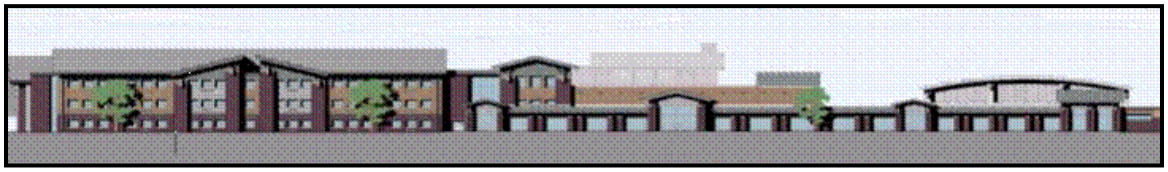
Sampling Results for the Keith Middle School Foundation Vent Stack and Indoor Air for Polychlorinated Biphenyls and Volatile Organic Compounds

December 2011 Monitoring Round



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TRC Project No. 115058

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EXECUTIVE SUMMARY

TRC Environmental Corporation (TRC) of Lowell, Massachusetts was retained by the City of New Bedford (the City) to provide sampling support in conducting foundation vent stack and indoor air sampling for polychlorinated biphenyls (PCBs) and volatile organic compounds (VOCs) at the Keith Middle School (KMS) in New Bedford, Massachusetts. This report documents the indoor air and vent stack sampling performed by TRC during December 2011.

The sampling and analysis of vent stack and indoor air for KMS is described in the approved *Long-Term Monitoring and Maintenance Plan* (LTMMIP), revision 4, dated October 20, 2006. The indoor air quality sampling program involved the collection of one indoor air quality sample from the ground floor of each of the three school building sections (Building A, Building B, and Building C). Concurrently with the indoor air quality sampling, air sampling of the sub-slab foundation ventilation system was performed from four selected rooftop vent stacks, including VS-1 which vents building Section A west side (near the front of the school), VS-4 which vents building Section A east side (near the front of the school), VS-8 which vents Section B (near the auditorium), and VS-12 which vents Section C (the gymnasium). The passive sub-slab ventilation system was installed to allow any sub-slab soil gases to migrate from beneath the vapor barrier to the vent stacks, installed through the school building roof. Air samples were also collected immediately outside of the school during this round to provide comparative background results.

Following collection, the samples were analyzed for VOCs according to EPA Method TO-15 (VOCs in Air) by Alpha Woods Hole Labs of Westborough, Massachusetts and PCBs according to EPA Method 680 (PCB Homologues) by Northeast Analytical Labs of Schenectady, New York. Though this PCB method was not specified in the LTMMIP, the homologue analytical method is a reliable analytical method to quantify total PCBs. By quantifying PCB homologues, total PCB air data gathered at the KMS are directly comparable to total PCB air data gathered at New Bedford High School.

During the December 2011 sampling round, VOCs were detected in indoor air and vent stack air samples, and PCBs were detected in the three indoor air samples. However, PCBs were not detected in any of the vent stack air samples or in the outdoor air background samples. It should be noted that PCB vent stack air and outdoor air detection limits were well below applicable criteria. The presence of VOCs in vent stack air samples is an expected finding for a sub-slab ventilation system and indicates that the passive ventilation system is performing as designed. The presence of VOCs in vent stack air may also be indicative of off-gassing from the venting system components in addition to subsurface VOCs entering the venting system.

VOCs are present in indoor air due to off-gassing from building materials and the storage and use of cleaners, adhesives, paints, and other VOC-containing products indoors at the school. Detected concentrations for PCBs in indoor air samples were generally consistent with urban ambient air background levels. Based on the total PCB indoor air results collected between August 2006 and December 2011, it appears that there is variability in indoor air concentrations and the higher concentrations detected in April 2009, August 2010 and April 2011 relative to previous sampling rounds are not part of a trend. Levels of PCBs and VOCs detected in indoor

air demonstrate fluctuations in measured concentrations over time due to: 1) the degree of building air exchange that occurs during normal school operation (i.e., open conditions) versus vacation periods when the school is not in session (i.e., closed conditions); 2) changes in ambient temperatures that may increase or decrease the off-gassing of VOCs from indoor building materials, as well as fugitive emissions from VOC-containing products in storage; 3) the degree to which activities within the school building (e.g., cleaning and repairs) are contributing to indoor air concentrations of VOCs; and 4) reductions in building material related VOC emission sources over time.

PCB indoor air concentrations and vent stack air detection limits were compared to site-specific outdoor air concentrations and risk-based air concentrations (RBACs). Two PCB RBACs have been developed for the KMS, assuming occupational exposures within the school (8 hours/day, 250 days/year, for 25 years). The first RBAC is the Action Level (AL; 0.05 ug/m^3), which is used as an initial indicator that PCB air concentrations above background levels have been detected. The second RBAC is the Acceptable Long-Term Average Exposure Concentration (ALTAEC; 0.3 ug/m^3), indicative of the maximum acceptable air concentration that should not be exceeded for an extended time period. PCB indoor air concentrations were also compared to EPA's Public Health Level (PHL) (USEPA, 2009; 0.45 ug/m^3) developed to be protective of indoor school air exposures for adult employees and 12 to <15 year-old students. Indoor air PCB concentrations and vent stack air PCB detection limits were lower than RBACs and EPA's PHL.

VOC data were compared to MassDEP Threshold Effects Exposure Limits (TELs) and Allowable Ambient Limits (AALs), primarily developed between 1990 and 1995, consistent with the LTMMIP. MassDEP is in the process of updating the TELs/AALs, and published updated values for tetrachloroethene in January 2012. TELs are developed to be applicable to short-term exposure concentrations (average 24-hour levels) while AALs are developed to be protective of long-term exposure concentrations (average annual levels over 30 years). Because TELs and AALs have not been updated since 1995, VOC concentrations in excess of AALs and TELs were discussed relative to EPA screening levels (EPA SLs) developed by Oak Ridge National Laboratory (2011) to be protective of continuous long-term residential exposures and shorter-term commercial exposures, using the most current toxicity information available. Because AALs, TELs, and EPA SLs (after adjustment to correspond to a lower noncancer threshold) are set at risk levels that are only a portion of the MassDEP risk management criteria, concentrations that slightly exceed (i.e., less than 5-fold) one or more comparison criteria are unlikely to be a cause for concern. VOC concentrations in excess of comparison criteria were also compared to MassDEP indoor air background values, used by MassDEP in the development of the Massachusetts Contingency Plan (MCP) numeric standards (MassDEP, 2008), and residential and commercial Indoor Air Threshold Values (IATVs; MassDEP 2011), developed by MassDEP considering typical indoor air background concentrations and MassDEP risk management criteria. MassDEP considers investigation of the vapor intrusion pathway to be unnecessary when measured indoor air concentrations are at or below IATVs, assuming that the indoor air results are consistent with other site information and that adequate sampling has been performed.

Among all indoor air samples, only one VOC, benzene, exceeded one or more comparison criteria. However, benzene was detected at concentrations below its corresponding MassDEP

indoor air background value and IATVs, and at concentrations only slightly greater than those detected in the background outdoor air samples. The LTMMIP specifies that the LSP-of-Record should submit the indoor air data to a toxicologist/risk assessor for further assessment if indoor air VOC concentrations exceed TELs, AALs, or 150% of outdoor air background concentrations. Further quantitative assessment of the indoor air data indicated that VOC concentrations were associated with a condition of no significant risk to potentially exposed individuals.

In vent stack air, five VOCs (benzene, chloroform, ethylbenzene, styrene and tetrachloroethene) exceeded risk-based comparison criteria. Even though the LTMMIP specifies that both indoor air and vent stack air VOC concentrations are to be compared to comparison criteria, this comparison is not appropriate for vent stack air results. The vent system is designed to capture VOCs potentially migrating from the subsurface beneath the KMS and transport the gases through PVC piping to outdoor air, mitigating migration through the building slab and into indoor air. Little if any human exposure to air within the vent stack system itself takes place. Air from the vent stack is vented to outdoor air on the roof of the building where the VOCs are quickly diluted and dispersed. Therefore, comparison of vent stack air results to comparison criteria developed assuming short-term (24-hour) and long-term exposure is highly conservative, if not conceptually irrelevant.

Temporal trends show that VOC concentrations have been decreasing in indoor air, suggesting that off-gassing from the newly constructed school building is diminishing over time. The sporadic detection of slightly higher VOC concentrations compared to those typically detected when the school is normally occupied is noted during the winter, spring and summer school vacation periods. During the vacation periods, the building is experiencing lower than normal air exchange and the indoor use of VOC-containing cleaning products and repair materials increases. Low-level fluctuations in PCB concentrations in indoor air are representative of background conditions. Measured concentrations of PCBs and VOCs in vent stack air are expected, and indicate that the passive ventilation system is performing as designed. Fluctuations in PCB vent stack air concentrations and decreasing vent stack air VOC concentrations suggest that the range of measured concentrations is representative of typical conditions within the subsurface ventilation system and that off-gassing from the system is diminishing over time. In addition, the human health risk calculations indicate that there is no significant risk associated with the occupancy of KMS.

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1.0 INTRODUCTION

1.1 Overview

TRC Environmental Corporation (TRC) of Lowell, Massachusetts was retained by the City of New Bedford (the City) to provide sampling support in conducting foundation vent stack and indoor air sampling for polychlorinated biphenyls (PCBs) and volatile organic compounds (VOCs) at the Keith Middle School (KMS) in New Bedford, Massachusetts. This report documents the indoor air and vent stack sampling performed by TRC during December 2011.

Soil gas sampling was performed under the location of the KMS building in December 2001. In addition to PCBs present in soil at this location, the primary VOCs detected in the soil gas samples included acetone, 2-butanone, cyclohexane, ethanol, heptane, n-hexane, and toluene. Lesser concentrations of benzene, carbon disulfide, ethylbenzene, methyl tert butyl ether, tetrachloroethene, 1,2,4-trimethylbenzene, and xylenes were also detected in soil gas samples. The results of the December 2001 soil gas sampling event were evaluated for potential adverse impacts on indoor air quality, assuming no vapor barrier was installed. Despite the conclusion that no significant risk to human health is posed by the measured soil gas concentrations, the City and School Department decided to install a vapor barrier on top of the soil beneath the school building concrete floor as an added layer of protection against intrusion of any gases that may accumulate under the building. Passive ventilation has been installed to allow any sub-slab soil gases to migrate from beneath the vapor barrier to the vent stacks, installed through the school building roof. Sampling of indoor air quality and vent stack air is conducted to confirm the proper functioning of the passive ventilation system.

PCBs and VOCs have historically been detected in both indoor air and vent stack air samples. However, concentrations of PCBs and VOCs in indoor air samples are consistently lower than those observed in vent stack air samples. VOCs are present in indoor air due to off-gassing from building materials and the storage and use of cleaners, adhesives, paints, and other VOC-containing products indoors at the school. An inventory of cleaning supplies used at KMS and their ingredients is provided in Appendix A. Concentrations of PCBs detected in indoor air samples are consistent with background levels measured in outdoor air samples collected simultaneously. Levels of PCBs and VOCs detected in indoor air fluctuate and demonstrate noticeable trends in measured concentrations over time due to: 1) the degree of building air exchange that occurs during normal school operation (i.e., open conditions) versus vacation periods when the school is not in session (i.e., closed conditions); 2) changes in ambient temperatures that may increase or decrease the off-gassing from indoor building materials, as well as fugitive emissions from VOC-containing products in storage; 3) the degree to which activities within the school building (e.g., cleaning and repairs) are contributing to indoor air concentrations; and 4) reductions in building material related VOC emission sources over time. The presence of higher levels of VOCs and PCBs in vent stack air samples is an expected finding for a sub-slab ventilation system and indicates that the passive ventilation system is performing as designed. The presence of VOCs in vent stack air may also be indicative of off-gassing from the venting system components in addition to subsurface VOCs.

Although PCBs and VOCs have been measured historically in indoor air and vent stack air samples, the concentrations detected do not pose a significant risk to human health, based on the comparison of concentrations to both background concentrations and applicable risk-based criteria (TRC, 2008a, 2008b, 2008c, 2008d, 2009a, 2009b, 2009c, 2010a, 2010b, 2011a, 2011b, 2011c and 2011d).

This report presents monitoring data collected during December 2011. The remaining sections of the report include Section 2 (Sampling Locations), Section 3 (Quality Assurance), Section 4 (Summary of Results), Section 5 (Comparison of PCB Results to Risk-Based Air Concentrations), Section 6 (Comparison of VOC Results to Comparison Criteria), Section 7 (Conclusions), and Section 8 (References). Supporting appendices include Appendix A (Summary of Field Sampling Program, Analytical Program and Quality Assurance), Appendix B (Field Sampling Data Sheets), Appendix C (Field Reduced Data), Appendix D (Equipment Calibration Sheets), Appendix E (Laboratory Data Reports), Appendix F (Laboratory Data Validation Memoranda), Appendix G (Discussion of Risk-Based Comparison Criteria) and Appendix H (Indoor Air Risk Calculations – Commercial Worker).

