6236 ppbV #	S 73
33) 1-Pentene	11.67	42	28065	0.5936 ppbV #	S 1
37) n-Pentane	12.10	43	37546	0.5937 ppbV #	S 83
39) Isoprene	12.26	67	24606	0.5832 ppbV	S 96
40) trans-2-Pentene	12.42	55	42799	0.5958 ppbV #	S 1
41) 1,1-Dichloroethene	12.51	61	41294	0.6118 ppbV #	S 10
42) cis-2-Pentene	12.72	55	42348	0.5934 ppbV #	S 1
43) Methylene chloride	12.85	49	27583	0.5986 ppbV #	S 1
44) 2-Methyl-2-butene	12.90	55	44482	0.6167 ppbV #	S 1
46) 3-Chloropropene	13.01	41	26211	0.6966 ppbV #	S 1
47) Halocarbon 113	13.32	151	29146	0.6107 ppbV #	S 100
48) Neohexane	13.47	43	31176	0.6017 ppbV #	S 1
49) Cyclopentene	14.17	67	44559	0.5830 ppbV #	S 1
50) trans-1,2-Dichloroethene	14.34	61	34598	0.6282 ppbV #	S 1
51) 4-Methyl-1-pentene	14.37	43	31103	0.6005 ppbV	S 90
53) 1,1-Dichloroethane	14.64	63	49514	0.7346 ppbV	S 100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.62	42	39721	0.6693	ppbV		S	80
55)	2,3-Dimethylbutane	14.73	43	52851	0.6760	ppbV	#	S	65
56)	Methyl tert-butyl ether	14.83	73	64490	0.7310	ppbV	#	S	1
57)	Isohexane	14.93	42	27531m	0.7114	ppbV		S	
63)	Chloroprene	15.51	53	44434	0.7344	ppbV		S	80
64)	3-Methylpentane	15.53	57	44933	0.6746	ppbV		S	93
66)	2-Methyl-1-pentene	15.77	56	39191	0.6324	ppbV	#	S	1
67)	1-Hexene	15.80	41	24403m	0.5817	ppbV		S	
68)	cis-1,2-Dichloroethene	15.94	61	36021	0.6137	ppbV	#	S	1
69)	Bromochloromethane	16.17	130	16096	0.5680	ppbV	#	S	1
71)	n-Hexane	16.30	57	36453	0.6098	ppbV	#	S	1
72)	Chloroform	16.41	83	59642	0.6094	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	45650	0.6092	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	36117	0.5505	ppbV		S	95
78)	Methylcyclopentane	17.43	56	45401	0.6062	ppbV		S	89
79)	1,2-Dichloroethane	17.45	62	49243	0.5953	ppbV		S	89
80)	2,4-Dimethylpentane	17.61	43	52596	0.6156	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.81	97	66707	0.6078	ppbV	#	S	1
84)	Benzene	18.48	78	54189	0.9177	ppbV		S	75
85)	Carbon tetrachloride	18.70	117	64791	0.9826	ppbV	#	S	1
87)	Cyclohexane	18.87	56	39827	1.0762	ppbV	#	S	1
88)	Isoheptane	19.27	43	55648	0.9981	ppbV	#	S	32
89)	2,3-Dimethylpentane	19.34	56	46679m	0.9743	ppbV		S	
91)	3-Methylhexane	19.65	43	43199	0.9855	ppbV	#	S	84
92)	1,2-Dichloropropane	19.75	63	20828	0.8305	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	51996	0.8168	ppbV	#	S	1
94)	Trichloroethene	20.14	130	21167	0.7841	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	127356	0.9819	ppbV		S	91
98)	2-Chloropentane	20.46	70	28948	0.8256	ppbV	#	S	14
100)	n-Heptane	20.69	71	19985	0.8859	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	25213	0.7062	ppbV	#	S	1
106)	Methylcyclohexane	21.62	83	41443	0.9601	ppbV		S	96
110)	trans-1,3-Dichloropropene	22.42	75	24186	0.6726	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.66	97	16554	0.6947	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	72897	1.0024	ppbV		S	91
114)	Toluene	23.09	91	46956	0.7192	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	51721	0.9451	ppbV	#	S	1
119)	Dibromochloromethane	23.77	129	28757	0.6463	ppbV	#	S	38
120)	3-Methylheptane	23.85	85	29021	0.9018	ppbV	#	S	1
122)	1,2-Dibromoethane	24.18	107	22338	0.6491	ppbV	#	S	1
125)	n-Octane	24.92	43	45655	0.8203	ppbV	#	S	47
126)	Tetrachloroethene	25.02	164	17644	0.6741	ppbV		S	96
128)	Chlorobenzene	26.24	112	24935	0.6029	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	44081	0.6261	ppbV		S	97
130)	m/p-Xylene	27.35	91	78569m	1.2357	ppbV		S	
131)	Bromoform	27.38	173	17498	0.5773	ppbV	#	S	1
134)	Styrene	28.02	104	18078	0.5508	ppbV	#	S	22
135)	1,1,2,2-Tetrachloroethane	28.23	83	25138	0.5980	ppbV		S	93
136)	o-Xylene	28.23	91	41147	0.6473	ppbV		S	84
140)	n-Nonane	28.84	43	36748	0.6583	ppbV	#	S	70
142)	Isopropylbenzene	29.46	105	57729	0.5959	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

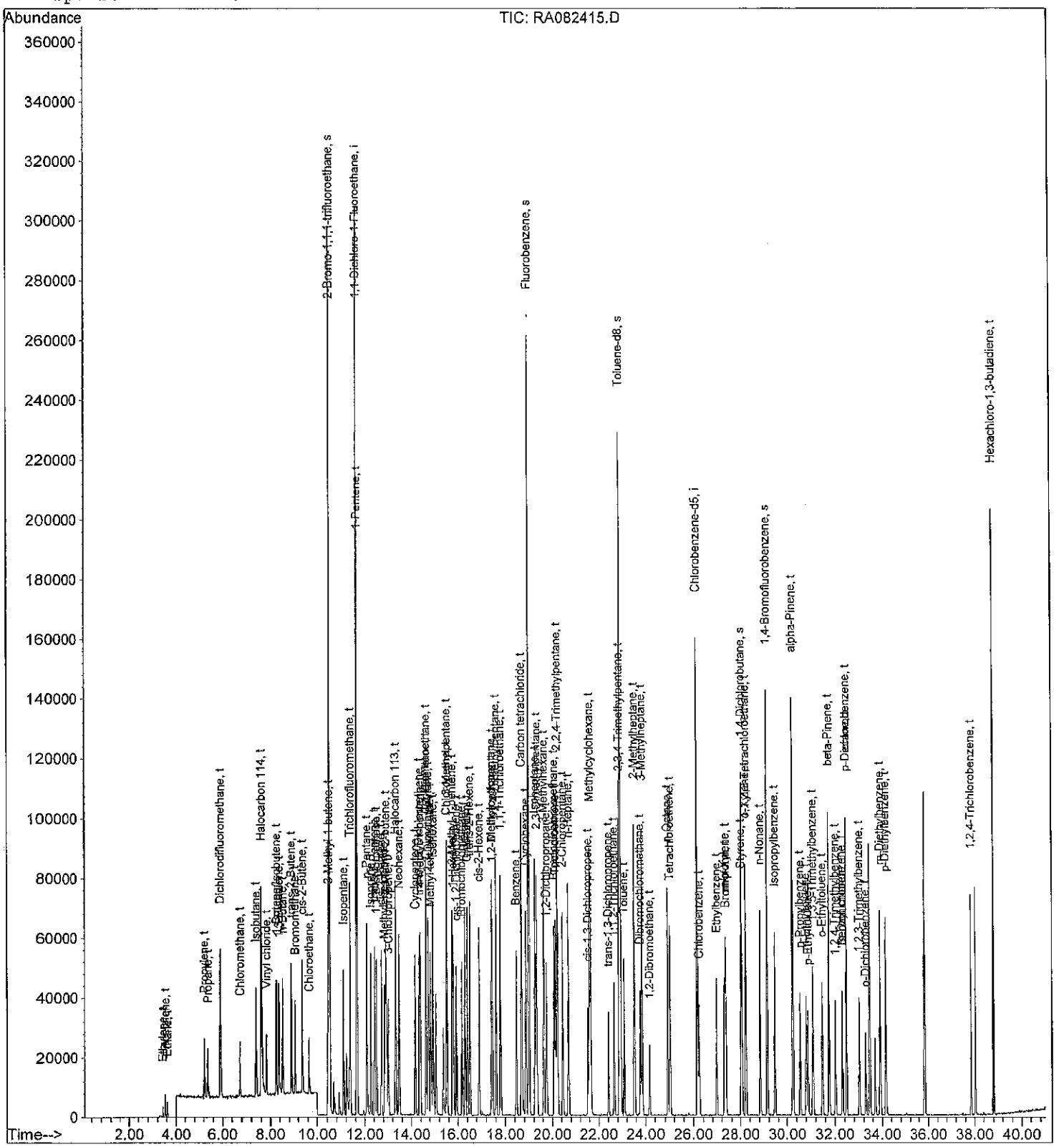
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.25	93	79260	1.0205	ppbV		S	96
147)	n-Propylbenzene	30.56	91	46665	0.5073	ppbV	#	S	36
148)	m-Ethyltoluene	30.81	105	35006	0.5197	ppbV		S	87
149)	p-Ethyltoluene	30.89	105	32336	0.4932	ppbV		S	84
150)	1,3,5-Trimethylbenzene	31.10	105	41885	0.6269	ppbV		S	83
151)	o-Ethyltoluene	31.49	105	40609	0.5518	ppbV		S	86
152)	beta-Pinene	31.77	93	53952	0.6636	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	34127	0.5947	ppbV	#	S	1
156)	Benzyl chloride	32.30	91	16897	0.5232	ppbV		S	94
157)	m-Dichlorobenzene	32.30	146	14111	0.5082	ppbV		S	84
158)	n-Decane	32.47	57	39716m	0.7154	ppbV		S	
159)	p-Dichlorobenzene	32.47	146	13021	0.4980	ppbV		S	79
161)	1,2,3-Trimethylbenzene	33.04	105	34583	0.5887	ppbV		S	85
163)	o-Dichlorobenzene	33.29	146	14669	0.5884	ppbV		S	91
167)	m-Diethylbenzene	33.92	105	38141	0.9120	ppbV	#	S	25
168)	p-Diethylbenzene	34.15	119	31216	0.9440	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	37.85	180	23065	1.0822	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	37598	0.8350	ppbV		S	89

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082415.D Vial: 1
Acq On : 25 Aug 2011 12:15 am Operator: KDK
Sample : 102 BLEND 50,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:35 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8.25.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	277742	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	104069	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	111959	1.9959 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
65) Fluorobenzene	19.00	96	252767	1.8260 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.50%	
113) Toluene-d8	22.92	98	187975	2.3726 ppbV	0.00
Spiked Amount 2.000			Recovery	= 118.50%	
115) 1,4-Dichlorobutane	28.06	90	14724	1.8912 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.50%	
141) 1,4-Bromofluorobenzene	29.13	95	70784	1.9148 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.50%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	9370m	1.1647 ppbV	S	
4) Acetylene	3.54	26	16460	1.6058 ppbV	S	91
5) Ethane	3.62	26	5911	1.4274 ppbV	S	95
7) Propylene	5.21	41	24520	1.1212 ppbV	S	96
9) Propane	5.37	43	11111	1.0543 ppbV	S	89
10) Dichlorodifluoromethane	5.88	85	146453	1.1691 ppbV	S	99
11) Chloromethane	6.73	50	34387	1.0821 ppbV	S	96
12) Isobutane	7.37	43	71206	1.1224 ppbV	S	93
13) Halocarbon 114	7.59	85	125454	1.1193 ppbV	S	88
15) Vinyl chloride	7.81	62	38543	1.0966 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	48850	1.0940 ppbV	S	74
17) 1,3-Butadiene	8.36	39	33484	1.1979 ppbV	S	94
18) n-Butane	8.52	43	60588	1.0629 ppbV	S	93
20) trans-2-Butene	8.89	41	45543	1.0911 ppbV	S	93
23) Bromomethane	9.06	94	36011	1.0838 ppbV	S	91
24) cis-2-Butene	9.37	41	48577	1.1567 ppbV	S	90
25) Chloroethane	9.64	64	20350	1.0587 ppbV	S	91
27) 3-Methyl-1-butene	10.46	55	94864	1.1195 ppbV	S	79
31) Isopentane	11.08	41	47425	1.0826 ppbV #	S	1
32) Trichlorofluoromethane	11.35	101	138460	1.1659 ppbV #	S	69
33) 1-Pentene	11.66	42	51448	1.1039 ppbV #	S	1
37) n-Pentane	12.09	43	69788	1.1194 ppbV #	S	84
39) Isoprene	12.26	67	45182	1.0863 ppbV	S	93
40) trans-2-Pentene	12.42	55	79438	1.1218 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	77619	1.1665 ppbV #	S	9
42) cis-2-Pentene	12.71	55	77978	1.1085 ppbV #	S	1
43) Methylene chloride	12.83	49	51009	1.1230 ppbV #	S	1
44) 2-Methyl-2-butene	12.89	55	81699	1.1490 ppbV #	S	1
46) 3-Chloropropene	13.00	41	48049	1.2954 ppbV #	S	1
47) Halocarbon 113	13.31	151	53399	1.1350 ppbV #	S	100
48) Neohexane	13.46	43	57525	1.1263 ppbV #	S	1
49) Cyclopentene	14.17	67	84478	1.1212 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.33	61	63371	1.1673 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	56710	1.1107 ppbV	S	90
53) 1,1-Dichloroethane	14.62	63	91064	1.3705 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.61	42	75961	1.2985	ppbV		S	82
55)	2,3-Dimethylbutane	14.72	43	97282	1.2623	ppbV	#	S	62
56)	Methyl tert-butyl ether	14.81	73	122729	1.4112	ppbV	#	S	1
57)	Isohexane	14.93	42	51433m	1.3482	ppbV		S	
63)	Chloroprene	15.50	53	81639	1.3687	ppbV		S	77
64)	3-Methylpentane	15.52	57	84721	1.2903	ppbV		S	95
66)	2-Methyl-1-pentene	15.76	56	79542	1.3021	ppbV	#	S	1
67)	1-Hexene	15.80	41	50060m	1.2105	ppbV		S	
68)	cis-1,2-Dichloroethene	15.93	61	68210	1.1789	ppbV	#	S	1
69)	Bromochloromethane	16.16	130	30280	1.0839	ppbV	#	S	1
71)	n-Hexane	16.29	57	70296	1.1929	ppbV	#	S	1
72)	Chloroform	16.40	83	107630	1.1157	ppbV	#	S	1
74)	trans-2-Hexene	16.50	55	84307	1.1413	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	69357	1.0724	ppbV		S	95
78)	Methylcyclopentane	17.42	56	84951	1.1507	ppbV		S	86
79)	1,2-Dichloroethane	17.45	62	86351	1.0590	ppbV		S	90
80)	2,4-Dimethylpentane	17.61	43	99792	1.1848	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.80	97	125658	1.1615	ppbV	#	S	1
84)	Benzene	18.47	78	101842	1.7698	ppbV		S	77
85)	Carbon tetrachloride	18.70	117	123367	1.9198	ppbV	#	S	1
87)	Cyclohexane	18.87	56	73744	2.0447	ppbV	#	S	1
88)	Isoheptane	19.26	43	106160	1.9539	ppbV	#	S	31
89)	2,3-Dimethylpentane	19.33	56	87144m	1.8665	ppbV		S	
91)	3-Methylhexane	19.65	43	82285	1.9262	ppbV	#	S	80
92)	1,2-Dichloropropane	19.75	63	38904	1.5918	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	93936	1.5142	ppbV	#	S	1
94)	Trichloroethene	20.13	130	38269	1.4547	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	238866	1.8898	ppbV		S	90
98)	2-Chloropentane	20.45	70	56077	1.6411	ppbV	#	S	14
100)	n-Heptane	20.69	71	39907	1.8152	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	43894	1.2616	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	79887	1.8991	ppbV		S	96
110)	trans-1,3-Dichloropropene	22.41	75	42996	1.2269	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	29654	1.2769	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	138176	1.9496	ppbV		S	93
114)	Toluene	23.09	91	88890	1.3971	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	100577	1.8858	ppbV	#	S	6
119)	Dibromochloromethane	23.77	129	52485	1.2104	ppbV	#	S	38
120)	3-Methylheptane	23.85	85	55762	1.7780	ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	35876	1.0698	ppbV	#	S	1
125)	n-Octane	24.91	43	90033	1.6599	ppbV	#	S	47
126)	Tetrachloroethene	25.02	164	31707	1.2430	ppbV		S	94
128)	Chlorobenzene	26.24	112	45471	1.1282	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	91008	1.3265	ppbV		S	98
130)	m/p-Xylene	27.31	91	155632m	2.5117	ppbV		S	
131)	Bromoform	27.38	173	32422	1.0976	ppbV	#	S	1
134)	Styrene	28.02	104	36099	1.1286	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	48534	1.1848	ppbV		S	93
136)	o-Xylene	28.22	91	81938	1.3227	ppbV		S	89
140)	n-Nonane	28.84	43	75546	1.3887	ppbV	#	S	70
142)	Isopropylbenzene	29.45	105	116310	1.2319	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

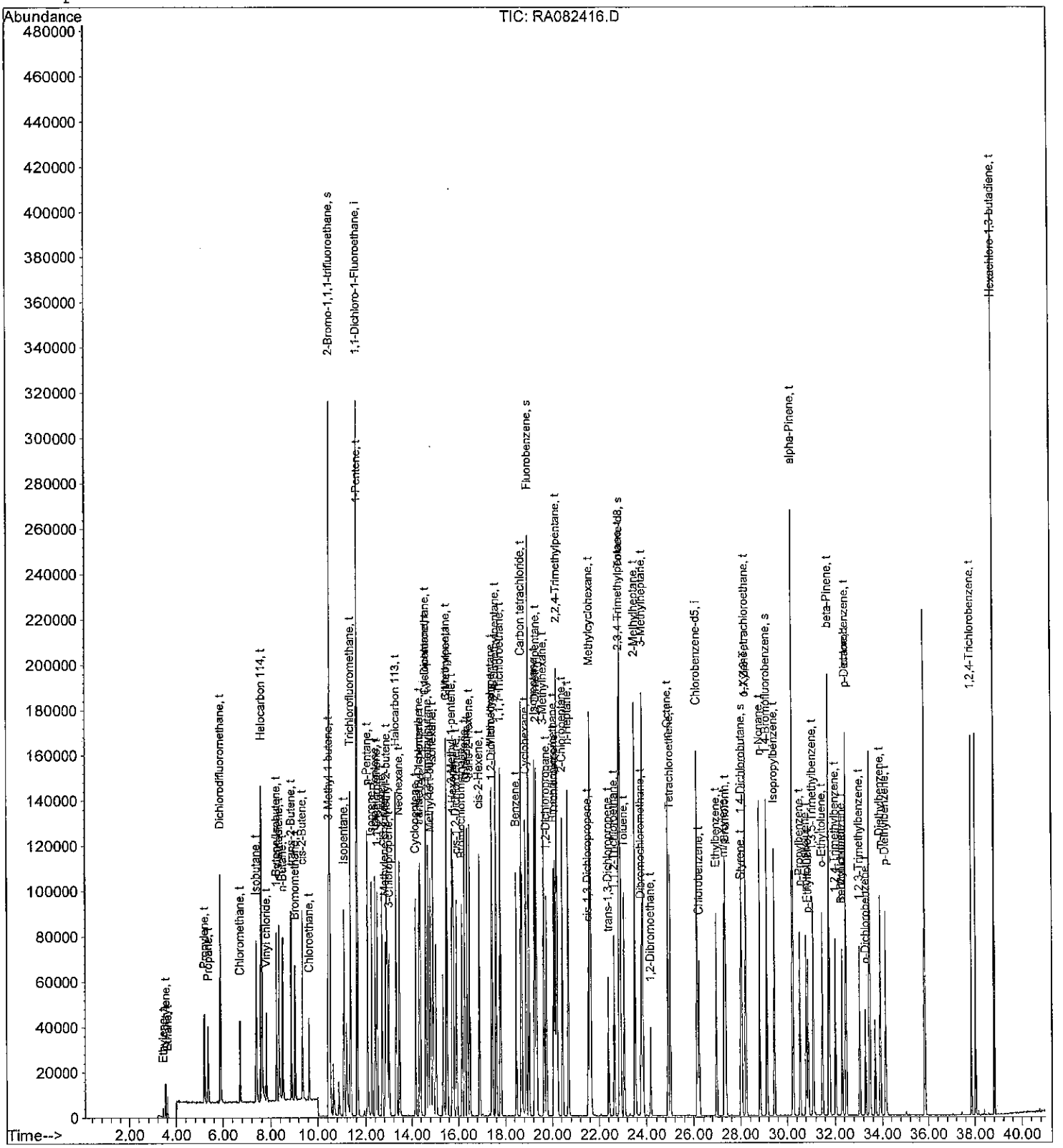
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.24	93	154033	2.0351	ppbV		S	95
147)	n-Propylbenzene	30.56	91	97495	1.0875	ppbV	#	S	34
148)	m-Ethyltoluene	30.81	105	71652	1.0916	ppbV		S	89
149)	p-Ethyltoluene	30.89	105	65727	1.0287	ppbV		S	86
150)	1,3,5-Trimethylbenzene	31.10	105	82379	1.2651	ppbV		S	90
151)	o-Ethyltoluene	31.49	105	81834	1.1410	ppbV		S	89
152)	beta-Pinene	31.77	93	106644	1.3459	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	67008	1.1982	ppbV	#	S	1
156)	Benzyl chloride	32.30	91	26915	0.8551	ppbV		S	97
157)	m-Dichlorobenzene	32.30	146	27307	1.0091	ppbV		S	85
158)	n-Decane	32.47	57	65710	1.2146	ppbV		S	68
159)	p-Dichlorobenzene	32.48	146	24667	0.9681	ppbV		S	83
161)	1,2,3-Trimethylbenzene	33.04	105	66517	1.1618	ppbV		S	87
163)	o-Dichlorobenzene	33.29	146	24713	1.0172	ppbV		S	92
167)	m-Diethylbenzene	33.91	105	53778	1.3195	ppbV	#	S	28
168)	p-Diethylbenzene	34.15	119	44062m	1.3673	ppbV		S	
172)	1,2,4-Trichlorobenzene	37.85	180	51261	2.4679	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	78894	1.7980	ppbV		S	93

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082416.D Vial: 1
Acq On : 25 Aug 2011 1:17 am Operator: KDK
Sample : 102 BLEND 100,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:39 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8.25.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	280664	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	116150	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	112400	1.9829 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
65) Fluorobenzene	19.00	96	272300	1.9467 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
113) Toluene-d8	22.92	98	206718	2.3378 ppbV	0.00
Spiked Amount 2.000			Recovery	= 117.00%	
115) 1,4-Dichlorobutane	28.06	90	16627	1.9135 ppbV	0.02
Spiked Amount 2.000			Recovery	= 95.50%	
141) 1,4-Bromofluorobenzene	29.13	95	76130	1.8452 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.50%	

Target Compounds						Qvalue
3) Ethylene	3.43	26	22709m	2.7933 ppbV	S	
4) Acetylene	3.54	26	40321	3.8927 ppbV	S	91
5) Ethane	3.62	26	11616	2.7759 ppbV	S	99
7) Propylene	5.21	41	59296	2.6832 ppbV	S	94
9) Propane	5.36	43	26990	2.5344 ppbV	S	92
10) Dichlorodifluoromethane	5.88	85	346789	2.7396 ppbV	S	98
11) Chloromethane	6.73	50	85290	2.6559 ppbV	S	98
12) Isobutane	7.37	43	172198	2.6860 ppbV	S	94
13) Halocarbon 114	7.58	85	300207	2.6505 ppbV	S	88
15) Vinyl chloride	7.81	62	95300	2.6832 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	120491	2.6704 ppbV	S	76
17) 1,3-Butadiene	8.36	39	82337	2.9149 ppbV	S	95
18) n-Butane	8.52	43	147922	2.5681 ppbV	S	96
20) trans-2-Butene	8.89	41	110744	2.6256 ppbV	S	89
23) Bromomethane	9.06	94	87101	2.5942 ppbV	S	94
24) cis-2-Butene	9.37	41	117560	2.7702 ppbV	S	89
25) Chloroethane	9.64	64	49466	2.5466 ppbV	S	93
27) 3-Methyl-1-butene	10.46	55	234524	2.7389 ppbV	S	80
31) Isopentane	11.08	41	111783	2.5252 ppbV #	S	1
32) Trichlorofluoromethane	11.35	101	323795	2.6981 ppbV #	S	71
33) 1-Pentene	11.67	42	126086	2.6771 ppbV #	S	1
37) n-Pentane	12.09	43	169656	2.6930 ppbV	S	85
39) Isoprene	12.26	67	112931	2.6869 ppbV	S	93
40) trans-2-Pentene	12.42	55	197262	2.7566 ppbV #	S	1
41) 1,1-Dichloroethene	12.50	61	186149	2.7685 ppbV #	S	10
42) cis-2-Pentene	12.72	55	191962	2.7004 ppbV #	S	1
43) Methylene chloride	12.84	49	121876	2.6553 ppbV #	S	1
44) 2-Methyl-2-butene	12.90	55	203625	2.8340 ppbV #	S	1
46) 3-Chloropropene	13.01	41	118809	3.1697 ppbV #	S	1
47) Halocarbon 113	13.31	151	127573	2.6834 ppbV #	S	100
48) Neohexane	13.47	43	137146	2.6573 ppbV #	S	1
49) Cyclopentene	14.17	67	204935	2.6916 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.33	61	153293	2.7943 ppbV #	S	1
51) 4-Methyl-1-pentene	14.37	43	138721	2.6887 ppbV	S	88
53) 1,1-Dichloroethane	14.63	63	220418	3.2826 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.62	42	182492	3.0870	ppbV		S	81
55)	2,3-Dimethylbutane	14.72	43	238981	3.0687	ppbV	#	S	65
56)	Methyl tert-butyl ether	14.81	73	301884	3.4350	ppbV	#	S	1
57)	Isohexane	14.93	42	125140m	3.2460	ppbV		S	
63)	Chloroprene	15.50	53	211236	3.5046	ppbV		S	79
64)	3-Methylpentane	15.53	57	205742	3.1008	ppbV		S	96
66)	2-Methyl-1-pentene	15.76	56	190086	3.0793	ppbV	#	S	1
67)	1-Hexene	15.80	41	122029m	2.9200	ppbV		S	
68)	cis-1,2-Dichloroethene	15.93	61	170575	2.9173	ppbV	#	S	1
69)	Bromochloromethane	16.17	130	74002	2.6215	ppbV	#	S	1
71)	n-Hexane	16.29	57	175584	2.9487	ppbV	#	S	1
72)	Chloroform	16.40	83	268405	2.7532	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	217758	2.9172	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	175835	2.6904	ppbV		S	97
78)	Methylcyclopentane	17.43	56	209082	2.8026	ppbV		S	89
79)	1,2-Dichloroethane	17.45	62	223755	2.7154	ppbV		S	90
80)	2,4-Dimethylpentane	17.61	43	240639	2.8272	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.80	97	302611	2.7681	ppbV	#	S	1
84)	Benzene	18.48	78	263712	4.1062	ppbV		S	81
85)	Carbon tetrachloride	18.70	117	295915	4.1260	ppbV	#	S	1
87)	Cyclohexane	18.87	56	175837	4.3683	ppbV	#	S	1
88)	Isoheptane	19.27	43	260440	4.2948	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.34	56	211949m	4.0674	ppbV		S	
91)	3-Methylhexane	19.65	43	202837	4.2544	ppbV	#	S	78
92)	1,2-Dichloropropane	19.75	63	102680	3.7642	ppbV	#	S	1
93)	Bromodichloromethane	20.08	83	246048	3.5535	ppbV	#	S	1
94)	Trichloroethene	20.14	130	105257	3.5848	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	585857	4.1528	ppbV		S	91
98)	2-Chloropentane	20.45	70	149075	3.9089	ppbV	#	S	11
100)	n-Heptane	20.70	71	100769	4.1069	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	135176	3.4812	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	192957	4.1100	ppbV		S	95
110)	trans-1,3-Dichloropropene	22.41	75	131413	3.3598	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	80025	3.0874	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	340093	4.2995	ppbV		S	94
114)	Toluene	23.09	91	244108	3.4376	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	249277	4.1877	ppbV	#	S	11
119)	Dibromochloromethane	23.77	129	140248	2.8980	ppbV	#	S	41
120)	3-Methylheptane	23.85	85	139124	3.9747	ppbV	#	S	1
122)	1,2-Dibromoethane	24.18	107	110147	2.9428	ppbV	#	S	1
125)	n-Octane	24.91	43	235165	3.8847	ppbV	#	S	48
126)	Tetrachloroethene	25.02	164	86217	3.0285	ppbV		S	94
128)	Chlorobenzene	26.23	112	125124	2.7816	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	249395	3.2569	ppbV		S	97
130)	m/p-Xylene	27.31	91	421763m	6.0988	ppbV		S	
131)	Bromoform	27.38	173	85959	2.6073	ppbV	#	S	1
134)	Styrene	28.02	104	101449	2.8418	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	132396	2.8958	ppbV		S	94
136)	o-Xylene	28.23	91	220108	3.1835	ppbV		S	89
140)	n-Nonane	28.84	43	197819	3.2582	ppbV	#	S	73
142)	Isopropylbenzene	29.45	105	312269	2.9635	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

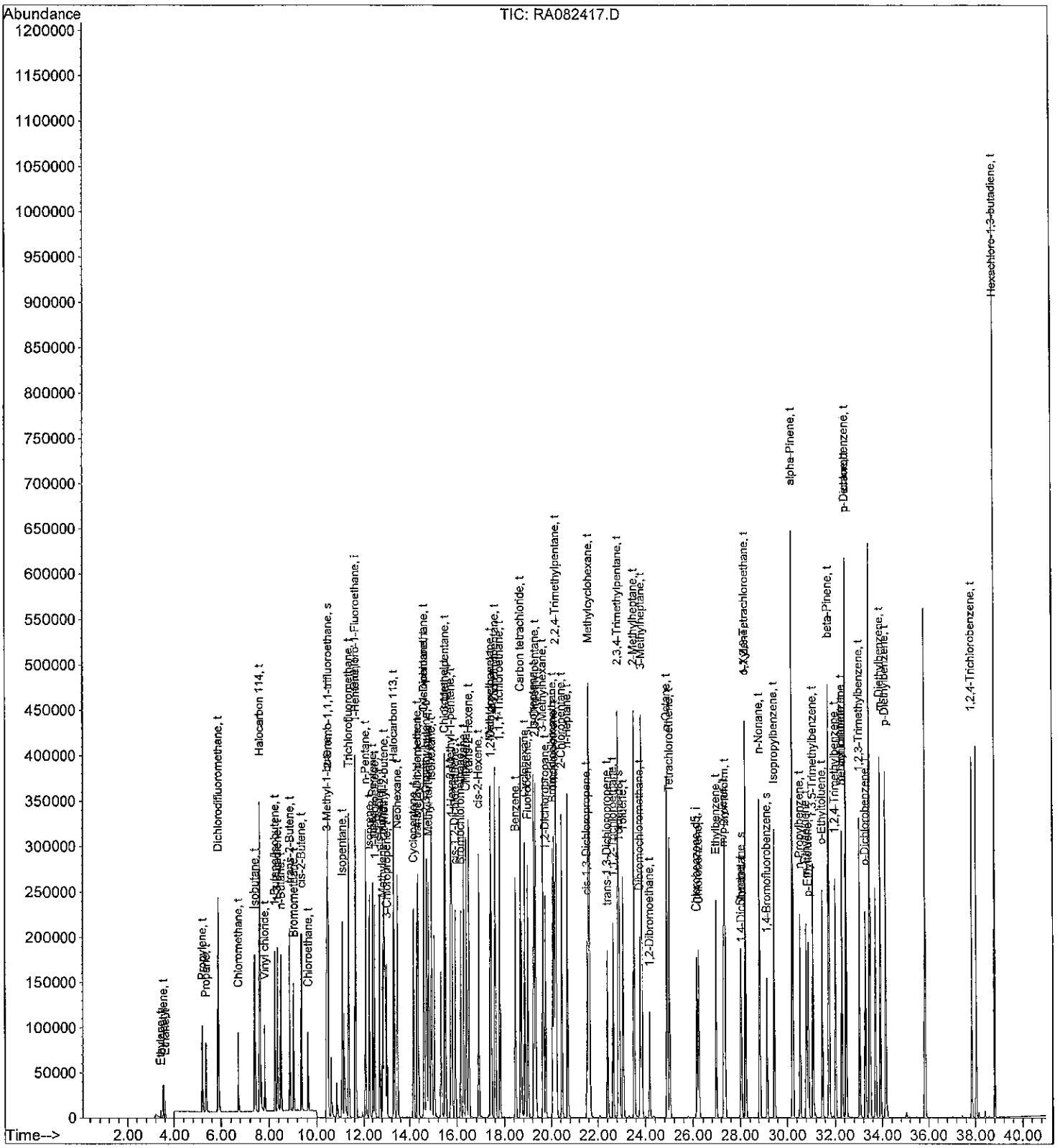
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.24	93	382717	4.5306	ppbV		S	95
147)	n-Propylbenzene	30.56	91	265570	2.6542	ppbV	#	S	35
148)	m-Ethyltoluene	30.82	105	202203	2.7600	ppbV		S	90
149)	p-Ethyltoluene	30.90	105	182416	2.5581	ppbV		S	88
150)	1,3,5-Trimethylbenzene	31.09	105	244477	3.3640	ppbV		S	87
151)	o-Ethyltoluene	31.49	105	241628	3.0184	ppbV		S	89
152)	beta-Pinene	31.77	93	270176	3.0552	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	232311	3.7221	ppbV	#	S	1
156)	Benzyl chloride	32.30	91	168721	4.8027	ppbV		S	99
157)	m-Dichlorobenzene	32.30	146	88422	2.9276	ppbV		S	84
158)	n-Decane	32.48	57	260278	4.3107	ppbV		S	77
159)	p-Dichlorobenzene	32.48	146	91417	3.2148	ppbV		S	82
161)	1,2,3-Trimethylbenzene	33.04	105	302489	4.7338	ppbV		S	84
163)	o-Dichlorobenzene	33.29	146	126795	4.6759	ppbV		S	93
167)	m-Diethylbenzene	33.92	105	232429	5.1096	ppbV	#	S	28
168)	p-Diethylbenzene	34.15	119	194983	5.4212	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	37.85	180	126132	5.4409	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	196945	4.0215	ppbV		S	94