1.2 Scope of Work

Sampling and analysis of vent stack and indoor air is performed as part of United States Environmental Protection Agency (EPA) approved *Long-Term Monitoring and Maintenance Plan* (LTMMIP), revision 4, dated October 20, 2006. The LTMMIP was prepared by The BETA Group, Incorporated (BETA) in accordance with the August 31, 2005 *Approval for Risk-Based PCB Cleanup and Disposal under 40 CFR §761.6(c)* letter issued by EPA to the City. The LTMMIP set forth a vent stack and indoor air sampling schedule consisting of three monitoring events per year for the first year (July/August, December, April 2007), with the understanding that the City may submit a written request to EPA to reduce the indoor air sampling frequency after the first year of monitoring. However, per the order of the Mayor of the City, vent stack and indoor air monitoring took place monthly during the period of September 2006 to July/August 2007. Following the July/August sampling event, monitoring was reduced to once every four months, consistent with the LTMMIP. The December 2011 sampling event was the thirteenth subsequent event following the July/August 2007 event. Monitoring from September 2006 through February 2007 was conducted by BETA and is reported elsewhere.

The sampling program consisted of the collection of indoor air quality and vent stack samples for the analysis of PCBs and VOCs. Details concerning the sample collection procedures and analytical methods are described in Appendix A. Sampling data sheets are provided in Appendix B and the reduced data are presented in Appendix C. The calibration certifications can be found in Appendix D. Laboratory analytical results are presented in Appendix E.

Field sampling data were validated by the Field Team Leader and/or the Field Quality Control Coordinator based on their review of adherence to each approved sampling protocol and written sample collection procedure. Details concerning quality assurance procedures are described in Appendix A. The laboratory data validation memoranda can be found in Appendix F.

The following sections describe those features of the field sampling program, quality assurance/quality control (QA/QC) program, and data analysis that are specific to the December 2011 event. Generic information on the sampling and QA/QC programs and data analysis procedures can be found in Appendices A and G, respectively.

2.0 SAMPLING LOCATIONS

2.1 Indoor Air Quality Sample Locations

During the sampling event, one indoor air quality sample was collected from the ground floor of each of the three school building sections (Building A, Building B, and Building C). Each sampling location was selected to be representative of portions of the school building normally occupied by students and teachers. The Building A sampling location is located within a hallway in an area of student classrooms. The Building B sampling location is located in the school auditorium. The Building C sampling location is in a faculty dining area. These indoor air quality sampling locations have remained consistent throughout TRC's sampling program, with the exception of the December 2007 Building B sample which was collected in the school cafeteria at the request of the City. One sample and a duplicate were also collected immediately outside of the school to provide comparative background results for ambient air.

Figure 2-1 presents the approximate locations of the indoor air quality sample locations. Table 2-1 summarizes the indoor air quality samples collected during the December 2011 sampling event. Indoor air quality samples collected during the December 2011 sampling event were designated with the letter A, B, or C to identify the building section from which the sample was collected and a unique sample identification suffix, indicating the sampling event number (e.g., A-28).

2.2 Foundation Vent Air Monitoring Sample Locations

The KMS foundation venting system is comprised of six sub-slab vapor collection zones, each vented by two or four vent stacks penetrating the roof. A total of four vent stacks are sampled during each round, including VS-1 and VS-4 which vent from the two collection zones located under building Section A (classrooms), and two other vent stacks which are rotated to cover the remaining collection zones. One air sample is collected immediately outside of the school during each round to provide comparative background results.

Figure 2-2 presents the approximate locations of the vent stack sample locations. Table 2-1 summarizes the vent stack samples collected during the December 2011 sampling event. Vent stack samples collected during the December 2011 sampling event were designated with the vent stack number (e.g., VS-4) and a unique sample identification suffix indicating the sampling event number (e.g., VS-4-28).

3.0 QUALITY ASSURANCE

This section highlights the results of the QA/QC review for the December 2011 sampling event. Please refer to Appendix A for additional QA/QC details.

3.1 Data Validation Summary

Limited (Tier II) validation was performed on the data for 11 air samples and two trip blank samples collected at the Keith Middle School in New Bedford, Massachusetts. The samples were collected on December 29, 2011 and submitted to Northeast Analytical, Inc. (NEA) in Schenectady, New York for analysis. All air vent samples were collected on polyurethane foam (PUF) cartridges in accordance with EPA method TO-10A; all ambient air samples were collected on particulate filters and PUF cartridges in accordance with EPA method TO-4A. The samples were analyzed for polychlorinated biphenyl (PCB) homologues using EPA method 680. NEA reported the results under job number 11080581.

The sample results were assessed using the *EPA New England Data Validation Functional Guidelines for Evaluating Environmental Analyses*, revised December 1996. Modification of these guidelines was performed to accommodate the non-CLP methodology.

In general, the data appear to be valid as reported and may be used for decision-making purposes. Potential high bias exists for trichlorobiphenyl and total PCB in samples A-28, B-28, and C-28 due to high surrogate recoveries. Potential low bias exists for samples VS-1-28, VS-4-28, VS-12-28, VS-8-28, VS-8-28-DUP, VS-BG-28, and VS-TB-28 due to low surrogate and laboratory control sample recoveries. These issues have a minor impact on the data usability; all results are still usable for project objectives.

Limited (Tier II) validation was performed on the data for 11 air samples and two trip blank samples collected at the Keith Middle School, Massachusetts. The samples were collected on December 29, 2011 and submitted to Alpha Woods Hole Labs (Alpha) in Westborough, MA for analysis. All air vent samples were collected in 2 liter SUMMA® canisters in accordance with EPA method TO-15A; all ambient air samples were collected in 6 liter SUMMA® canisters in accordance with EPA method TO-15A. The samples were analyzed for volatile organic compounds using EPA method TO-15A.

The sample results were assessed using the *EPA New England Data Validation Functional Guidelines for Evaluating Environmental Analyses*, revised December 1996. Modification of these guidelines was performed to accommodate the non-CLP methodology.

In general, the data appear to be valid as reported and may be used for decision-making purposes. The positive and nondetect results for sample VS-12-28 were estimated (J/UJ) due to high pre and post flow controller calibration check relative percent differences. The nondetect results for 1,2,4-trimethylbenzene, 1,2-dichlorobenzene, n-butylbenzene, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, naphthalene, 1,2,3-trichlorobenzene, and hexachlorobutadiene in all samples should be qualified as estimated (J/UJ) due to calibration nonconformances. The results for 2-butanone, ethylbenzene, styrene, chloroform, and tetrachloroethene in samples VS-8-28 and VS-8-28 DUP should be qualified as estimated (J/UJ)

due to field duplicate precision results. The positive results for acetone in samples C-28 and B-28 and chloromethane in samples C-28 and A-28 should be qualified as estimated (J) due to possible co-elution with non-target compounds. The direction of the bias cannot be determined from these nonconformances. Due to the interference of non-target compounds, the presence of chloromethane in samples VS-1-28, VS-4-28, VS-12-28, VS-8-28, and VS-8-28 DUP could not confirmed and these affected nondetect results were qualified as estimated (UJ).

3.2 TO-15 - Persistent Laboratory-Derived Contaminants

Based upon review of quality control data, TRC has determined that the results for four compounds reported throughout this report (acetone, ethanol, isopropanol, and methylene chloride) were influenced by laboratory-derived contamination and hence do not reflect actual vent stack and indoor air concentrations at KMS. This conclusion is supported by: 1) the high concentrations of these compounds in contrast to other VOCs within samples; 2) TRC experience with these same compounds when using EPA Method TO-15 on prior programs; and 3) concentrations over time do not follow trends observed for other VOCs known to be associated with products in storage and use at the KMS.

3.3 Collocated Sampler Precision

Samples BG-28 and BG-28 DUP were submitted as the field duplicate (collocated) pair with this sample set. Tables 3-1 and 3-2 summarizes the relative percent differences (RPDs) of the target VOCs detected in either sample, all of which were within the acceptance criteria of 20%RPD or the difference of <2 times the reporting limit (RL).

Samples VS-8-28 and VS-8-28 DUP were submitted as the field duplicate (collocated) pair with this sample set. Tables 3-1 and 3-2 summarizes the relative percent differences (RPDs) of the target VOCs detected in either sample, all of which were within the acceptance criteria of 20%RPD or the difference of <2 times the reporting limit (RL), with the exception of 2-butanone, ethylbenzene, styrene, chloroform, and tetrachloroethene. The positive and nondetect results for 2-butanone, ethylbenzene, styrene, chloroform, and tetrachloroethene in samples VS-8-28 and VS-8-28 DUP were estimated (J/UJ).

Samples VS-8-28/VS-8-28 DUP and BG-28/BG-28 DUP were submitted as the field duplicate (collocated) pairs with this sample set. PCBs were not detected in samples VS-8-28, VS-8-28 DUP, BG-28 and BG-28 DUP.

4.0 SUMMARY OF RESULTS

The following section describes the findings from the sampling events conducted by TRC at the KMS during December 2011. The December 2011 sampling occurred during the school vacation time period. Table 2-1 provides a summary of the types, numbers, and locations of the samples collected. Appendices E and F contain the laboratory data reports and data validation memoranda, respectively. Along with the samples, TO-4A, TO-15, and TO-10A trip blanks were analyzed as a quality assurance measure. PCBs and VOCs were not detected in the indoor air quality or vent stack trip blanks. Trip blanks are used as a check on shipping and laboratory-related sources of contamination.

TRC believes that the results for two compounds reported throughout this report (acetone and methylene chloride) were influenced by laboratory derived contamination and hence do not reflect actual vent stack and indoor air concentrations at the KMS, as previously discussed in more detail in Section 3.2.

A trend analysis of VOC concentrations over time is presented in Section 6.4. VOCs detected in the indoor air samples are believed to be associated with the storage and use of cleaners, adhesives, paint, and other VOC-containing products as well as building construction materials. This finding is based upon sporadic measurements of slightly higher VOC concentrations noted during the winter, spring and summer school vacation periods when the building is experiencing lower than normal air exchange and the indoor use of VOC-containing cleaning products and repair materials increases. Overall, VOC concentrations are decreasing in indoor air suggesting that off-gassing from the newly constructed school building is diminishing over time. Low level fluctuations of PCB concentrations in indoor air are generally consistent with urban indoor background levels. Measured concentrations of PCBs and VOCs in vent stack air are expected, and indicate that the passive ventilation system is performing as designed.

4.1 Indoor Air Quality Results

On December 29, 2011, TRC collected three indoor and one (plus one duplicate) outdoor background 24-hour TO-4A and TO-15 air samples at the KMS. Table 4-1 provides a summary of results for all compounds that have been found one or more times within the indoor air quality samples.

PCBs were detected in the three indoor air samples, but not in the background outdoor air samples. Total PCB detections ranged from 0.00571 ug/m^3 in the Building B sample to 0.00358 ug/m^3 in the Building A sample. The total PCB detection limits in the background outdoor air samples were 0.000068 and 0.000066 ug/m^3.

A total of 10 VOCs were detected in the three indoor air quality samples and/or outdoor air background samples collected during December 2011. Three VOCs (benzene, difluorodichloromethane and trichlorofluoromethane) were detected in the three indoor air samples and the background location samples. The indoor air concentrations of each of these VOCs were similar to those detected in the outdoor air background samples. Chloromethane

was detected in the Building A and C samples, but at lower concentrations than in the outdoor air background samples.

Acetone was detected in the three indoor air samples, but not in the background samples. The highest concentration of acetone was observed in the Building B sample. 2, Butanone, p/m-xylene, o-xylene, toluene and trichloroethene were detected only in the Building B sample.

Acetone is a common laboratory contaminant while all of the other VOCs detected in the indoor air samples are found in cleaning products, adhesives, paints and other VOC-containing products, and as components of building materials. Their presence in indoor air may not be representative of site conditions (i.e., soil, groundwater), but rather a result of off-gassing from building materials, the use of VOC-containing materials within the school, or partially contributed by ambient concentrations in the vicinity of the school.

4.2 Vent Stack Air Results

On December 29, 2011, TRC collected four (plus one duplicate) vent stack and one ground level outdoor background 4-hour TO-10A and TO-15 samples at the KMS. Table 4-2 provides a summary of results for the vent stack samples.

In December 2011, PCBs were not detected in the vent stack samples or in the outdoor air background sample.

A total of 15 VOCs were detected in the vent stack air samples and/or background sample, including the common laboratory contaminant acetone. Three of the detected VOCs (acetone, benzene and difluorodichloromethane) were detected in one or more of the vent stack air samples and at the outdoor air background sampling location. For difluorodichloromethane, lower concentrations were observed in the vent stack air samples than in the outdoor air sample. In contrast, acetone and benzene displayed concentrations up to 9-fold and 3-fold higher, respectively, in the vent stack air samples than in the background sample.

2-Butanone, 2-hexanone, chloroform, ethylbenzene, methyl tert butyl ether, p/m-xylene, styrene, tetrachloroethene, tetrahydrofuran, toluene, trichloroethene and trichlorofluoromethane were detected in one or more of the subsurface collection zones and not at the outdoor air background sampling location, indicating the localized presence of these compounds in the ventilation system or in the subsurface vented by the system.

5.0 COMPARISON OF PCB RESULTS TO RISK-BASED AIR CONCENTRATIONS

This section of the report discusses the PCB indoor air and vent stack air sampling results, relative to site-specific outdoor air concentrations and risk-based air concentrations (RBACs). Air sampling results, background outdoor air results, and RBACs are presented in Tables 5-1 and 5-2 for the December 2011 sampling event. Compound-specific results exceeding RBACs are highlighted on these tables. Measured concentrations of compounds exceeding RBACs are discussed in Sections 5.1 and 5.2 for indoor air and vent stack air, respectively. A detailed discussion of the RBACs can be found in Appendix G.

Two PCB RBACs have been developed for the KMS. The first RBAC is the Action Level (AL; 0.05 ug/m^3) used as an initial indicator that PCB air concentrations above background levels have been detected. The second RBAC is the Acceptable Long-Term Average Exposure Concentration (ALTAEC; 0.3 ug/m^3), indicative of the maximum acceptable air concentration that should not be exceeded for an extended time period. The ALTAEC could be exceeded over the short-term and still result in acceptable risk levels. In September 2009, EPA published Public Health Levels (PHLs) which are calculated indoor air concentrations that maintain PCB exposures below a level that EPA believes does not cause harm (USEPA, 2009). PHLs were calculated for all ages of children from toddlers in day care to adolescents in high school as well as for adult school employees. In this report, indoor air PCB concentrations are also compared to the PHL for adult school employees and children 12 to <15 years old, representative of the middle school age range.

The LTMMIP specifies that both indoor air and vent stack air total PCB concentrations are to be compared to RBACs. This comparison is appropriate for indoor air results since exposures to indoor air at the KMS are occurring over a similar duration and frequency as that assumed for RBAC development. However, this comparison is less appropriate for vent stack air results since little if any human exposure to air within the vent stack system itself is taking place. Air from the vent stack is vented to outdoor air where the PCBs are quickly diluted and dispersed. Therefore, comparison of vent stack air results to RBACs is highly conservative, if not conceptually irrelevant. The results of the comparison of vent stack air results to RBACs should be interpreted with caution due to the significantly reduced degree of exposure to vent stack air that can be experienced by individuals in comparison to indoor air.

5.1 Indoor Air

Indoor air sampling results, outdoor air background results, and RBACs are presented in Table 5-1. PCBs were detected at all three of the indoor air sampling locations (Buildings A, B, and C). PCBs were not detected in the outdoor air background samples. The highest indoor air total PCB concentration (Building B sample) was approximately 9-fold lower than the PCB AL and roughly 50-fold lower than the ALTAEC; the Building A and Building B samples displayed concentrations of PCBs up to 14-fold lower than the AL and 80-fold lower than the ALTAEC. Because the PCB AL is used as an initial indicator that PCB air concentrations above background levels for indoor air have been detected and the detected concentrations of PCBs are significantly less than the AL, concentrations of PCBs in indoor air are consistent with levels

associated with ambient conditions. The indoor air samples were also between 80- and 125-fold lower that the EPA PHL. Because there are no indoor air PCB concentrations in excess of the RBACs, no specific follow-up actions are recommended at this time.

Temporal trends for total PCB indoor air concentrations at the sampling locations in Building A (classrooms), Building B (auditorium), and Building C (faculty dining area) are shown in Figure 5-1. Figure 5-1 also shows concentration trends at the outdoor air background sampling location. Data included on this figure are for the time period August 2006 to December 2011. The highest indoor air total PCB concentration was detected during the April 2009 sampling event when the school was likely experiencing lower than normal air exchange (school vacation) and the potential for volatilization of PCBs from outdoor ambient sources is greater due to the warmer weather. The lowest indoor air total PCB concentration was detected during the November 2006 sampling event.

No clear trends are noted for total PCB concentrations in indoor air. Measured concentrations fluctuate over time, with slightly higher concentrations noted during the summer school vacation period when the building is experiencing lower than normal air exchange and the potential for volatilization of PCBs from outdoor ambient sources is greatest due to warmer weather. The low level PCB indoor air concentrations are generally consistent with urban ambient background conditions. Based on the total PCB indoor air results collected between August 2006 and August 2011, it appears that there is variability in indoor air concentrations and the higher concentrations detected in April 2009, August 2010 and April 2011 relative to previous sampling rounds are not part of a trend.

5.2 Vent Stack Air

Vent stack air sampling results, outdoor air background results, and RBACs are presented in Table 5-2. PCBs were not detected at the four vent stack sampling locations. PCBs were also not detected in the outdoor air background sample. Because there are no exceedances of the RBACs, no specific follow-up actions are recommended at this time.

Vent stack air reporting limits, ranging from 0.0192 ug/m^3 to 0.0357 ug/m^3, were higher than the detected indoor air total PCB concentrations. However, reporting limits were approximately 2-fold below the AL indicating that PCBs, even if not detected by the analytical method, were present at concentrations less than the RBACs.

Temporal trends for total PCB vent stack air concentrations are shown in Figure 5-2. Two vent stack locations were consistently sampled on a monthly basis so as to establish concentration trends. The vents selected were VS-1 and VS-4 which were chosen because Building A consists of classrooms where children spend most of the day and both vent from the Building A vapor collection zone. Figure 5-2 also shows concentration trends at the outdoor air background sampling location. Data included on this figure are for the time period August 2006 to December 2011. Total PCB concentrations in VS-1 and VS-4 are consistent over time and similar to levels present at the outdoor air background location. The low level fluctuations in PCB vent stack air concentrations suggest that the range of measured concentrations is representative of typical conditions within the subsurface ventilation system.

6.0 COMPARISON OF VOC RESULTS TO COMPARISON CRITERIA

This section of the report discusses the VOC indoor air and vent stack air sampling results, relative to site-specific outdoor air and generic indoor air background concentrations and available comparison criteria. Air sampling data, background data, and comparison criteria are presented in Tables 6-1 and 6-2. Compound-specific results exceeding comparison criteria are highlighted on these tables. The detected concentrations of compounds exceeding comparison criteria are discussed in Section 6.1 for indoor air quality samples and Section 6.2 for vent stack air samples, followed by a discussion in Section 6.3 of the findings of a risk characterization conducted to evaluate the significance of the comparison criteria exceedances. Risk-based comparison criteria are discussed below, with greater detail provided in Appendix G. Section 6.4 presents the observed trends in contaminant concentrations over time.

Comparison criteria for VOC data include MassDEP Threshold Effects Exposure Limits (TELs) and Allowable Ambient Limits (AALs), primarily developed between 1990 and 1995, consistent with the LTMMIP. MassDEP is in the process of updating the TELs/AALs, and published updated values for tetrachloroethene in January 2012. TELs are developed to be applicable to short-term exposure concentrations (average 24-hour levels), while AALs are developed to be protective of long-term exposure concentrations (average annual levels over 30 years). Indoor air and vent stack air VOC concentrations are conservatively compared to both criteria even though it is unlikely that actual exposures to measured air concentrations would occur for either an entire 24-hour day or continually for 30 years.

VOC concentrations in excess of AALs and TELs are discussed relative to alternate comparison criteria because TELs and AALs have not been revised since 1995 (except for tetrachloroethene) and may not include the most up-to-date toxicity information available. The alternate comparison criteria are primarily residential and commercial EPA screening levels (EPA SLs) developed by Oak Ridge National Laboratory (November 2011; USEPA, 2011) using the most current toxicity information available. Similar to AALs, residential EPA SLs are applicable to continuous long-term exposures. Commercial EPA SLs are more applicable to the actual exposures occurring at the KMS. In interpreting concentrations in excess of residential EPA SLs, it is important to consider how the frequency and duration of actual exposures may differ from continuous long-term exposures assumed for residential EPA SL development.

Because AALs, TELs, and EPA SLs (after adjustment to correspond to a lower noncancer threshold) are set at risk levels that are only a portion of the MassDEP risk management criteria (see Appendix G for additional information on this), concentrations that slightly exceed (i.e., less than 5-fold) one or more comparison criteria may not be cause for concern, especially considering that actual exposures may be of lesser duration and frequency than assumed in comparison criteria development.

For compounds lacking comparison criteria, detected concentrations are discussed relative to available comparison criteria for a surrogate compound, selected based on similarities in chemical structure and/or known toxicity. Surrogate assignments are identified in footnotes on Tables 6-1 and 6-2.

To account for anticipated background conditions at the KMS, VOC concentrations in excess of comparison criteria are framed relative to site-specific outdoor air background concentrations, indicating ambient conditions in the vicinity of the site. To provide additional perspective, VOC concentrations in excess of comparison criteria are also discussed relative to MassDEP indoor air background values, used by MassDEP in the development of the Massachusetts Contingency Plan (MCP) numeric standards (MassDEP, 2008) and residential and commercial Indoor Air Threshold Values (IATVs; December 2011) developed by MassDEP considering typical indoor air background concentrations and MassDEP risk management criteria. The residential IATVs assume continuous exposure (24 hours per day, 365 days per year for 30 years) while the commercial IATVs were developed to be applicable to exposures of lesser duration and intensity (8 hours per day, 250 days per year for 30 years). MassDEP considers investigation of the vapor intrusion pathway to be unnecessary when measured indoor air concentrations are at or below IATVs, assuming that the indoor air results are consistent with other site information and that adequate sampling has been performed. Therefore, the presence of one or more VOCs at concentrations that exceed comparison criteria should be interpreted with caution and may not indicate the need for immediate action.

The LTMMIP specifies that both indoor air and vent stack air VOC concentrations are to be compared to comparison criteria. This comparison is appropriate for indoor air results since exposures to indoor air at the KMS are occurring over a similar though lesser duration and frequency as that assumed for comparison criteria development. However, this comparison is less appropriate for vent stack air results since little if any human exposure to air within the vent stack system itself is taking place. Air from the vent stack is vented to outdoor air where the VOCs are quickly diluted and dispersed. Therefore, comparison of vent stack air results to comparison criteria is highly conservative, if not conceptually irrelevant. The results of the comparison of vent stack air results to comparison criteria should be interpreted with caution due to the significantly reduced degree of exposure to vent stack air that can be experienced by individuals in comparison to indoor air.

6.1 Indoor Air

As presented in Table 6-1, concentrations of only one VOC, benzene, in the indoor air samples exceeded one or more comparison criteria. Benzene was detected at concentrations below its corresponding MassDEP indoor air background value and MassDEP IATVs, and at concentrations only slightly greater than those detected in the background outdoor air samples, indicating that the presence of these compounds in indoor air is not a site-related finding. Though benzene concentrations detected in the three indoor air samples and the background outdoor air samples exceed comparison criteria developed assuming long-term continuous exposure, the concentrations do not exceed the TEL and commercial EPA SL, which are more applicable to actual exposures occurring at the KMS than the AAL or residential EPA SL, despite the “commercial” label. Therefore, the benzene concentrations in the indoor air samples are unlikely to be of concern. This conclusion is supported by the risk characterization presented in Section 6.3.

6.2 Vent Stack Air

As indicated on Table 6-2, concentrations of five VOCs in vent stack air samples exceeded one or more comparison criteria. The compounds include benzene, chloroform, ethylbenzene, styrene and tetrachloroethene. Comparison of vent stack air results to risk-based comparison criteria assumes that exposures to the air within the vent system are occurring at the same duration and intensity as indoor air, which is unlikely as previously noted. Therefore, VOC concentrations measured in excess of comparison criteria for VOCs in the vent stack system are unlikely to be indicative of a health concern since individuals are experiencing little, if any exposure to vent stack air.

Benzene, styrene and tetrachloroethene concentrations detected in vent stack air samples only exceed comparison criteria developed assuming continuous exposure (i.e., AALs and/or residential EPA SLs). Because the concentrations of these compounds do not exceed TELs and commercial EPA SLs, these concentrations in the vent stack air samples are unlikely to be of concern.

The chloroform and ethylbenzene vent stack air concentrations do not exceed the TELs, applicable to short-term exposures, though the detected concentrations do exceed the AALs and/or residential/commercial EPA SLs. However, the detected concentrations only exceed the commercial EPA SL, most applicable to exposures occurring at the KMS, by approximately 4-fold at most. Therefore, these concentrations in the vent stack air samples are unlikely to be of concern.

Eight of the 15 compounds present in vent stack air were detected in the December 2001 subsurface soil gas sampling event conducted by BETA, including 2-butanone, acetone, benzene, ethylbenzene, methyl tert butyl ether, p/m-xylene, tetrachloroethene and toluene. The presence of these compounds in vent stack air indicates that the passive foundation venting system is performing as designed and limiting or preventing the migration of subsurface VOCs to indoor air.