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082417.D Vial: 1
Acq On : 25 Aug 2011 2:19 am Operator: KDK
Sample : 102 BLEND 250,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:41 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

AAA 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.64	81	282994	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.16	117	137343	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.49	83	114746	2.0076 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
65) Fluorobenzene	19.00	96	295961	2.0984 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	
113) Toluene-d8	22.92	98	239836	2.2938 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.50%	
115) 1,4-Dichlorobutane	28.05	90	19497	1.8976 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.00%	
141) 1,4-Bromofluorobenzene	29.13	95	88976	1.8238 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.00%	

Target Compounds					Qvalue
3) Ethylene	3.43	26	43373m	5.2912 ppbV	S
4) Acetylene	3.54	26	82922	7.9397 ppbV	S 91
5) Ethane	3.62	26	21347	5.0594 ppbV	S 99
7) Propylene	5.21	41	124077	5.5684 ppbV	S 98
9) Propane	5.36	43	55071	5.1287 ppbV	S 93
10) Dichlorodifluoromethane	5.88	85	683080	5.3518 ppbV	S 99
11) Chloromethane	6.72	50	171297	5.2903 ppbV	S 96
12) Isobutane	7.37	43	350892	5.4283 ppbV	S 94
13) Halocarbon 114	7.58	85	594788	5.2081 ppbV	S 87
15) Vinyl chloride	7.81	62	194347	5.4269 ppbV	S 98
16) 1-Butene/Isobutene	8.25	41	244909	5.3831 ppbV	S 77
17) 1,3-Butadiene	8.36	39	166404	5.8426 ppbV	S 96
18) n-Butane	8.51	43	299502	5.1569 ppbV	S 95
20) trans-2-Butene	8.89	41	224943	5.2891 ppbV	S 90
23) Bromomethane	9.05	94	178323	5.2673 ppbV	S 93
24) cis-2-Butene	9.37	41	240781	5.6271 ppbV	S 88
25) Chloroethane	9.64	64	101246	5.1695 ppbV	S 92
27) 3-Methyl-1-butene	10.45	55	469397	5.4366 ppbV	S 81
31) Isopentane	11.08	41	220705	4.9446 ppbV #	S 1
32) Trichlorofluoromethane	11.35	101	634340	5.2422 ppbV #	S 71
33) 1-Pentene	11.66	42	254781	5.3651 ppbV #	S 1
37) n-Pentane	12.08	43	336295	5.2942 ppbV	S 85
39) Isoprene	12.26	67	227483	5.3678 ppbV	S 93
40) trans-2-Pentene	12.41	55	394631	5.4693 ppbV #	S 1
41) 1,1-Dichloroethene	12.50	61	370173	5.4600 ppbV #	S 9
42) cis-2-Pentene	12.71	55	383509	5.3506 ppbV #	S 1
43) Methylene chloride	12.83	49	242024	5.2296 ppbV #	S 1
44) 2-Methyl-2-butene	12.90	55	408170	5.6341 ppbV #	S 1
46) 3-Chloropropene	13.00	41	236430	6.2557 ppbV #	S 1
47) Halocarbon 113	13.30	151	250653	5.2289 ppbV #	S 100
48) Neohexane	13.46	43	270977	5.2071 ppbV #	S 1
49) Cyclopentene	14.17	67	411879	5.3651 ppbV #	S 1
50) trans-1,2-Dichloroethene	14.33	61	300714	5.4363 ppbV #	S 1
51) 4-Methyl-1-pentene	14.37	43	277521	5.3347 ppbV	S 91
53) 1,1-Dichloroethane	14.62	63	448031	6.6175 ppbV #	S 100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.61	42	371690	6.2357	ppbV		S	82
55)	2,3-Dimethylbutane	14.72	43	482458	6.1441	ppbV	#	S	63
56)	Methyl tert-butyl ether	14.80	73	616069	6.9522	ppbV	#	S	1
57)	Isohexane	14.93	42	251250	6.4636	ppbV	#	S	47
63)	Chloroprene	15.50	53	427603	7.0359	ppbV		S	80
64)	3-Methylpentane	15.53	57	417303	6.2375	ppbV		S	97
66)	2-Methyl-1-pentene	15.76	56	378534	6.0817	ppbV	#	S	1
67)	1-Hexene	15.80	41	231914m	5.5036	ppbV		S	
68)	cis-1,2-Dichloroethene	15.93	61	342507	5.8097	ppbV	#	S	1
69)	Bromochloromethane	16.16	130	148796	5.2277	ppbV	#	S	1
71)	n-Hexane	16.29	57	363709	6.0577	ppbV	#	S	1
72)	Chloroform	16.40	83	540182	5.4955	ppbV	#	S	1
74)	trans-2-Hexene	16.51	55	451689	6.0012	ppbV	#	S	1
77)	cis-2-Hexene	16.91	55	367482	5.5765	ppbV		S	94
78)	Methylcyclopentane	17.43	56	434559	5.7771	ppbV		S	92
79)	1,2-Dichloroethane	17.45	62	448518	5.3983	ppbV		S	89
80)	2,4-Dimethylpentane	17.61	43	497413	5.7959	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.79	97	605337	5.4917	ppbV	#	S	1
84)	Benzene	18.48	78	561570	7.3948	ppbV		S	81
85)	Carbon tetrachloride	18.70	117	587687	6.9297	ppbV	#	S	1
87)	Cyclohexane	18.87	56	368531	7.7427	ppbV	#	S	1
88)	Isoheptane	19.27	43	524491	7.3145	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.34	56	439368m	7.1307	ppbV		S	
91)	3-Methylhexane	19.65	43	421247	7.4721	ppbV	#	S	80
92)	1,2-Dichloropropane	19.75	63	219288	6.7986	ppbV	#	S	1
93)	Bromodichloromethane	20.07	83	517331	6.3186	ppbV	#	S	1
94)	Trichloroethene	20.14	130	226472	6.5230	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.22	57	1197500	7.1786	ppbV		S	93
98)	2-Chloropentane	20.45	70	322627	7.1543	ppbV	#	S	11
100)	n-Heptane	20.70	71	217678	7.5026	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.54	75	304266	6.6267	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	396640	7.1447	ppbV		S	91
110)	trans-1,3-Dichloropropene	22.41	75	296866	6.4186	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	180146	5.8777	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	697248	7.4545	ppbV		S	94
114)	Toluene	23.09	91	550129	6.5516	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	520436	7.3939	ppbV	#	S	12
119)	Dibromochloromethane	23.77	129	308961	5.3991	ppbV	#	S	44
120)	3-Methylheptane	23.85	85	295558	7.1410	ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	243205	5.4951	ppbV	#	S	1
125)	n-Octane	24.92	43	515506	7.2017	ppbV	#	S	49
126)	Tetrachloroethene	25.02	164	194490	5.7775	ppbV		S	97
128)	Chlorobenzene	26.23	112	287501	5.4051	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	578938	6.3939	ppbV		S	98
130)	m/p-Xylene	27.35	91	969639m	11.8576	ppbV		S	
131)	Bromoform	27.38	173	191923	4.9230	ppbV	#	S	1
134)	Styrene	28.02	104	240004	5.6856	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	402456	7.4444	ppbV		S	95
136)	o-Xylene	28.23	91	500822	6.1258	ppbV		S	90
140)	n-Nonane	28.84	43	449897	6.2666	ppbV	#	S	73
142)	Isopropylbenzene	29.46	105	725106	5.8195	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

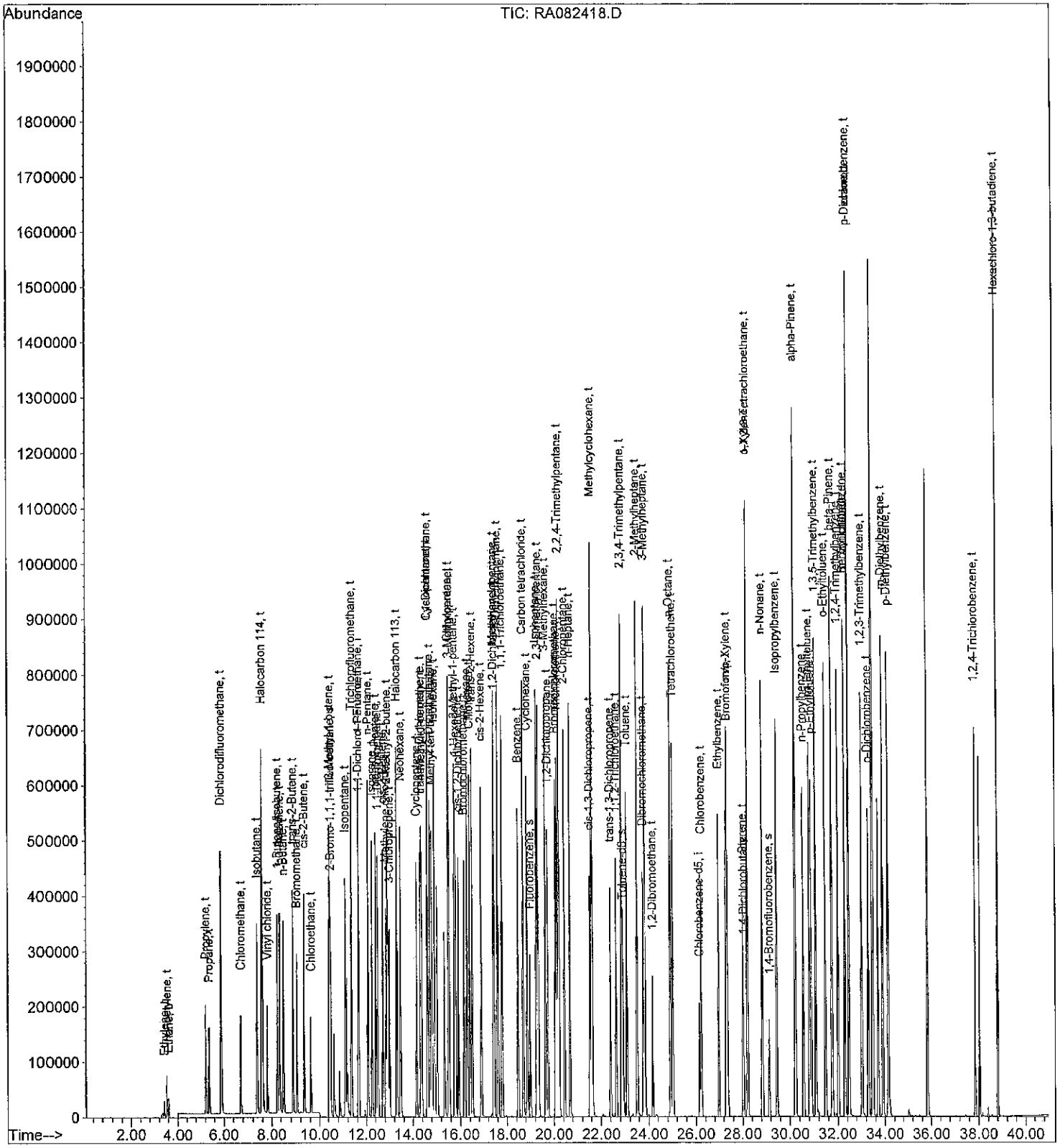
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
144) alpha-Pinene	30.24	93	787945	7.8883 ppbV	S 95
147) n-Propylbenzene	30.56	91	720081	6.0863 ppbV #	S 35
148) m-Ethyltoluene	30.81	105	653706	7.5460 ppbV	S 91
149) p-Ethyltoluene	30.90	105	597705	7.0885 ppbV	S 89
150) 1,3,5-Trimethylbenzene	31.09	105	774513	9.0129 ppbV	S 88
151) o-Ethyltoluene	31.49	105	799151	8.4426 ppbV	S 88
152) beta-Pinene	31.77	93	573334	5.4829 ppbV #	S 1
153) 1,2,4-Trimethylbenzene	32.02	105	727367	9.8557 ppbV #	S 1
156) Benzyl chloride	32.30	91	406538	9.7866 ppbV	S 98
157) m-Dichlorobenzene	32.30	146	306445	8.5805 ppbV	S 86
158) n-Decane	32.48	57	588510	8.2428 ppbV	S 78
159) p-Dichlorobenzene	32.48	146	295952	8.8015 ppbV	S 85
161) 1,2,3-Trimethylbenzene	33.04	105	727759	9.6317 ppbV	S 87
163) o-Dichlorobenzene	33.30	146	315085	9.8266 ppbV	S 96
167) m-Diethylbenzene	33.92	105	514539	9.5659 ppbV #	S 27
168) p-Diethylbenzene	34.15	119	425995	10.0165 ppbV #	S 1
172) 1,2,4-Trichlorobenzene	37.85	180	231020	8.4276 ppbV #	S 100
174) Hexachloro-1,3-butadiene	38.81	225	344831	5.9547 ppbV	S 95

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082418.D Vial: 1
Acq On : 25 Aug 2011 3:23 am Operator: KDK
Sample : 102 BLEND 500,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:44 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.63	81	280518	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.16	117	150473	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.48	83	117480	2.0736 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 103.50%	
65) Fluorobenzene	18.99	96	313274	2.2407 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.00%	
113) Toluene-d8	22.92	98	259535	2.2656 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.50%	
115) 1,4-Dichlorobutane	28.05	90	23445	2.0827 ppbV	0.01
Spiked Amount 2.000			Recovery	= 104.00%	
141) 1,4-Bromofluorobenzene	29.13	95	100867	1.8872 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	

Target Compounds						Qvalue
3) Ethylene	3.31	26	71238m	8.7673 ppbV	S	
4) Acetylene	3.54	26	130553	12.6106 ppbV	S	91
5) Ethane	3.62	26	28855	6.8992 ppbV	S	98
7) Propylene	5.21	41	195853	8.8672 ppbV	S	98
9) Propane	5.36	43	86576	8.1339 ppbV	S	95
10) Dichlorodifluoromethane	5.87	85	1042868	8.2428 ppbV	S	99
11) Chloromethane	6.72	50	270856	8.4389 ppbV	S	98
12) Isobutane	7.37	43	548691	8.5631 ppbV	S	97
13) Halocarbon 114	7.58	85	911591	8.0525 ppbV	S	89
15) Vinyl chloride	7.80	62	307785	8.6703 ppbV	S	99
16) 1-Butene/Isobutene	8.24	41	382806	8.4884 ppbV	S	77
17) 1,3-Butadiene	8.35	39	255460	9.0485 ppbV	S	95
18) n-Butane	8.50	43	464322	8.0653 ppbV	S	97
20) trans-2-Butene	8.88	41	350723	8.3194 ppbV	S	89
23) Bromomethane	9.04	94	276239	8.2316 ppbV	S	95
24) cis-2-Butene	9.36	41	370267	8.7296 ppbV	S	89
25) Chloroethane	9.63	64	160043	8.2437 ppbV	S	94
27) 3-Methyl-1-butene	10.44	55	721220	8.4270 ppbV	S	82
31) Isopentane	11.07	41	351108	7.9356 ppbV #	S	1
32) Trichlorofluoromethane	11.34	101	938703	7.8260 ppbV #	S	71
33) 1-Pentene	11.65	42	389312	8.2704 ppbV #	S	1
37) n-Pentane	12.07	43	511115	8.1174 ppbV #	S	83
39) Isoprene	12.25	67	353542	8.4159 ppbV	S	94
40) trans-2-Pentene	12.40	55	606694	8.4826 ppbV #	S	1
41) 1,1-Dichloroethene	12.49	61	555665	8.2684 ppbV #	S	9
42) cis-2-Pentene	12.70	55	591153	8.3204 ppbV #	S	1
43) Methylene chloride	12.82	49	366652	7.9924 ppbV #	S	1
44) 2-Methyl-2-butene	12.88	55	625829	8.7147 ppbV #	S	1
46) 3-Chloropropene	12.99	41	360682	9.6276 ppbV #	S	1
47) Halocarbon 113	13.30	151	377325	7.9410 ppbV #	S	100
48) Neohexane	13.46	43	415065	8.0463 ppbV #	S	1
49) Cyclopentene	14.15	67	633484	8.3245 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.32	61	456949	8.3337 ppbV #	S	1
51) 4-Methyl-1-pentene	14.36	43	418971	8.1248 ppbV	S	92
53) 1,1-Dichloroethane	14.61	63	681813	10.1593 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.60	42	570693	9.6588	ppbV		S	83
55)	2,3-Dimethylbutane	14.71	43	751315	9.6525	ppbV	#	S	62
56)	Methyl tert-butyl ether	14.79	73	959975	10.9287	ppbV	#	S	1
57)	Isohexane	14.92	42	392758m	10.1932	ppbV		S	
63)	Chloroprene	15.49	53	649547	10.7822	ppbV		S	80
64)	3-Methylpentane	15.52	57	649982	9.8011	ppbV		S	97
66)	2-Methyl-1-pentene	15.75	56	579361	9.3904	ppbV	#	S	1
67)	1-Hexene	15.79	41	366848m	8.7827	ppbV		S	
68)	cis-1,2-Dichloroethene	15.92	61	528620	9.0457	ppbV	#	S	1
69)	Bromochloromethane	16.15	130	231515	8.2056	ppbV	#	S	1
71)	n-Hexane	16.28	57	569114	9.5625	ppbV	#	S	1
72)	Chloroform	16.39	83	825688	8.4742	ppbV	#	S	1
74)	trans-2-Hexene	16.50	55	703773	9.4330	ppbV	#	S	1
77)	cis-2-Hexene	16.89	55	581207	8.8977	ppbV		S	94
78)	Methylcyclopentane	17.41	56	677435	9.0854	ppbV		S	92
79)	1,2-Dichloroethane	17.44	62	680257	8.2597	ppbV		S	90
80)	2,4-Dimethylpentane	17.60	43	764355	8.9850	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.79	97	912829	8.3544	ppbV	#	S	1
84)	Benzene	18.47	78	891832	10.7190	ppbV		S	83
85)	Carbon tetrachloride	18.69	117	880435	9.4758	ppbV	#	S	1
87)	Cyclohexane	18.86	56	568822	10.9079	ppbV	#	S	1
88)	Isoheptane	19.25	43	813642	10.3569	ppbV	#	S	29
89)	2,3-Dimethylpentane	19.33	56	683080m	10.1186	ppbV		S	
91)	3-Methylhexane	19.64	43	646260	10.4631	ppbV	#	S	80
92)	1,2-Dichloropropane	19.74	63	353808	10.0120	ppbV	#	S	1
93)	Bromodichloromethane	20.07	83	806997	8.9965	ppbV	#	S	1
94)	Trichloroethene	20.13	130	357149	9.3892	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.21	57	1860688	10.1809	ppbV		S	94
98)	2-Chloropentane	20.45	70	511209	10.3470	ppbV	#	S	10
100)	n-Heptane	20.69	71	347156	10.9212	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.53	75	497539	9.8905	ppbV	#	S	1
106)	Methylcyclohexane	21.61	83	620725	10.2056	ppbV		S	95
110)	trans-1,3-Dichloropropene	22.41	75	486879	9.6084	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.65	97	295143	8.7894	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	1078574	10.5252	ppbV		S	94
114)	Toluene	23.09	91	903277	9.8187	ppbV	#	S	1
117)	2-Methylheptane	23.53	43	799132	10.3628	ppbV	#	S	9
119)	Dibromochloromethane	23.77	129	496191	7.9143	ppbV	#	S	46
120)	3-Methylheptane	23.85	85	465343	10.2621	ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	398834	8.2252	ppbV	#	S	1
125)	n-Octane	24.91	43	818018	10.4306	ppbV	#	S	50
126)	Tetrachloroethene	25.02	164	318100	8.6249	ppbV		S	98
128)	Chlorobenzene	26.23	112	478725	8.2148	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	969779	9.7758	ppbV		S	98
130)	m/p-Xylene	27.35	91	1597984m	17.8364	ppbV		S	
131)	Bromoform	27.38	173	312427	7.3148	ppbV	#	S	1
134)	Styrene	28.02	104	407689	8.8152	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	673946	11.3784	ppbV		S	96
136)	o-Xylene	28.23	91	816927	9.1203	ppbV		S	90
140)	n-Nonane	28.84	43	727791	9.2528	ppbV		S	76
142)	Isopropylbenzene	29.45	105	1216567	8.9119	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

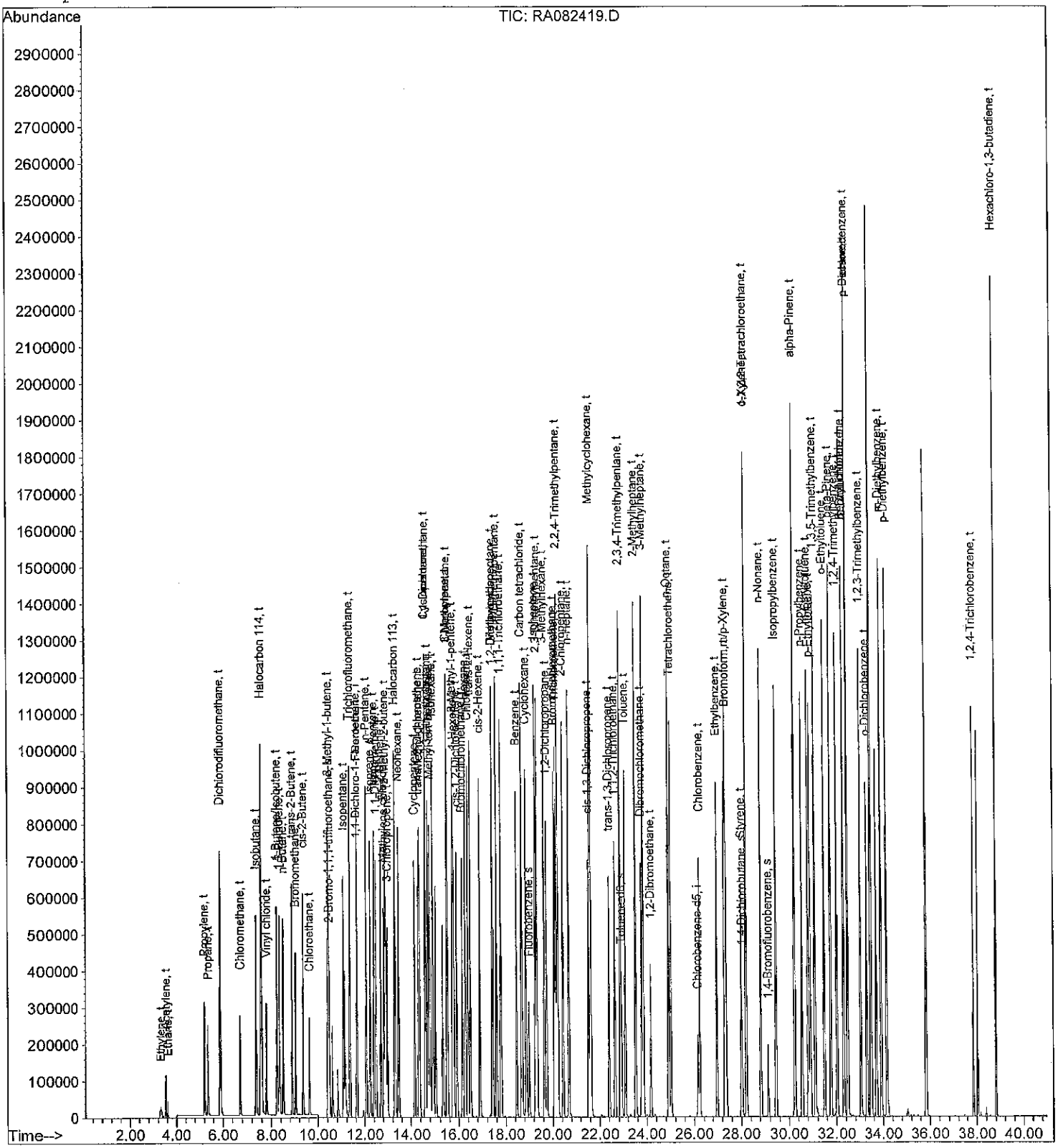
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.24	93	1227606	11.2175	ppbV		S	94
147)	n-Propylbenzene	30.56	91	1442187	11.1261	ppbV	#	S	35
148)	m-Ethyltoluene	30.82	105	1204792	12.6938	ppbV		S	91
149)	p-Ethyltoluene	30.90	105	1119857	12.1221	ppbV		S	89
150)	1,3,5-Trimethylbenzene	31.09	105	1296183	13.7673	ppbV		S	88
151)	o-Ethyltoluene	31.49	105	1352193	13.0387	ppbV		S	88
152)	beta-Pinene	31.77	93	905444	7.9033	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.02	105	1222987	15.1253	ppbV	#	S	1
156)	Benzyl chloride	32.30	91	733922	16.1261	ppbV		S	98
157)	m-Dichlorobenzene	32.30	146	504564	12.8951	ppbV		S	86
158)	n-Decane	32.48	57	964676	12.3325	ppbV		S	81
159)	p-Dichlorobenzene	32.48	146	480927	13.0545	ppbV		S	87
161)	1,2,3-Trimethylbenzene	33.04	105	1231750	14.8794	ppbV		S	87
163)	o-Dichlorobenzene	33.30	146	531579	15.1318	ppbV		S	97
167)	m-Diethylbenzene	33.92	105	909757	15.4376	ppbV	#	S	28
168)	p-Diethylbenzene	34.15	119	786139	16.8717	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	37.85	180	375557	12.5049	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	497080	7.8348	ppbV		S	97

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082419.D Vial: 1
Acq On : 25 Aug 2011 4:29 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:48 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

DAH 8-25-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.61	81	279668	2.0000 ppbV	-0.03
82) Chlorobenzene-d5	26.16	117	158540	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.47	83	121857	2.1574 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 108.00%	
65) Fluorobenzene	18.98	96	328035	2.3535 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 117.50%	
113) Toluene-d8	22.92	98	275368	2.2815 ppbV	0.00
Spiked Amount 2.000			Recovery	= 114.00%	
115) 1,4-Dichlorobutane	28.05	90	23213	1.9572 ppbV	0.01
Spiked Amount 2.000			Recovery	= 98.00%	
141) 1,4-Bromofluorobenzene	29.13	95	101857	1.8087 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	

Target Compounds						Qvalue
3) Ethylene	3.34	26	97845m	12.0784 ppbV	S	
4) Acetylene	3.54	26	181546	17.5895 ppbV	S	91
5) Ethane	3.62	26	40245	9.6517 ppbV	S	99
7) Propylene	5.21	41	272292	12.3654 ppbV	S	98
9) Propane	5.36	43	121683	11.4670 ppbV	S	96
10) Dichlorodifluoromethane	5.87	85	1399670	11.0965 ppbV	S	99
11) Chloromethane	6.71	50	374662	11.7086 ppbV	S	98
12) Isobutane	7.37	43	758038	11.8663 ppbV	S	97
13) Halocarbon 114	7.57	85	1240650	10.9926 ppbV	S	87
15) Vinyl chloride	7.79	62	424840	12.0041 ppbV	S	99
16) 1-Butene/Isobutene	8.23	41	526901	11.7191 ppbV	S	78
17) 1,3-Butadiene	8.34	39	347955	12.3622 ppbV	S	92
18) n-Butane	8.50	43	643282	11.2078 ppbV	S	98
20) trans-2-Butene	8.87	41	480056	11.4218 ppbV	S	88
23) Bromomethane	9.03	94	379446	11.3414 ppbV	S	95
24) cis-2-Butene	9.35	41	511350	12.0925 ppbV	S	89
25) Chloroethane	9.62	64	221355	11.4365 ppbV	S	94
27) 3-Methyl-1-butene	10.43	55	984758	11.5413 ppbV	S	83
31) Isopentane	11.06	41	474913	10.7664 ppbV #	S	1
32) Trichlorofluoromethane	11.32	101	1228450	10.2728 ppbV #	S	72
33) 1-Pentene	11.63	42	524994	11.1866 ppbV #	S	1
37) n-Pentane	12.06	43	685871	10.9260 ppbV #	S	84
39) Isoprene	12.23	67	482574	11.5224 ppbV	S	95
40) trans-2-Pentene	12.39	55	821845	11.5257 ppbV #	S	1
41) 1,1-Dichloroethene	12.47	61	742165	11.0771 ppbV #	S	10
42) cis-2-Pentene	12.68	55	798769	11.2767 ppbV #	S	1
43) Methylene chloride	12.81	49	491281	10.7416 ppbV #	S	1
44) 2-Methyl-2-butene	12.86	55	841981	11.7603 ppbV #	S	1
46) 3-Chloropropene	12.97	41	483960	12.9575 ppbV #	S	1
47) Halocarbon 113	13.28	151	505451	10.6698 ppbV #	S	100
48) Neohexane	13.43	43	555050	10.7927 ppbV #	S	1
49) Cyclopentene	14.14	67	841556	11.0924 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.31	61	731607	13.3834 ppbV #	S	1
51) 4-Methyl-1-pentene	14.34	43	684480	13.3140 ppbV	S	87
53) 1,1-Dichloroethane	14.60	63	921870	13.7781 ppbV #	S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
54)	Cyclopentane	14.58	42	783994	13.3092	ppbV		S	84
55)	2,3-Dimethylbutane	14.70	43	1028312	13.2513	ppbV	#	S	62
56)	Methyl tert-butyl ether	14.77	73	1321871	15.0944	ppbV	#	S	1
57)	Isohexane	14.90	42	540326m	14.0656	ppbV		S	
63)	Chloroprene	15.47	53	864607	14.3957	ppbV		S	82
64)	3-Methylpentane	15.50	57	898186	13.5849	ppbV		S	97
66)	2-Methyl-1-pentene	15.74	56	831759	13.5222	ppbV	#	S	1
67)	1-Hexene	15.78	41	459926m	11.0445	ppbV		S	
68)	cis-1,2-Dichloroethene	15.90	61	714198	12.2584	ppbV	#	S	1
69)	Bromochloromethane	16.14	130	316158	11.2397	ppbV	#	S	1
71)	n-Hexane	16.27	57	788625	13.2910	ppbV	#	S	1
72)	Chloroform	16.37	83	1097512	11.2982	ppbV	#	S	1
74)	trans-2-Hexene	16.49	55	966488m	12.9936	ppbV		S	
77)	cis-2-Hexene	16.88	55	792114	12.1633	ppbV		S	94
78)	Methylcyclopentane	17.40	56	935724	12.5876	ppbV		S	95
79)	1,2-Dichloroethane	17.43	62	884285	10.7697	ppbV		S	91
80)	2,4-Dimethylpentane	17.59	43	1040210	12.2648	ppbV	#	S	1
81)	1,1,1-Trichloroethane	17.78	97	1220583	11.2049	ppbV	#	S	1
84)	Benzene	18.46	78	1230535	14.0373	ppbV		S	84
85)	Carbon tetrachloride	18.68	117	1159832	11.8477	ppbV	#	S	1
87)	Cyclohexane	18.85	56	788435	14.3499	ppbV	#	S	1
88)	Isoheptane	19.25	43	1125737m	13.6004	ppbV		S	
89)	2,3-Dimethylpentane	19.32	56	938330	13.1924	ppbV	#	S	72
91)	3-Methylhexane	19.63	43	877536	13.4846	ppbV	#	S	81
92)	1,2-Dichloropropane	19.73	63	487305	13.0880	ppbV	#	S	1
93)	Bromodichloromethane	20.06	83	1069979	11.3213	ppbV	#	S	1
94)	Trichloroethene	20.12	130	473120	11.8051	ppbV	#	S	1
97)	2,2,4-Trimethylpentane	20.21	57	2535460	13.1671	ppbV		S	96
98)	2-Chloropentane	20.43	70	706418	13.5705	ppbV	#	S	9
100)	n-Heptane	20.69	71	480158	14.3367	ppbV	#	S	1
104)	cis-1,3-Dichloropropene	21.53	75	655679	12.3709	ppbV	#	S	1
106)	Methylcyclohexane	21.60	83	853690	13.3216	ppbV		S	98
110)	trans-1,3-Dichloropropene	22.40	75	632685	11.8505	ppbV	#	S	1
111)	1,1,2-Trichloroethane	22.64	97	403274	11.3985	ppbV	#	S	1
112)	2,3,4-Trimethylpentane	22.87	43	1455654	13.4821	ppbV		S	91
114)	Toluene	23.08	91	1249308	12.8891	ppbV	#	S	1
117)	2-Methylheptane	23.52	43	1084668	13.3497	ppbV	#	S	10
119)	Dibromochloromethane	23.77	129	655974	9.9305	ppbV	#	S	46
120)	3-Methylheptane	23.85	85	646691	13.5357	ppbV	#	S	1
122)	1,2-Dibromoethane	24.17	107	513598	10.0530	ppbV	#	S	1
125)	n-Octane	24.91	43	1115783	13.5035	ppbV	#	S	50
126)	Tetrachloroethene	25.02	164	436250	11.2265	ppbV		S	99
128)	Chlorobenzene	26.23	112	652007	10.6190	ppbV	#	S	1
129)	Ethylbenzene	26.98	91	1327827	12.7041	ppbV		S	98
130)	m/p-Xylene	27.35	91	2167109m	22.9580	ppbV		S	
131)	Bromoform	27.38	173	413463	9.1878	ppbV	#	S	1
134)	Styrene	28.02	104	559195	11.4759	ppbV	#	S	20
135)	1,1,2,2-Tetrachloroethane	28.23	83	976160	15.6422	ppbV		S	97
136)	o-Xylene	28.23	91	1095403	11.6070	ppbV		S	91
140)	n-Nonane	28.84	43	970333	11.7087	ppbV		S	78
142)	Isopropylbenzene	29.46	105	1604996	11.1591	ppbV		S	100