6.3 Risk Characterization for Indoor Air

The LTMMIP specifies that the LSP-of-Record should submit the indoor air data to a toxicologist/risk assessor for further assessment if indoor air VOC concentrations exceed TELs, AALs, or 150% of outdoor air background concentrations. Therefore, non-carcinogenic hazards and excess lifetime cancer risks have been estimated to determine whether a condition of no significant risk exists within the school. Compounds detected in indoor air samples between March 2007 and December 2011 were included in the risk characterization. Exposure point concentrations are either maximum detected concentrations or 95 percent upper confidence limits (95% UCLs) on the arithmetic mean, using sampling data for Buildings A through C combined. Because the indoor air sampling locations were selected to provide representative VOC and total PCB data for the three buildings, students, faculty and staff move throughout the buildings, and VOC and total PCB concentrations vary throughout the buildings with no one building displaying consistently elevated concentrations relative to the other buildings, the use of maximum detected concentrations or 95% UCLs for all sampling data combined as exposure

point concentrations provides a reasonable upper bound of the contaminant concentrations an individual may be exposed to, over the specified time period. A commercial worker scenario was used which assumed exposures for 8 hours/day, 250 days/year for 25 years, consistent with the assumptions used in the development of the site-specific PCB action levels. Appendix H contains a data summary table detailing the derivation of the exposure point concentrations and a calculation spreadsheet presenting the exposure assumptions and toxicity values used in the assessment.

The results presented in Appendix H document that a condition of no significant risk exists associated with commercial worker indoor air exposures at the KMS. Because workers are the most highly exposed individuals at the KMS, exposures of school children and staff would also be associated with a condition of no significant risk. VOC concentrations associated with off-gassing from building materials have been demonstrated to be trending downward (see discussion in Section 6.4).

The LTMMIP also specified that the LSP-of-Record should submit the vent stack air data to a toxicologist/risk assessor for further assessment if vent stack air VOC results exceed TELs and AALs. Because exposures to vent stack air are negligible or non-existent, further quantitative assessment of the vent stack air VOC results was not conducted.

6.4 Trend Analysis for VOCs

Temporal trends for VOC indoor air concentrations at the sampling location in Building A (classrooms), Building B (auditorium), and Building C (faculty dining area) are shown in Figures 6-1 through 6-3, respectively. Five VOCs were selected for data presentation including 2-butanone, methyl tert butyl ether, tetrahydrofuran, toluene, and total xylenes (the sum of m/p-xylene and o-xylene isomers). These VOCs were selected because they are not common laboratory contaminants, were frequently detected in indoor air samples, and were noted as exceeding one or more comparison criteria. Data included on these figures are for the time period August 2006 to December 2011. Bars on the figures outlined in black indicate that the compound was not detected during the specific sampling event, and the value presented on the figure is half the analytical detection limit.

Although some degree of temporal fluctuation is observed, there are clearly decreasing concentration trends for 2-butanone, toluene, and total xylenes over time in the Building B and C indoor air quality samples. The other two indicator compounds, tetrahydrofuran and methyl tert butyl ether, were only detected once in the samples collected from the Building B and C samples, respectively. For the Building A samples, most concentrations for the selected compounds have been consistently low, with the sporadic detection of slightly higher VOC concentrations noted during the spring and summer school vacation periods when the building is experiencing lower than normal air exchange and the indoor use of VOC-containing cleaning products and repair materials increases. These sporadic higher concentrations were also observed within the Building B and C samples. Overall, the decreasing trends in Buildings B and C suggest that off-gassing from the newly constructed school building is diminishing. The trend is less apparent in Building A since concentrations have been consistently low over time with some fluctuations.

Temporal trends for VOC vent stack air concentrations are shown in Figures 6-4 and 6-5 for VS-1 and VS-4, respectively. The same five VOCs selected for trend analysis in indoor air were also used for vent stack air. Data included on these figures are for the time period August 2006 to December 2011. All five indicator VOCs display clearly decreasing trends over time at both vent stack air sampling locations. Though some degree of temporal fluctuation is observed, the sporadic presence of slightly higher vent stack air VOC concentrations is noted during times of warmer ambient temperatures, potentially associated with the subsurface migration of VOCs or the off-gassing of VOCs from the ventilation system. For example, increases in concentrations of 2-butanone and tetrahydrofuran in VS-1 and VS-4 were observed in April 2010.

6.5 Recommended Modifications to the LTMMIP

The LTMMIP specifies follow-up actions to be taken if VOC air data exceed the comparison criteria. However, the response actions set forth in the LTMMIP are excessive and unnecessary for the December 2011 data set for the following reasons:

- Risk calculations presented herein and in prior TRC reports (encompassing eighteen sampling events of monitoring data collected over 56 months) show that the maximum or 95% UCL on the arithmetic mean concentrations of detected VOCs do not pose a significant risk to human health and further that VOC concentrations are trending downward;
- Most of the VOCs detected in indoor air are associated with the storage and use of cleaners, adhesives, paints, and other VOC-containing products within the KMS; and
- The comparison of vent stack air to comparison criteria (e.g., TELs and AALs) is inappropriate because human exposure to air within the vent stack is highly unlikely, rendering the comparison to such criteria conceptually irrelevant.

The LTMMIP is under revision to reflect TRC's detailed understanding of the site conceptual model (e.g., impacts from indoor use of commercially available cleaners, paints, adhesives, etc.), the relationship between vent measurements and historical soil gas measurements that illustrate the proper functioning of the passive sub-slab ventilation system, and long-term downward trends for indoor air and passive vent system concentrations for VOCs originating from building materials. The revised LTMMIP will also include revised response actions and response action schedules that reflect TRC's comprehensive understanding of human health risk, sources, and air measurements. In addition, a new methodology for evaluation of vent stack air concentrations is recommended for the proposed revised LTMMIP that is more appropriate than the presently called for review against comparison criteria. A draft revision to the LTMMIP is currently under regulatory review.

7.0 CONCLUSIONS

Indoor air quality and vent stack air sampling was conducted at the KMS during December 2011 for total PCBs and VOCs. Data were evaluated for quality and reliability, discussed relative to risk-based air concentrations, and analyzed for concentration trends over the period of sampling from August 2006 to December 2011. The following summarizes the conclusions of the air sampling data evaluation.

In general, all TO-10A and TO-15 data collected during December 2011 were determined to be valid as reported and usable for decision-making purposes.

PCBs were detected in the three indoor air samples collected in December 2011. The detected PCB concentrations for these samples were below risk-based action levels. Detected concentrations of benzene in indoor air samples exceeded one or more risk-based comparison criteria. However, further assessment of the indoor air data indicated that the 95% UCL on the arithmetic mean or maximum VOC concentrations measured between March 2007 and December 2011 were associated with a condition of no significant risk to exposed individuals at the KMS.

PCBs were not detected in the four vent stack air samples collected in December 2011. There were more VOC exceedances of comparison criteria in vent stack samples as compared to indoor air samples. However, the comparison to risk-based criteria is not appropriate for vent stack air results. The vent system is designed to capture VOCs from the subsurface beneath the KMS and convey the gases through PVC piping to outdoor air, preventing migration through the building slab and into indoor air. Little if any human exposure to air within the vent stack system itself is taking place. Air from the vent stack is vented to outdoor air on the roof of KMS where the VOCs are quickly diluted and dispersed. Therefore, comparison of vent stack air results to comparison criteria developed assuming short-term (24-hour) and long-term exposure is highly conservative, if not conceptually irrelevant.

Some VOCs are likely present in indoor air due to off-gassing from building materials and the storage and use of cleaners, adhesives, paints, and other VOC-containing products indoors at the school. Levels of PCBs and VOCs in indoor air were found to fluctuate overtime likely due to: 1) the degree of building air exchange that occurs during normal school operation (i.e., open conditions) versus vacation periods when the school is not in session (i.e., closed conditions); 2) changes in ambient temperatures that may increase or decrease the off-gassing from indoor building materials; 3) the degree to which activities within the school building (e.g., cleaning and repairs) are contributing to indoor air concentrations of VOCs, and 4) reductions in building material related VOC emission sources over time. The low level fluctuations of PCB indoor air concentrations are generally consistent with concentrations found in urban ambient air background. Based on the total PCB indoor air results collected between August 2006 and December 2011, it appears that there is variability in indoor air concentrations and the higher concentrations detected in April 2009, August 2010 and April 2011 relative to previous sampling rounds are not part of a trend. Overall, VOC concentrations are decreasing in indoor air suggesting that off-gassing from the aggregate of sources within the newly constructed school building is diminishing. The sporadic presence of slightly higher VOC concentrations noted

during the spring and summer school vacation periods is likely attributable to the building experiencing lower than normal air exchange in combination with increased use of VOC-containing cleaning products and repair materials indoors.

VOCs are consistently detected in the sub-slab passive vent stacks, while PCBs are sporadically detected in the vent stacks. The presence of PCBs and VOCs in vent stack air is expected, and indicates that the passive ventilation system is performing as designed. VOCs detected in vent stack air samples may also have been emitted by the ventilation system itself. The low PCB vent stack air concentrations and decreasing vent stack air VOC concentrations are likely representative of typical conditions within the subsurface ventilation system and indicate that off-gassing from the system is diminishing overtime.

It is recommended that the LTMMIP be revised to reflect TRC's detailed understanding of the site conceptual model (e.g., impacts from indoor use of commercially available cleaners, paints, adhesives, etc.), the relationship between vent measurements and historical soil gas measurements that illustrate the proper functioning of the passive sub-slab ventilation system, and long-term downward trends for indoor air and passive vent system concentrations for VOCs originating from building materials. The revised LTMMIP will also include more appropriate response actions and response action schedules that reflect TRC's comprehensive understanding of human health risk, sources, and air measurements. In addition, a new methodology for evaluation of vent stack air concentrations is recommended for the proposed revised LTMMIP, which will be more appropriate than the presently called for review against comparison criteria. A draft revision to the LTMMIP is currently under regulatory review.

April 2012 is the date for the next sampling event.

8.0 REFERENCES

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TABLES

Table 2-1. December 2011 Sample Summary
Keith Middle School
New Bedford, Massachusetts

Sample ID	Sample Location	Sample Collected	Sample Type
A	Building A, center of west hallway	X	IAQ
B	Building B, Auditorium	X	IAQ
C	Building C, Faculty Dining Room	X	IAQ
BG	Background, flagpole area outside main entrance to Building A	XX	IAQ
VS-1	Building A, vent stack 1	X	Vent Stack
VS-4	Building A, vent stack 4	X	Vent Stack
VS-5	Building B, vent stack 5		Vent Stack
VS-7	Building B, vent stack 7		Vent Stack
VS-8	Building B, vent stack 8	XX	Vent Stack
VS-9	Building B, vent stack 9		Vent Stack
VS-10	Building B, vent stack 10		Vent Stack
VS-11	Gymnasium , vent stack 11		Vent Stack
VS-12	Gymnasium, vent stack 12	X	Vent Stack
VS-13	Gymnasium, vent stack 13		Vent Stack
VS-14	Gymnasium, vent stack 14		Vent Stack
VS-16	Building A , vent stack 16		Vent Stack
VS-BG	On the ground at main entrance to Building A	X	Vent Stack

X - Sample collected at this location during this sampling round.
XX - Sample and duplicate collected at this location during this sampling round.

Table 3-1. Comparison of VOC Indoor Air Sample Results - Collocated Sampler Precision
Keith Middle School
New Bedford, Massachusetts

		Dec-11		
Analysis	**Analyte**	**BG-28**	**BG-28 Dup**	**RPD (%)**
VOCs				
($\mu g/m^3$)	1,2,4-trichlorobenzene	< 1.48 UJ	< 1.48 UJ	NC
	1,2,4-trimethylbenzene	< 0.983 UJ	< 0.983 UJ	NC
	1.2-dichloroethane	< 0.809	< 0.809	NC
	1,3-dichlorobenzene	< 1.20	< 1.20	NC
	1,4-dioxane	< 0.721	< 0.721	NC
	2-butanone	<0.59	< 0.590	NC
	2-hexanone	< 0.820	< 0.820	NC
	acetone [(1)]	<2.38	<2.38	NC
	benzene	**0.393**	**0.402**	**2.26%**
	carbon disulfide	< 0.623	< 0.623	NC
	chloroform	<0.098	<0.098	NC
	chloromethane	**1.09**	**0.968**	**11.86%**
	cis-1,2-dichloroethene	< 0.793	< 0.793	NC
	difluorodichloromethane	**2.24**	**2.30**	**2.64%**
	ethylbenzene	< 0.868	< 0.868	NC
	freon-113	< 1.53	< 1.53	NC
	methylene chloride [(1)]	<4.86	< 4.86	NC
	methyl tert butyl ether	< 0.721	< 0.721	NC
	p/m-xylene	< 1.74	< 1.74	NC
	o-xlyene	< 0.869	< 0.869	NC
	propylene	< 0.344	< 0.344	NC
	styrene	< 0.852	< 0.852	NC
	tetrachloroethene	< 0.136	< 0.136	NC
	tetrahydrofuran	< 0.590	< 0.590	NC
	toluene	< 0.754	< 0.754	NC
	trichloroethene	< 0.107	< 0.107	NC
	trichlorofluoromethane	**1.16**	<1.12	NC
PCBs				
($\mu g/m^3$)	Total PCBs	< 0.000068 UJ	< 0.000066	NC

Notes:
RPD - Relative Percent Difference = ABS(Dup-Sample)/((Dup+Sample)/2)*100
NC - Not Calculated; RPD could not be calculated due to a non-detect in one or both of the collocated samples
Detected values are shown in bold
[(1)] Compound is a common laboratory contaminant as discussed in Section 3.

Table 3-2. Comparison of VOC Vent Stack Air Sample Results - Collocated Sampler Precision
Keith Middle School
New Bedford, Massachusetts

		Dec-11				
Analysis	**Analyte**	**VS-8-28**		**VS-8-28 DUP**		**RPD (%)**
VOCs						
(ug/m^3)	1,2,4-trichlorobenzene	< 1.48	UJ	< 1.48	UJ	NC
	1,2,4-trimethylbenzene	< 0.983	UJ	< 0.983	UJ	NC
	1,2-dichloroethane	< 0.809		< 0.809		NC
	1,3-dichlorobenzene	< 1.20	UJ	< 1.20	UJ	NC
	1,4-dioxane	< 0.721		< 0.721		NC
	2-butanone	**2.27**	**J**	**4.25**	J	**60.74%**
	2-hexanone	< 0.820		**0.844**		NC
	acetone [(1)]	**6.56**		**7.17**		**8.89%**
	benzene	< 0.319		**0.390**		**20.03%**
	carbon disulfide	< 0.623		< 0.623		NC
	chloroform	**0.786**	**J**	**0.630**	**J**	**22.03%**
	chloromethane	< 0.413	UJ	< 0.413	UJ	NC
	cis-1,2-dichloroethene	< 0.793		< 0.793		NC
	difluorodichloromethane	**2.00**		**2.00**		**0.00%**
	ethylbenzene	**11.3**	**J**	< 0.869	UJ	NC
	freon-113	< 1.53		< 1.53		NC
	methylene chloride [(1)]	< 4.86		< 4.86		NC
	methyl tert butyl ether	< 0.721		< 0.721		NC
	p/m-xylene	**2.03**		< 1.74		NC
	o-xlyene	< 0.869		< 0.869		NC
	styrene	**5.28**	**J**	< 0.852	UJ	NC
	tetrachloroethene	**0.827**	**J**	**0.244**	**J**	**108.87%**
	tetrahydrofuran	**2.58**		**1.80**		**35.62%**
	toluene	**1.87**		< 0.754		**85.06%**
	trichloroethene	**0.269**		**0.177**		**41.26%**
	trichlorofluoromethane	**1.90**		**2.03**		**6.62%**
PCBs						
(ug/m^3)	Total PCBs	< 0.0227	UJ	< 0.0227	UJ	NC

Notes:
RPD - Relative Percent Difference = ABS(Dup-Sample)/((Dup+Sample)/2)*100
NC - Not Calculated; RPD could not be calculated due to a non-detect in one or both of the collocated samples
Detected values are shown in bold
[(1)] Compound is a common laboratory contaminant as discussed in Section 3.

Table 4-1. Indoor Air Quality Sample Results - December 2011
Keith Middle School
New Bedford, Massachusetts

		Sample Locations						Background				QA/QC	
Analysis	**Analyte**	**A-28**		**B-28**		**C-28**		**BG-28**		**BG-28 Dup**		**Trip Blank**	
VOCs													
($\mu g/m^3$)	1,2,4-trichlorobenzene	< 1.48	UJ	< 1.48	UJ	< 1.48	UJ	< 1.48	UJ	< 1.48	UJ	< 1.48	UJ
	1,2,4-trimethylbenzene	< 0.983	UJ	< 0.983	UJ	< 0.983	UJ	< 0.983	UJ	< 0.983	UJ	< 0.983	UJ
	1,2-dichloroethane	< 0.809		< 0.809		< 0.809		< 0.809		< 0.809		< 0.809	
	1,3-dichlorobenzene	< 1.20		< 1.20		< 1.20		< 1.20		< 1.20		< 1.20	
	1,4-dioxane	< 0.721		< 0.721		< 0.721		< 0.721		< 0.721		< 0.721	
	2-butanone	< 0.590		**0.776**		< 0.590		< 0.590		< 0.590		< 0.590	
	2-hexanone	< 0.820		< 0.820		< 0.820		< 0.820		< 0.820		< 0.820	
	acetone [(1)]	**3.99**		**6.25**	**J**	**3.49**	**J**	< 2.38		< 2.38		< 2.38	
	benzene	**0.450**		**0.524**		**0.543**		**0.393**		**0.402**		< 0.319	
	carbon disulfide	< 0.623		< 0.623		< 0.623		< 0.623		< 0.623		< 0.623	
	chloroform	< 0.098		< 0.098		< 0.098		< 0.098		< 0.098		< 0.098	
	chloromethane	**0.634**	**J**	< 0.413		**0.584**	**J**	**1.09**		**0.968**		< 0.413	
	cis-1,2-dichloroethene	< 0.793		< 0.793		< 0.793		< 0.793		< 0.793		< 0.793	
	difluorodichloromethane	**2.29**		**2.27**		**2.28**		**2.24**		**2.30**		< 0.989	
	ethylbenzene	< 0.869		< 0.869		< 0.869		< 0.869		< 0.869		< 0.869	
	methylene chloride [(1)]	< 4.86		< 4.86		< 4.86		< 4.86		< 4.86		< 4.86	
	methyl isobutyl ketone (MIBK)	< 0.820		< 0.820		< 0.820		< 0.820		< 0.820		< 0.820	
	methyl tert butyl ether	< 0.721		< 0.721		< 0.721		< 0.721		< 0.721		< 0.721	
	p/m-xylene	< 1.74		**2.12**		< 1.74		< 1.74		< 1.74		< 1.74	
	o-xlyene	< 0.869		**0.882**		< 0.869		< 0.869		< 0.869		< 0.869	
	styrene	< 0.852		< 0.852		< 0.852		< 0.852		< 0.852		< 0.852	
	tetrachloroethene	< 0.136		< 0.136		< 0.136		< 0.136		< 0.136		< 0.136	
	tetrahydrofuran	< 0.590		< 0.590		< 0.590		< 0.590		< 0.590		< 0.590	
	toluene	< 0.754		**0.968**		< 0.754		< 0.754		< 0.754		< 0.754	
	trichloroethene	< 0.107		**0.140**		< 0.107		< 0.107		< 0.107		< 0.107	
	trichlorofluoromethane	**1.16**		**1.22**		**1.18**		**1.16**		< 1.12		< 1.12	
	n-propylbenzene	< 0.983		< 0.983		< 0.983		< 0.983		< 0.983		< 0.983	
	1,3,5-trimethylbenzene	< 0.983		< 0.983		< 0.983		< 0.983		< 0.983		< 0.983	
PCBs													
($\mu g/m^3$)	Total PCBs	**0.00358**	**J**	**0.00571**	**J**	**0.00544**	**J**	< 0.000068		< 0.000066		< 0.025	

Notes:

$\mu g/m^3$ - micrograms per cubic meter
VOCs - volatile organic compounds
PCBs - polychlorinated biphenyls
µg - micrograms; trip blank results are presented in micrograms (µg) due to no air volume being collected during analysis.
[(1)] Compound is a common laboratory contaminant as discussed in Section 3.
Reporting Limit for Total PCBs is the highest individual homolog PQL (practical quantitation limit) per sample.
Values in **Bold** indicate the compound was detected.
< - less than laboratory reporting limit
J - Detected result reported is estimated
UJ - Non-Detect result reported is estimated

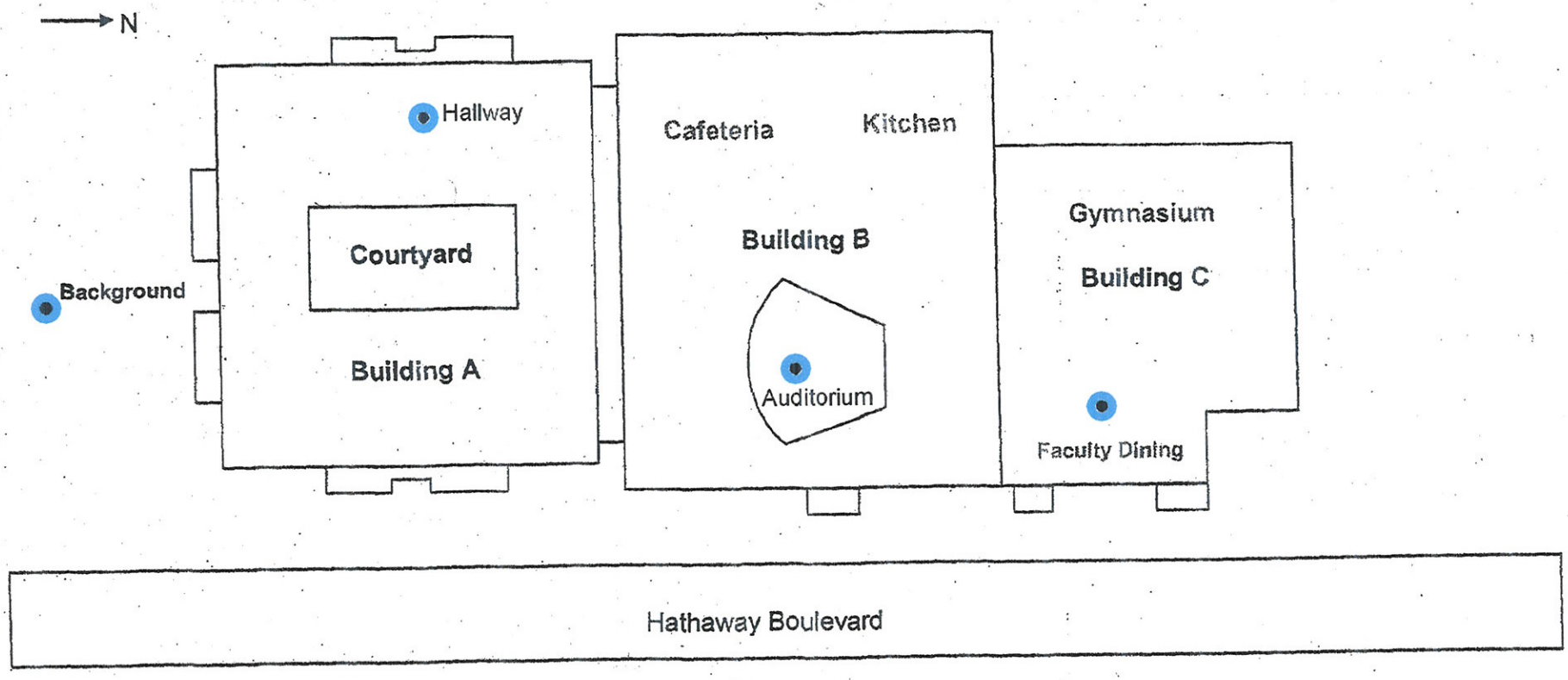
Table 4-2. Vent Stack Sample Results - December 2011
Keith Middle School
New Bedford, Massachusetts

		Sample Locations										Background		QA/QC	
Analysis	**Analyte**	**VS-1-28**		**VS-4-28**		**VS-12-28**		**VS-8-28**		**VS-8-28-DUP**		**VS-BG-28**		**Trip Blank-VS**	
VOCs															
($\mu g/m^3$)	1,2,4-trichlorobenzene	< 1.48	UJ	< 1.48	UJ	< 1.48	UJ	< 1.48	UJ	< 1.48	UJ	< 1.48	UJ	< 1.48	UJ
	1,2,4-trimethylbenzene	< 0.983	UJ	< 0.983	UJ	< 0.983	UJ	< 0.983	UJ	< 0.983	UJ	< 0.983	UJ	< 0.983	UJ
	1,2-dichloroethane	< 0.809		< 0.809		< 0.809	UJ	< 0.809		< 0.809		< 0.809		< 0.809	
	1,3-dichlorobenzene	< 1.20	UJ	< 1.20	UJ	< 1.20	UJ	< 1.20	UJ	< 1.20	UJ	< 1.20	UJ	< 1.20	UJ
	1,4-dioxane	< 0.721		< 0.721		< 0.721	UJ	< 0.721		< 0.721		< 0.721		< 0.721	
	2-butanone	**4.04**		**7.69**		**1.10**	**J**	**2.27**	**J**	**4.25**	**J**	< 0.590		< 0.590	
	2-hexanone	< 0.820		< 0.820		< 0.820	UJ	< 0.820		**0.844**		< 0.820		< 0.820	
	acetone [(1)]	**19.9**		**26.4**		**6.96**	**J**	**6.56**		**7.17**		**3.09**		< 2.38	
	benzene	**0.680**		**1.10**		**0.450**	**J**	< 0.319		**0.390**		**0.393**		< 0.319	
	carbon disulfide	< 0.623		< 0.623		< 0.623	UJ	< 0.623		< 0.623		< 0.623		< 0.623	
	chloroform	**1.22**		**1.27**		**2.30**	**J**	**0.786**	**J**	**0.630**	**J**	< 0.098		< 0.098	
	chloromethane	< 0.413	UJ	< 0.413	UJ	< 0.413	UJ	< 0.413	UJ	< 0.413	UJ	< 0.413		< 0.413	
	cis-1,2-dichloroethene	< 0.793		< 0.793		< 0.793	UJ	< 0.793		< 0.793		< 0.793		< 0.793	
	difluorodichloromethane	**1.84**		**1.56**		**1.83**	**J**	**2.00**		**2.00**		**2.41**		< 0.989	
	ethylbenzene	< 0.869		< 0.869		< 0.869	UJ	**11.3**	**J**	< 0.869	UJ	< 0.869		< 0.869	
	methylene chloride [(1)]	< 4.86		< 4.86		< 4.86	UJ	< 4.86		< 4.86		< 4.86		< 4.86	
	methyl isobutyl ketone (MIBK)	< 0.820		< 0.820		< 0.820	UJ	< 0.820		< 0.820		< 0.820		< 0.820	
	methyl tert butyl ether	< 0.721		< 0.721		**2.19**	**J**	< 0.721		< 0.721		< 0.721		< 0.721	
	p/m-xylene	< 1.74		< 1.74		< 1.74	UJ	**2.03**		< 1.74		< 1.74		< 1.74	
	o-xlyene	< 0.869		< 0.869		< 0.869	UJ	< 0.869		< 0.869		< 0.869		< 0.869	
	styrene	< 0.852		< 0.852		< 0.852	UJ	**5.28**	**J**	< 0.852	UJ	< 0.852		< 0.852	
	tetrachloroethene	**0.549**		**0.271**		**1.68**	**J**	**0.827**	**J**	**0.244**	**J**	< 0.136		< 0.136	
	tetrahydrofuran	< 0.590		**0.773**		< 0.590	UJ	**2.58**		**1.80**		< 0.590		< 0.590	
	toluene	< 0.754		< 0.754		< 0.754	UJ	**1.87**		< 0.754		< 0.754		< 0.754	
	trichloroethene	< 0.107		< 0.107		< 0.107	UJ	**0.269**		**0.177**		< 0.107		< 0.107	
	trichlorofluoromethane	**1.28**		**1.65**		**1.42**	**J**	**1.90**		**2.03**		< 1.12		< 1.12	
	n-propylbenzene	< 0.983		< 0.983		< 0.983	UJ	< 0.983		< 0.983		< 0.983		< 0.983	
	1,3,5-trimethylbenzene	< 0.983		< 0.983		< 0.983	UJ	< 0.983		< 0.983		< 0.983		< 0.983	
PCBs															
($\mu g/m^3$)	Total PCBs	< 0.0192	UJ	< 0.0208	UJ	< 0.0357	UJ	< 0.0227	UJ	< 0.0227	UJ	< 0.0208	UJ	< 0.0250	UJ