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

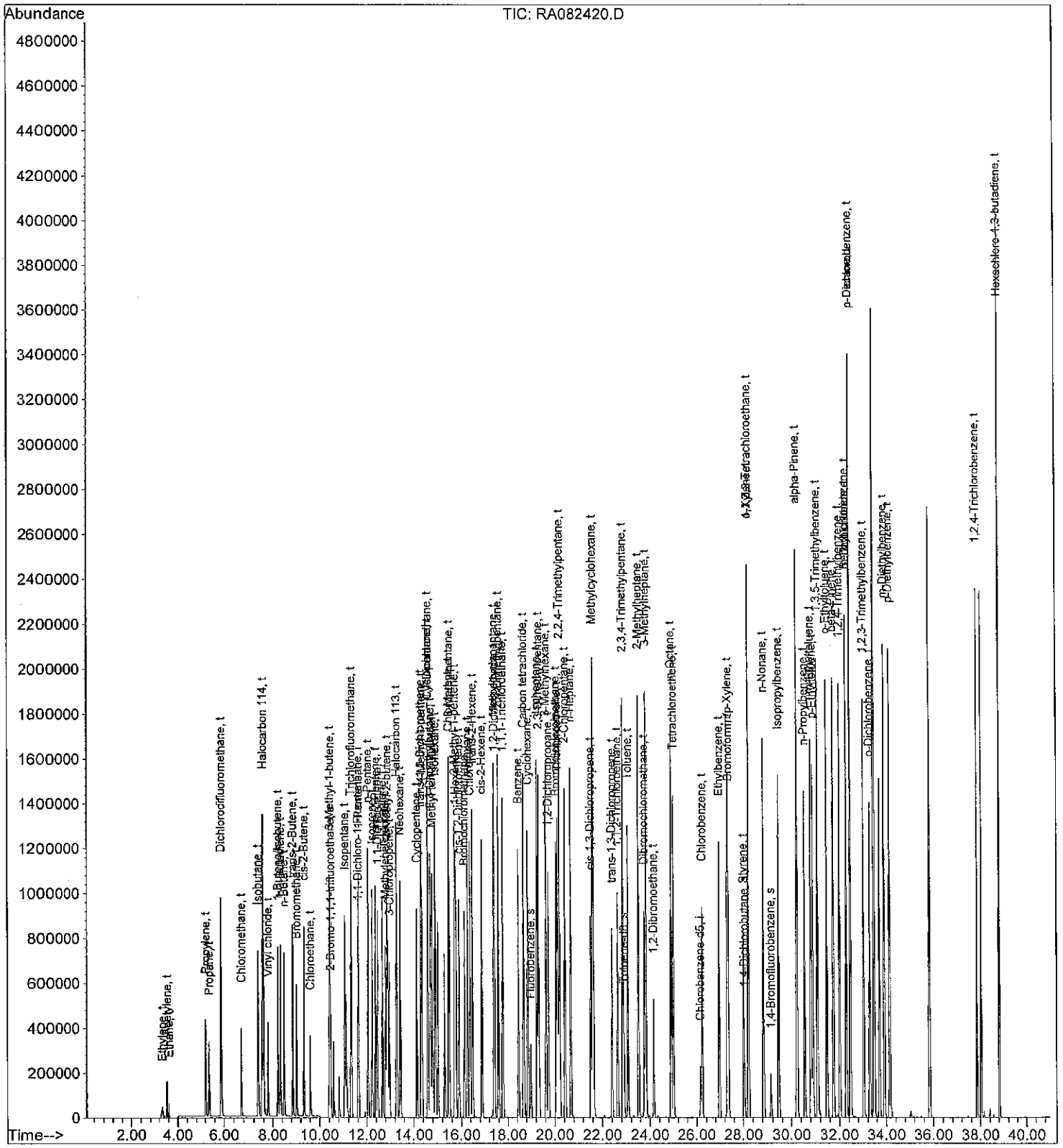
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration
DataAcq Meth : RA110612

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
144)	alpha-Pinene	30.24	93	1666747	14.4553	ppbV		S	94
147)	n-Propylbenzene	30.56	91	1852390	13.5636	ppbV	#	S	35
148)	m-Ethyltoluene	30.82	105	1719265	17.1927	ppbV		S	91
149)	p-Ethyltoluene	30.90	105	1585406	16.2883	ppbV		S	89
150)	1,3,5-Trimethylbenzene	31.10	105	1908257	19.2371	ppbV		S	88
151)	o-Ethyltoluene	31.49	105	2001753	18.3200	ppbV		S	89
152)	beta-Pinene	31.77	93	1213853	10.0562	ppbV	#	S	1
153)	1,2,4-Trimethylbenzene	32.03	105	1841850	21.6200	ppbV	#	S	1
156)	Benzyl chloride	32.30	91	1139643	23.7667	ppbV		S	99
157)	m-Dichlorobenzene	32.30	146	783177	18.9971	ppbV		S	88
158)	n-Decane	32.48	57	1376627	16.7034	ppbV		S	84
159)	p-Dichlorobenzene	32.48	146	742742	19.1355	ppbV		S	86
161)	1,2,3-Trimethylbenzene	33.04	105	1825611	20.9311	ppbV		S	88
163)	o-Dichlorobenzene	33.30	146	840530	22.7089	ppbV		S	98
167)	m-Diethylbenzene	33.92	105	1300656	20.9477	ppbV	#	S	27
168)	p-Diethylbenzene	34.15	119	1133936	23.0976	ppbV	#	S	1
172)	1,2,4-Trichlorobenzene	37.85	180	837714	26.4739	ppbV	#	S	100
174)	Hexachloro-1,3-butadiene	38.81	225	972557	14.5491	ppbV		S	96

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110824\RA082420.D Vial: 1
Acq On : 25 Aug 2011 5:39 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01046;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 25 11:51 19111 Quant Results File: RA110612.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110612.M (RTE Integrator)
Title :
Last Update : Mon Jun 13 15:34:35 2011
Response via : Initial Calibration



Data by Analytical Batch (s)

Austin Laboratory

INSTRUMENT GCMS-R1 ANALYST / DATE: VGK 8/28/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: 8/28/11 Batch ID: 11H0397

DAILY CHECK ✓	INSERT: CHANGED (Y/N) N	SEPTA: CHANGED (Y/N) N	COLUMN: CHANGED (Y/N) N	AUTOSAMPLER MAINT. NA
M. PUMP OIL ✓	TURBO OIL NA	FILAMENT CHANGE NO	OTHER NA	
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: R110328.U Elect Mult. 1624 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: Entech

GC PROGRAM:
GC Meth. RA110829.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: NA

GC COLUMN:
Column ID#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID: 341359

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	WARMUP	HR1865	0.5	7	RA082801	0.01043	VOC-15P-34-17
2	11H0397-CCV1	↓	↓	↓	02	↓	↓
3	-BS1	RA1784		1	03	0.01046	VOC-15P-34-15
4	-BSD1	↓		↓	04	↓	↓
5	-BLK1	RA2153		11	05	1.0	
6	AUH0047-01	HL0889		1	06	2.7185	
7	-02	7508		2	07	2.5168	
8	-03	260		3	08	2.6784	
9	-04	HL2097	↓	4	09	2.6306	

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	AUH00247-05	5424	0.5	5	RA081810	~~2.6680~~ 2.6646	
11	HH0397-DUP1	P 5424		↓	11	↓	
12	AUH00247-06	RA2127		6	12	2.6580	
13	-07	RA2410		7	13	2.5377	
14	-08	HL0930		8	14	2.7273	
15	-09	RA2301		9	15	2.6271	
16	-10	66666		10	16	1.0	
17	-11	239		11	17	1.0	
18	AUH00279-01	~~AO~~ RA2226		12	18	3.3125	
19	HH0397-DUP2	↓		12	19	↓	
20	AUH00279-02	HL0932		13	20	3.4852	
21	↓ -03	HL0934		14	21	3.4316	
22	AUH00284-01	RA0963		15	22	2.0692	
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

Sequence Name: C:\msdchem\1\sequence\R110828.S
Comment:
Operator: KDK
Data Path: C:\MSDCHEM\1\DATA\R110828\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

KDK 8/28/11

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

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

Line			Sample Name/Misc Info
1)	Sample	1	RA082801 RA110824 WARMUP
2)	Sample	1	RA082802 RA110824 11H0397-CCV1,,,,0.01043;CCAL
3)	Sample	1	RA082803 RA110824 11H0397-BS1,,,,0.01046;LCS
4)	Sample	1	RA082804 RA110824 11H0397-BSD1,,,,0.01046;LCS
5)	Sample	1	RA082805 RA110824 11H0397-BLK1
6)	Sample	1	RA082806 RA110824 AUH0047-01,,,,;TCBS
7)	Sample	1	RA082807 RA110824 AUH0047-02,,,,;TCBS
8)	Sample	1	RA082808 RA110824 AUH0047-03,,,,;TCBS
9)	Sample	1	RA082809 RA110824 AUH0047-04,,,,;TCBS
10)	Sample	1	RA082810 RA110824 AUH0047-05,,,,;TCBS
11)	Sample	1	RA082811 RA110824 11H0397-DUP1,,,,;TCBS
12)	Sample	1	RA082812 RA110824 AUH0047-06,,,,;TCBS
13)	Sample	1	RA082813 RA110824 AUH0047-07,,,,;TCBS
14)	Sample	1	RA082814 RA110824 AUH0047-08,,,,;TCBS
15)	Sample	1	RA082815 RA110824 AUH0047-09,,,,;TCBS
16)	Sample	1	RA082816 RA110824 AUH0047-10,,,,;TCBS
17)	Sample	1	RA082817 RA110824 AUH0047-11,,,,;TCBS
18)	Sample	1	RA082818 RA110824 AUH0079-01
19)	Sample	1	RA082819 RA110824 11H0397-DUP2
20)	Sample	1	RA082820 RA110824 AUH0079-02
21)	Sample	1	RA082821 RA110824 AUH0079-03
22)	Sample	1	RA082822 RA110824 AUH0084-01

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

Sequence Name: C:\Smart\R110828.SEQ
Date: 08-28-2011
Time: 15:56:54
Int. Std Volume: 200 cc

Wly 8/29/11

Sample Name	Inlet #	Auto Samp Pos	Cal Vol.	Std Vol.	Method	Time
WARMUP	1	7	500	0	C:\Smart\C053011V2.MPT	12:00
11H0397-CCV1	1	7	500	0	C:\Smart\C053011V2.MPT	12:00
11H0397-BS1	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
11H0397-BSD1	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
11H0397-BLK1	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-01	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-02	1	2	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-03	1	3	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-04	1	4	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-05	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
11H0397-DUP1	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-06	1	6	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-07	1	7	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-08	1	8	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-09	1	9	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-10	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-11	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0079-01	1	12	500	0	C:\Smart\C053011V2.MPT	12:00
11H0397-DUP2	1	12	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0079-02	1	13	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0079-03	1	14	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0084-01	1	15	500	0	C:\Smart\C053011V2.MPT	12:00

BFB

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082802.D Vial: 1
Acq On : 28 Aug 2011 11:57 am Operator: KDK
Sample : 11H0397-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :

Spectrum Information: Average of 29.110 to 29.160 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	29.9	5046	PASS
75	95	30	66	64.1	10800	PASS
95	95	100	100	100.0	16859	PASS
96	95	5	9	7.0	1179	PASS
173	174	0.00	2	0.5	61	PASS
174	95	50	120	67.4	11367	PASS
175	174	4	9	7.4	841	PASS
176	174	93	101	93.7	10652	PASS
177	176	5	9	6.7	717	PASS

RA082802.D RA110824.M Sun Aug 28 13:31:05 2011 KDK

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082802.D Vial: 1
Acq On : 28 Aug 2011 11:57 am Operator: KDK
Sample : 11H0397-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:10 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	204699	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	88956	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	79966	1.9115 ppbV	0.03
Spiked Amount 2.000			Recovery	= 95.50%	
65) Fluorobenzene	19.01	96	184187	1.8501 ppbV	0.02
Spiked Amount 2.000			Recovery	= 92.50%	
113) Toluene-d8	22.92	98	153798	1.9704 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.50%	
115) 1,4-Dichlorobutane	28.05	90	13651	2.1672 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.50%	
141) 1,4-Bromofluorobenzene	29.14	95	62391	2.1335 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	

Target Compounds						Qvalue	
3) Ethylene	3.44	26	31148	4.7971 ppbV		S	94
4) Acetylene	3.54	26	52871	4.3621 ppbV		S	90
5) Ethane	3.63	26	12370	3.4089 ppbV		S	98
7) Propylene	5.22	41	85195	4.6508 ppbV		S	97
9) Propane	5.37	43	37792	4.4916 ppbV		S	92
10) Dichlorodifluoromethane	5.88	85	480779	4.6004 ppbV		S	98
11) Chloromethane	6.73	50	115444	4.4991 ppbV		S	97
12) Isobutane	7.39	43	234748	4.4191 ppbV		S	93
13) Halocarbon 114	7.60	85	402230	4.3344 ppbV		S	89
14) Acetaldehyde	7.56	44	46759	4.0252 ppbV	#	S	100
15) Vinyl chloride	7.82	62	127748	4.3741 ppbV		S	99
16) 1-Butene/Isobutene	8.26	41	167508	4.4772 ppbV		S	74
17) 1,3-Butadiene	8.37	39	115448	4.9355 ppbV		S	97
18) n-Butane	8.52	43	202614	4.3754 ppbV		S	93
19) Methanol	8.33	31	28674	4.8639 ppbV		S	97
20) trans-2-Butene	8.91	41	154033	4.4464 ppbV		S	91
23) Bromomethane	9.07	94	117110	4.3542 ppbV		S	92
24) cis-2-Butene	9.38	41	164682	4.7983 ppbV		S	90
25) Chloroethane	9.65	64	67115	4.3467 ppbV		S	91
26) Vinyl bromide	10.44	106	131831	4.9354 ppbV		S	87
27) 3-Methyl-1-butene	10.47	55	329133	4.8936 ppbV		S	79
28) Ethanol	10.50	45	51083	5.3918 ppbV		S	94
29) Acetonitrile	10.64	41	112945	5.1460 ppbV		S	96
30) Acrolein	10.87	56	54647	5.5215 ppbV	#	S	49
31) Isopentane	11.10	41	163690	4.7235 ppbV	#	S	1
32) Trichlorofluoromethane	11.36	101	461233	4.8776 ppbV	#	S	71
33) 1-Pentene	11.68	42	183102	4.9492 ppbV	#	S	1
34) Acetone	11.16	43	291104	5.4194 ppbV	#	S	1
36) Acrylonitrile	12.09	52	99724	5.5602 ppbV	#	S	1
37) n-Pentane	12.10	43	246600	4.9994 ppbV		S	86
39) Isoprene	12.28	67	156912	4.6981 ppbV		S	95
40) trans-2-Pentene	12.43	55	286371	5.1111 ppbV	#	S	1
41) 1,1-Dichloroethene	12.52	61	270867	5.0533 ppbV	#	S	9
42) cis-2-Pentene	12.73	55	278501	5.0196 ppbV	#	S	1
43) Methylene chloride	12.85	49	180087	5.0109 ppbV	#	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082802.D Vial: 1
Acq On : 28 Aug 2011 11:57 am Operator: KDK
Sample : 11H0397-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:10 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc Unit			Qvalue
44)	2-Methyl-2-butene	12.91	55	295067	5.2112	ppbV	# S	1
45)	Carbon Disulfide	12.95	76	421070	5.1197	ppbV	S	96
46)	3-Chloropropene	13.02	41	176098	5.3405	ppbV	# S	1
47)	Halocarbon 113	13.33	151	180441	4.8374	ppbV	# S	100
48)	Neohexane	13.48	43	204011	5.0342	ppbV	# S	1
49)	Cyclopentene	14.18	67	293916	4.7392	ppbV	# S	1
50)	trans-1,2-Dichloroethene	14.35	61	227249	5.0209	ppbV	# S	1
51)	4-Methyl-1-pentene	14.38	43	210690	5.0146	ppbV	S	91
53)	1,1-Dichloroethane	14.64	63	282747	4.4830	ppbV	# S	100
54)	Cyclopentane	14.63	42	235834	4.3692	ppbV	S	80
55)	2,3-Dimethylbutane	14.74	43	304015	4.2309	ppbV	# S	63
56)	Methyl tert-butyl ether	14.82	73	380333	4.2966	ppbV	# S	1
57)	Isohexane	14.94	42	161426	4.4057	ppbV	# S	47
58)	Vinyl acetate	15.05	43	466737	5.4589	ppbV	# S	47
62)	2-Butanone	15.35	43	337064	5.1687	ppbV	# S	1
63)	Chloroprene	15.51	53	290798	4.7513	ppbV	S	76
64)	3-Methylpentane	15.54	57	264955	4.3742	ppbV	S	95
66)	2-Methyl-1-pentene	15.78	56	235144m	4.3052	ppbV	S	
67)	1-Hexene	15.82	41	161573	4.6326	ppbV	# S	56
68)	cis-1,2-Dichloroethene	15.94	61	225489	4.6789	ppbV	# S	1
69)	Bromochloromethane	16.17	130	93839	4.2870	ppbV	# S	1
71)	n-Hexane	16.30	57	228222	4.6008	ppbV	# S	1
72)	Chloroform	16.41	83	354651	4.5887	ppbV	# S	1
74)	trans-2-Hexene	16.52	55	291876	4.7550	ppbV	# S	1
77)	cis-2-Hexene	16.92	55	237957	4.4225	ppbV	S	95
78)	Methylcyclopentane	17.43	56	274269	4.3786	ppbV	S	86
79)	1,2-Dichloroethane	17.46	62	322264	5.2252	ppbV	S	90
80)	2,4-Dimethylpentane	17.62	43	323850	4.5606	ppbV	# S	1
81)	1,1,1-Trichloroethane	17.81	97	403814	4.7399	ppbV	# S	1
84)	Benzene	18.48	78	348297	4.6925	ppbV	S	73
85)	Carbon tetrachloride	18.71	117	403433	4.7460	ppbV	# S	1
86)	1-Butanol	18.68	56	63640	2.7409	ppbV	S	94
87)	Cyclohexane	18.88	56	232055	4.4970	ppbV	# S	1
88)	Isoheptane	19.27	43	350451	4.6225	ppbV	# S	30
89)	2,3-Dimethylpentane	19.34	56	280362	4.3752	ppbV	# S	66
91)	3-Methylhexane	19.65	43	274303	4.5603	ppbV	# S	77
92)	1,2-Dichloropropane	19.75	63	141864	4.8610	ppbV	# S	1
93)	Bromodichloromethane	20.08	83	354312	4.8813	ppbV	# S	1
94)	Trichloroethene	20.14	130	145803	4.7174	ppbV	# S	1
95)	1,4-Dioxane	20.18	88	59626	4.9490	ppbV	# S	49
97)	2,2,4-Trimethylpentane	20.22	57	768310	4.3951	ppbV	S	90
98)	2-Chloropentane	20.46	70	206308	4.8194	ppbV	# S	13
100)	n-Heptane	20.70	71	134733	4.5678	ppbV	# S	1
104)	cis-1,3-Dichloropropene	21.54	75	202752	5.4035	ppbV	# S	1
105)	Methylisobutylketone	21.64	43	401807	5.5407	ppbV	# S	1
106)	Methylcyclohexane	21.62	83	251586	4.4285	ppbV	S	88
110)	trans-1,3-Dichloropropene	22.41	75	207059	6.0312	ppbV	# S	1
111)	1,1,2-Trichloroethane	22.66	97	117511	5.1760	ppbV	# S	1
112)	2,3,4-Trimethylpentane	22.87	43	463199	4.6171	ppbV	S	92
114)	Toluene	23.09	91	361384	5.3881	ppbV	# S	1
117)	2-Methylheptane	23.53	43	350866	4.8852	ppbV	# S	12

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082802.D Vial: 1
Acq On : 28 Aug 2011 11:57 am Operator: KDK
Sample : 11H0397-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:10 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

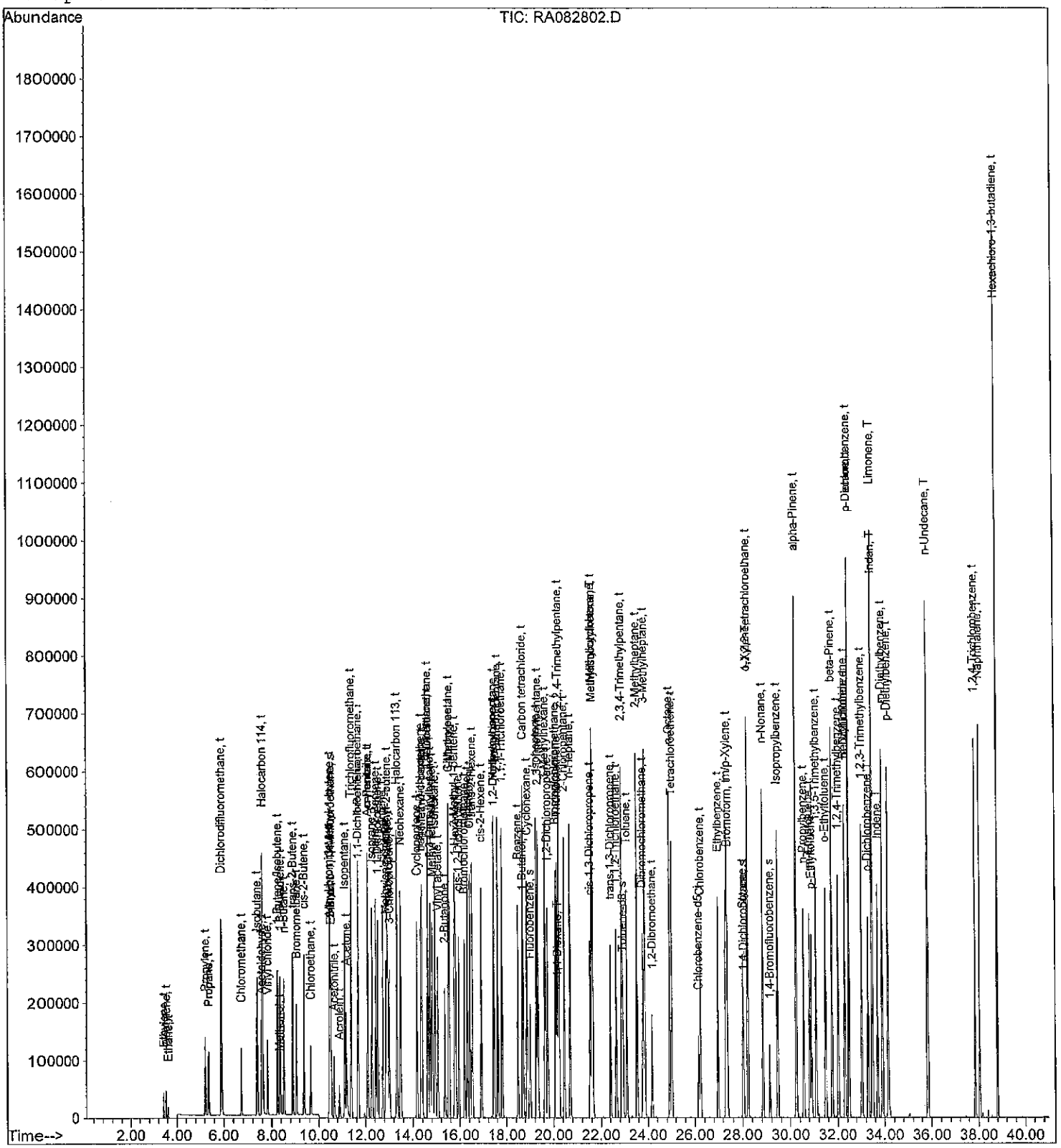
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
119) Dibromochloromethane	23.77	129	217448	5.3822 ppbV #	S 39
120) 3-Methylheptane	23.85	85	188983	4.5905 ppbV #	S 1
122) 1,2-Dibromoethane	24.18	107	167960	5.5670 ppbV #	S 1
125) n-Octane	24.91	43	350594	5.2405 ppbV #	S 48
126) Tetrachloroethene	25.02	164	130666	5.2622 ppbV	S 95
128) Chlorobenzene	26.23	112	192973	5.4969 ppbV #	S 1
129) Ethylbenzene	26.98	91	389974	5.7576 ppbV	S 98
130) m/p-Xylene	27.35	91	670502m	11.4062 ppbV	S
131) Bromoform	27.38	173	135707	5.5348 ppbV #	S 1
134) Styrene	28.02	104	162446	5.8475 ppbV #	S 23
135) 1,1,2,2-Tetrachloroethane	28.23	83	199773	4.6599 ppbV	S 94
136) o-Xylene	28.23	91	344990	5.7088 ppbV	S 89
140) n-Nonane	28.84	43	321320	5.6712 ppbV #	S 70
142) Isopropylbenzene	29.45	105	483875	5.1790 ppbV	S 100
144) alpha-Pinene	30.24	93	515805	4.8653 ppbV	S 95
147) n-Propylbenzene	30.56	91	431731	4.9104 ppbV #	S 35
148) m-Ethyltoluene	30.82	105	320397	4.4666 ppbV	S 90
149) p-Ethyltoluene	30.90	105	300537	4.6219 ppbV	S 89
150) 1,3,5-Trimethylbenzene	31.10	105	374711	4.9491 ppbV	S 85
151) o-Ethyltoluene	31.49	105	374708	4.4627 ppbV	S 88
152) beta-Pinene	31.77	93	374846	3.5297 ppbV #	S 1
153) 1,2,4-Trimethylbenzene	32.02	105	371411	5.4304 ppbV #	S 1
156) Benzyl chloride	32.30	91	299980	7.5459 ppbV	S 98
157) m-Dichlorobenzene	32.30	146	141819	5.0130 ppbV	S 82
158) n-Decane	32.47	57	391317	5.7194 ppbV	S 74
159) p-Dichlorobenzene	32.48	146	151138	5.5698 ppbV	S 84
161) 1,2,3-Trimethylbenzene	33.04	105	465867	5.8201 ppbV	S 86
163) o-Dichlorobenzene	33.29	146	187167	6.0163 ppbV	S 94
164) Limonene	33.47	68	278348	6.6485 ppbV	S 83
165) Indan	33.49	117	311973	6.7809 ppbV	S 90
166) Indene	33.71	115	300173	7.4685 ppbV	S 93
167) m-Diethylbenzene	33.92	105	363932	5.4972 ppbV #	S 28
168) p-Diethylbenzene	34.15	119	298125	5.4604 ppbV #	S 1
171) n-Undecane	35.84	57	513601	5.4271 ppbV	S 75
172) 1,2,4-Trichlorobenzene	37.85	180	202480	6.0311 ppbV #	S 100
173) Naphthalene	38.04	128	539313	5.1640 ppbV	S 96
174) Hexachloro-1,3-butadiene	38.81	225	315187	6.2699 ppbV	S 96

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082802.D Vial: 1
Acq On : 28 Aug 2011 11:57 am Operator: KDK
Sample : 11H0397-CCV1,,,,0.01043;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:10 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082803.D Vial: 1
Acq On : 28 Aug 2011 12:55 pm Operator: KDK
Sample : 11H0397-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:12 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	209754	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	91153	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	82456	1.9235 ppbV	0.03
Spiked Amount 2.000			Recovery	= 96.00%	
65) Fluorobenzene	19.01	96	187851	1.8415 ppbV	0.02
Spiked Amount 2.000			Recovery	= 92.00%	
113) Toluene-d8	22.93	98	154172	1.9276 ppbV	0.01
Spiked Amount 2.000			Recovery	= 96.50%	
115) 1,4-Dichlorobutane	28.05	90	13748	2.1300 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	
141) 1,4-Bromofluorobenzene	29.13	95	64286	2.1453 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.50%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	32110	4.8261 ppbV	S	96
4) Acetylene	3.54	26	57467	4.6271 ppbV	S	91
5) Ethane	3.63	26	12243	3.2926 ppbV	S	98
7) Propylene	5.21	41	89394	4.7624 ppbV	S	95
8) Chlorodifluoromethane	5.57	51	291656	5.2764 ppbV	S	97
9) Propane	5.37	43	38054	4.4137 ppbV	S	92
10) Dichlorodifluoromethane	5.88	85	515020	4.8093 ppbV	S	98
11) Chloromethane	6.73	50	128641	4.8926 ppbV	S	99
12) Isobutane	7.38	43	245045	4.5018 ppbV	S	93
13) Halocarbon 114	7.60	85	387979	4.0800 ppbV	S	91
15) Vinyl chloride	7.82	62	141667	4.7338 ppbV	S	98
16) 1-Butene/Isobutene	8.26	41	173045	4.5137 ppbV	S	76
17) 1,3-Butadiene	8.37	39	123898	5.1691 ppbV	S	98
18) n-Butane	8.52	43	210824	4.4430 ppbV	S	94
19) Methanol	8.33	31	24620m	4.0756 ppbV	S	
20) trans-2-Butene	8.91	41	160332	4.5167 ppbV	S	90
23) Bromomethane	9.07	94	128653	4.6680 ppbV	S	91
24) cis-2-Butene	9.38	41	171640	4.8805 ppbV	S	91
25) Chloroethane	9.65	64	73391	4.6386 ppbV	S	91
26) Vinyl bromide	10.44	106	124679	4.5551 ppbV	S	87
27) 3-Methyl-1-butene	10.47	55	347529	5.0426 ppbV	S	80
29) Acetonitrile	10.64	41	104535	4.6480 ppbV	S	95
30) Acrolein	10.87	56	49162	4.8476 ppbV #	S	47
31) Isopentane	11.10	41	165807	4.6693 ppbV #	S	1
32) Trichlorofluoromethane	11.37	101	488596	5.0425 ppbV #	S	70
33) 1-Pentene	11.68	42	194781	5.1380 ppbV #	S	1
34) Acetone	11.17	43	287728m	5.2275 ppbV	S	
35) 2-Propanol	11.92	45	187650	4.5163 ppbV #	S	1
36) Acrylonitrile	12.10	52	94611	5.1480 ppbV #	S	1
37) n-Pentane	12.11	43	255433	5.0537 ppbV	S	86
38) Diethyl ether	12.29	74	66585	5.3125 ppbV #	S	1
39) Isoprene	12.28	67	169360	4.9486 ppbV	S	94
40) trans-2-Pentene	12.43	55	288044	5.0171 ppbV #	S	1
41) 1,1-Dichloroethene	12.52	61	290818	5.2948 ppbV #	S	10
42) cis-2-Pentene	12.73	55	288100	5.0674 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082803.D Vial: 1
Acq On : 28 Aug 2011 12:55 pm Operator: KDK
Sample : 11H0397-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:12 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Methylene chloride	12.86	49	190004	5.1595 ppbV # S	1
44)	2-Methyl-2-butene	12.91	55	293569	5.0598 ppbV # S	1
45)	Carbon Disulfide	12.95	76	344840	4.0918 ppbV S	94
46)	3-Chloropropene	13.02	41	154572	4.5747 ppbV # S	1
47)	Halocarbon 113	13.33	151	196379	5.1378 ppbV # S	100
50)	trans-1,2-Dichloroethene	14.35	61	226964	4.8937 ppbV # S	1
51)	4-Methyl-1-pentene	14.38	43	218163	5.0673 ppbV S	89
53)	1,1-Dichloroethane	14.64	63	297130	4.5975 ppbV # S	100
56)	Methyl tert-butyl ether	14.82	73	423562	4.6696 ppbV # S	1
58)	Vinyl acetate	15.05	43	415283	4.7400 ppbV # S	46
62)	2-Butanone	15.35	43	313719	4.6947 ppbV # S	1
63)	Chloroprene	15.52	53	298618	4.7615 ppbV S	77
68)	cis-1,2-Dichloroethene	15.94	61	241426	4.8889 ppbV # S	1
71)	n-Hexane	16.30	57	224894	4.4244 ppbV # S	1
72)	Chloroform	16.41	83	373021	4.7101 ppbV # S	1
74)	trans-2-Hexene	16.52	55	298788	4.7503 ppbV # S	1
77)	cis-2-Hexene	16.92	55	245729	4.4569 ppbV S	94
79)	1,2-Dichloroethane	17.46	62	331497	5.2453 ppbV S	89
81)	1,1,1-Trichloroethane	17.81	97	419518	4.8056 ppbV # S	1
84)	Benzene	18.48	78	360468	4.7394 ppbV S	76
85)	Carbon tetrachloride	18.71	117	408305	4.6876 ppbV # S	1
86)	1-Butanol	18.68	56	41159	1.7299 ppbV S	91
87)	Cyclohexane	18.88	56	229118	4.3331 ppbV # S	1
92)	1,2-Dichloropropane	19.76	63	145714	4.8726 ppbV # S	1
93)	Bromodichloromethane	20.08	83	397562	5.3452 ppbV # S	1
94)	Trichloroethene	20.14	130	150642	4.7565 ppbV # S	1
95)	1,4-Dioxane	20.18	88	41995	3.4016 ppbV # S	52
97)	2,2,4-Trimethylpentane	20.23	57	759777	4.2415 ppbV S	91
98)	2-Chloropentane	20.46	70	182689	4.1648 ppbV # S	13
100)	n-Heptane	20.70	71	134086	4.4363 ppbV # S	1
104)	cis-1,3-Dichloropropene	21.54	75	223342	5.8088 ppbV # S	1
105)	Methylisobutylketone	21.64	43	357388	4.8094 ppbV # S	1
110)	trans-1,3-Dichloropropene	22.41	75	196329	5.5808 ppbV # S	1
111)	1,1,2-Trichloroethane	22.66	97	123144	5.2934 ppbV # S	1
114)	Toluene	23.09	91	366390	5.3311 ppbV # S	1
116)	2-Hexanone	23.63	43	275633	5.6614 ppbV # S	22
119)	Dibromochloromethane	23.77	129	236700	5.7175 ppbV # S	39
122)	1,2-Dibromoethane	24.18	107	173446	5.6103 ppbV # S	1
125)	n-Octane	24.92	43	344166	5.0204 ppbV # S	49
126)	Tetrachloroethene	25.02	164	133092	5.2307 ppbV S	96
128)	Chlorobenzene	26.24	112	201013	5.5879 ppbV # S	1
129)	Ethylbenzene	26.98	91	401410	5.7836 ppbV S	97
130)	m/p-Xylene	27.35	91	689212m	11.4419 ppbV S	
131)	Bromoform	27.38	173	150393	5.9859 ppbV # S	1
134)	Styrene	28.02	104	168439	5.9171 ppbV # S	24
135)	1,1,2,2-Tetrachloroethane	28.23	83	203937	4.6424 ppbV S	94
136)	o-Xylene	28.23	91	359239	5.8013 ppbV S	87
140)	n-Nonane	28.84	43	322254	5.5506 ppbV # S	71
142)	Isopropylbenzene	29.46	105	496213	5.1830 ppbV S	100
145)	o/m-Chlorotoluene	30.41	91	270371	6.3375 ppbV # S	1
147)	n-Propylbenzene	30.56	91	437115	4.8518 ppbV # S	35