Notes:
$\mu g/m^3$ - micrograms per cubic meter
VOCs - volatile organic compounds
PCBs - polychlorinated biphenyls
µg - micrograms; trip blank results are presented in micrograms (µg) due to no air volume being collected during analysis.
[(1)] Compound is a common laboratory contaminant as discussed in Section 3.
Reporting Limit for Total PCBs is the highest individual homolog PQL (practical quantitation limit) per sample.
Values in **Bold** indicate the compound was detected.
< - less than laboratory reporting limit
J - Detected result reported is estimated
UJ - Non-Detect result reported is estimated

FIGURES

Keith Middle School
Indoor Air Sampling Locations



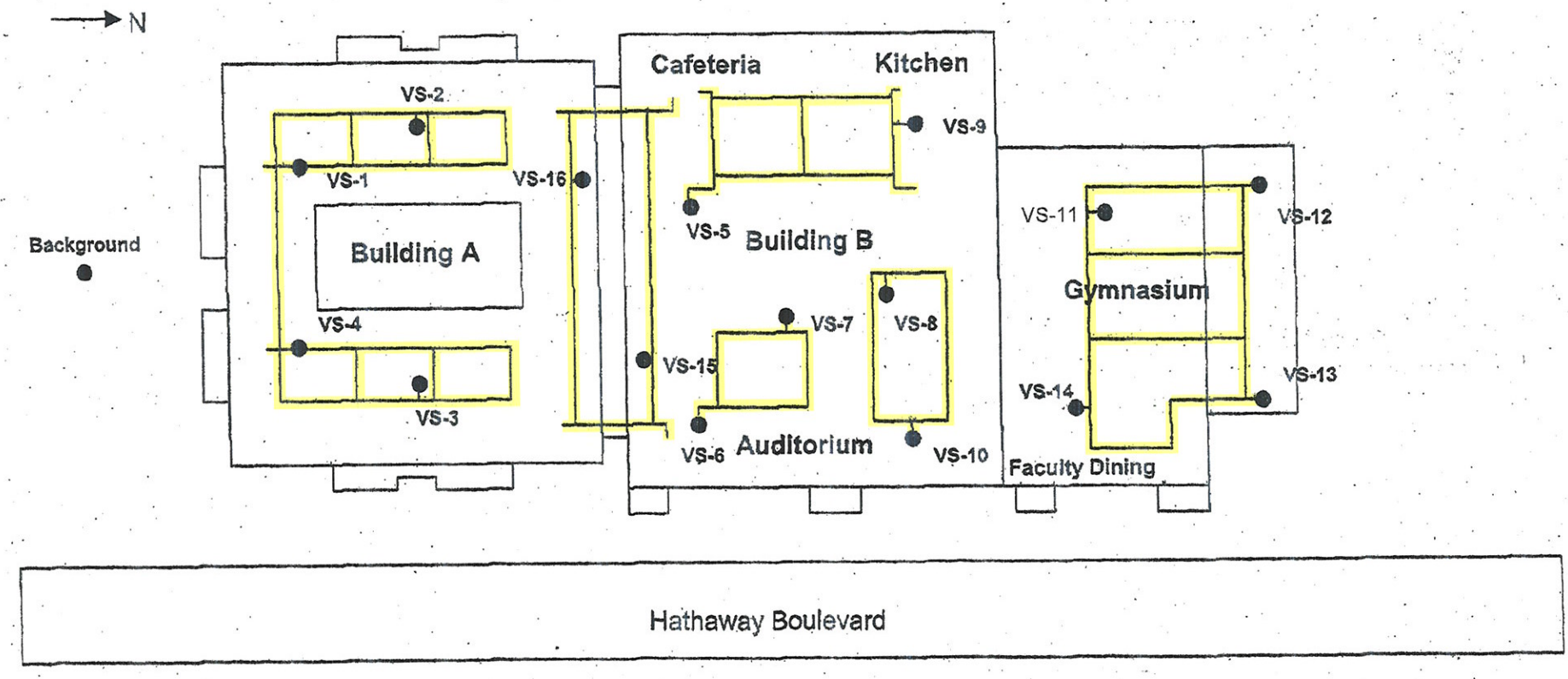
● = Indoor Air Sampling Point

● = Sample Locations

KEITH MIDDLE SCHOOL NEW BEDFORD, MASSACHUSETTS		
INDOOR AIR SAMPLING LOCATIONS		
TRC Wannalancit Mills 650 Suffolk Street Lowell, MA 01854 (978) 970-5600		FIGURE 2-1
DRAWN BY: ---	DATE: MAY 2008	
CHECKED BY: DMS		

FILE: F:\E_CAD\115058\indoorventsys1.dwg

Keith Middle School
Foundation Venting System



● = Vent Riser / Vent Stack Sampling location

═══ = Passive Venting and Collection System

KEITH MIDDLE SCHOOL
NEW BEDFORD, MASSACHUSETTS

VENT STACK SAMPLE LOCATIONS

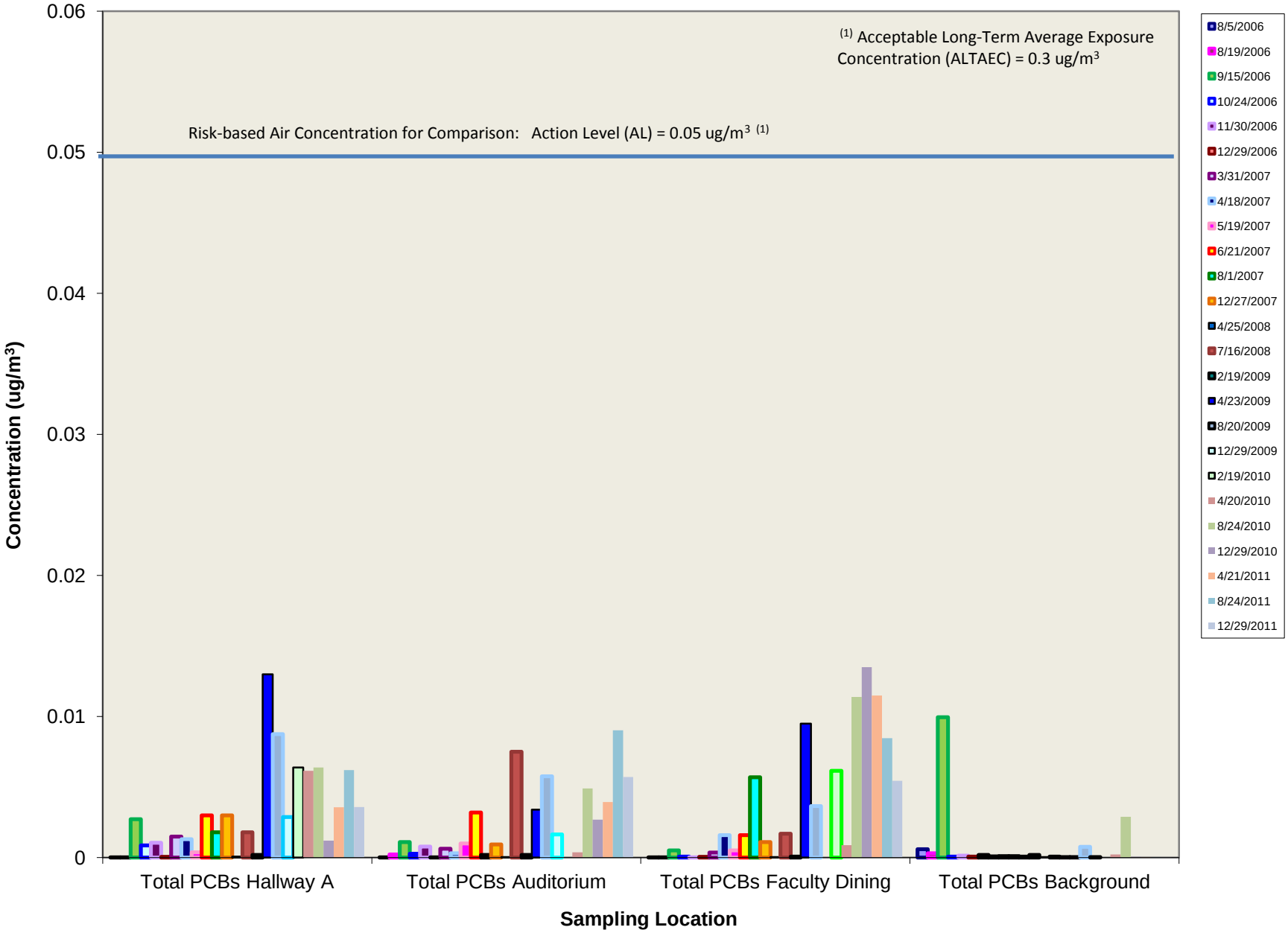
TRC
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
(978) 970-5600

FIGURE 2-2

DRAWN BY: ---
CHECKED BY: DMS
DATE: MAY 2008

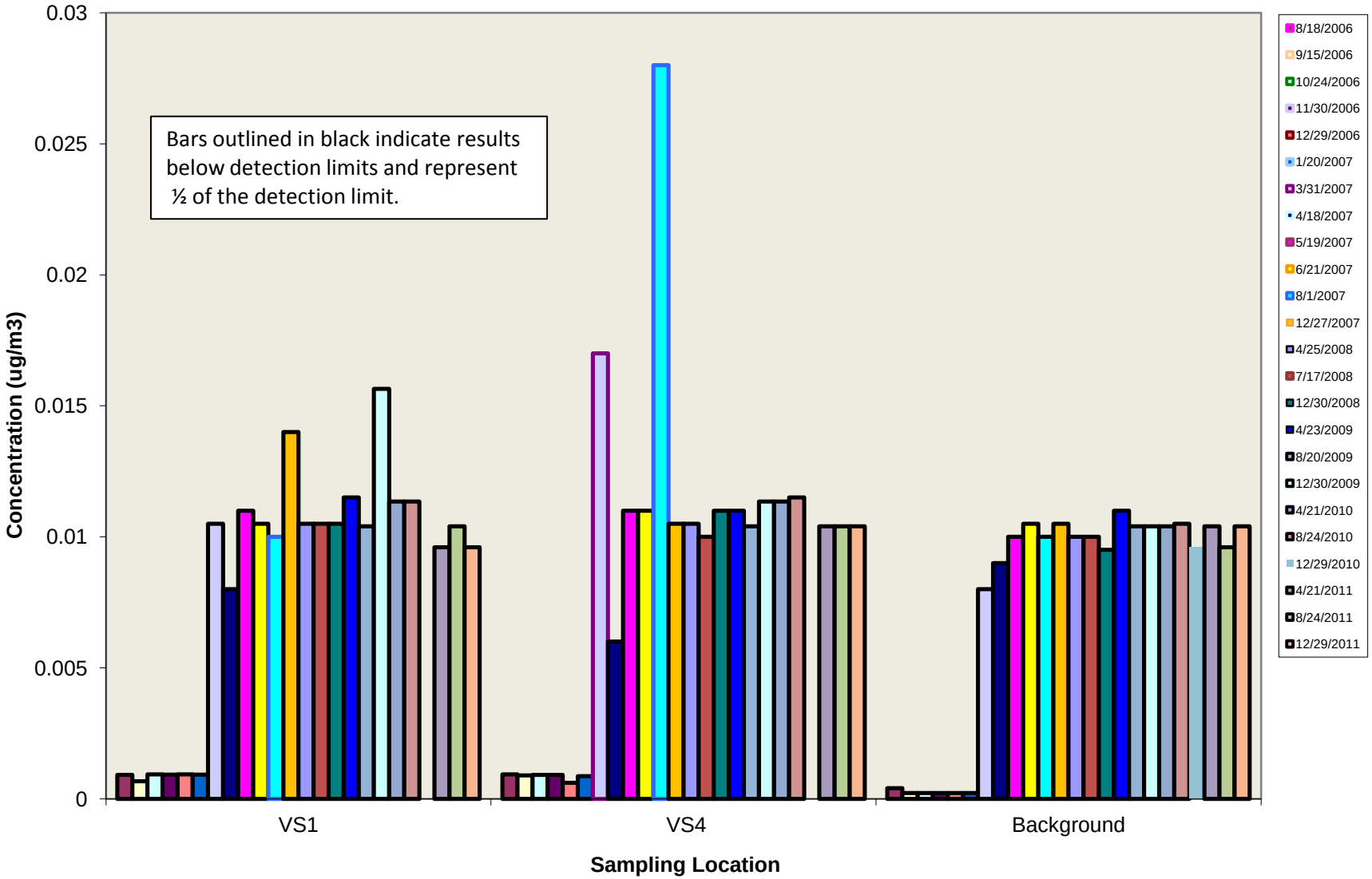
FILE: T:\E_CAD\115058\ventsys1A.dwg

Figure 5-1. Total PCB Trends in KMS Indoor Air Quality (IAQ) Samples - August 2006 through December 2011