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082803.D Vial: 1
Acq On : 28 Aug 2011 12:55 pm Operator: KDK
Sample : 11H0397-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:12 19111 Quant Results File: RA110824.RES

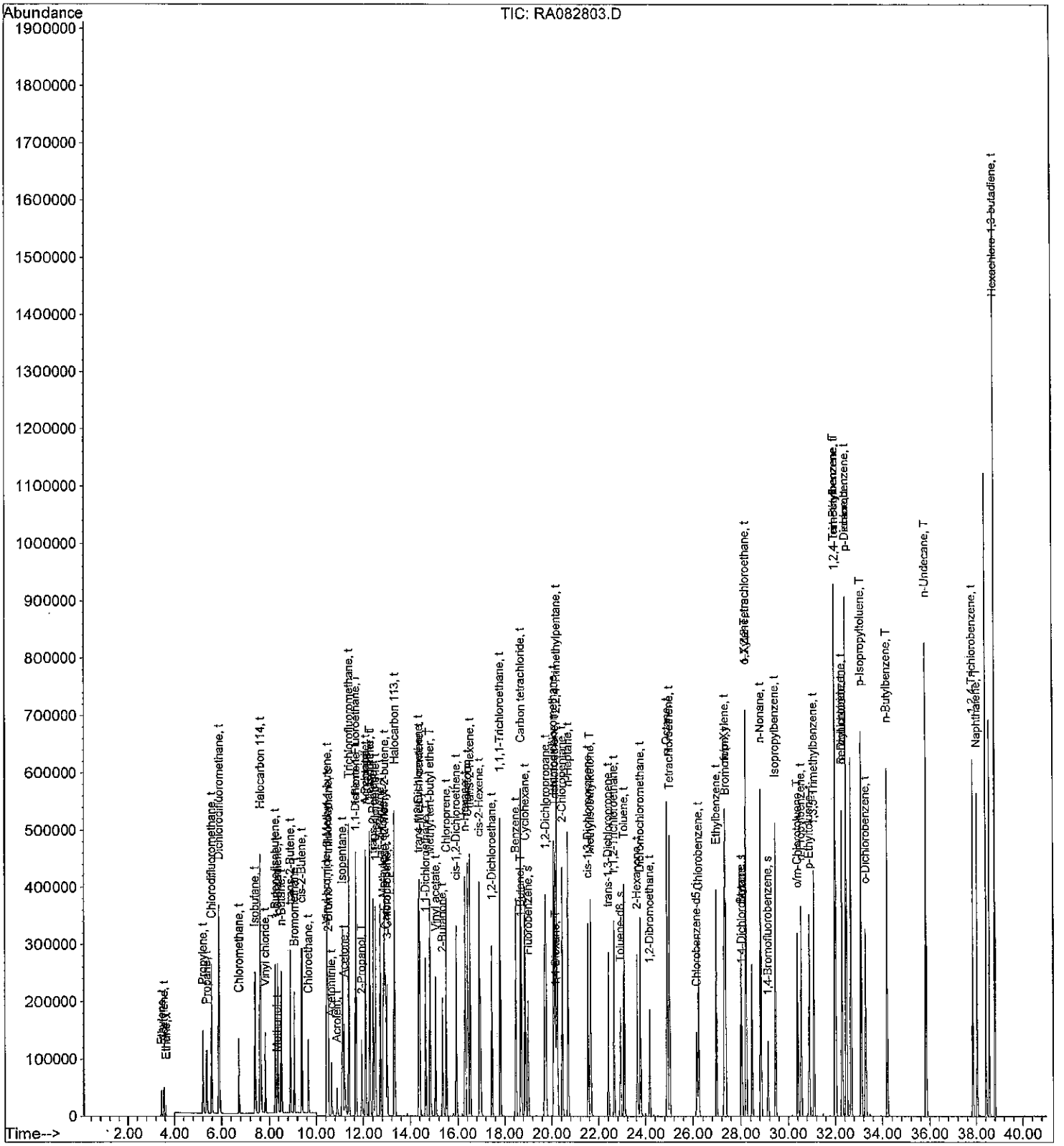
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
149)	p-Ethyltoluene	30.90	105	335235	5.0313	ppbV		S	90
150)	1,3,5-Trimethylbenzene	31.09	105	374099	4.8220	ppbV		S	86
153)	1,2,4-Trimethylbenzene	32.02	105	368279	5.2548	ppbV	#	S	1
154)	tert-Butylbenzene	32.00	119	532755	5.8791	ppbV	#	S	59
156)	Benzyl chloride	32.30	91	319669	7.8474	ppbV		S	98
157)	m-Dichlorobenzene	32.30	146	129486	4.4667	ppbV		S	84
158)	n-Decane	32.48	57	367998	5.2489	ppbV		S	75
159)	p-Dichlorobenzene	32.48	146	135993	4.8909	ppbV		S	83
162)	p-Isopropyltoluene	33.11	119	577318	7.0537	ppbV	#	S	42
163)	o-Dichlorobenzene	33.29	146	176070	5.5231	ppbV		S	94
169)	n-Butylbenzene	34.19	91	545949	6.9105	ppbV	#	S	1
171)	n-Undecane	35.84	57	467323	4.8190	ppbV		S	74
172)	1,2,4-Trichlorobenzene	37.85	180	191262	5.5596	ppbV	#	S	100
173)	Naphthalene	38.04	128	447358	4.1803	ppbV		S	96
174)	Hexachloro-1,3-butadiene	38.81	225	314528	6.1060	ppbV		S	97

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082803.D Vial: 1
Acq On : 28 Aug 2011 12:55 pm Operator: KDK
Sample : 11H0397-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:12 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082804.D Vial: 1
Acq On : 28 Aug 2011 1:56 pm Operator: KDK
Sample : 11H0397-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:15 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	208610	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	80485	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	82261	1.9295 ppbV	0.02
Spiked Amount 2.000			Recovery	= 96.50%	
65) Fluorobenzene	19.00	96	180046	1.7746 ppbV	0.01
Spiked Amount 2.000			Recovery	= 88.50%	
113) Toluene-d8	22.92	98	139716	1.9784 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
115) 1,4-Dichlorobutane	28.05	90	12108	2.1246 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	
141) 1,4-Bromofluorobenzene	29.14	95	56363	2.1302 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	31368	4.7404 ppbV	S	95
4) Acetylene	3.54	26	55288	4.4760 ppbV	S	89
5) Ethane	3.63	26	13073	3.5351 ppbV	S	97
7) Propylene	5.21	41	85899	4.6013 ppbV	S	96
8) Chlorodifluoromethane	5.57	51	286659	5.2145 ppbV	S	96
9) Propane	5.37	43	37762	4.4039 ppbV	S	91
10) Dichlorodifluoromethane	5.87	85	505262	4.7440 ppbV	S	98
11) Chloromethane	6.73	50	124362	4.7558 ppbV	S	96
12) Isobutane	7.38	43	236587	4.3703 ppbV	S	94
13) Halocarbon 114	7.59	85	380923	4.0278 ppbV	S	89
15) Vinyl chloride	7.81	62	136164	4.5749 ppbV	S	98
16) 1-Butene/Isobutene	8.25	41	168808	4.4274 ppbV	S	75
17) 1,3-Butadiene	8.37	39	120928	5.0729 ppbV	S	97
18) n-Butane	8.52	43	205080	4.3456 ppbV	S	95
19) Methanol	8.33	31	19914m	3.3147 ppbV	S	
20) trans-2-Butene	8.90	41	153924	4.3599 ppbV	S	90
23) Bromomethane	9.06	94	125418	4.5756 ppbV	S	93
24) cis-2-Butene	9.37	41	167070	4.7766 ppbV	S	91
25) Chloroethane	9.65	64	71079	4.5171 ppbV	S	91
26) Vinyl bromide	10.43	106	122002	4.4818 ppbV	S	86
27) 3-Methyl-1-butene	10.46	55	341206	4.9780 ppbV	S	80
29) Acetonitrile	10.64	41	98083	4.3851 ppbV	S	95
30) Acrolein	10.87	56	48880	4.8462 ppbV #	S	45
31) Isopentane	11.09	41	164070	4.6457 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	488012	5.0640 ppbV #	S	69
33) 1-Pentene	11.67	42	191681	5.0840 ppbV #	S	1
34) Acetone	11.16	43	282992m	5.1696 ppbV	S	
35) 2-Propanol	11.91	45	223695	5.4133 ppbV #	S	1
36) Acrylonitrile	12.08	52	92867	5.0808 ppbV #	S	1
37) n-Pentane	12.10	43	252956	5.0322 ppbV	S	86
38) Diethyl ether	12.28	74	66769	5.3564 ppbV #	S	1
39) Isoprene	12.27	67	167782	4.9294 ppbV	S	95
40) trans-2-Pentene	12.43	55	283333	4.9621 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	286835	5.2509 ppbV #	S	10
42) cis-2-Pentene	12.72	55	282425	4.9949 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082804.D Vial: 1
Acq On : 28 Aug 2011 1:56 pm Operator: KDK
Sample : 11H0397-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:15 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Methylene chloride	12.85	49	192608	5.2589 ppbV # S	1
44)	2-Methyl-2-butene	12.91	55	296279	5.1345 ppbV # S	1
45)	Carbon Disulfide	12.95	76	343245	4.0952 ppbV S	94
46)	3-Chloropropene	13.01	41	156423	4.6549 ppbV # S	1
47)	Halocarbon 113	13.32	151	196012	5.1563 ppbV # S	100
50)	trans-1,2-Dichloroethene	14.34	61	225544	4.8898 ppbV # S	1
51)	4-Methyl-1-pentene	14.38	43	215349	5.0294 ppbV S	90
53)	1,1-Dichloroethane	14.64	63	293230	4.5621 ppbV # S	100
56)	Methyl tert-butyl ether	14.81	73	424515	4.7058 ppbV # S	1
58)	Vinyl acetate	15.05	43	408118	4.6838 ppbV # S	47
62)	2-Butanone	15.34	43	308109	4.6361 ppbV # S	1
63)	Chloroprene	15.51	53	291215	4.6689 ppbV S	76
68)	cis-1,2-Dichloroethene	15.94	61	237299	4.8316 ppbV # S	1
71)	n-Hexane	16.30	57	221987	4.3912 ppbV # S	1
72)	Chloroform	16.41	83	365938	4.6460 ppbV # S	1
74)	trans-2-Hexene	16.51	55	294133	4.7019 ppbV # S	1
77)	cis-2-Hexene	16.91	55	242342	4.4196 ppbV S	95
79)	1,2-Dichloroethane	17.45	62	317917	5.0581 ppbV S	89
81)	1,1,1-Trichloroethane	17.80	97	418750	4.8231 ppbV # S	1
84)	Benzene	18.48	78	345921	5.1510 ppbV S	75
85)	Carbon tetrachloride	18.71	117	404937	5.2651 ppbV # S	1
86)	1-Butanol	18.67	56	76858	3.6585 ppbV S	96
87)	Cyclohexane	18.87	56	226522	4.8518 ppbV # S	1
92)	1,2-Dichloropropane	19.75	63	138710	5.2532 ppbV # S	1
93)	Bromodichloromethane	20.08	83	365962	5.5725 ppbV # S	1
94)	Trichloroethene	20.14	130	138963	4.9693 ppbV # S	1
95)	1,4-Dioxane	20.18	88	34143	3.1322 ppbV # S	21
97)	2,2,4-Trimethylpentane	20.22	57	758807	4.7976 ppbV S	91
98)	2-Chloropentane	20.46	70	177443	4.5814 ppbV # S	13
100)	n-Heptane	20.70	71	131850	4.9405 ppbV # S	1
104)	cis-1,3-Dichloropropene	21.54	75	189490	5.5816 ppbV # S	1
105)	Methylisobutylketone	21.64	43	341997	5.2123 ppbV # S	1
110)	trans-1,3-Dichloropropene	22.41	75	161310	5.1931 ppbV # S	1
111)	1,1,2-Trichloroethane	22.66	97	111655	5.4357 ppbV # S	1
114)	Toluene	23.09	91	337235	5.5573 ppbV # S	1
116)	2-Hexanone	23.63	43	245037	5.7001 ppbV # S	23
119)	Dibromochloromethane	23.78	129	207941	5.6886 ppbV # S	39
122)	1,2-Dibromoethane	24.17	107	139081	5.0950 ppbV # S	1
125)	n-Octane	24.92	43	333056	5.5023 ppbV # S	48
126)	Tetrachloroethene	25.02	164	120295	5.3544 ppbV S	96
128)	Chlorobenzene	26.23	112	174449	5.4923 ppbV # S	1
129)	Ethylbenzene	26.98	91	364194	5.9429 ppbV S	97
130)	m/p-Xylene	27.35	91	627502m	11.7982 ppbV S	
131)	Bromoform	27.38	173	132744	5.9837 ppbV # S	1
134)	Styrene	28.02	104	148530	5.9093 ppbV # S	22
135)	1,1,2,2-Tetrachloroethane	28.22	83	183429	4.7290 ppbV S	94
136)	o-Xylene	28.23	91	330809	6.0503 ppbV S	88
140)	n-Nonane	28.84	43	305467	5.9588 ppbV # S	72
142)	Isopropylbenzene	29.45	105	463692	5.4853 ppbV S	100
145)	o/m-Chlorotoluene	30.41	91	243611	6.4671 ppbV # S	1
147)	n-Propylbenzene	30.56	91	396283	4.9816 ppbV # S	35

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082804.D Vial: 1
Acq On : 28 Aug 2011 1:56 pm Operator: KDK
Sample : 11H0397-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:15 19111 Quant Results File: RA110824.RES

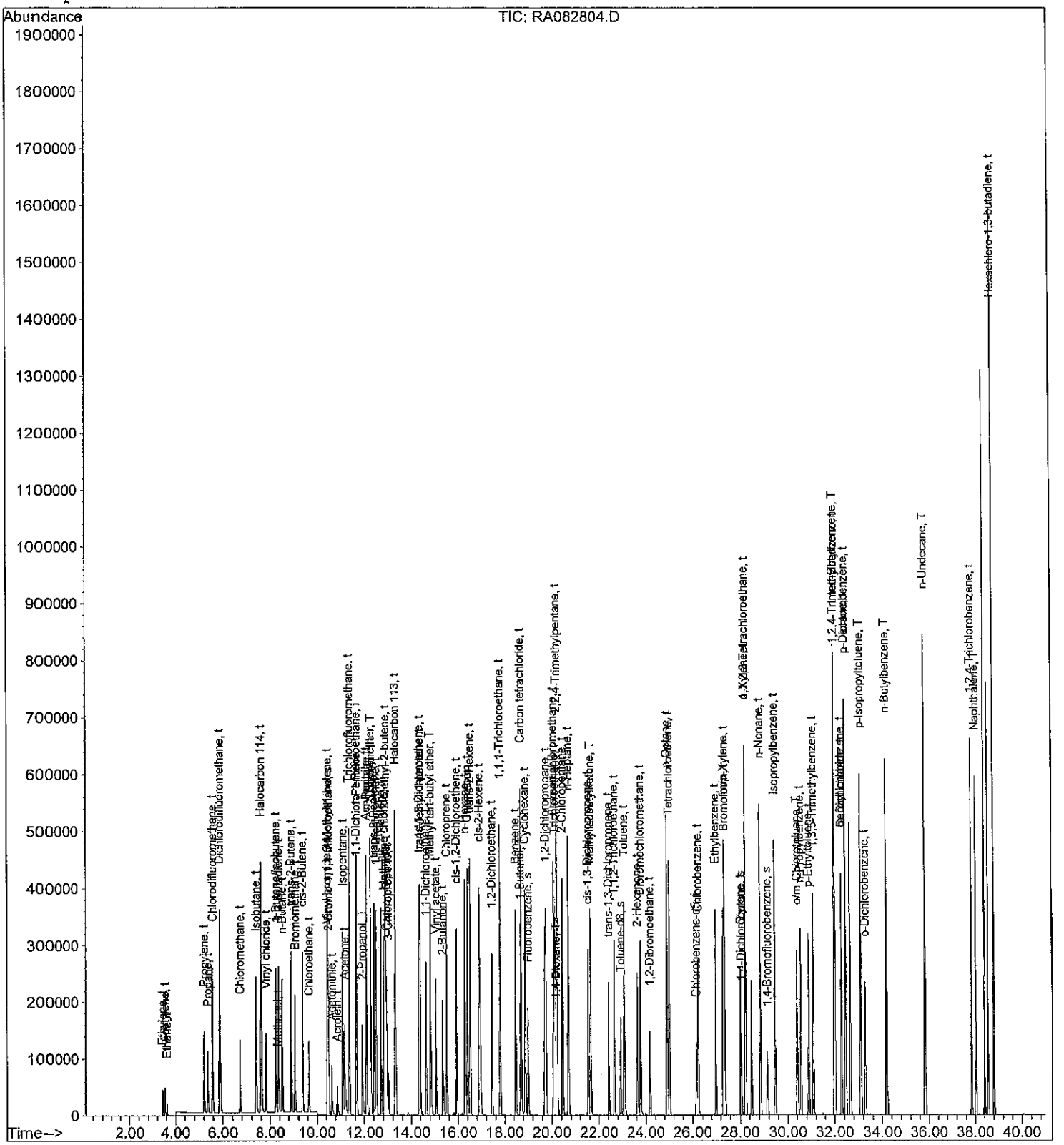
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
149)	p-Ethyltoluene	30.90	105	305979	5.2009	ppbV		S	89
150)	1,3,5-Trimethylbenzene	31.09	105	335322	4.8950	ppbV		S	87
153)	1,2,4-Trimethylbenzene	32.02	105	290254	4.6904	ppbV	#	S	1
154)	tert-Butylbenzene	32.00	119	488333	6.1032	ppbV	#	S	58
156)	Benzyl chloride	32.30	91	248543	6.9101	ppbV		S	98
157)	m-Dichlorobenzene	32.30	146	104350	4.0768	ppbV		S	83
158)	n-Decane	32.47	57	302601	4.8882	ppbV		S	72
159)	p-Dichlorobenzene	32.47	146	102313	4.1673	ppbV		S	83
162)	p-Isopropyltoluene	33.11	119	504329	6.9787	ppbV	#	S	43
163)	o-Dichlorobenzene	33.29	146	126144	4.4815	ppbV		S	93
169)	n-Butylbenzene	34.19	91	563842	8.0830	ppbV	#	S	1
171)	n-Undecane	35.84	57	477034	5.5712	ppbV		S	74
172)	1,2,4-Trichlorobenzene	37.85	180	204025	6.7167	ppbV	#	S	100
173)	Naphthalene	38.04	128	474474	5.0213	ppbV		S	95
174)	Hexachloro-1,3-butadiene	38.81	225	320276	7.0417	ppbV		S	96

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082804.D Vial: 1
Acq On : 28 Aug 2011 1:56 pm Operator: KDK
Sample : 11H0397-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:15 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082805.D Vial: 1
Acq On : 28 Aug 2011 2:54 pm Operator: KDK
Sample : 11H0397-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:17 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

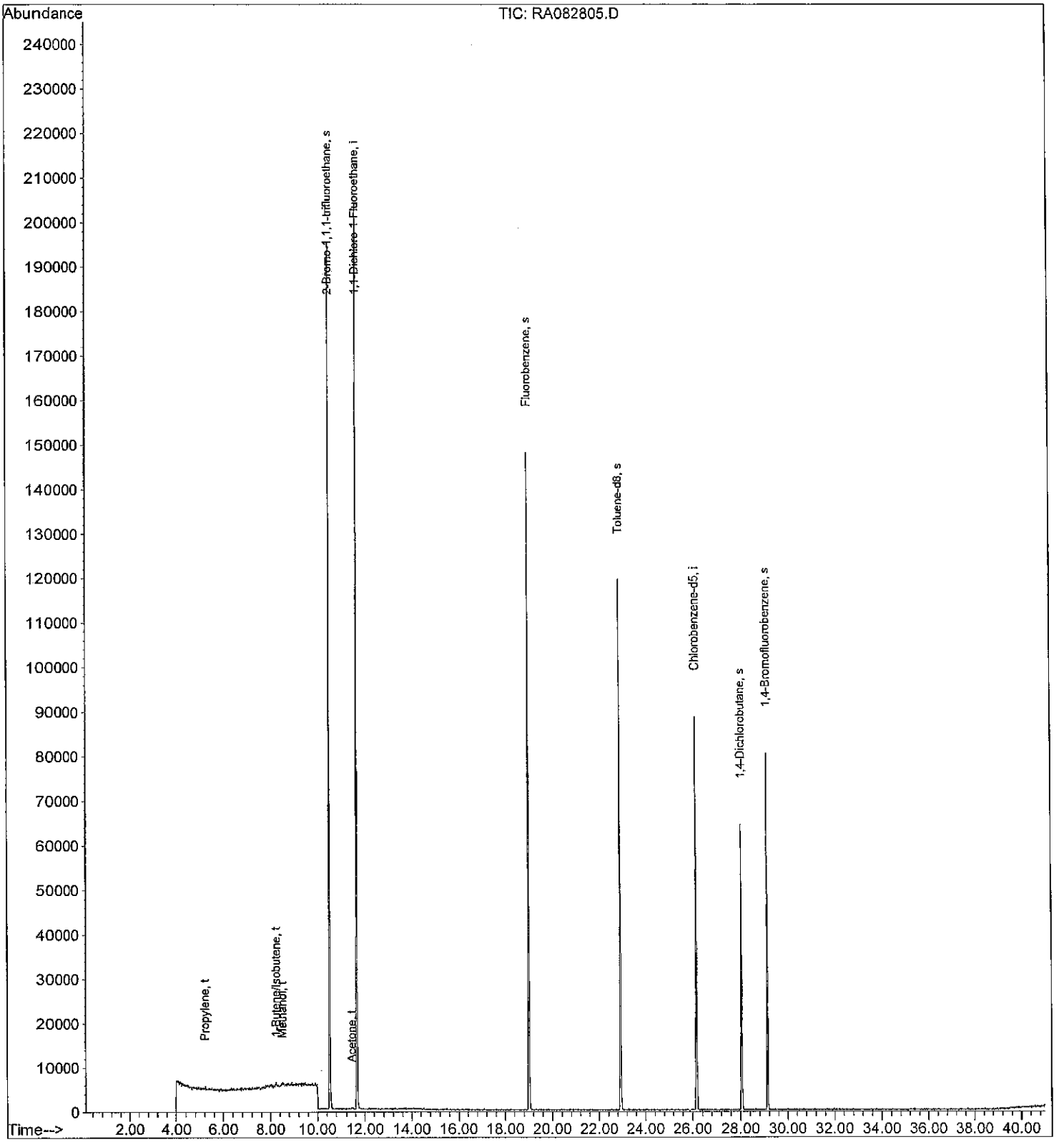
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	202725	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	54247	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	76099	1.8368 ppbV	0.03
Spiked Amount 2.000			Recovery	= 92.00%	
65) Fluorobenzene	19.01	96	135953	1.3789 ppbV	0.02
Spiked Amount 2.000			Recovery	= 69.00%	
113) Toluene-d8	22.93	98	93308	1.9603 ppbV	0.01
Spiked Amount 2.000			Recovery	= 98.00%	
115) 1,4-Dichlorobutane	28.05	90	8150	2.1218 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	
141) 1,4-Bromofluorobenzene	29.13	95	38299	2.1476 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.50%	
Target Compounds					Qvalue
7) Propylene	5.23	41	255	0.0141 ppbV	87
16) 1-Butene/Isobutene	8.25	41	729	0.0197 ppbV	72
19) Methanol	8.51	31	563m	0.0964 ppbV	
34) Acetone	11.44	43	1325m	0.0249 ppbV	

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082805.D Vial: 1
Acq On : 28 Aug 2011 2:54 pm Operator: KDK
Sample : 11H0397-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:17 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082807.D Vial: 1
Acq On : 28 Aug 2011 5:26 pm Operator: KDK
Sample : AUH0047-02,,,,;TCESL Inst : GCMS-R1
Misc : 2.5168,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:38 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

AMH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	193141	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	45051	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	67523	1.7106 ppbV	0.02
Spiked Amount 2.000			Recovery	= 85.50%	
65) Fluorobenzene	19.00	96	108325	1.1532 ppbV	0.01
Spiked Amount 2.000			Recovery	= 57.50%	
113) Toluene-d8	22.92	98	74914	1.8951 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.00%	
115) 1,4-Dichlorobutane	28.05	90	6162	1.9317 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.50%	
141) 1,4-Bromofluorobenzene	29.13	95	30842	2.0825 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	

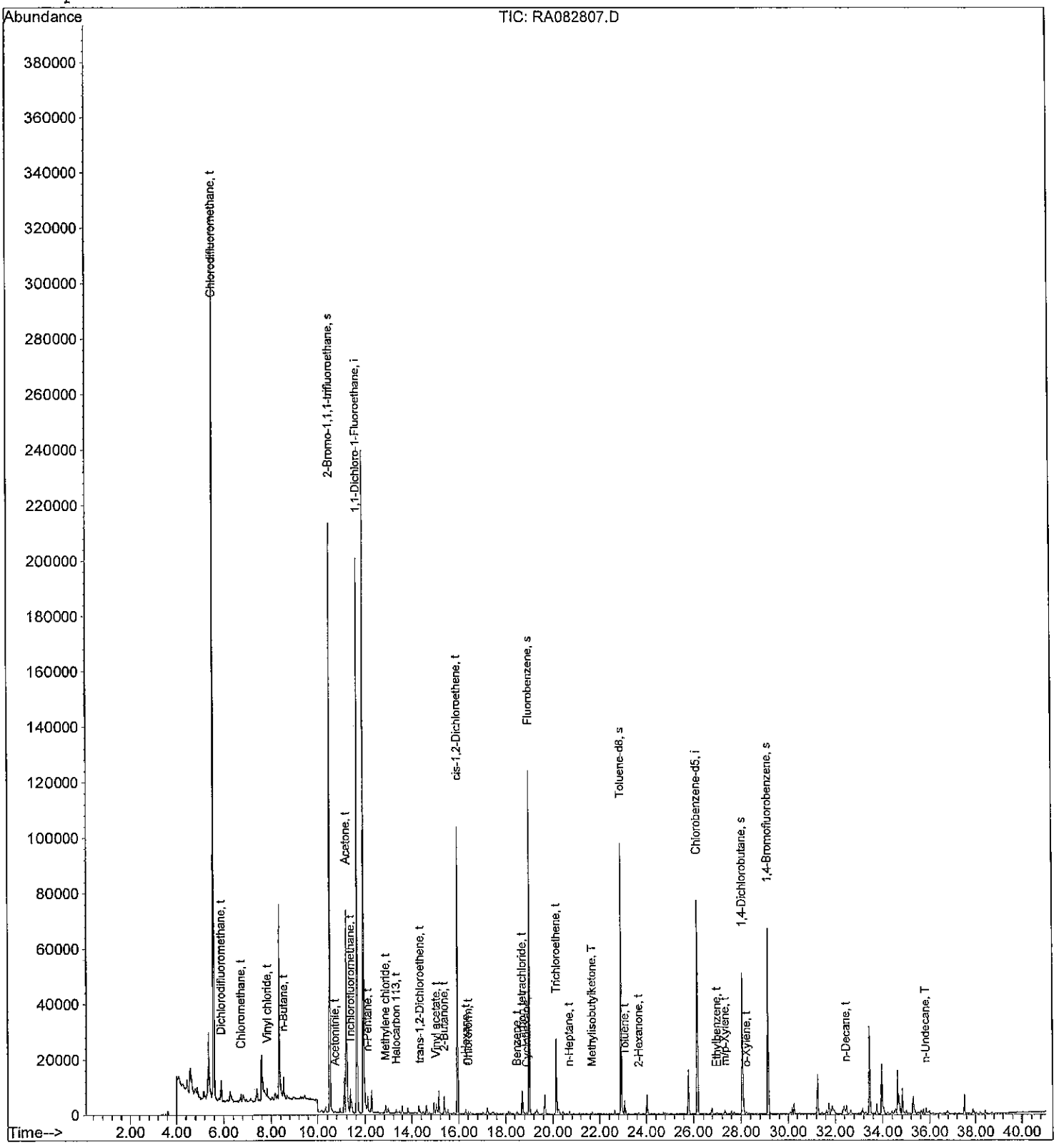
Target Compounds					Qvalue
8) Chlorodifluoromethane	5.56	51	347932	6.8360 ppbV	S 93
10) Dichlorodifluoromethane	5.89	85	10923	0.1108 ppbV	S 97
11) Chloromethane	6.73	50	2559	0.1057 ppbV	S 96
15) Vinyl chloride	7.82	62	2605	0.0945 ppbV	S 92
18) n-Butane	8.52	43	5583	0.1278 ppbV	S 83
29) Acetonitrile	10.72	41	522	0.0252 ppbV	S 85
32) Trichlorofluoromethane	11.36	101	7263	0.0814 ppbV #	S 78
34) Acetone	11.17	43	122753	2.4220 ppbV #	S 1
37) n-Pentane	12.10	43	3859	0.0829 ppbV	S 77
43) Methylene chloride	12.85	49	1739	0.0513 ppbV #	S 1
47) Halocarbon 113	13.32	151	495	0.0141 ppbV #	S 100
50) trans-1,2-Dichloroethene	14.35	61	1006	0.0236 ppbV #	S 1
58) Vinyl acetate	15.02	43	6762m	0.0838 ppbV	S
62) 2-Butanone	15.38	43	10364	0.1684 ppbV #	S 1
68) cis-1,2-Dichloroethene	15.94	61	71253	1.5670 ppbV #	S 1
71) n-Hexane	16.30	57	647	0.0138 ppbV #	S 1
72) Chloroform	16.41	83	584	0.0080 ppbV #	S 1
84) Benzene	18.48	78	987	0.0263 ppbV #	S 48
85) Carbon tetrachloride	18.71	117	1070	0.0249 ppbV #	S 1
87) Cyclohexane	18.89	56	528	0.0202 ppbV #	S 1
94) Trichloroethene	20.14	130	8409	0.5372 ppbV #	S 1
100) n-Heptane	20.70	71	77m	0.0052 ppbV	S
105) Methylisobutylketone	21.68	43	672	0.0183 ppbV #	S 1
114) Toluene	23.08	91	4360	0.1284 ppbV #	S 1
116) 2-Hexanone	23.66	43	598	0.0249 ppbV #	S 10
129) Ethylbenzene	26.97	91	590	0.0172 ppbV	S 52
130) m/p-Xylene	27.33	91	2076m	0.0697 ppbV	S
136) o-Xylene	28.22	91	786	0.0257 ppbV	S 81
158) n-Decane	32.47	57	1574	0.0454 ppbV	S 87
171) n-Undecane	35.83	57	860	0.0179 ppbV #	S 51

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082807.D Vial: 1
Acq On : 28 Aug 2011 5:26 pm Operator: KDK
Sample : AUH0047-02,,,,;TCESL Inst : GCMS-R1
Misc : 2.5168,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:38 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082808.D Vial: 1
Acq On : 28 Aug 2011 6:28 pm Operator: KDK
Sample : AUH0047-03,,,,;TCESL Inst : GCMS-R1
Misc : 2.6784,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:39 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

CDFM

8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	192921	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	45213	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	65753	1.6677 ppbV	0.02
Spiked Amount 2.000			Recovery	= 83.50%	
65) Fluorobenzene	19.00	96	112177	1.1956 ppbV	0.01
Spiked Amount 2.000			Recovery	= 60.00%	
113) Toluene-d8	22.92	98	79034	1.9922 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
115) 1,4-Dichlorobutane	28.05	90	6594	2.0597 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
141) 1,4-Bromofluorobenzene	29.14	95	32593	2.1928 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.50%	

Target Compounds					Qvalue
8) Chlorodifluoromethane	5.56	51	828485	16.2962 ppbV	S 94
10) Dichlorodifluoromethane	5.89	85	10840	0.1101 ppbV	S 96
11) Chloromethane	6.73	50	2571	0.1063 ppbV	S 93
15) Vinyl chloride	7.82	62	3904	0.1418 ppbV	S 94
18) n-Butane	8.52	43	11340	0.2598 ppbV	S 85
29) Acetonitrile	10.73	41	588m	0.0284 ppbV	S
32) Trichlorofluoromethane	11.36	101	10018	0.1124 ppbV #	S 76
34) Acetone	11.16	43	167286m	3.3044 ppbV	S
37) n-Pentane	12.10	43	7221	0.1553 ppbV	S 86
41) 1,1-Dichloroethene	12.51	61	471	0.0093 ppbV #	S 1
43) Methylene chloride	12.86	49	3359	0.0992 ppbV #	S 1
45) Carbon Disulfide	12.95	76	4380	0.0565 ppbV	S 98
47) Halocarbon 113	13.31	151	470m	0.0134 ppbV	S
50) trans-1,2-Dichloroethene	14.35	61	1524	0.0357 ppbV #	S 1
58) Vinyl acetate	15.02	43	5172m	0.0642 ppbV	S
62) 2-Butanone	15.37	43	13976	0.2274 ppbV #	S 1
68) cis-1,2-Dichloroethene	15.94	61	108958	2.3989 ppbV #	S 1
71) n-Hexane	16.30	57	2167	0.0464 ppbV #	S 1
72) Chloroform	16.42	83	1052	0.0144 ppbV #	S 1
84) Benzene	18.49	78	2249	0.0596 ppbV	S 90
85) Carbon tetrachloride	18.71	117	710	0.0164 ppbV #	S 1
87) Cyclohexane	18.87	56	917	0.0350 ppbV #	S 1
94) Trichloroethene	20.14	130	13793	0.8780 ppbV #	S 1
100) n-Heptane	20.70	71	437	0.0291 ppbV #	S 1
105) Methylisobutylketone	21.67	43	810	0.0220 ppbV #	S 1
114) Toluene	23.09	91	7778	0.2282 ppbV #	S 1
116) 2-Hexanone	23.66	43	1985	0.0822 ppbV #	S 26
125) n-Octane	24.92	43	665	0.0196 ppbV #	S 38
126) Tetrachloroethene	25.03	164	154	0.0122 ppbV #	S 82
129) Ethylbenzene	26.98	91	1142m	0.0332 ppbV	S
130) m/p-Xylene	27.31	91	3237	0.1083 ppbV	S 85
136) o-Xylene	28.22	91	1081	0.0352 ppbV	S 76
140) n-Nonane	28.83	43	436	0.0151 ppbV #	S 51
158) n-Decane	32.47	57	1550	0.0446 ppbV	S 81
171) n-Undecane	35.84	57	355m	0.0074 ppbV	S

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082808.D Vial: 1
Acq On : 28 Aug 2011 6:28 pm Operator: KDK
Sample : AUH0047-03,,,,;TCESL Inst : GCMS-R1
Misc : 2.6784,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:39 19111 Quant Results File: RA110824.RES

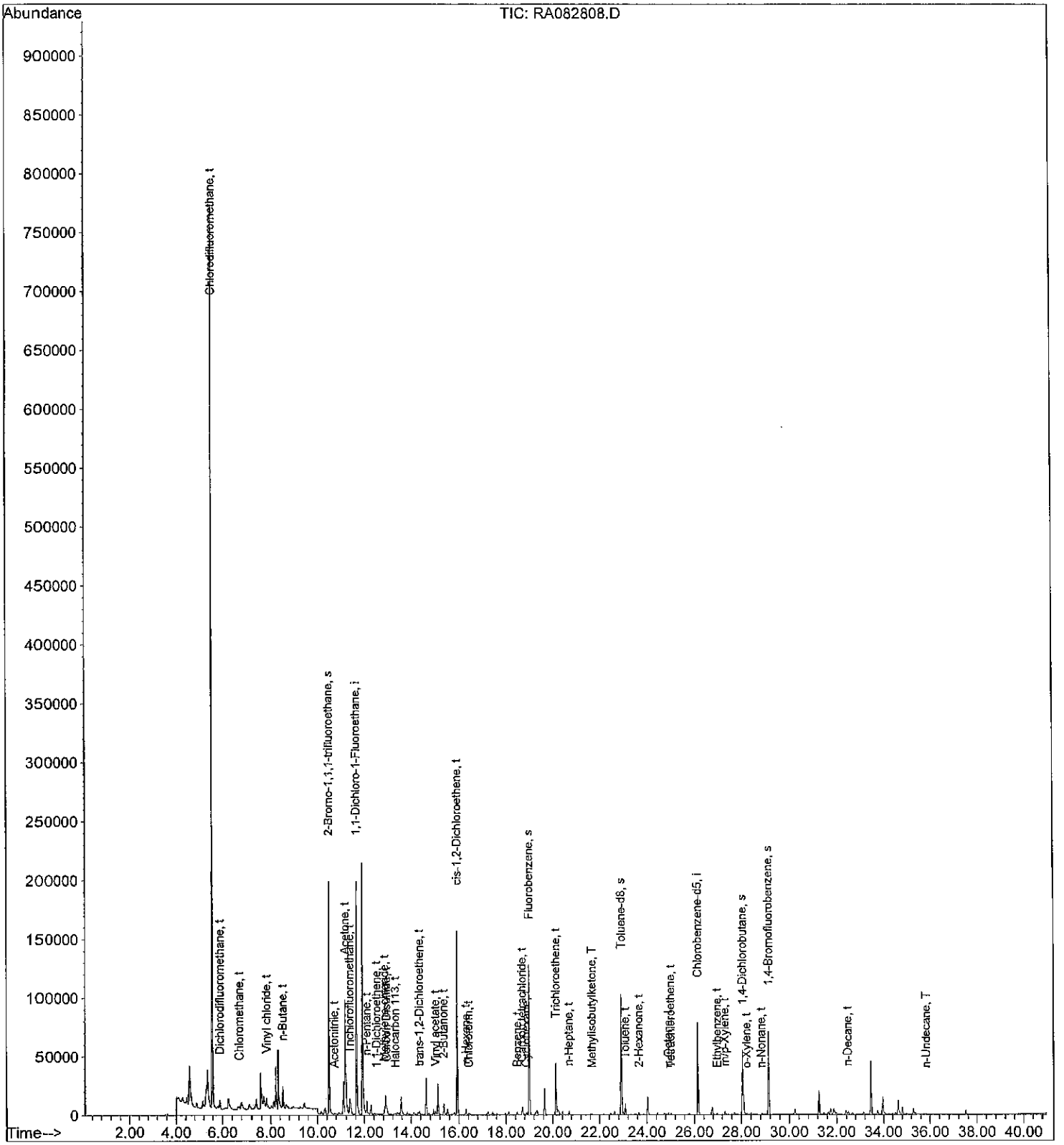
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082808.D Vial: 1
Acq On : 28 Aug 2011 6:28 pm Operator: KDK
Sample : AUH0047-03,,,,;TCESL Inst : GCMS-R1
Misc : 2.6784,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:39 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082809.D Vial: 1
Acq On : 28 Aug 2011 7:29 pm Operator: KDK
Sample : AUH0047-04,,,,;TCESL Inst : GCMS-R1
Misc : 2.6306,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:40 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

8-30-11

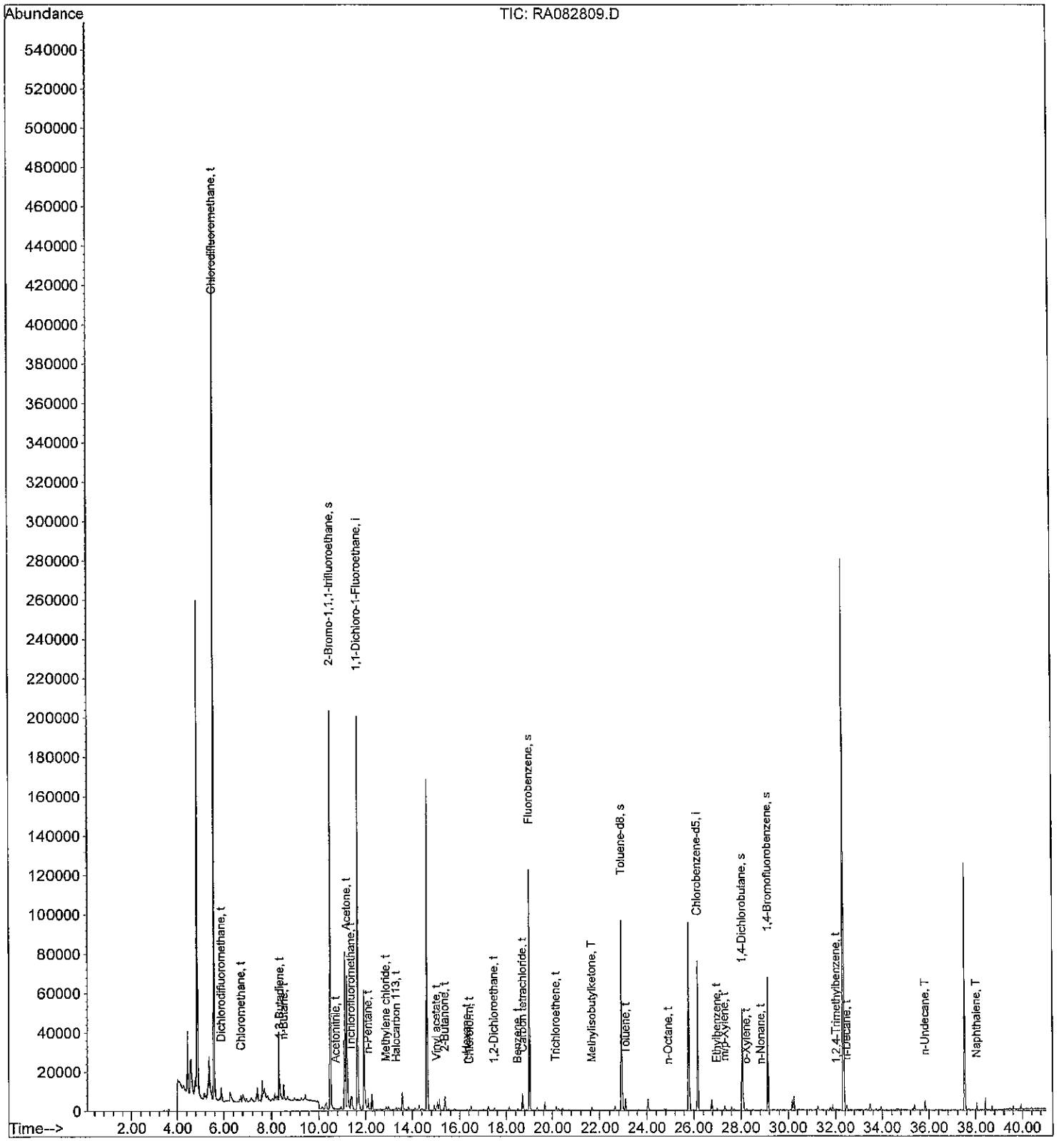
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	193499	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	45216	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	65299	1.6512 ppbV	0.02
Spiked Amount 2.000			Recovery	= 82.50%	
65) Fluorobenzene	19.00	96	108338	1.1512 ppbV	0.01
Spiked Amount 2.000			Recovery	= 57.50%	
113) Toluene-d8	22.92	98	74911	1.8881 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	
115) 1,4-Dichlorobutane	28.05	90	6669	2.0830 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	
141) 1,4-Bromofluorobenzene	29.13	95	31890	2.1454 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.56	51	495282	9.7130 ppbV	S	94
10) Dichlorodifluoromethane	5.89	85	9587	0.0970 ppbV	S	95
11) Chloromethane	6.73	50	2345	0.0967 ppbV	S	97
17) 1,3-Butadiene	8.37	39	234	0.0106 ppbV #	S	16
18) n-Butane	8.53	43	4300	0.0982 ppbV	S	74
29) Acetonitrile	10.73	41	464	0.0224 ppbV	S	82
32) Trichlorofluoromethane	11.36	101	5148	0.0576 ppbV #	S	71
34) Acetone	11.17	43	118186m	2.3276 ppbV	S	
37) n-Pentane	12.10	43	4086	0.0876 ppbV	S	81
43) Methylene chloride	12.86	49	645	0.0190 ppbV #	S	1
47) Halocarbon 113	13.32	151	425	0.0121 ppbV #	S	100
58) Vinyl acetate	15.02	43	4375m	0.0541 ppbV	S	
62) 2-Butanone	15.37	43	11347	0.1841 ppbV #	S	1
71) n-Hexane	16.30	57	259	0.0055 ppbV #	S	1
72) Chloroform	16.41	83	259	0.0035 ppbV #	S	1
79) 1,2-Dichloroethane	17.45	62	947	0.0162 ppbV #	S	46
84) Benzene	18.48	78	833	0.0221 ppbV	S	77
85) Carbon tetrachloride	18.71	117	1086	0.0251 ppbV #	S	1
94) Trichloroethene	20.14	130	610	0.0388 ppbV #	S	1
105) Methylisobutylketone	21.68	43	1639	0.0445 ppbV #	S	1
114) Toluene	23.09	91	5546	0.1627 ppbV #	S	1
125) n-Octane	24.93	43	224	0.0066 ppbV #	S	2
129) Ethylbenzene	26.98	91	1247	0.0362 ppbV	S	90
130) m/p-Xylene	27.32	91	2725	0.0912 ppbV	S	86
136) o-Xylene	28.22	91	915	0.0298 ppbV	S	64
140) n-Nonane	28.84	43	172	0.0060 ppbV #	S	7
153) 1,2,4-Trimethylbenzene	32.04	105	477m	0.0137 ppbV	S	
158) n-Decane	32.47	57	1152	0.0331 ppbV #	S	63
171) n-Undecane	35.84	57	2093	0.0435 ppbV #	S	63
173) Naphthalene	38.03	128	3265	0.0615 ppbV	S	92

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082809.D Vial: 1
Acq On : 28 Aug 2011 7:29 pm Operator: KDK
Sample : AUH0047-04,,,,;TCESL Inst : GCMS-R1
Misc : 2.6306,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:40 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082812.D Vial: 1
Acq On : 28 Aug 2011 10:33 pm Operator: KDK
Sample : AUH0047-06,,,,;TCESL Inst : GCMS-R1
Misc : 2.6580,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:41 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8.30.11

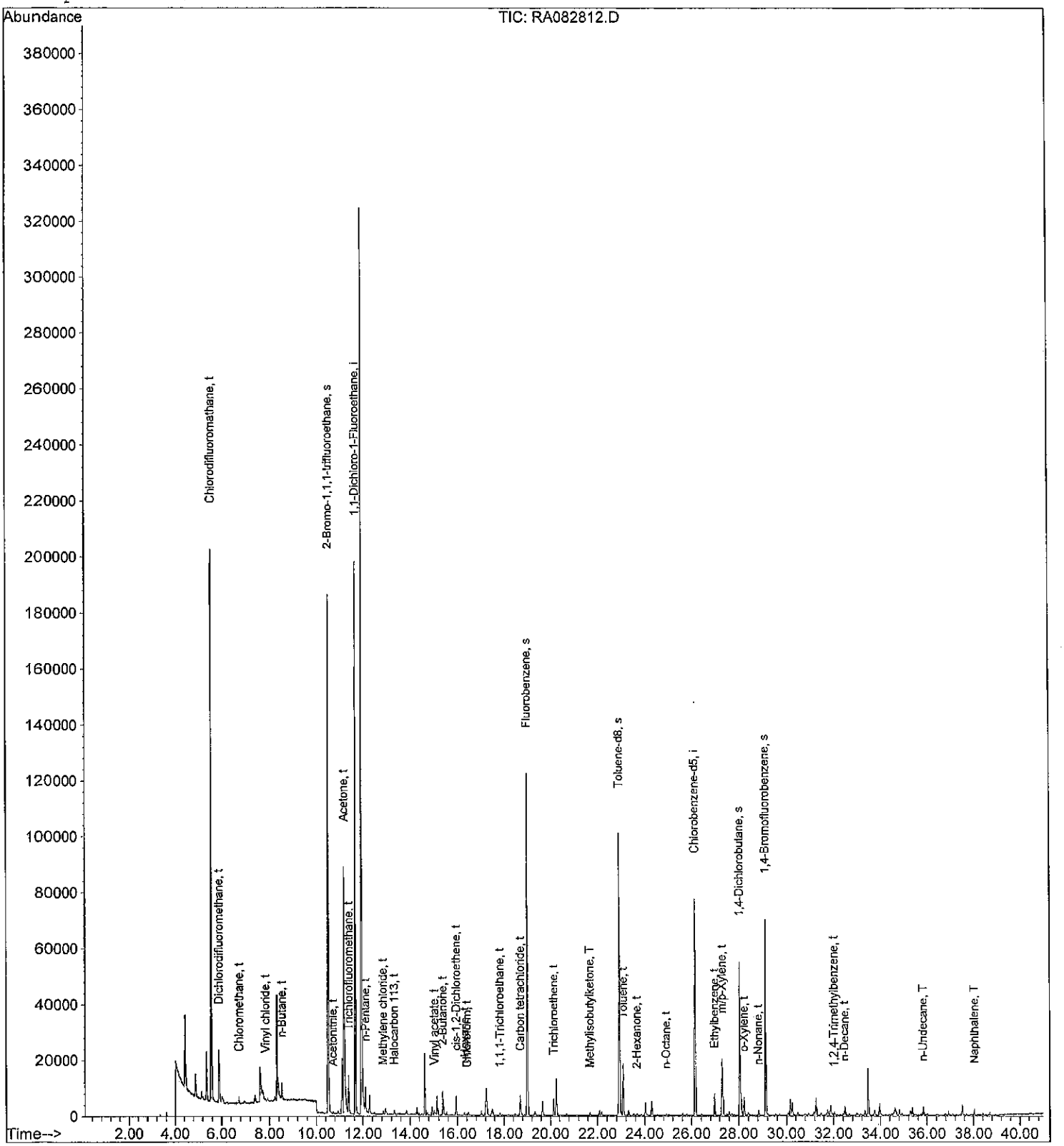
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	192371	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	44353	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	63466	1.6143 ppbV	0.03
Spiked Amount 2.000			Recovery	= 80.50%	
65) Fluorobenzene	19.01	96	107788	1.1521 ppbV	0.02
Spiked Amount 2.000			Recovery	= 57.50%	
113) Toluene-d8	22.92	98	76568	1.9675 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.50%	
115) 1,4-Dichlorobutane	28.05	90	6625	2.1095 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	
141) 1,4-Bromofluorobenzene	29.14	95	32147	2.2048 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.57	51	215667	4.2543 ppbV	S	93
10) Dichlorodifluoromethane	5.89	85	27734	0.2824 ppbV	S	97
11) Chloromethane	6.74	50	2157	0.0894 ppbV	S	96
15) Vinyl chloride	7.83	62	659	0.0240 ppbV	S	83
18) n-Butane	8.53	43	4659	0.1071 ppbV	S	82
29) Acetonitrile	10.73	41	423	0.0205 ppbV	S	76
32) Trichlorofluoromethane	11.37	101	11791	0.1327 ppbV #	S	68
34) Acetone	11.17	43	148390	2.9396 ppbV #	S	1
37) n-Pentane	12.10	43	5905	0.1274 ppbV	S	82
43) Methylene chloride	12.86	49	834	0.0247 ppbV #	S	1
47) Halocarbon 113	13.33	151	529	0.0151 ppbV #	S	100
58) Vinyl acetate	15.03	43	3195m	0.0398 ppbV	S	
62) 2-Butanone	15.38	43	14338	0.2340 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.95	61	4850	0.1071 ppbV #	S	1
71) n-Hexane	16.32	57	428	0.0092 ppbV #	S	1
72) Chloroform	16.42	83	578	0.0080 ppbV #	S	1
81) 1,1,1-Trichloroethane	17.82	97	712m	0.0089 ppbV	S	
85) Carbon tetrachloride	18.71	117	976	0.0230 ppbV #	S	15
94) Trichloroethene	20.15	130	1932	0.1254 ppbV #	S	1
105) Methylisobutylketone	21.67	43	1096	0.0303 ppbV #	S	1
114) Toluene	23.09	91	12116	0.3623 ppbV #	S	1
116) 2-Hexanone	23.66	43	629m	0.0266 ppbV	S	
125) n-Octane	24.91	43	310m	0.0093 ppbV	S	
129) Ethylbenzene	26.98	91	7815	0.2314 ppbV	S	93
130) m/p-Xylene	27.31	91	20695	0.7061 ppbV	S	94
136) o-Xylene	28.22	91	5742	0.1906 ppbV	S	84
140) n-Nonane	28.84	43	1008	0.0357 ppbV #	S	48
153) 1,2,4-Trimethylbenzene	32.01	105	990	0.0290 ppbV #	S	1
158) n-Decane	32.47	57	1672	0.0490 ppbV #	S	75
171) n-Undecane	35.84	57	1397	0.0296 ppbV #	S	44
173) Naphthalene	38.03	128	2068	0.0397 ppbV	S	94

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082812.D Vial: 1
Acq On : 28 Aug 2011 10:33 pm Operator: KDK
Sample : AUH0047-06,,,,;TCESL Inst : GCMS-R1
Misc : 2.6580,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:41 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082813.D Vial: 1
Acq On : 28 Aug 2011 11:34 pm Operator: KDK
Sample : AUH0047-07,,,,;TCESL Inst : GCMS-R1
Misc : 2.5377,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:43 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

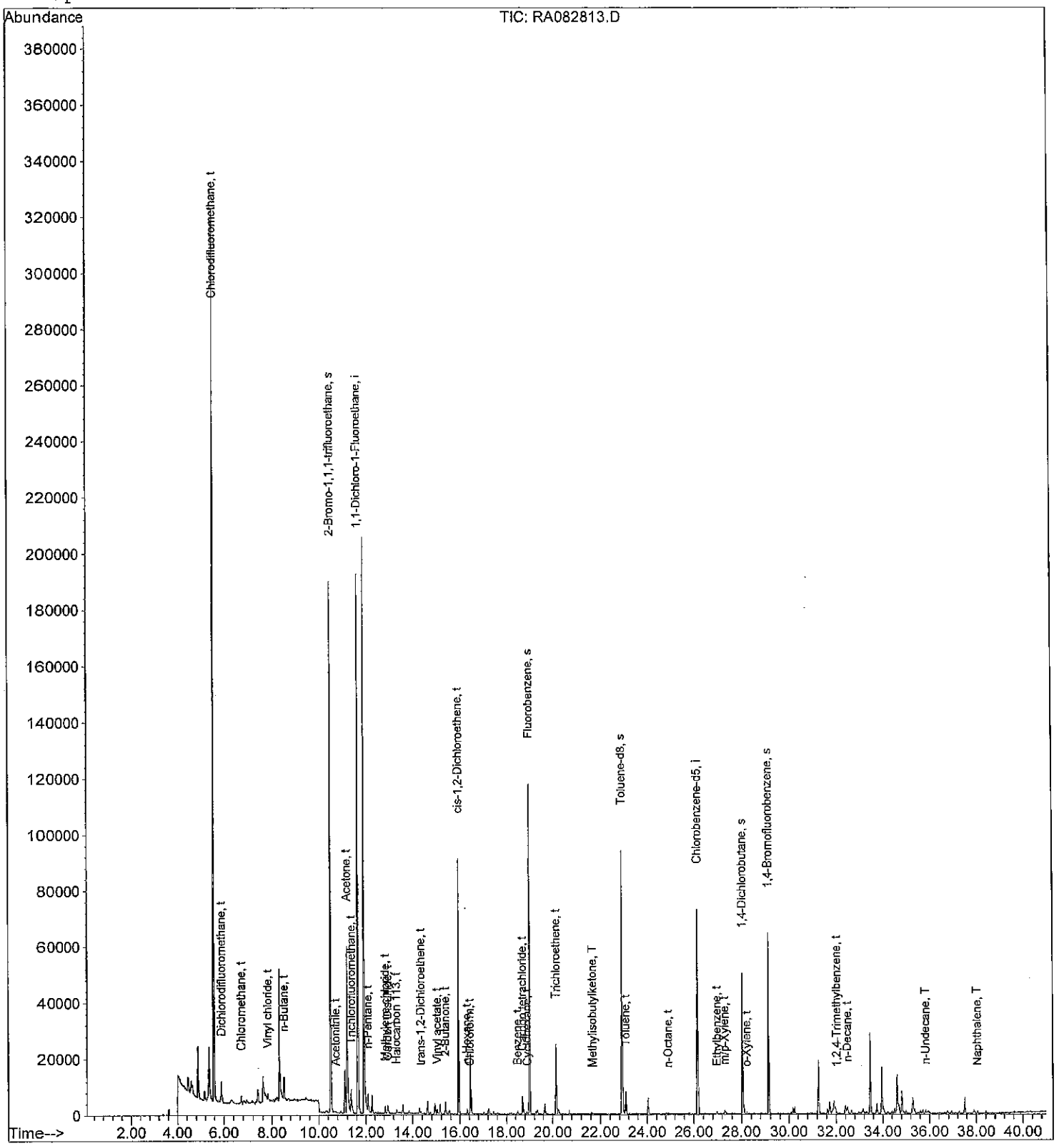
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	187311	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	41764	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	63153	1.6497 ppbV	0.02
Spiked Amount 2.000			Recovery	= 82.50%	
65) Fluorobenzene	19.00	96	104714	1.1495 ppbV	0.01
Spiked Amount 2.000			Recovery	= 57.50%	
113) Toluene-d8	22.92	98	72082	1.9670 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.50%	
115) 1,4-Dichlorobutane	28.05	90	5947	2.0110 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
141) 1,4-Bromofluorobenzene	29.13	95	29764	2.1679 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.56	51	340184	6.8918 ppbV	S	94
10) Dichlorodifluoromethane	5.90	85	10862	0.1136 ppbV	S	96
11) Chloromethane	6.73	50	2290	0.0975 ppbV	S	94
15) Vinyl chloride	7.82	62	2272	0.0850 ppbV	S	94
18) n-Butane	8.53	43	5854	0.1382 ppbV	S	92
29) Acetonitrile	10.73	41	465	0.0232 ppbV #	S	47
32) Trichlorofluoromethane	11.37	101	7019	0.0811 ppbV #	S	73
34) Acetone	11.18	43	102839	2.0923 ppbV #	S	1
37) n-Pentane	12.10	43	4332	0.0960 ppbV	S	91
43) Methylene chloride	12.85	49	1713	0.0521 ppbV #	S	1
45) Carbon Disulfide	12.95	76	2942	0.0391 ppbV	S	100
47) Halocarbon 113	13.31	151	414	0.0121 ppbV #	S	100
50) trans-1,2-Dichloroethene	14.35	61	788	0.0190 ppbV #	S	1
58) Vinyl acetate	15.03	43	3105m	0.0397 ppbV	S	
62) 2-Butanone	15.38	43	7190	0.1205 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.94	61	62136	1.4090 ppbV #	S	1
71) n-Hexane	16.29	57	806m	0.0178 ppbV	S	
72) Chloroform	16.42	83	525	0.0074 ppbV #	S	1
84) Benzene	18.48	78	1352	0.0388 ppbV #	S	63
85) Carbon tetrachloride	18.70	117	1154	0.0289 ppbV #	S	28
87) Cyclohexane	18.88	56	567	0.0234 ppbV #	S	1
94) Trichloroethene	20.14	130	7360	0.5072 ppbV #	S	1
105) Methylisobutylketone	21.68	43	595	0.0175 ppbV #	S	1
114) Toluene	23.09	91	7273	0.2310 ppbV #	S	1
125) n-Octane	24.91	43	242	0.0077 ppbV #	S	18
129) Ethylbenzene	26.98	91	785	0.0247 ppbV	S	59
130) m/p-Xylene	27.31	91	2136	0.0774 ppbV	S	87
136) o-Xylene	28.22	91	738	0.0260 ppbV	S	64
153) 1,2,4-Trimethylbenzene	32.03	105	446m	0.0139 ppbV	S	
158) n-Decane	32.48	57	1377	0.0429 ppbV #	S	66
171) n-Undecane	35.84	57	678	0.0153 ppbV #	S	75
173) Naphthalene	38.04	128	1024	0.0209 ppbV	S	76

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082813.D Vial: 1
Acq On : 28 Aug 2011 11:34 pm Operator: KDK
Sample : AUH0047-07,,,,;TCESL Inst : GCMS-R1
Misc : 2.5377,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:43 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082814.D Vial: 1
Acq On : 29 Aug 2011 12:34 am Operator: KDK
Sample : AUH0047-08,,,,;TCESL Inst : GCMS-R1
Misc : 2.7273,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:44 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 9-30-11

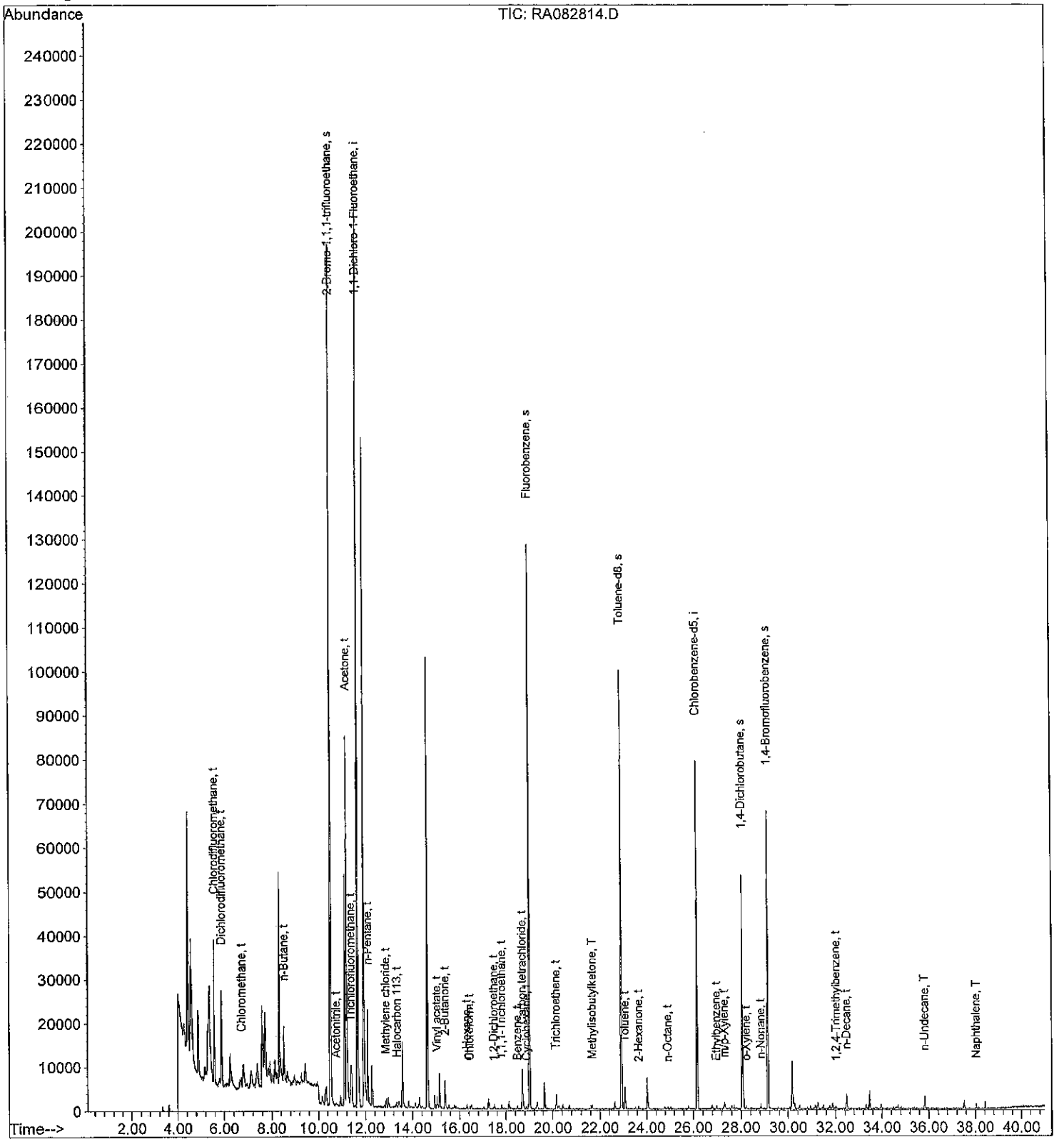
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	197052	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	44384	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	64185	1.5938 ppbV	0.03
Spiked Amount 2.000			Recovery	= 79.50%	
65) Fluorobenzene	19.01	96	111516	1.1636 ppbV	0.02
Spiked Amount 2.000			Recovery	= 58.00%	
113) Toluene-d8	22.92	98	77281	1.9844 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
115) 1,4-Dichlorobutane	28.05	90	6634	2.1109 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	
141) 1,4-Bromofluorobenzene	29.14	95	31161	2.1357 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.00%	