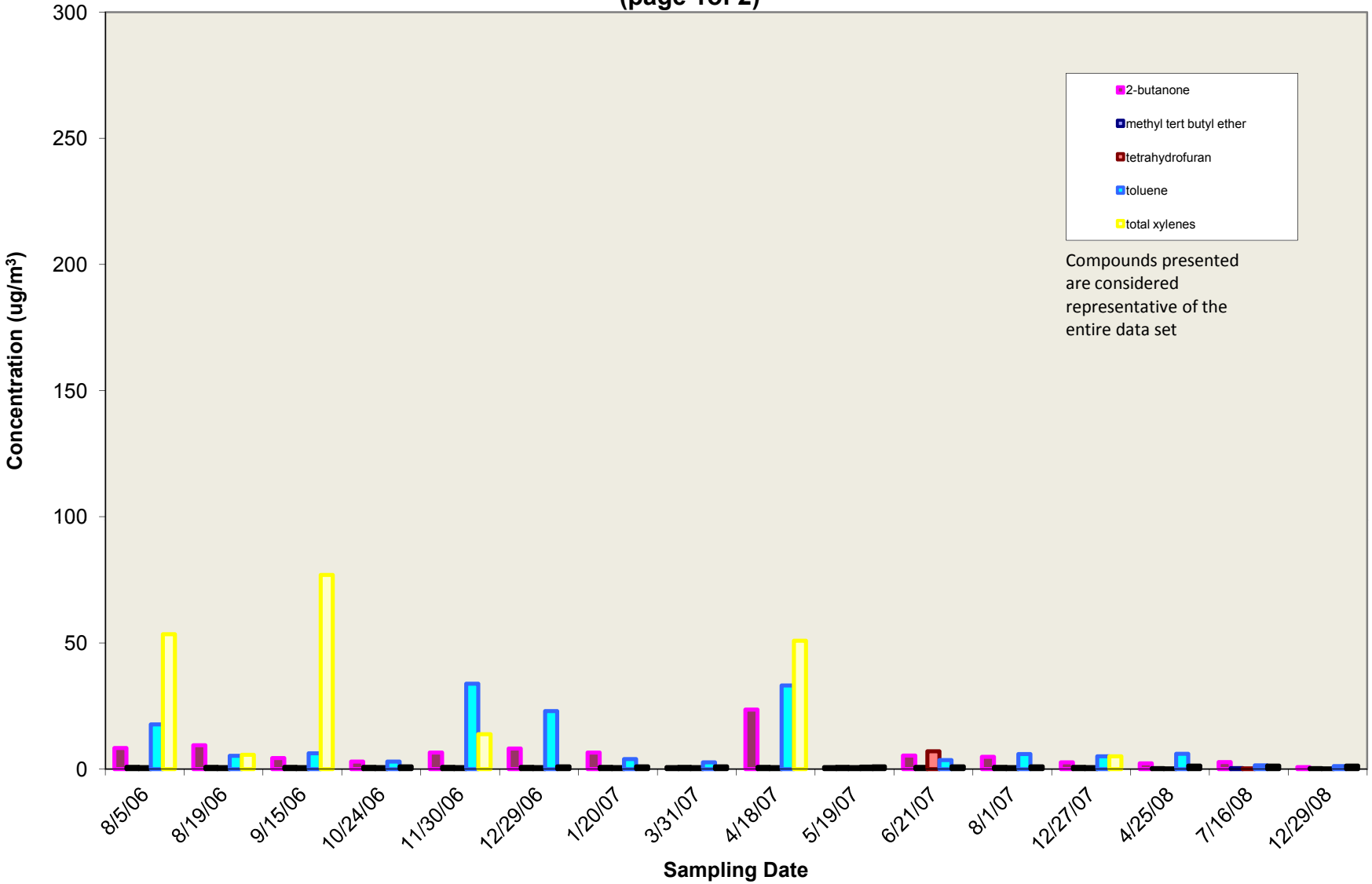
Each bar represents a single measurement. Bars outlined in black represent values reported by the laboratory as nondetect. For charting purposes these nondetect values are plotted as one half the reporting limit.

Figure 5-2. KMS Vent Stack PCB Trends - August 2006 through December 2011



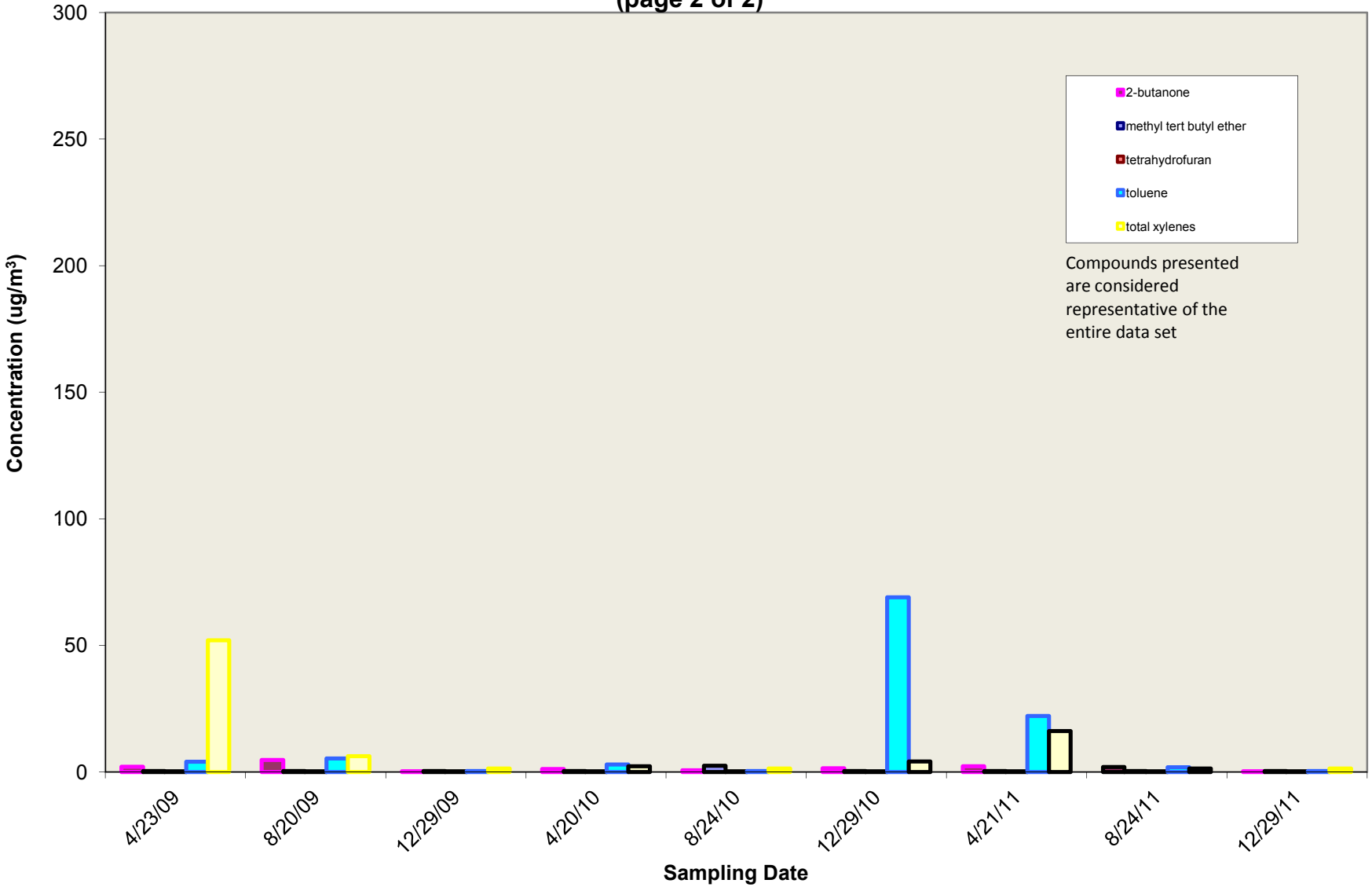
Each bar represents a single measurement. Bars outlined in black represent values reported by the laboratory as nondetect. For charting purposes these nondetect values are plotted as one half the reporting limit.

Figure 6-1. VOC Trends in KMS Building A (IAQ) - August 2006 through December 2011 (page 1of 2)



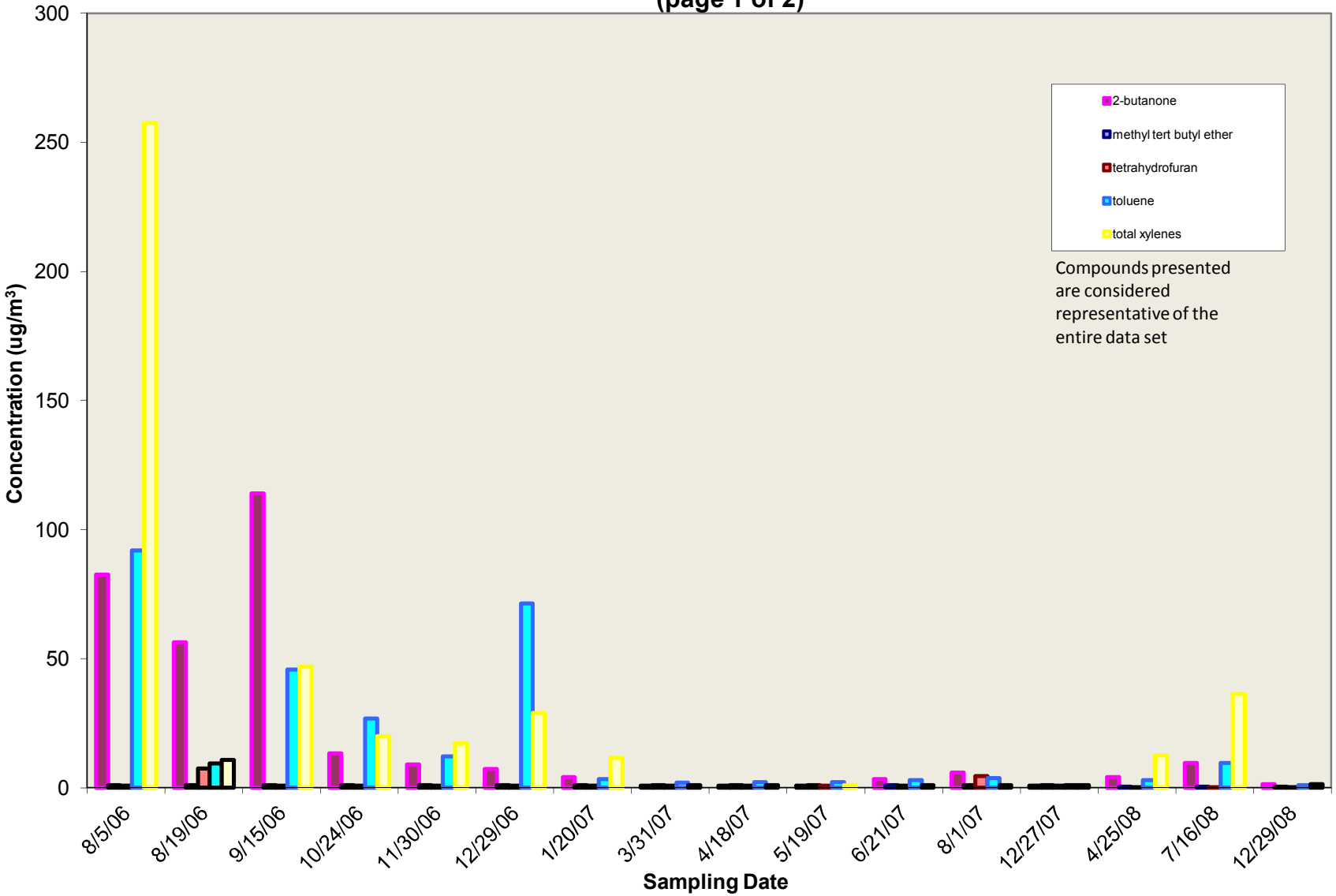
Each bar represents a single measurement. Bars outlined in black represent values reported by the laboratory as nondetect. For charting purposes these nondetect values are plotted as one half the reporting limit.