Target Compounds					Qvalue
8) Chlorodifluoromethane	5.58	51	35732	0.6881 ppbV S	93
10) Dichlorodifluoromethane	5.89	85	31728	0.3154 ppbV S	97
11) Chloromethane	6.73	50	2187	0.0885 ppbV S	95
18) n-Butane	8.53	43	6208	0.1393 ppbV S	83
29) Acetonitrile	10.74	41	405m	0.0192 ppbV S	
32) Trichlorofluoromethane	11.37	101	6531	0.0717 ppbV # S	71
34) Acetone	11.17	43	138173	2.6722 ppbV # S	1
37) n-Pentane	12.10	43	15591	0.3284 ppbV S	87
43) Methylene chloride	12.86	49	603	0.0174 ppbV # S	1
47) Halocarbon 113	13.34	151	458	0.0128 ppbV # S	100
58) Vinyl acetate	15.03	43	4542m	0.0552 ppbV S	
62) 2-Butanone	15.38	43	10791	0.1719 ppbV # S	1
71) n-Hexane	16.31	57	491	0.0103 ppbV # S	1
72) Chloroform	16.42	83	460	0.0062 ppbV # S	1
79) 1,2-Dichloroethane	17.47	62	329	0.0055 ppbV # S	58
81) 1,1,1-Trichloroethane	17.81	97	861	0.0105 ppbV # S	1
84) Benzene	18.49	78	783	0.0211 ppbV # S	55
85) Carbon tetrachloride	18.71	117	917	0.0216 ppbV S	85
87) Cyclohexane	18.89	56	374m	0.0145 ppbV S	
94) Trichloroethene	20.15	130	1112	0.0721 ppbV # S	1
105) Methylisobutylketone	21.68	43	1147	0.0317 ppbV # S	1
114) Toluene	23.09	91	4794	0.1433 ppbV # S	1
116) 2-Hexanone	23.67	43	716	0.0302 ppbV # S	10
125) n-Octane	24.91	43	275	0.0082 ppbV # S	18
129) Ethylbenzene	26.97	91	887	0.0262 ppbV S	80
130) m/p-Xylene	27.31	91	2276	0.0776 ppbV S	90
136) o-Xylene	28.23	91	843	0.0280 ppbV S	68
140) n-Nonane	28.84	43	551	0.0195 ppbV # S	43
153) 1,2,4-Trimethylbenzene	32.03	105	462	0.0135 ppbV # S	1
158) n-Decane	32.47	57	1657	0.0485 ppbV # S	73
171) n-Undecane	35.83	57	1309	0.0277 ppbV # S	30
173) Naphthalene	38.04	128	1297	0.0249 ppbV S	74

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082814.D Vial: 1
Acq On : 29 Aug 2011 12:34 am Operator: KDK
Sample : AUH0047-08,,,,;TCESL Inst : GCMS-R1
Misc : 2.7273,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:44 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082815.D Vial: 1
Acq On : 29 Aug 2011 1:35 am Operator: KDK
Sample : AUH0047-09,,,,;TCESL Inst : GCMS-R1
Misc : 2.6271,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:45 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

MM 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	193853	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	42087	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	62147	1.5687 ppbV	0.02
Spiked Amount 2.000			Recovery	= 78.50%	
65) Fluorobenzene	19.00	96	102627	1.0886 ppbV	0.01
Spiked Amount 2.000			Recovery	= 54.50%	
113) Toluene-d8	22.92	98	72900	1.9741 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.50%	
115) 1,4-Dichlorobutane	28.06	90	6205	2.0821 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	
141) 1,4-Bromofluorobenzene	29.14	95	31203	2.2552 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.57	51	80165	1.5693 ppbV	S	93
10) Dichlorodifluoromethane	5.89	85	9861	0.0996 ppbV	S	98
11) Chloromethane	6.73	50	2348	0.0966 ppbV	S	85
18) n-Butane	8.52	43	5184	0.1182 ppbV	S	75
25) Chloroethane	9.67	64	416	0.0284 ppbV	S	65
29) Acetonitrile	10.72	41	648	0.0312 ppbV	S	80
32) Trichlorofluoromethane	11.36	101	5172	0.0578 ppbV #	S	72
34) Acetone	11.16	43	263454	5.1791 ppbV #	S	1
36) Acrylonitrile	12.15	52	96	0.0057 ppbV #	S	1
37) n-Pentane	12.10	43	6000	0.1284 ppbV	S	85
43) Methylene chloride	12.85	49	857	0.0252 ppbV #	S	1
45) Carbon Disulfide	12.95	76	2305	0.0296 ppbV	S	95
47) Halocarbon 113	13.32	151	424m	0.0120 ppbV	S	
58) Vinyl acetate	15.01	43	4376m	0.0540 ppbV	S	
62) 2-Butanone	15.36	43	37886	0.6135 ppbV #	S	1
71) n-Hexane	16.29	57	586	0.0125 ppbV #	S	1
72) Chloroform	16.42	83	1383	0.0189 ppbV #	S	1
79) 1,2-Dichloroethane	17.46	62	646	0.0111 ppbV	S	86
84) Benzene	18.49	78	1145	0.0326 ppbV	S	85
85) Carbon tetrachloride	18.70	117	1193	0.0297 ppbV #	S	27
94) Trichloroethene	20.14	130	5908	0.4040 ppbV #	S	1
100) n-Heptane	20.70	71	168	0.0120 ppbV #	S	1
105) Methylisobutylketone	21.67	43	1912	0.0557 ppbV #	S	1
114) Toluene	23.09	91	63922	2.0144 ppbV #	S	1
116) 2-Hexanone	23.66	43	1390m	0.0618 ppbV	S	
125) n-Octane	24.91	43	434	0.0137 ppbV #	S	18
129) Ethylbenzene	26.98	91	2698	0.0842 ppbV	S	91
130) m/p-Xylene	27.31	91	7868	0.2829 ppbV	S	81
134) Styrene	28.02	104	856	0.0651 ppbV #	S	40
136) o-Xylene	28.22	91	2753	0.0963 ppbV	S	85
140) n-Nonane	28.84	43	1314	0.0490 ppbV #	S	41
150) 1,3,5-Trimethylbenzene	31.10	105	456	0.0127 ppbV #	S	40
153) 1,2,4-Trimethylbenzene	32.02	105	1453	0.0449 ppbV #	S	1
157) m-Dichlorobenzene	32.48	146	2665m	0.1991 ppbV	S	
158) n-Decane	32.47	57	3265	0.1009 ppbV #	S	66

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082815.D Vial: 1
Acq On : 29 Aug 2011 1:35 am Operator: KDK
Sample : AUH0047-09,,,,;TCESL Inst : GCMS-R1
Misc : 2.6271,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:45 19111 Quant Results File: RA110824.RES

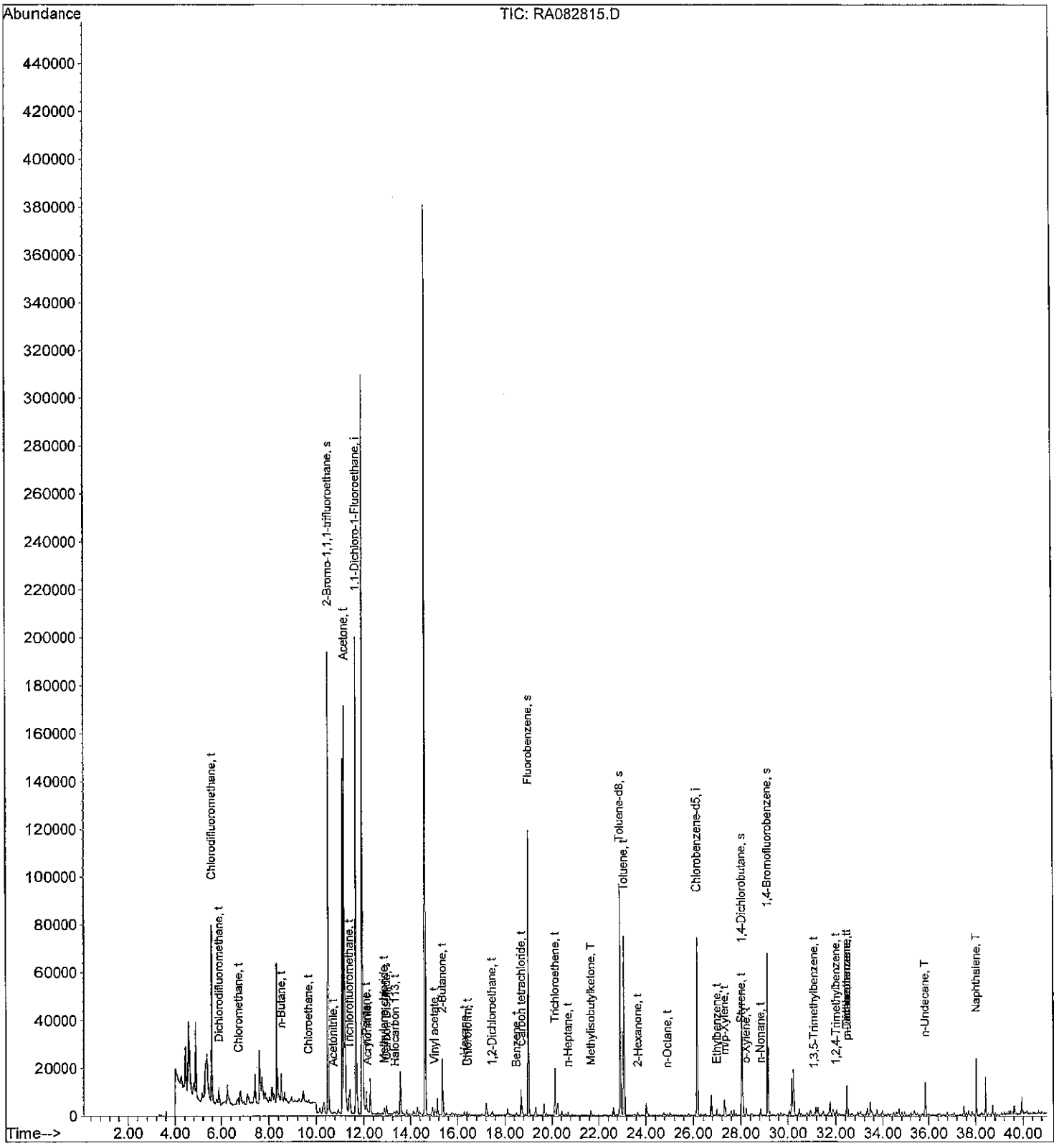
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
159) p-Dichlorobenzene	32.48	146	2665	0.2076 ppbV S	78
171) n-Undecane	35.84	57	5905	0.1319 ppbV # S	68
173) Naphthalene	38.03	128	17480	0.3538 ppbV S	94

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082815.D Vial: 1
Acq On : 29 Aug 2011 1:35 am Operator: KDK
Sample : AUH0047-09,,,,;TCESL Inst : GCMS-R1
Misc : 2.6271,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:45 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082816.D Vial: 1
Acq On : 29 Aug 2011 2:34 am Operator: KDK
Sample : AUH0047-10,,,,;TCESL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:46 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

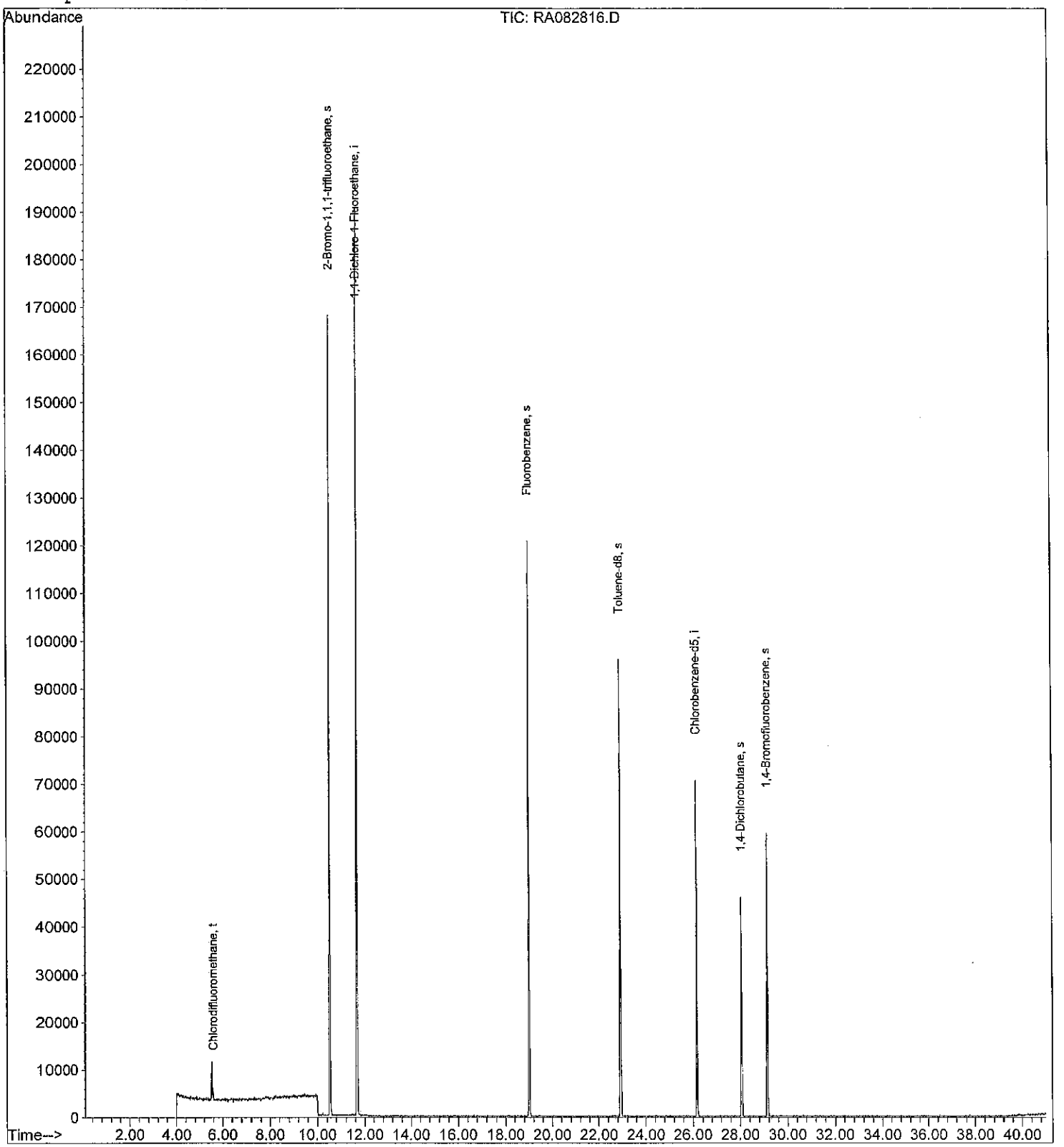
DAH 9-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	188186	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	40164	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	64125	1.6673 ppbV	0.02
Spiked Amount 2.000			Recovery	= 83.50%	
65) Fluorobenzene	19.00	96	106006	1.1583 ppbV	0.01
Spiked Amount 2.000			Recovery	= 58.00%	
113) Toluene-d8	22.92	98	73015	2.0718 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.50%	
115) 1,4-Dichlorobutane	28.05	90	5536	1.9466 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
141) 1,4-Bromofluorobenzene	29.14	95	26555	2.0112 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
Target Compounds					Qvalue
8) Chlorodifluoromethane	5.59	51	793	0.0160 ppbV	S 67

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082816.D Vial: 1
Acq On : 29 Aug 2011 2:34 am Operator: KDK
Sample : AUH0047-10,,,,;TCESL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 15:46 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082817.D Vial: 1
Acq On : 29 Aug 2011 3:35 am Operator: KDK
Sample : AUH0047-11,,,,;TCESL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 12:54 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

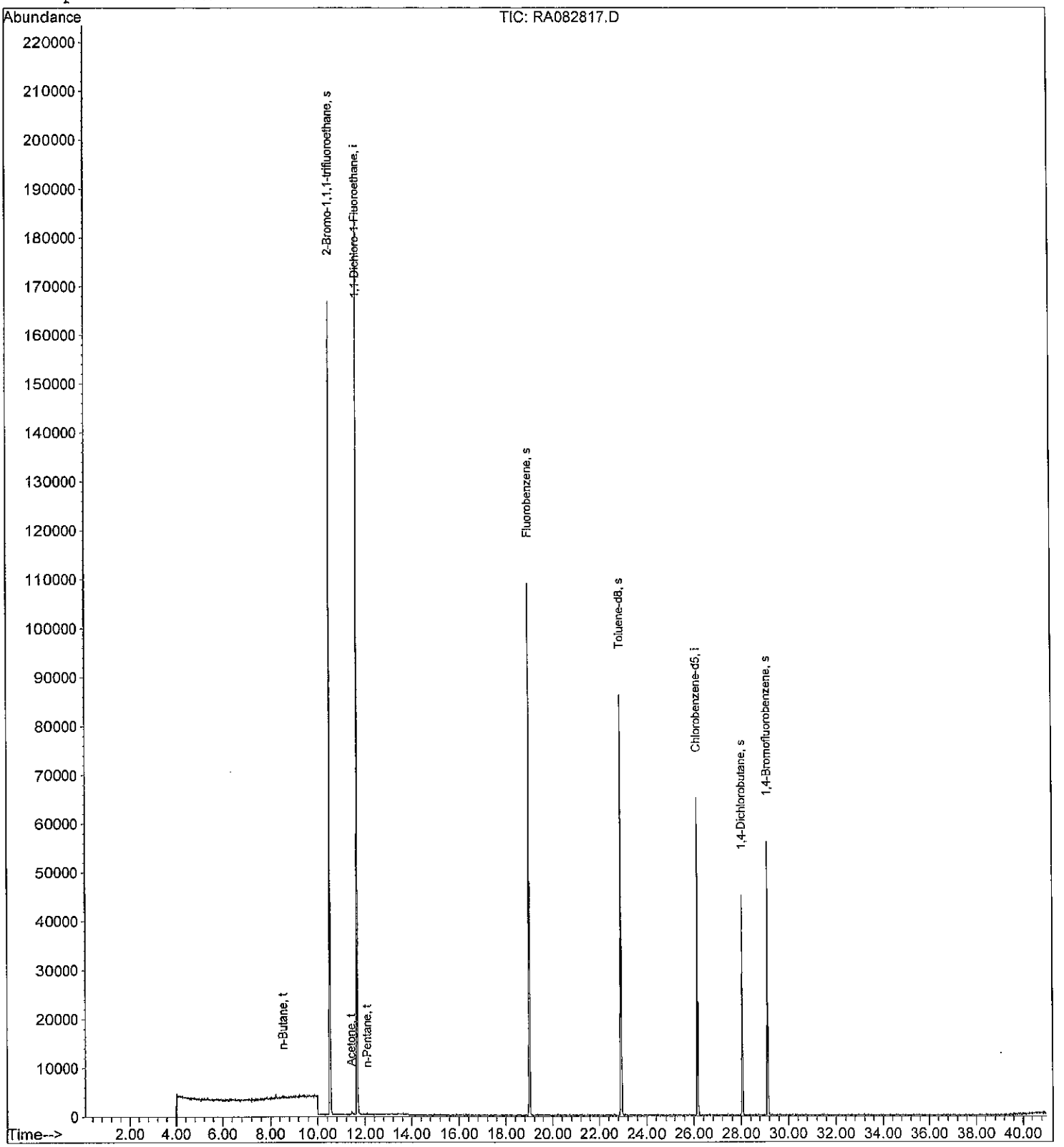
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	181271	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	36403	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	60861	1.6428 ppbV	0.02
Spiked Amount 2.000			Recovery	= 82.00%	
65) Fluorobenzene	19.00	96	93618	1.0619 ppbV	0.00
Spiked Amount 2.000			Recovery	= 53.00%	
113) Toluene-d8	22.92	98	65315	2.0448 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.00%	
115) 1,4-Dichlorobutane	28.06	90	5336	2.0701 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.50%	
141) 1,4-Bromofluorobenzene	29.14	95	25553	2.1353 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.00%	
Target Compounds					Qvalue
18) n-Butane	8.54	43	259	0.0063 ppbV # S	49
34) Acetone	11.40	43	1560m	0.0328 ppbV S	
37) n-Pentane	12.09	43	297	0.0068 ppbV # S	21

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110828\RA082817.D Vial: 1
Acq On : 29 Aug 2011 3:35 am Operator: KDK
Sample : AUH0047-11,,,,;TCESL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 29 12:54 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



INSTRUMENT GCMS-R1 ANALYST / DATE: UW 8/29/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: Batch ID: 11H04CM

DAILY CHECK —	INSERT: CHANGED (Y / N)	SEPTA: CHANGED (Y / N)	COLUMN: CHANGED (Y / N)	AUTOSAMPLER MAINT. —
M. PUMP OIL —	TURBO OIL NA —	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: RH0328.u Elect Mult. 1024 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: Entech

GC PROGRAM:

GC Meth. RH110824.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#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID:

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	Warmup	RA1865	0.5L	5	RA082901	0.01043	VC-VSP-34-17 Low pressure
2	11H04cal+ccv1	↓		5	02	↓	↓ Not used
3	Warmup	RA1878		9	03	0.01046	VC-VSP-34-18
4	11H04cal-ccv1	↓		9	04	↓	RA1848 ↓
5	-BS1	RA1843		1	05	0.01046	VC-VSP-34-19
6	-BSD1	↓	↓	1	06	↓	↓
7	-BLK1	RA2153	0.5L	13	07	1.0	MB
8	AU40047-01	HC0889	↓	1	08	2.7185	
9	05	5427	↓	5	09	2.6646	

Austin Laboratory
Instrument Sequence (continued)

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	UH0404-Dup1	5424	0.5L	5	RA082910	2.6846	
11	AUH0047-07	RA2410		7	11	2.5377	
12	09	RA2301		9	12	2.6271	
13	10	6666		10	13	1.0	
14	11	239		11	14	1.0	
15	AUH0047-03RE1	260	0.1L	3	15		
16	AUH0042-01RE1		1	2	16		
17	AUH0079-01	RA2276	0.5L	12	17	3.3125	
18	Dup 2	1		12	18	1	
19	02	RC0932		13	19	3.4852	
20	03	RC0937	1	14	20	3.9316	
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

171/196

Sequence Name: C:\msdchem\1\sequence\R110829.S
Comment:
Operator: KRW
Data Path: C:\MSDCHEM\1\DATA\R110829\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

8/30/11
LM

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

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

Line			Sample Name/Misc Info
1)	Sample	1	RA082901 RA110824 WARMUP
2)	Sample	1	RA082902 RA110824 11H0404-CCV1,,,,0.01043;CCAL low pressure Not used
3)	Sample	1	RA082903 RA110824 WARMUP,,,,0.01046;CCAL
4)	Sample	1	RA082904 RA110824 11H0404-CCV1,,,,0.01046;CCAL
5)	Sample	1	RA082905 RA110824 11H0404-BS1,,,,0.01046;LCS
6)	Sample	1	RA082906 RA110824 11H0404-BSD1,,,,0.01046;LCS
7)	Sample	1	RA082907 RA110824 11H0404-BLK1
8)	Sample	1	RA082908 RA110824 AUH0047-01,,,,;TCESL
9)	Sample	1	RA082909 RA110824 AUH0047-05,,,,;TCESL
10)	Sample	1	RA082910 RA110824 11H0404-DUP1,,,,;TCESL
11)	Sample	1	RA082911 RA110824 AUH0047-07,,,,;TCESL
12)	Sample	1	RA082912 RA110824 AUH0047-09,,,,;TCESL
13)	Sample	1	RA082913 RA110824 AUH0047-10,,,,;TCESL
14)	Sample	1	RA082914 RA110824 AUH0047-11,,,,;TCESL
15)	Sample	1	RA082915 RA110824 AUH0047-03RE1,,,,;TCESL
16)	Sample	1	RA082916 RA110824 AUH0042-01RE1,,,,;TCESL
17)	Sample	1	RA082917 RA110824 AUH0079-01
18)	Sample	1	RA082918 RA110824 11H0404-DUP2
19)	Sample	1	RA082919 RA110824 AUH0079-02
20)	Sample	1	RA082920 RA110824 AUH0079-03

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

Sequence Name: C:\Smart\R110829.SEQ
Date: 08-30-2011
Time: 08:35:46
Int. Std Volume: 200 cc

8/30/11
VM

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
WARMUP	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
11H0404-CCV1	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
WARMUP	1	9	500	0	C:\Smart\C053011V2.MPT	12:00
11H0404-CCV1	1	9	500	0	C:\Smart\C053011V2.MPT	12:00
11H0404-BS1	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
11H0404-BSD1	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
11H0404-BLK1	1	13	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-01	1	1	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-05	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
11H0404-DUP1	1	5	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-07	1	7	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-09	1	9	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-10	1	10	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-11	1	11	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0047-03RE1	1	3	100	0	C:\Smart\C053011V2.MPT	12:00
AUH0042-01RE1	1	2	100	0	C:\Smart\C053011V2.MPT	12:00
AUH0079-01	1	12	500	0	C:\Smart\C053011V2.MPT	12:00
11H0404-DUP2	1	12	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0079-02	1	13	500	0	C:\Smart\C053011V2.MPT	12:00
AUH0079-03	1	14	500	0	C:\Smart\C053011V2.MPT	12:00

- Low pressure - Not used

BFB

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082904.D Vial: 1
Acq On : 29 Aug 2011 3:06 pm Operator: KRW
Sample : 11H0404-CCV1,,,,0.01046;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :

8/29/11
KM

Spectrum Information: Average of 29.110 to 29.154 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	29.8	4670	PASS
75	95	30	66	64.4	10101	PASS
95	95	100	100	100.0	15688	PASS
96	95	5	9	6.8	1062	PASS
173	174	0.00	2	0.6	69	PASS
174	95	50	120	69.3	10867	PASS
175	174	4	9	7.3	797	PASS
176	174	93	101	93.6	10174	PASS
177	176	5	9	6.8	687	PASS

RA082904.D RA110824.M Mon Aug 29 15:59:30 2011 KRW

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082904.D Vial: 1
Acq On : 29 Aug 2011 3:06 pm Operator: KRW
Sample : 11H0404-CCV1,,,,0.01046;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:17 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	209924	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	81003	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.50	83	83478	1.9458 ppbV	0.02
Spiked Amount 2.000			Recovery	= 97.50%	
65) Fluorobenzene	19.00	96	182338	1.7860 ppbV	0.01
Spiked Amount 2.000			Recovery	= 89.50%	
113) Toluene-d8	22.92	98	146059	2.0550 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.50%	
115) 1,4-Dichlorobutane	28.06	90	11722	2.0437 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.00%	
141) 1,4-Bromofluorobenzene	29.13	95	54873	2.0606 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	32736	4.9162 ppbV	S	96
4) Acetylene	3.54	26	50838	4.0900 ppbV	S	90
5) Ethane	3.63	26	12266	3.2961 ppbV	S	98
7) Propylene	5.21	41	90381	4.8111 ppbV	S	97
9) Propane	5.37	43	39468	4.5740 ppbV	S	92
10) Dichlorodifluoromethane	5.87	85	489647	4.5686 ppbV	S	98
11) Chloromethane	6.73	50	121585	4.6205 ppbV	S	98
12) Isobutane	7.37	43	248382	4.5594 ppbV	S	93
13) Halocarbon 114	7.59	85	418090	4.3931 ppbV	S	89
14) Acetaldehyde	7.55	44	59850m	5.0239 ppbV	S	
15) Vinyl chloride	7.81	62	133097	4.4438 ppbV	S	98
16) 1-Butene/Isobutene	8.25	41	174166	4.5393 ppbV	S	75
17) 1,3-Butadiene	8.36	39	118508	4.9402 ppbV	S	97
18) n-Butane	8.52	43	210716	4.4371 ppbV	S	94
19) Methanol	8.33	31	21370m	3.5347 ppbV	S	
20) trans-2-Butene	8.90	41	161013	4.5322 ppbV	S	90
23) Bromomethane	9.06	94	120467	4.3675 ppbV	S	91
24) cis-2-Butene	9.37	41	171188	4.8637 ppbV	S	90
25) Chloroethane	9.64	64	69820	4.4093 ppbV	S	90
26) Vinyl bromide	10.44	106	138509	5.0563 ppbV	S	85
27) 3-Methyl-1-butene	10.46	55	345550	5.0098 ppbV	S	80
28) Ethanol	10.49	45	41614m	4.2830 ppbV	S	
29) Acetonitrile	10.64	41	115867m	5.1477 ppbV	S	
30) Acrolein	10.87	56	57010	5.6169 ppbV #	S	45
31) Isopentane	11.09	41	167365	4.7094 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	470456	4.8513 ppbV #	S	71
33) 1-Pentene	11.67	42	190671	5.0255 ppbV #	S	1
34) Acetone	11.16	43	312740m	5.6773 ppbV	S	
36) Acrylonitrile	12.09	52	104200	5.6651 ppbV #	S	1
37) n-Pentane	12.10	43	253146	5.0044 ppbV	S	85
39) Isoprene	12.27	67	163417	4.7711 ppbV	S	95
40) trans-2-Pentene	12.43	55	293442	5.1069 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	274552	4.9946 ppbV #	S	10
42) cis-2-Pentene	12.72	55	285754	5.0221 ppbV #	S	1
43) Methylene chloride	12.85	49	181498	4.9245 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082904.D Vial: 1
Acq On : 29 Aug 2011 3:06 pm Operator: KRW
Sample : 11H0404-CCV1,,,,0.01046;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:17 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	2-Methyl-2-butene	12.91	55	307335	5.2928 ppbV # S	1
45)	Carbon Disulfide	12.95	76	434687	5.1538 ppbV S	96
46)	3-Chloropropene	13.01	41	168278	4.9763 ppbV # S	1
47)	Halocarbon 113	13.32	151	184570	4.8249 ppbV # S	100
48)	Neohexane	13.47	43	210560	5.0665 ppbV # S	1
49)	Cyclopentene	14.18	67	303045	4.7648 ppbV # S	1
50)	trans-1,2-Dichloroethene	14.34	61	229700	4.9487 ppbV # S	1
51)	4-Methyl-1-pentene	14.38	43	216288	5.0197 ppbV S	89
53)	1,1-Dichloroethane	14.63	63	289780	4.4802 ppbV # S	100
54)	Cyclopentane	14.62	42	245637	4.4376 ppbV S	80
55)	2,3-Dimethylbutane	14.73	43	319846	4.3405 ppbV # S	63
56)	Methyl tert-butyl ether	14.81	73	394413	4.3448 ppbV # S	1
57)	Isohexane	14.94	42	166759	4.4379 ppbV # S	42
58)	Vinyl acetate	15.05	43	482100	5.4982 ppbV # S	47
62)	2-Butanone	15.34	43	339924	5.0828 ppbV # S	1
63)	Chloroprene	15.51	53	291786	4.6488 ppbV S	75
64)	3-Methylpentane	15.54	57	275395	4.4334 ppbV S	94
66)	2-Methyl-1-pentene	15.77	56	241189m	4.3059 ppbV S	
67)	1-Hexene	15.81	41	166289	4.6491 ppbV # S	56
68)	cis-1,2-Dichloroethene	15.94	61	228935	4.6322 ppbV # S	1
69)	Bromochloromethane	16.17	130	96078	4.2800 ppbV # S	1
71)	n-Hexane	16.30	57	238321	4.6848 ppbV # S	1
72)	Chloroform	16.41	83	352170	4.4432 ppbV # S	1
74)	trans-2-Hexene	16.51	55	298132	4.7360 ppbV # S	1
77)	cis-2-Hexene	16.91	55	242570	4.3961 ppbV S	96
78)	Methylcyclopentane	17.43	56	283703	4.4165 ppbV S	87
79)	1,2-Dichloroethane	17.45	62	312047	4.9336 ppbV S	90
80)	2,4-Dimethylpentane	17.62	43	335836	4.6117 ppbV # S	1
81)	1,1,1-Trichloroethane	17.80	97	409990	4.6926 ppbV # S	1
84)	Benzene	18.48	78	341766	5.0566 ppbV S	74
85)	Carbon tetrachloride	18.70	117	406164	5.2473 ppbV # S	1
86)	1-Butanol	18.67	56	85800	4.0581 ppbV S	97
87)	Cyclohexane	18.87	56	240860	5.1260 ppbV # S	1
88)	Isoheptane	19.27	43	357472	5.1781 ppbV # S	29
89)	2,3-Dimethylpentane	19.34	56	291787	5.0006 ppbV # S	66
91)	3-Methylhexane	19.65	43	283993	5.1850 ppbV # S	79
92)	1,2-Dichloropropane	19.75	63	137621	5.1786 ppbV # S	1
93)	Bromodichloromethane	20.08	83	331755	5.0193 ppbV # S	1
94)	Trichloroethene	20.14	130	135846	4.8267 ppbV # S	1
95)	1,4-Dioxane	20.18	88	47657	4.3439 ppbV # S	1
97)	2,2,4-Trimethylpentane	20.22	57	792012	4.9755 ppbV S	91
98)	2-Chloropentane	20.45	70	204653	5.2502 ppbV # S	12
100)	n-Heptane	20.70	71	137665	5.1254 ppbV # S	1
104)	cis-1,3-Dichloropropene	21.54	75	173374	5.0742 ppbV # S	1
105)	Methylisobutylketone	21.64	43	389821	5.9031 ppbV # S	1
106)	Methylcyclohexane	21.62	83	258984	5.0064 ppbV S	91
110)	trans-1,3-Dichloropropene	22.41	75	168717	5.3968 ppbV # S	1
111)	1,1,2-Trichloroethane	22.65	97	107530	5.2014 ppbV # S	1
112)	2,3,4-Trimethylpentane	22.87	43	477901	5.2314 ppbV S	94
114)	Toluene	23.09	91	336912	5.5164 ppbV # S	1
117)	2-Methylheptane	23.53	43	356314	5.4481 ppbV # S	9

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082904.D Vial: 1
Acq On : 29 Aug 2011 3:06 pm Operator: KRW
Sample : 11H0404-CCV1,,,,0.01046;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:17 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
119) Dibromochloromethane	23.77	129	190760	5.1852 ppbV # S	36
120) 3-Methylheptane	23.85	85	193580	5.1638 ppbV # S	1
122) 1,2-Dibromoethane	24.18	107	137164	4.9927 ppbV # S	1
125) n-Octane	24.92	43	347835	5.7097 ppbV # S	50
126) Tetrachloroethene	25.02	164	121434	5.3706 ppbV S	97
128) Chlorobenzene	26.23	112	171767	5.3732 ppbV # S	1
129) Ethylbenzene	26.98	91	360204	5.8402 ppbV S	97
130) m/p-Xylene	27.35	91	614708m	11.4838 ppbV S	
131) Bromoform	27.38	173	118751	5.3187 ppbV # S	1
134) Styrene	28.02	104	145179	5.7390 ppbV # S	21
135) 1,1,2,2-Tetrachloroethane	28.23	83	180221	4.6165 ppbV S	92
136) o-Xylene	28.23	91	322660	5.8635 ppbV S	88
140) n-Nonane	28.84	43	304786	5.9075 ppbV # S	72
142) Isopropylbenzene	29.45	105	455975	5.3595 ppbV S	100
144) alpha-Pinene	30.24	93	522859	5.4161 ppbV S	95
147) n-Propylbenzene	30.56	91	392018	4.8965 ppbV # S	35
148) m-Ethyltoluene	30.82	105	292646	4.4803 ppbV S	89
149) p-Ethyltoluene	30.90	105	274214	4.6311 ppbV S	89
150) 1,3,5-Trimethylbenzene	31.09	105	339539	4.9249 ppbV S	87
151) o-Ethyltoluene	31.49	105	339898	4.4455 ppbV S	88
152) beta-Pinene	31.77	93	378079	3.9097 ppbV # S	1
153) 1,2,4-Trimethylbenzene	32.02	105	316174	5.0766 ppbV # S	1
156) Benzyl chloride	32.30	91	292240	8.0730 ppbV S	98
157) m-Dichlorobenzene	32.30	146	121410	4.7129 ppbV S	85
158) n-Decane	32.47	57	368170	5.9094 ppbV S	74
159) p-Dichlorobenzene	32.48	146	136099	5.5080 ppbV S	84
161) 1,2,3-Trimethylbenzene	33.04	105	445358	6.1101 ppbV S	86
163) o-Dichlorobenzene	33.29	146	174059	6.1442 ppbV S	94
164) Limonene	33.47	68	264358	6.9343 ppbV S	83
165) Indan	33.49	117	292198	6.9747 ppbV S	90
166) Indene	33.71	115	304148	8.3104 ppbV S	92
167) m-Diethylbenzene	33.92	105	380952	6.3193 ppbV # S	28
168) p-Diethylbenzene	34.15	119	318395	6.4042 ppbV # S	1
171) n-Undecane	35.84	57	517799	6.0086 ppbV S	74
172) 1,2,4-Trichlorobenzene	37.85	180	213536	6.9849 ppbV # S	100
173) Naphthalene	38.04	128	560870	5.8977 ppbV S	96
174) Hexachloro-1,3-butadiene	38.81	225	317909	6.9449 ppbV S	96

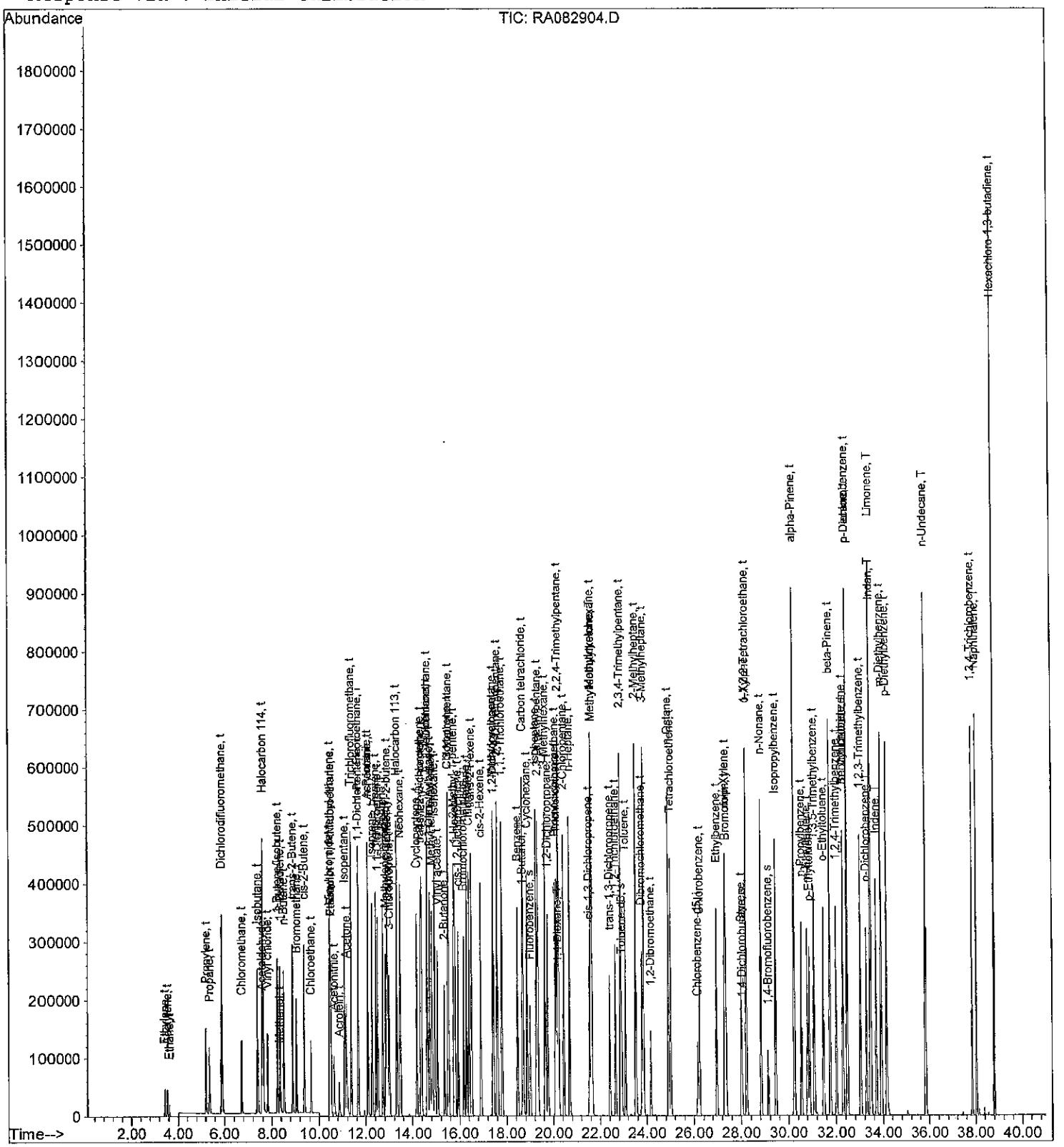
5.1852

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082904.D Vial: 1
Acq On : 29 Aug 2011 3:06 pm Operator: KRW
Sample : 11H0404-CCV1,,,,0.01046;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:17 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082905.D Vial: 1
Acq On : 29 Aug 2011 4:07 pm Operator: KRW
Sample : 11H0404-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:19 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

MR 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	210490	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	79434	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	84563	1.9657 ppbV	0.02
Spiked Amount 2.000			Recovery	= 98.50%	
65) Fluorobenzene	19.00	96	179322	1.7517 ppbV	0.01
Spiked Amount 2.000			Recovery	= 87.50%	
113) Toluene-d8	22.92	98	139258	1.9980 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
115) 1,4-Dichlorobutane	28.05	90	11742	2.0876 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.50%	
141) 1,4-Bromofluorobenzene	29.13	95	54920	2.1031 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	32362	4.8469 ppbV	S	94
4) Acetylene	3.54	26	50734	4.0707 ppbV	S	91
5) Ethane	3.63	26	11703	3.1363 ppbV	S	98
7) Propylene	5.21	41	89519	4.7524 ppbV	S	98
8) Chlorodifluoromethane	5.57	51	291500	5.2552 ppbV	S	97
9) Propane	5.37	43	38938	4.5005 ppbV	S	93
10) Dichlorodifluoromethane	5.88	85	512256	4.7667 ppbV	S	98
11) Chloromethane	6.73	50	129183	4.8960 ppbV	S	98
12) Isobutane	7.38	43	246807	4.5183 ppbV	S	93
13) Halocarbon 114	7.59	85	388946	4.0759 ppbV	S	91
15) Vinyl chloride	7.81	62	141641	4.7164 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	173943	4.5213 ppbV	S	76
17) 1,3-Butadiene	8.36	39	123845	5.1488 ppbV	S	99
18) n-Butane	8.52	43	211915	4.4504 ppbV	S	95
19) Methanol	8.33	31	22705m	3.7455 ppbV	S	
20) trans-2-Butene	8.90	41	160362	4.5017 ppbV	S	91
23) Bromomethane	9.06	94	128958	4.6628 ppbV	S	92
24) cis-2-Butene	9.37	41	171493	4.8592 ppbV	S	92
25) Chloroethane	9.65	64	74060	4.6645 ppbV	S	93
26) Vinyl bromide	10.43	106	125552	4.5710 ppbV	S	86
27) 3-Methyl-1-butene	10.46	55	349226	5.0495 ppbV	S	80
29) Acetonitrile	10.64	41	105326m	4.6668 ppbV	S	
30) Acrolein	10.87	56	49862	4.8995 ppbV #	S	48
31) Isopentane	11.09	41	167492	4.7003 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	489664	5.0358 ppbV #	S	70
33) 1-Pentene	11.67	42	195298	5.1336 ppbV #	S	1
34) Acetone	11.16	43	289030m	5.2328 ppbV	S	
35) 2-Propanol	11.92	45	236469	5.6714 ppbV #	S	1
36) Acrylonitrile	12.09	52	93900	5.0914 ppbV #	S	1
37) n-Pentane	12.10	43	258019	5.0870 ppbV	S	85
38) Diethyl ether	12.28	74	68118	5.4158 ppbV #	S	1
39) Isoprene	12.27	67	170988	4.9787 ppbV	S	95
40) trans-2-Pentene	12.43	55	287962	4.9981 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	290030	5.2620 ppbV #	S	10
42) cis-2-Pentene	12.72	55	285142	4.9979 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082905.D Vial: 1
Acq On : 29 Aug 2011 4:07 pm Operator: KRW
Sample : 11H0404-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:19 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Methylene chloride	12.85	49	191621	5.1852 ppbV #	S 1
44)	2-Methyl-2-butene	12.91	55	300420	5.1598 ppbV #	S 1
45)	Carbon Disulfide	12.95	76	344999	4.0794 ppbV	S 95
46)	3-Chloropropene	13.01	41	162914	4.8048 ppbV #	S 1
47)	Halocarbon 113	13.32	151	197685	5.1539 ppbV #	S 100
50)	trans-1,2-Dichloroethene	14.34	61	224757	4.8292 ppbV #	S 1
51)	4-Methyl-1-pentene	14.38	43	218139	5.0490 ppbV	S 90
53)	1,1-Dichloroethane	14.63	63	289148	4.4584 ppbV #	S 100
56)	Methyl tert-butyl ether	14.81	73	422581	4.6425 ppbV #	S 1
58)	Vinyl acetate	15.05	43	392286	4.4619 ppbV #	S 47
62)	2-Butanone	15.34	43	307590	4.5869 ppbV #	S 1
63)	Chloroprene	15.51	53	288361	4.5819 ppbV	S 77
68)	cis-1,2-Dichloroethene	15.94	61	234634	4.7347 ppbV #	S 1
71)	n-Hexane	16.30	57	222666	4.3653 ppbV #	S 1
72)	Chloroform	16.41	83	361440	4.5479 ppbV #	S 1
74)	trans-2-Hexene	16.51	55	292722	4.6375 ppbV #	S 1
77)	cis-2-Hexene	16.91	55	241119	4.3580 ppbV	S 94
79)	1,2-Dichloroethane	17.45	62	314526	4.9594 ppbV	S 90
81)	1,1,1-Trichloroethane	17.81	97	415097	4.7383 ppbV #	S 1
84)	Benzene	18.48	78	342656	5.1699 ppbV	S 73
85)	Carbon tetrachloride	18.71	117	368986	4.8611 ppbV #	S 1
86)	1-Butanol	18.67	56	83323	4.0188 ppbV	S 95
87)	Cyclohexane	18.87	56	228053	4.9493 ppbV #	S 1
92)	1,2-Dichloropropane	19.75	63	137868	5.2904 ppbV #	S 1
93)	Bromodichloromethane	20.08	83	354068	5.4627 ppbV #	S 1
94)	Trichloroethene	20.14	130	136621	4.9502 ppbV #	S 1
95)	1,4-Dioxane	20.18	88	32679	3.0375 ppbV #	S 11
97)	2,2,4-Trimethylpentane	20.22	57	755236	4.8382 ppbV	S 91
98)	2-Chloropentane	20.45	70	178040	4.6577 ppbV #	S 12
100)	n-Heptane	20.70	71	131524	4.9935 ppbV #	S 1
104)	cis-1,3-Dichloropropene	21.54	75	182133	5.4359 ppbV #	S 1
105)	Methylisobutylketone	21.64	43	338700	5.2303 ppbV #	S 1
110)	trans-1,3-Dichloropropene	22.41	75	152299	4.9679 ppbV #	S 1
111)	1,1,2-Trichloroethane	22.65	97	107280	5.2918 ppbV #	S 1
114)	Toluene	23.09	91	331694	5.5383 ppbV #	S 1
116)	2-Hexanone	23.63	43	234783	5.5338 ppbV #	S 23
119)	Dibromochloromethane	23.77	129	197747	5.4813 ppbV #	S 41
122)	1,2-Dibromoethane	24.18	107	130838	4.8565 ppbV #	S 1
125)	n-Octane	24.92	43	332245	5.5615 ppbV #	S 49
126)	Tetrachloroethene	25.02	164	120812	5.4486 ppbV	S 97
128)	Chlorobenzene	26.23	112	171096	5.4580 ppbV #	S 1
129)	Ethylbenzene	26.98	91	361435	5.9759 ppbV	S 97
130)	m/p-Xylene	27.35	91	618153m	11.7762 ppbV	S
131)	Bromoform	27.38	173	121906	5.5679 ppbV #	S 1
134)	Styrene	28.02	104	145749	5.8753 ppbV #	S 21
135)	1,1,2,2-Tetrachloroethane	28.23	83	184298	4.8142 ppbV	S 93
136)	o-Xylene	28.22	91	326973	6.0592 ppbV	S 89
140)	n-Nonane	28.84	43	304785	6.0242 ppbV #	S 72
142)	Isopropylbenzene	29.45	105	464413	5.5665 ppbV	S 100
145)	o/m-Chlorotoluene	30.41	91	242927	6.5343 ppbV #	S 1
147)	n-Propylbenzene	30.56	91	396526	5.0506 ppbV #	S 34

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082905.D Vial: 1
Acq On : 29 Aug 2011 4:07 pm Operator: KRW
Sample : 11H0404-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:19 19111 Quant Results File: RA110824.RES

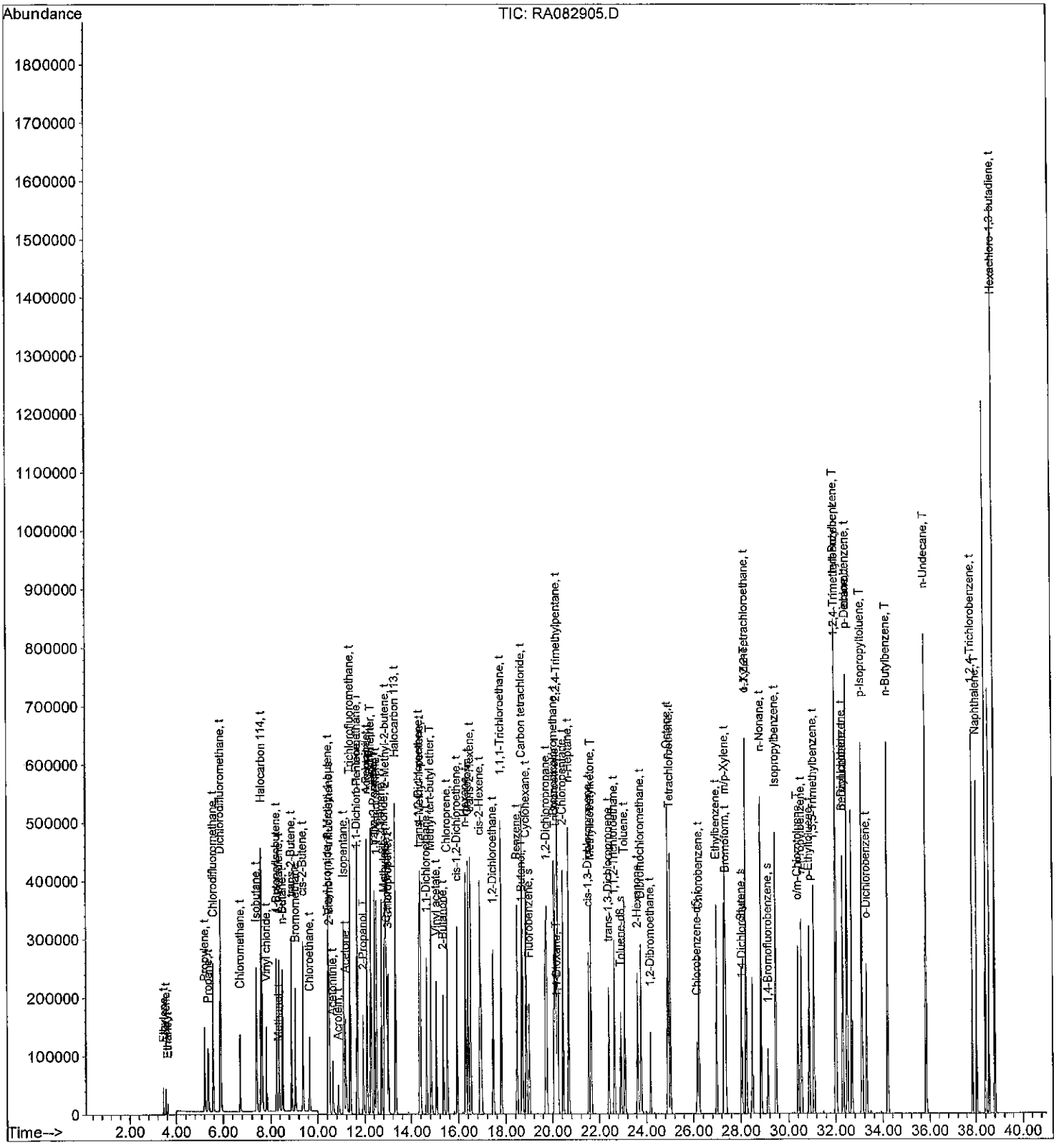
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
149)	p-Ethyltoluene	30.90	105	304974	5.2524	ppbV		S	88
150)	1,3,5-Trimethylbenzene	31.09	105	337250	4.9883	ppbV		S	85
153)	1,2,4-Trimethylbenzene	32.02	105	296740	4.8587	ppbV	#	S	1
154)	tert-Butylbenzene	32.00	119	483748	6.1259	ppbV	#	S	58
156)	Benzyl chloride	32.30	91	264138	7.4408	ppbV		S	99
157)	m-Dichlorobenzene	32.30	146	105590	4.1798	ppbV		S	85
158)	n-Decane	32.47	57	310882	5.0885	ppbV		S	73
159)	p-Dichlorobenzene	32.48	146	106131	4.3800	ppbV		S	85
162)	p-Isopropyltoluene	33.11	119	531303	7.4492	ppbV	#	S	43
163)	o-Dichlorobenzene	33.29	146	135298	4.8703	ppbV		S	93
169)	n-Butylbenzene	34.19	91	565912	8.2200	ppbV	#	S	1
171)	n-Undecane	35.84	57	466964	5.5258	ppbV		S	74
172)	1,2,4-Trichlorobenzene	37.85	180	201786	6.7309	ppbV	#	S	100
173)	Naphthalene	38.04	128	457886	4.9099	ppbV		S	95
174)	Hexachloro-1,3-butadiene	38.81	225	312612	6.9641	ppbV		S	97

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082905.D Vial: 1
Acq On : 29 Aug 2011 4:07 pm Operator: KRW
Sample : 11H0404-BS1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:19 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082906.D Vial: 1
Acq On : 29 Aug 2011 5:08 pm Operator: KRW
Sample : 11H0404-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:23 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	206830	2.0000 ppbV	0.02
82) Chlorobenzene-d5	26.16	117	77625	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	79797	1.8878 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.50%	
65) Fluorobenzene	19.00	96	175945	1.7491 ppbV	0.01
Spiked Amount 2.000			Recovery	= 87.50%	
113) Toluene-d8	22.92	98	136330	2.0016 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
115) 1,4-Dichlorobutane	28.06	90	11814	2.1494 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.50%	
141) 1,4-Bromofluorobenzene	29.14	95	54379	2.1310 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	

Target Compounds						Qvalue
3) Ethylene	3.44	26	30871	4.7055 ppbV	S	95
4) Acetylene	3.54	26	47830	3.9056 ppbV	S	90
5) Ethane	3.63	26	12149	3.3135 ppbV	S	99
7) Propylene	5.21	41	84413	4.5606 ppbV	S	96
8) Chlorodifluoromethane	5.57	51	283164	5.1952 ppbV	S	97
9) Propane	5.37	43	36474	4.2903 ppbV	S	91
10) Dichlorodifluoromethane	5.88	85	497731	4.7135 ppbV	S	98
11) Chloromethane	6.73	50	122610	4.7291 ppbV	S	97
12) Isobutane	7.38	43	233942	4.3586 ppbV	S	93
13) Halocarbon 114	7.59	85	374671	3.9958 ppbV	S	90
15) Vinyl chloride	7.81	62	133642	4.5288 ppbV	S	99
16) 1-Butene/Isobutene	8.25	41	165428	4.3761 ppbV	S	75
17) 1,3-Butadiene	8.37	39	117931	4.9897 ppbV	S	96
18) n-Butane	8.52	43	200729	4.2901 ppbV	S	93
19) Methanol	8.33	31	22921m	3.8480 ppbV	S	
20) trans-2-Butene	8.90	41	153990	4.3993 ppbV	S	89
23) Bromomethane	9.06	94	122648	4.5131 ppbV	S	92
24) cis-2-Butene	9.37	41	163817	4.7239 ppbV	S	91
25) Chloroethane	9.64	64	69861	4.4779 ppbV	S	92
26) Vinyl bromide	10.43	106	121331	4.4955 ppbV	S	85
27) 3-Methyl-1-butene	10.46	55	334352	4.9200 ppbV	S	80
29) Acetonitrile	10.64	41	102156m	4.6065 ppbV	S	
30) Acrolein	10.86	56	47684	4.7684 ppbV #	S	42
31) Isopentane	11.09	41	163275	4.6630 ppbV #	S	1
32) Trichlorofluoromethane	11.36	101	483510	5.0605 ppbV #	S	71
33) 1-Pentene	11.67	42	191090	5.1119 ppbV #	S	1
34) Acetone	11.16	43	282630m	5.2074 ppbV	S	
35) 2-Propanol	11.92	45	240555	5.8714 ppbV #	S	1
36) Acrylonitrile	12.09	52	92776	5.1195 ppbV #	S	1
37) n-Pentane	12.10	43	248013	4.9763 ppbV	S	85
38) Diethyl ether	12.28	74	66816	5.4063 ppbV #	S	1
39) Isoprene	12.27	67	166856	4.9444 ppbV	S	95
40) trans-2-Pentene	12.43	55	280197	4.9494 ppbV #	S	1
41) 1,1-Dichloroethene	12.51	61	285345	5.2686 ppbV #	S	10
42) cis-2-Pentene	12.72	55	280593	5.0052 ppbV #	S	1

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082906.D Vial: 1
Acq On : 29 Aug 2011 5:08 pm Operator: KRW
Sample : 11H0404-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:23 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Methylene chloride	12.84	49	188927	5.2028 ppbV # S	1
44)	2-Methyl-2-butene	12.91	55	295574	5.1664 ppbV # S	1
45)	Carbon Disulfide	12.95	76	340568	4.0983 ppbV S	95
46)	3-Chloropropene	13.01	41	160044	4.8037 ppbV # S	1
47)	Halocarbon 113	13.31	151	195671	5.1916 ppbV # S	100
50)	trans-1,2-Dichloroethene	14.34	61	224832	4.9163 ppbV # S	1
51)	4-Methyl-1-pentene	14.38	43	213938	5.0394 ppbV S	83
53)	1,1-Dichloroethane	14.63	63	283709	4.4519 ppbV # S	100
56)	Methyl tert-butyl ether	14.81	73	411672	4.6027 ppbV # S	1
58)	Vinyl acetate	15.05	43	389500	4.5086 ppbV # S	47
62)	2-Butanone	15.34	43	301836	4.5808 ppbV # S	1
63)	Chloroprene	15.51	53	284405	4.5990 ppbV S	76
68)	cis-1,2-Dichloroethene	15.94	61	228285	4.6881 ppbV # S	1
71)	n-Hexane	16.30	57	215353	4.2966 ppbV # S	1
72)	Chloroform	16.41	83	356066	4.5595 ppbV # S	1
74)	trans-2-Hexene	16.51	55	286123	4.6132 ppbV # S	1
77)	cis-2-Hexene	16.91	55	234662	4.3164 ppbV S	94
79)	1,2-Dichloroethane	17.45	62	313914	5.0373 ppbV S	88
81)	1,1,1-Trichloroethane	17.81	97	408675	4.7476 ppbV # S	1
84)	Benzene	18.48	78	332903	5.1398 ppbV S	74
85)	Carbon tetrachloride	18.71	117	361904	4.8789 ppbV # S	1
86)	1-Butanol	18.68	56	83694	4.1307 ppbV S	96
87)	Cyclohexane	18.87	56	219007	4.8637 ppbV # S	1
92)	1,2-Dichloropropane	19.75	63	135097	5.3049 ppbV # S	1
93)	Bromodichloromethane	20.08	83	357272	5.6406 ppbV # S	1
94)	Trichloroethene	20.14	130	136486	5.0605 ppbV # S	1
95)	1,4-Dioxane	20.18	88	35963	3.4207 ppbV # S	1
97)	2,2,4-Trimethylpentane	20.22	57	736470	4.8279 ppbV S	91
98)	2-Chloropentane	20.46	70	172594	4.6204 ppbV # S	13
100)	n-Heptane	20.70	71	127362	4.9482 ppbV # S	1
104)	cis-1,3-Dichloropropene	21.54	75	188426	5.7547 ppbV # S	1
105)	Methylisobutylketone	21.64	43	329883	5.2129 ppbV # S	1
110)	trans-1,3-Dichloropropene	22.41	75	161597	5.3940 ppbV # S	1
111)	1,1,2-Trichloroethane	22.65	97	108456	5.4745 ppbV # S	1
114)	Toluene	23.09	91	328739	5.6169 ppbV # S	1
116)	2-Hexanone	23.64	43	235568	5.6817 ppbV # S	23
119)	Dibromochloromethane	23.77	129	201243	5.7082 ppbV # S	41
122)	1,2-Dibromoethane	24.17	107	140121	5.3222 ppbV # S	1
125)	n-Octane	24.92	43	322907	5.5312 ppbV # S	49
126)	Tetrachloroethene	25.02	164	119949	5.5358 ppbV S	96
128)	Chlorobenzene	26.23	112	170484	5.5652 ppbV # S	1
129)	Ethylbenzene	26.98	91	350875	5.9365 ppbV S	97
130)	m/p-Xylene	27.35	91	609553m	11.8830 ppbV S	
131)	Bromoform	27.37	173	122836	5.7411 ppbV # S	1
134)	Styrene	28.02	104	144269	5.9512 ppbV # S	22
135)	1,1,2,2-Tetrachloroethane	28.22	83	179385	4.7951 ppbV S	93
136)	o-Xylene	28.22	91	321579	6.0982 ppbV S	88
140)	n-Nonane	28.84	43	295507	5.9769 ppbV # S	71
142)	Isopropylbenzene	29.46	105	451825	5.5419 ppbV S	100
145)	o/m-Chlorotoluene	30.41	91	237244	6.5301 ppbV # S	1
147)	n-Propylbenzene	30.56	91	384207	5.0077 ppbV # S	34

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

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082906.D Vial: 1
Acq On : 29 Aug 2011 5:08 pm Operator: KRW
Sample : 11H0404-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:23 19111 Quant Results File: RA110824.RES

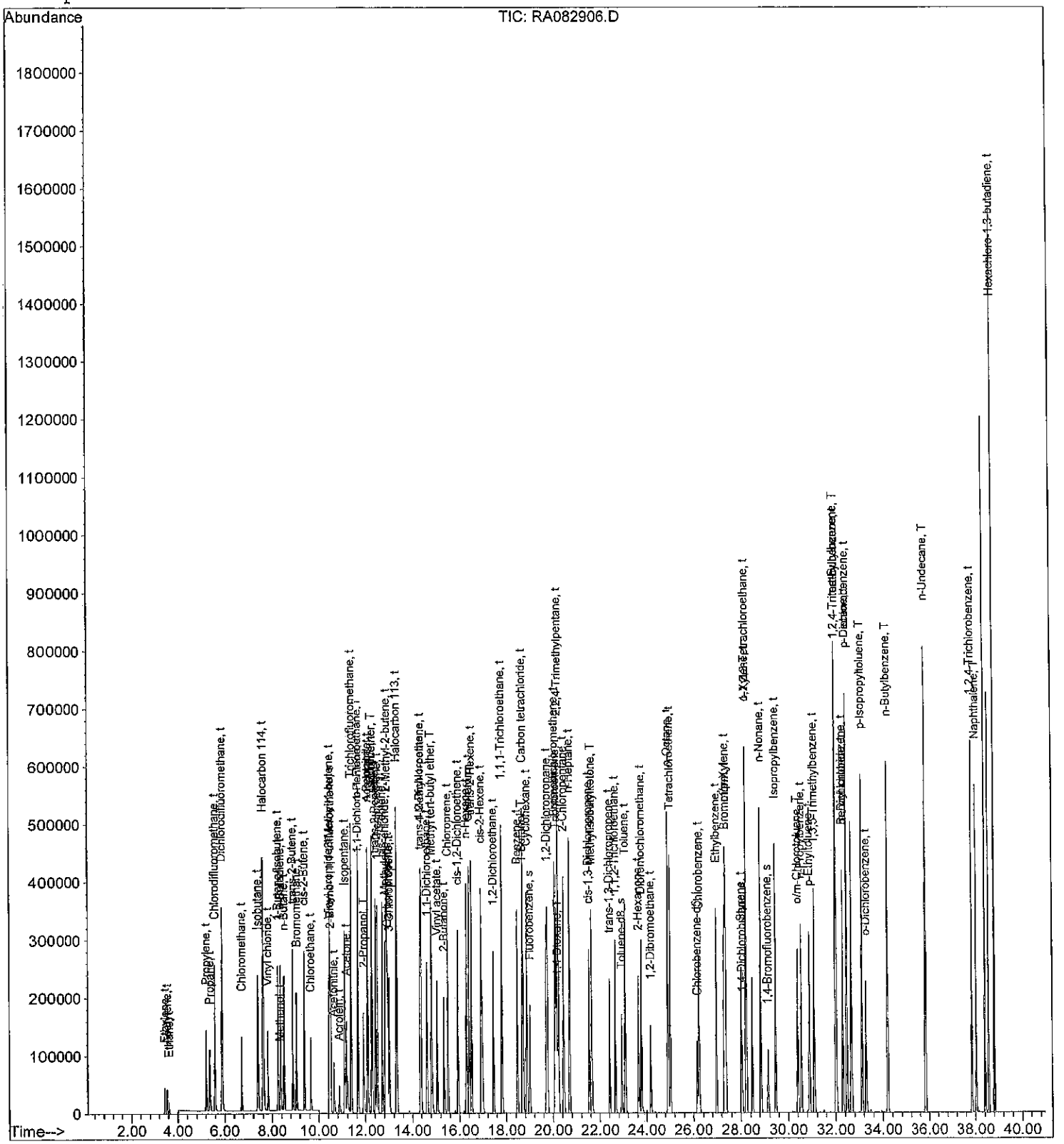
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
149)	p-Ethyltoluene	30.90	105	296497	5.2254	ppbV		S	89
150)	1,3,5-Trimethylbenzene	31.09	105	327968	4.9641	ppbV		S	86
153)	1,2,4-Trimethylbenzene	32.02	105	284945	4.7743	ppbV	#	S	1
154)	tert-Butylbenzene	32.00	119	475359	6.1599	ppbV	#	S	59
156)	Benzyl chloride	32.30	91	240264	6.9260	ppbV		S	99
157)	m-Dichlorobenzene	32.30	146	102312	4.1444	ppbV		S	85
158)	n-Decane	32.47	57	295282	4.9457	ppbV		S	72
159)	p-Dichlorobenzene	32.48	146	100027	4.2243	ppbV		S	83
162)	p-Isopropyltoluene	33.11	119	491234	7.0479	ppbV	#	S	43
163)	o-Dichlorobenzene	33.29	146	122309	4.5054	ppbV		S	92
169)	n-Butylbenzene	34.19	91	545005	8.1008	ppbV	#	S	1
171)	n-Undecane	35.84	57	457614	5.5413	ppbV		S	73
172)	1,2,4-Trichlorobenzene	37.85	180	197178	6.7305	ppbV	#	S	100
173)	Naphthalene	38.03	128	447670	4.9122	ppbV		S	95
174)	Hexachloro-1,3-butadiene	38.81	225	313258	7.1411	ppbV		S	97

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082906.D Vial: 1
Acq On : 29 Aug 2011 5:08 pm Operator: KRW
Sample : 11H0404-BSD1,,,,0.01046;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:23 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082907.D Vial: 1
Acq On : 29 Aug 2011 6:08 pm Operator: KRW
Sample : 11H0404-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:25 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

8-30-11

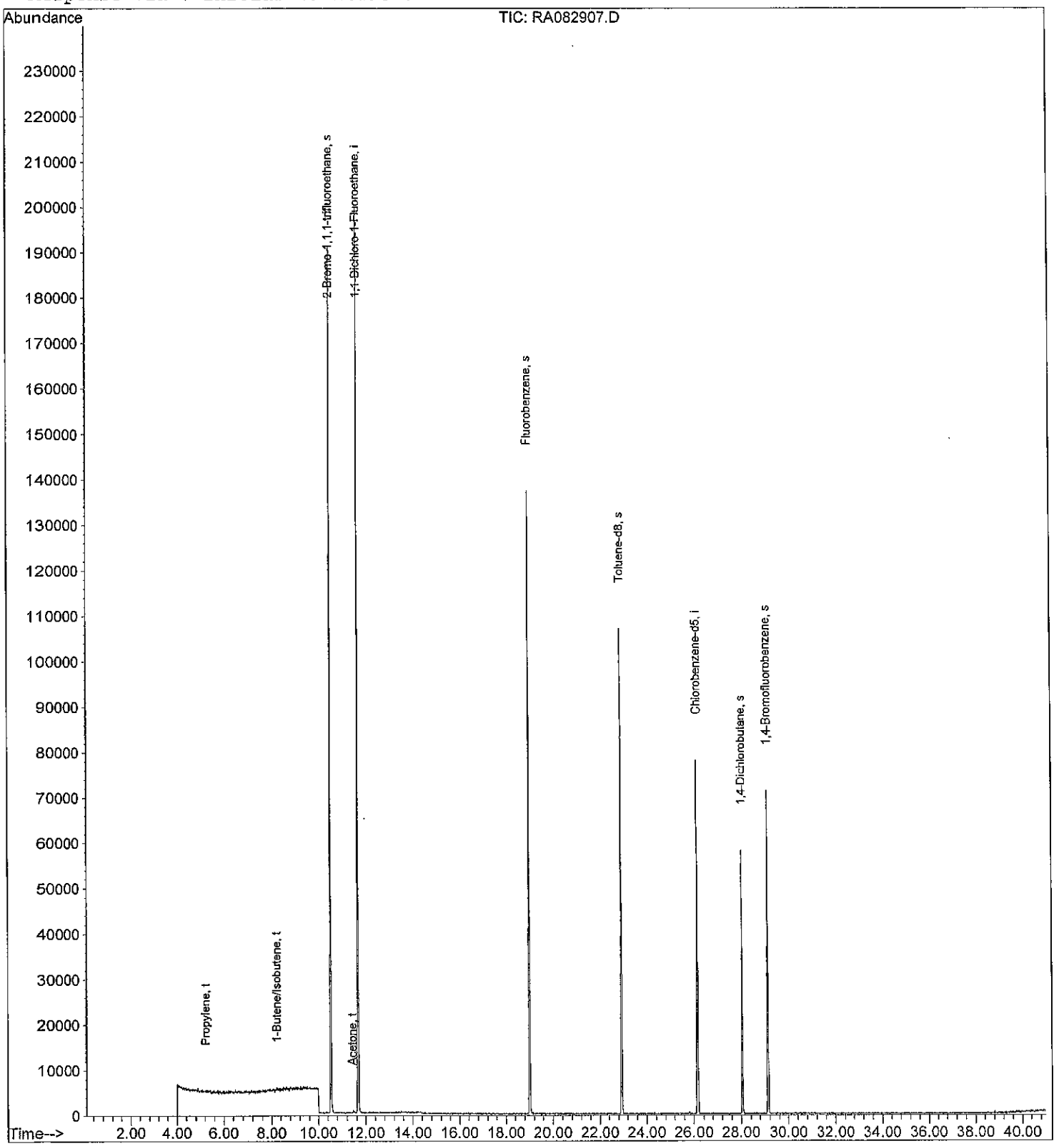
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	197991	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	46917	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	74760	1.8476 ppbV	0.03
Spiked Amount 2.000			Recovery	= 92.50%	
65) Fluorobenzene	19.01	96	124355	1.2915 ppbV	0.02
Spiked Amount 2.000			Recovery	= 64.50%	
113) Toluene-d8	22.92	98	83717	2.0336 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	
115) 1,4-Dichlorobutane	28.05	90	7375	2.2200 ppbV	0.00
Spiked Amount 2.000			Recovery	= 111.00%	
141) 1,4-Bromofluorobenzene	29.13	95	32818	2.1278 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	

Target Compounds					Qvalue
7) Propylene	5.22	41	139m	0.0078 ppbV	
16) 1-Butene/Isobutene	8.23	41	341	0.0094 ppbV #	14
34) Acetone	11.42	43	992m	0.0191 ppbV	

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082907.D Vial: 1
Acq On : 29 Aug 2011 6:08 pm Operator: KRW
Sample : 11H0404-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:25 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082908.D Vial: 1
Acq On : 29 Aug 2011 7:09 pm Operator: KRW
Sample : AUH0047-01,,,,;TCESL Inst : GCMS-R1
Misc : 2.7185,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:39 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	190148	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	44147	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	65957	1.6973 ppbV	0.03
Spiked Amount 2.000			Recovery	= 85.00%	
65) Fluorobenzene	19.01	96	109967	1.1891 ppbV	0.02
Spiked Amount 2.000			Recovery	= 59.50%	
113) Toluene-d8	22.93	98	75549	1.9503 ppbV	0.01
Spiked Amount 2.000			Recovery	= 97.50%	
115) 1,4-Dichlorobutane	28.05	90	6079	1.9447 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.00%	
141) 1,4-Bromofluorobenzene	29.14	95	29933	2.0625 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	

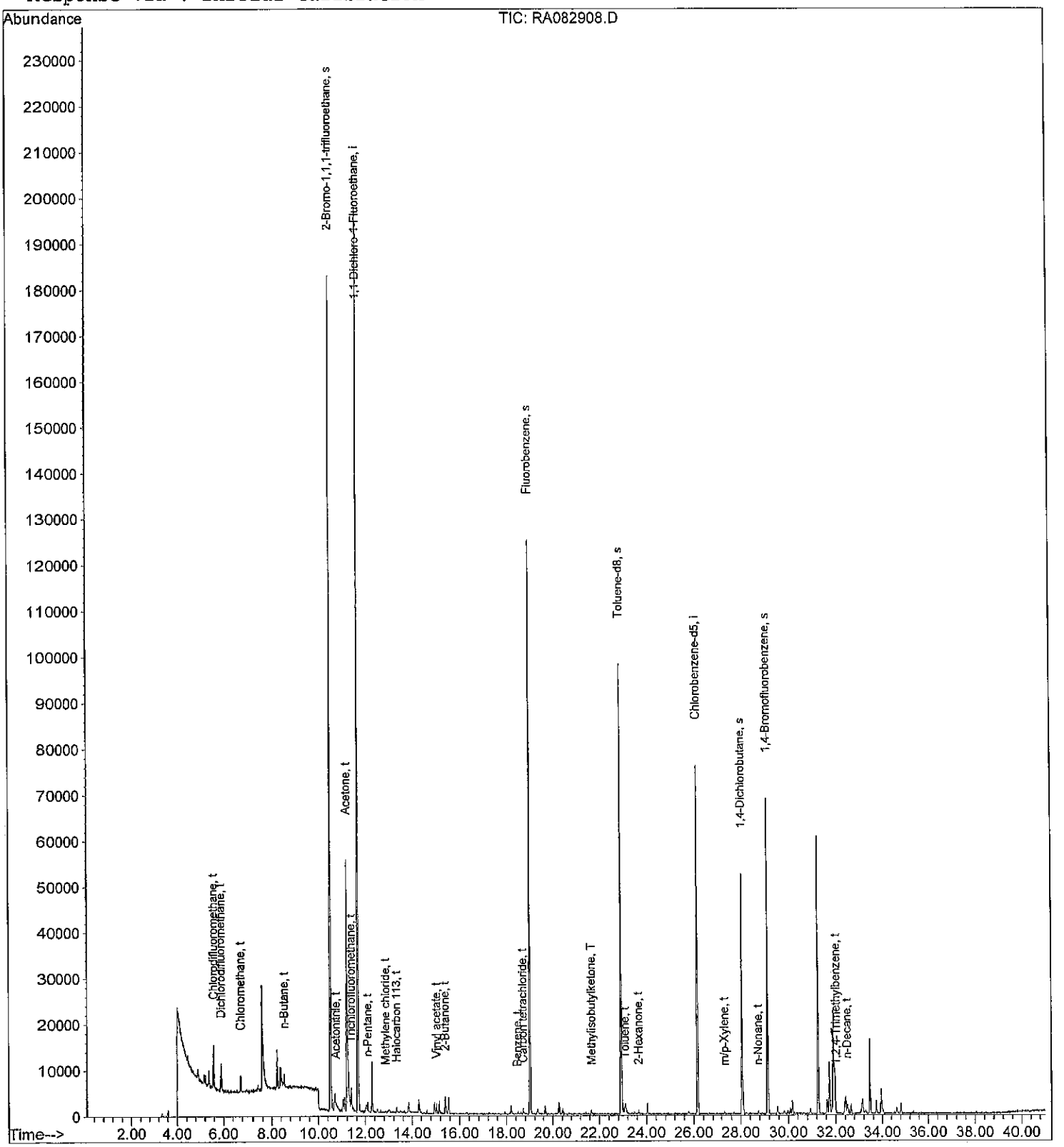
Target Compounds					Qvalue
8) Chlorodifluoromethane	5.58	51	10821	0.2160 ppbV S	89
10) Dichlorodifluoromethane	5.90	85	8287	0.0854 ppbV S	90
11) Chloromethane	6.73	50	2952	0.1238 ppbV S	95
18) n-Butane	8.53	43	1694	0.0394 ppbV S	90
29) Acetonitrile	10.75	41	521m	0.0256 ppbV S	
32) Trichlorofluoromethane	11.37	101	4098	0.0467 ppbV # S	81
34) Acetone	11.19	43	116736m	2.3395 ppbV S	
37) n-Pentane	12.11	43	1638	0.0357 ppbV S	80
43) Methylene chloride	12.87	49	326	0.0098 ppbV # S	1
47) Halocarbon 113	13.34	151	396	0.0114 ppbV # S	100
58) Vinyl acetate	15.04	43	3986	0.0502 ppbV # S	48
62) 2-Butanone	15.40	43	7310	0.1207 ppbV # S	1
84) Benzene	18.48	78	618	0.0168 ppbV S	48
85) Carbon tetrachloride	18.71	117	988	0.0234 ppbV # S	14
105) Methylisobutylketone	21.68	43	997	0.0277 ppbV # S	1
114) Toluene	23.09	91	1270	0.0382 ppbV # S	1
116) 2-Hexanone	23.66	43	618	0.0262 ppbV # S	46
130) m/p-Xylene	27.31	91	551m	0.0189 ppbV S	
140) n-Nonane	28.75	43	745m	0.0265 ppbV S	
153) 1,2,4-Trimethylbenzene	32.02	105	127m	0.0037 ppbV S	
158) n-Decane	32.48	57	1201	0.0354 ppbV # S	74

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

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082908.D Vial: 1
Acq On : 29 Aug 2011 7:09 pm Operator: KRW
Sample : AUH0047-01,,,,;TCESL Inst : GCMS-R1
Misc : 2.7185,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:39 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082909.D Vial: 1
Acq On : 29 Aug 2011 8:09 pm Operator: KRW
Sample : AUH0047-05,,,,;TCESL Inst : GCMS-R1
Misc : 2.6646,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:41 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

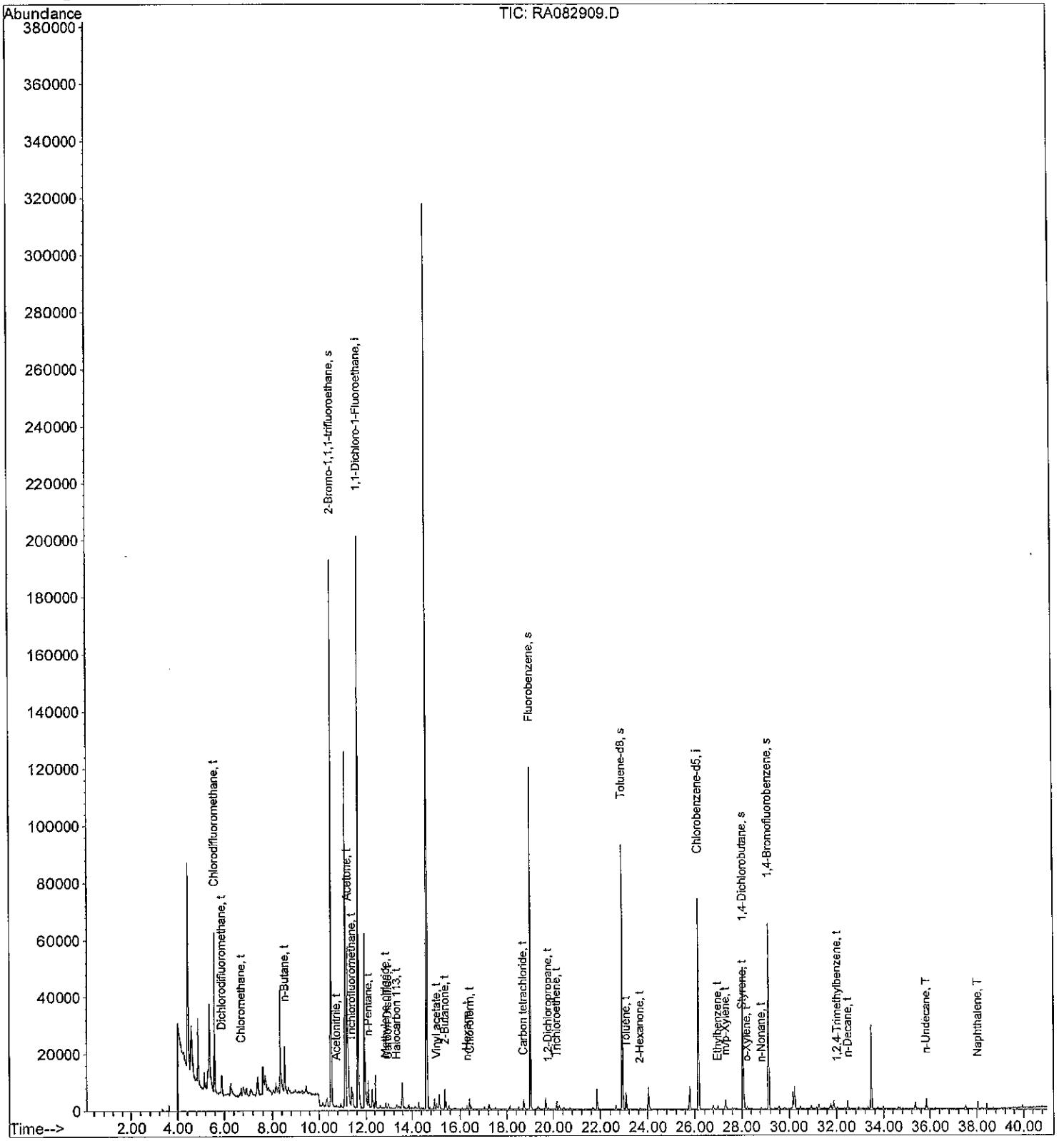
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	195627	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	42209	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	63489	1.5880 ppbV	0.03
Spiked Amount 2.000			Recovery	= 79.50%	
65) Fluorobenzene	19.01	96	104246	1.0957 ppbV	0.02
Spiked Amount 2.000			Recovery	= 55.00%	
113) Toluene-d8	22.93	98	72473	1.9568 ppbV	0.01
Spiked Amount 2.000			Recovery	= 98.00%	
115) 1,4-Dichlorobutane	28.06	90	5894	1.9721 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.50%	
141) 1,4-Bromofluorobenzene	29.13	95	29503	2.1262 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	

Target Compounds					Qvalue
8) Chlorodifluoromethane	5.58	51	62080	1.2042 ppbV	S 93
10) Dichlorodifluoromethane	5.89	85	9591	0.0960 ppbV	S 93
11) Chloromethane	6.73	50	2076	0.0847 ppbV	S 93
18) n-Butane	8.53	43	11038	0.2494 ppbV	S 83
29) Acetonitrile	10.74	41	363	0.0173 ppbV	S 66
32) Trichlorofluoromethane	11.37	101	5423	0.0600 ppbV #	S 62
34) Acetone	11.18	43	103204m	2.0104 ppbV	S
37) n-Pentane	12.10	43	6783	0.1439 ppbV	S 90
43) Methylene chloride	12.86	49	922	0.0268 ppbV #	S 1
45) Carbon Disulfide	12.95	76	1480	0.0188 ppbV	S 78
47) Halocarbon 113	13.34	151	555	0.0156 ppbV #	S 100
58) Vinyl acetate	15.03	43	3457m	0.0423 ppbV	S
62) 2-Butanone	15.38	43	11900	0.1909 ppbV #	S 1
71) n-Hexane	16.31	57	337	0.0071 ppbV #	S 1
72) Chloroform	16.42	83	3044	0.0412 ppbV #	S 1
85) Carbon tetrachloride	18.70	117	1051	0.0261 ppbV #	S 57
92) 1,2-Dichloropropane	19.77	63	84	0.0061 ppbV #	S 1
94) Trichloroethene	20.13	130	846	0.0577 ppbV #	S 1
114) Toluene	23.09	91	5532	0.1738 ppbV #	S 1
116) 2-Hexanone	23.66	43	418	0.0185 ppbV #	S 3
129) Ethylbenzene	26.98	91	1758	0.0547 ppbV	S 81
130) m/p-Xylene	27.31	91	4017	0.1440 ppbV	S 98
134) Styrene	28.02	104	301	0.0228 ppbV #	S 42
136) o-Xylene	28.21	91	1093	0.0381 ppbV	S 61
140) n-Nonane	28.84	43	283m	0.0105 ppbV	S
153) 1,2,4-Trimethylbenzene	32.02	105	559	0.0172 ppbV #	S 1
158) n-Decane	32.48	57	1229m	0.0379 ppbV	S
171) n-Undecane	35.84	57	1606	0.0358 ppbV	S 71
173) Naphthalene	38.03	128	2392	0.0483 ppbV	S 83

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082909.D Vial: 1
Acq On : 29 Aug 2011 8:09 pm Operator: KRW
Sample : AUH0047-05,,,,;TCESL Inst : GCMS-R1
Misc : 2.6646,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:41 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082910.D Vial: 1
Acq On : 29 Aug 2011 9:09 pm Operator: KRW
Sample : 11H0404-DUP1,,,,;TCESL Inst : GCMS-R1
Misc : 2.6646,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:44 19111 Quant Results File: RA110824.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

DAH 8-30-11

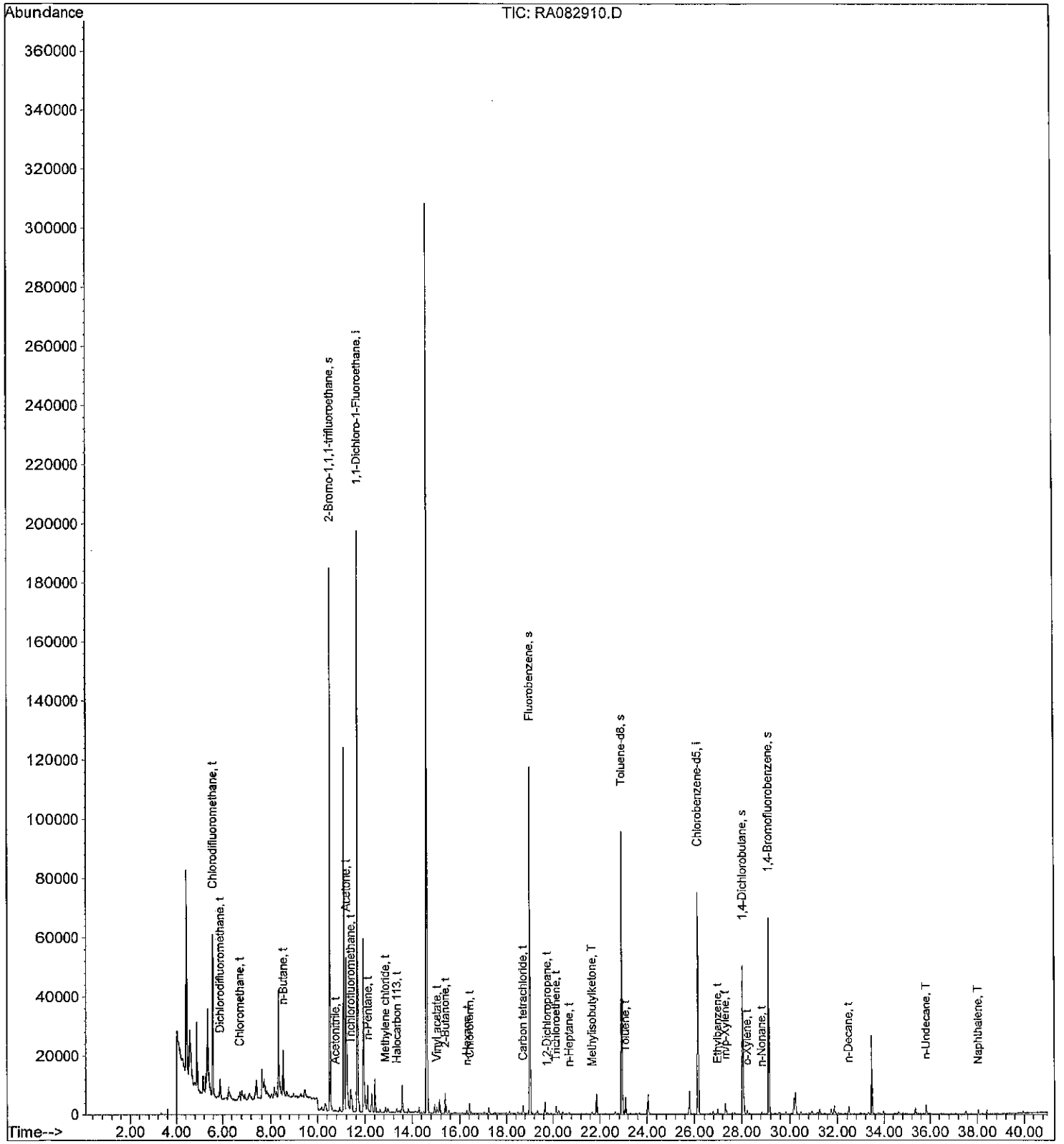
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.65	81	192508	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.16	117	41454	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.51	83	61542	1.5642 ppbV	0.02
Spiked Amount 2.000			Recovery	= 78.00%	
65) Fluorobenzene	19.01	96	102057	1.0901 ppbV	0.02
Spiked Amount 2.000			Recovery	= 54.50%	
113) Toluene-d8	22.92	98	71052	1.9534 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
115) 1,4-Dichlorobutane	28.05	90	5841	1.9899 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
141) 1,4-Bromofluorobenzene	29.13	95	29456	2.1615 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.57	51	60277	1.1882 ppbV	S	93
10) Dichlorodifluoromethane	5.89	85	9502	0.0967 ppbV	S	92
11) Chloromethane	6.73	50	2016	0.0835 ppbV	S	88
18) n-Butane	8.53	43	10491	0.2409 ppbV	S	82
29) Acetonitrile	10.74	41	366m	0.0177 ppbV	S	
32) Trichlorofluoromethane	11.37	101	5442	0.0612 ppbV #	S	57
34) Acetone	11.18	43	99693m	1.9735 ppbV	S	
37) n-Pentane	12.11	43	7051	0.1520 ppbV	S	87
43) Methylene chloride	12.86	49	868	0.0257 ppbV #	S	1
47) Halocarbon 113	13.34	151	323	0.0092 ppbV #	S	100
58) Vinyl acetate	15.03	43	3986m	0.0496 ppbV	S	
62) 2-Butanone	15.38	43	11537	0.1881 ppbV #	S	1
71) n-Hexane	16.31	57	184	0.0039 ppbV #	S	1
72) Chloroform	16.42	83	2765	0.0380 ppbV #	S	1
85) Carbon tetrachloride	18.71	117	949	0.0240 ppbV #	S	3
92) 1,2-Dichloropropane	19.75	63	88	0.0065 ppbV #	S	1
94) Trichloroethene	20.14	130	898	0.0623 ppbV #	S	1
100) n-Heptane	20.70	71	42	0.0031 ppbV #	S	1
105) Methylisobutylketone	21.68	43	695	0.0206 ppbV #	S	1
114) Toluene	23.09	91	5167	0.1653 ppbV #	S	1
129) Ethylbenzene	26.98	91	1587	0.0503 ppbV	S	90
130) m/p-Xylene	27.30	91	3977	0.1452 ppbV	S	94
136) o-Xylene	28.23	91	1205m	0.0428 ppbV	S	
140) n-Nonane	28.84	43	97	0.0037 ppbV #	S	57
158) n-Decane	32.46	57	1127	0.0353 ppbV	S	69
171) n-Undecane	35.84	57	1459	0.0331 ppbV #	S	72
173) Naphthalene	38.04	128	1912	0.0393 ppbV	S	95

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082910.D Vial: 1
Acq On : 29 Aug 2011 9:09 pm Operator: KRW
Sample : 11H0404-DUP1,,,,;TCESL Inst : GCMS-R1
Misc : 2.6646,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:44 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082915.D Vial: 1
Acq On : 30 Aug 2011 2:10 am Operator: KRW
Sample : AUH0047-03RE1,,,,;TCESL Inst : GCMS-R1
Misc : 2.6784,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:45 19111 Quant Results File: RA110824.RES

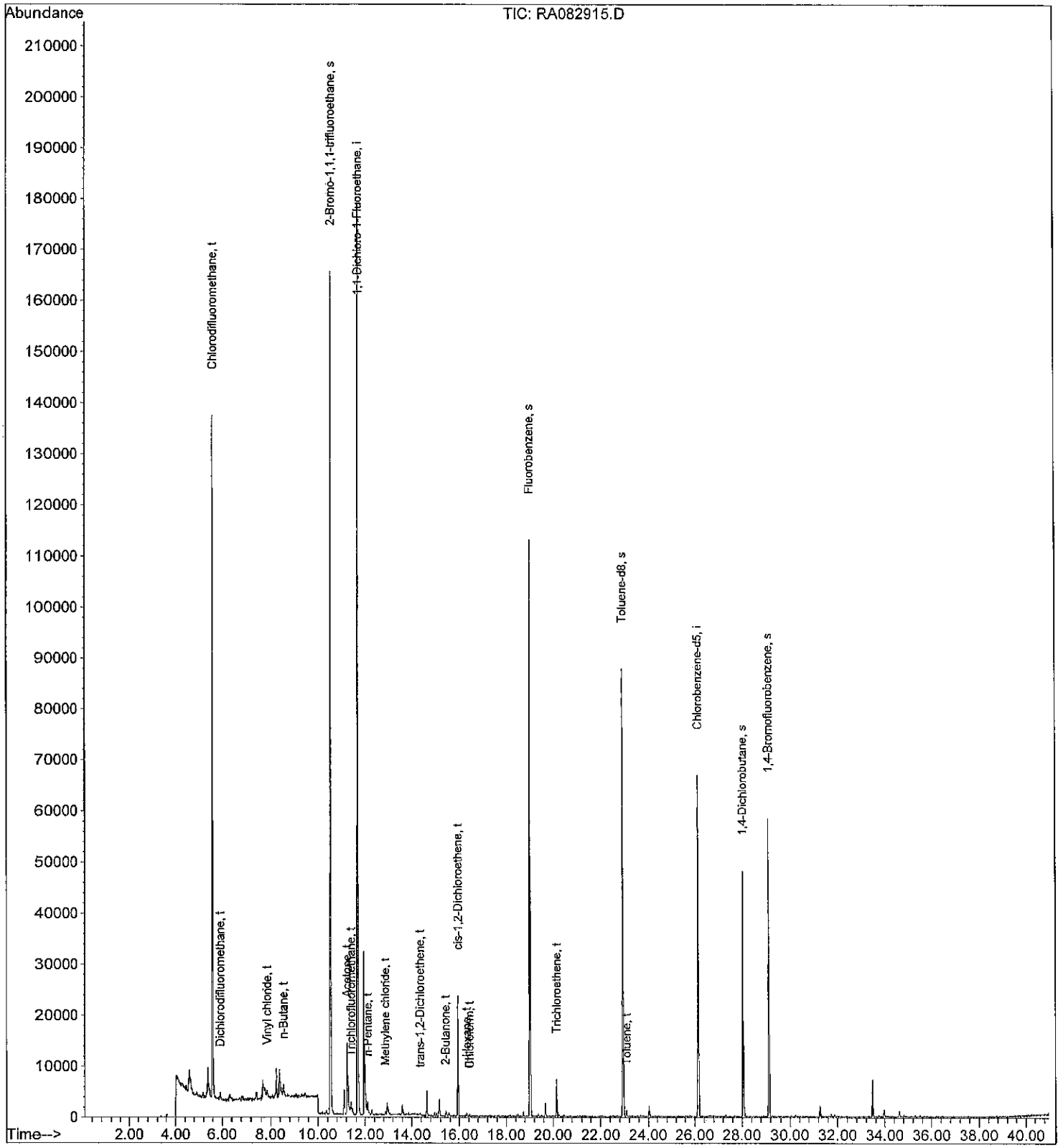
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration
DataAcq Meth : RA110824

Review for: C DFM
8-30-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.66	81	176191	2.0000 ppbV	0.04
82) Chlorobenzene-d5	26.16	117	36609	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.52	83	57833	1.6061 ppbV	0.04
Spiked Amount 2.000			Recovery	= 80.50%	
65) Fluorobenzene	19.01	96	94161	1.0989 ppbV	0.02
Spiked Amount 2.000			Recovery	= 55.00%	
113) Toluene-d8	22.92	98	65278	2.0322 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	
115) 1,4-Dichlorobutane	28.06	90	5565	2.1468 ppbV	0.01
Spiked Amount 2.000			Recovery	= 107.50%	
141) 1,4-Bromofluorobenzene	29.13	95	26362	2.1905 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.58	51	148354	3.1952 ppbV	S	92
10) Dichlorodifluoromethane	5.90	85	1833	0.0204 ppbV	S	85
15) Vinyl chloride	7.84	62	544	0.0216 ppbV	S	89
18) n-Butane	8.54	43	1779	0.0446 ppbV	S	91
32) Trichlorofluoromethane	11.39	101	1895	0.0233 ppbV #	S	90
34) Acetone	11.23	43	30507m	0.6598 ppbV	S	
37) n-Pentane	12.12	43	1866	0.0440 ppbV	S	79
43) Methylene chloride	12.87	49	566	0.0183 ppbV #	S	1
50) trans-1,2-Dichloroethene	14.37	61	204	0.0052 ppbV #	S	1
62) 2-Butanone	15.41	43	2029	0.0361 ppbV #	S	1
68) cis-1,2-Dichloroethene	15.95	61	15827	0.3815 ppbV #	S	1
71) n-Hexane	16.31	57	166	0.0039 ppbV #	S	1
72) Chloroform	16.43	83	90	0.0014 ppbV #	S	1
94) Trichloroethene	20.14	130	2170	0.1706 ppbV #	S	1
114) Toluene	23.10	91	1204	0.0436 ppbV #	S	1

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

Data File : O:\MSVOC7\HPCHEM\7\DATA\R110829\RA082915.D Vial: 1
Acq On : 30 Aug 2011 2:10 am Operator: KRW
Sample : AUH0047-03RE1,,,,;TCESL Inst : GCMS-R1
Misc : 2.6784,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 30 16:45 19111 Quant Results File: RA110824.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110824.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 12:26:45 2011
Response via : Initial Calibration