Figure 6-1. VOC Trends in KMS Building A (IAQ) - August 2006 through December 2011 (page 2 of 2)



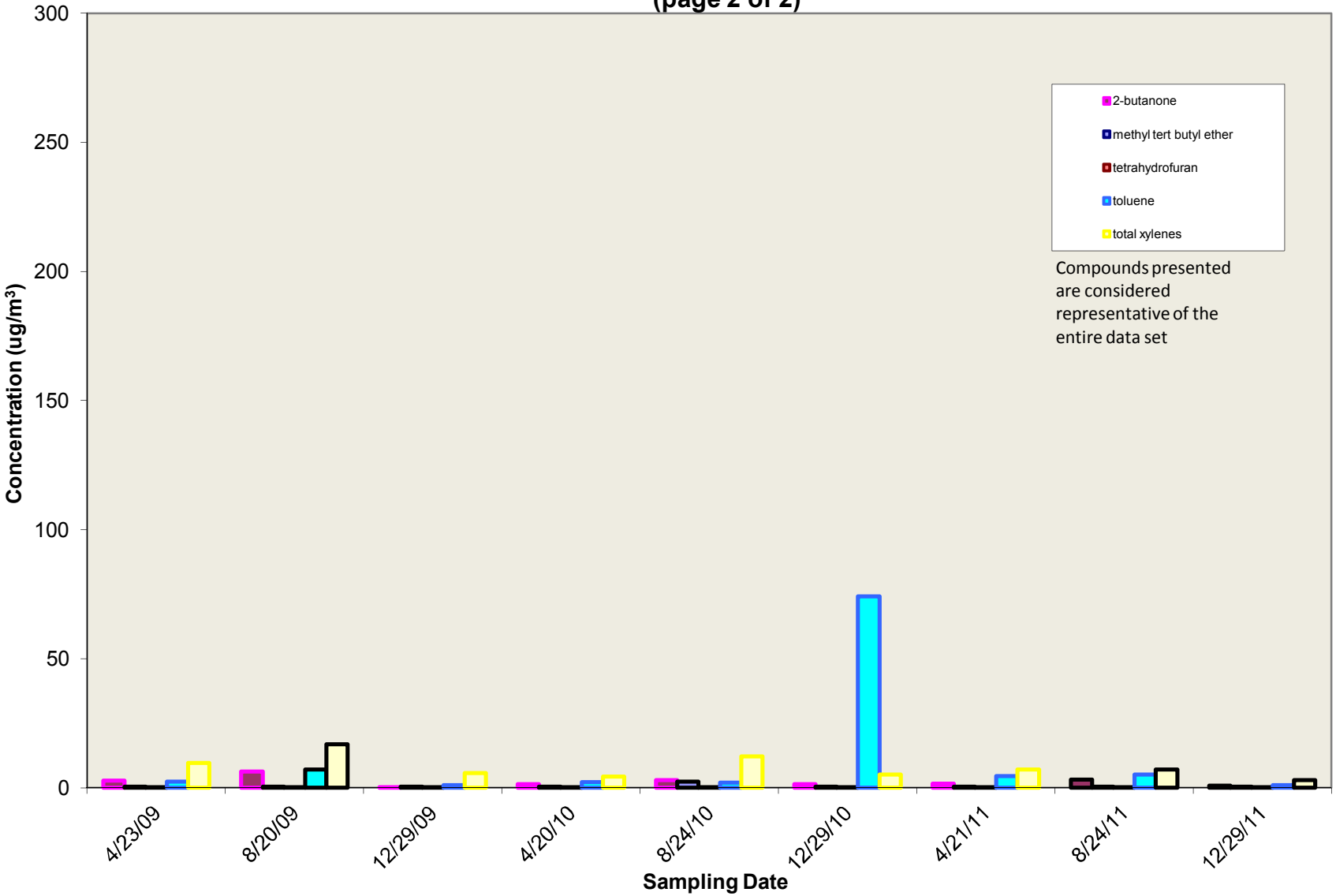
Each bar represents a single measurement. Bars outlined in black represent values reported by the laboratory as nondetect. For charting purposes these nondetect values are plotted as one half the reporting limit.

Figure 6-2. VOC Trends in KMS Building B (IAQ) - August 2006 through December 2011 (page 1 of 2)



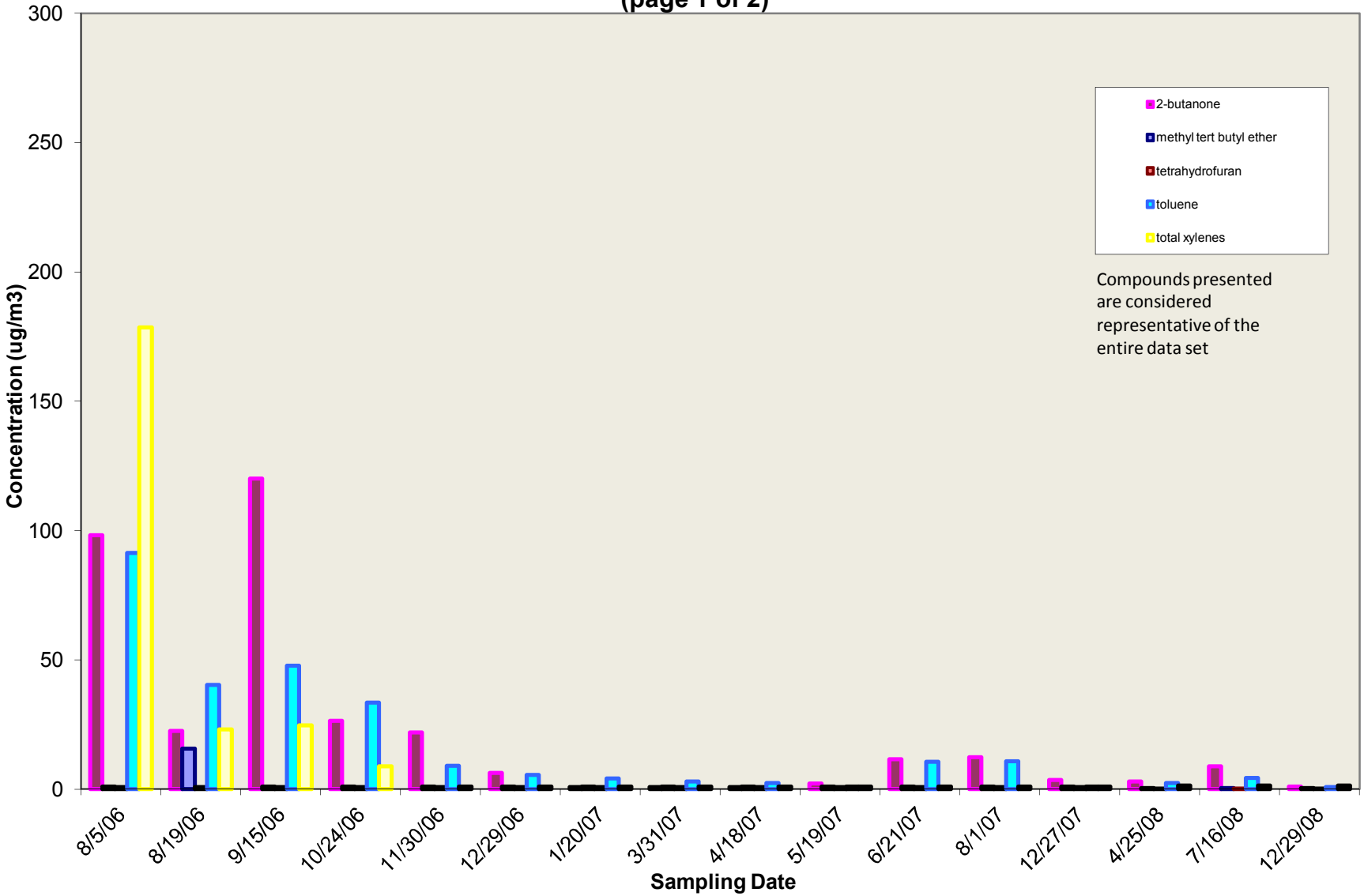
Each bar represents a single measurement. Bars outlined in black represent values reported by the laboratory as nondetect. For charting purposes these nondetect values are plotted as one half the reporting limit.

Figure 6-2. VOC Trends in KMS Building B (IAQ) - August 2006 through December 2011 (page 2 of 2)



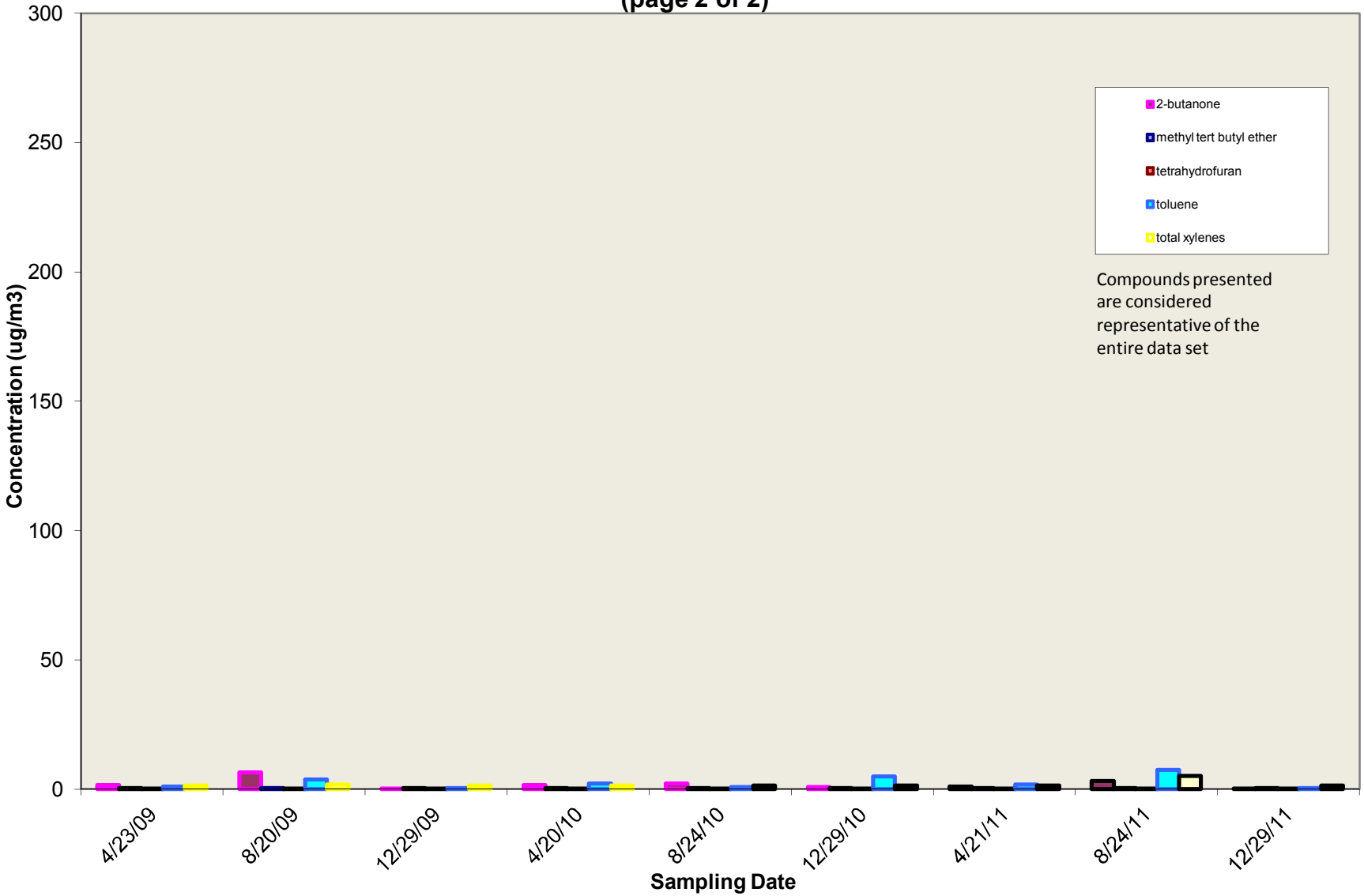
Each bar represents a single measurement. Bars outlined in black represent values reported by the laboratory as nondetect. For charting purposes these nondetect values are plotted as one half the reporting limit.

Figure 6-3. VOC Trends in KMS Building C (IAQ) - August 2006 through December 2011 (page 1 of 2)



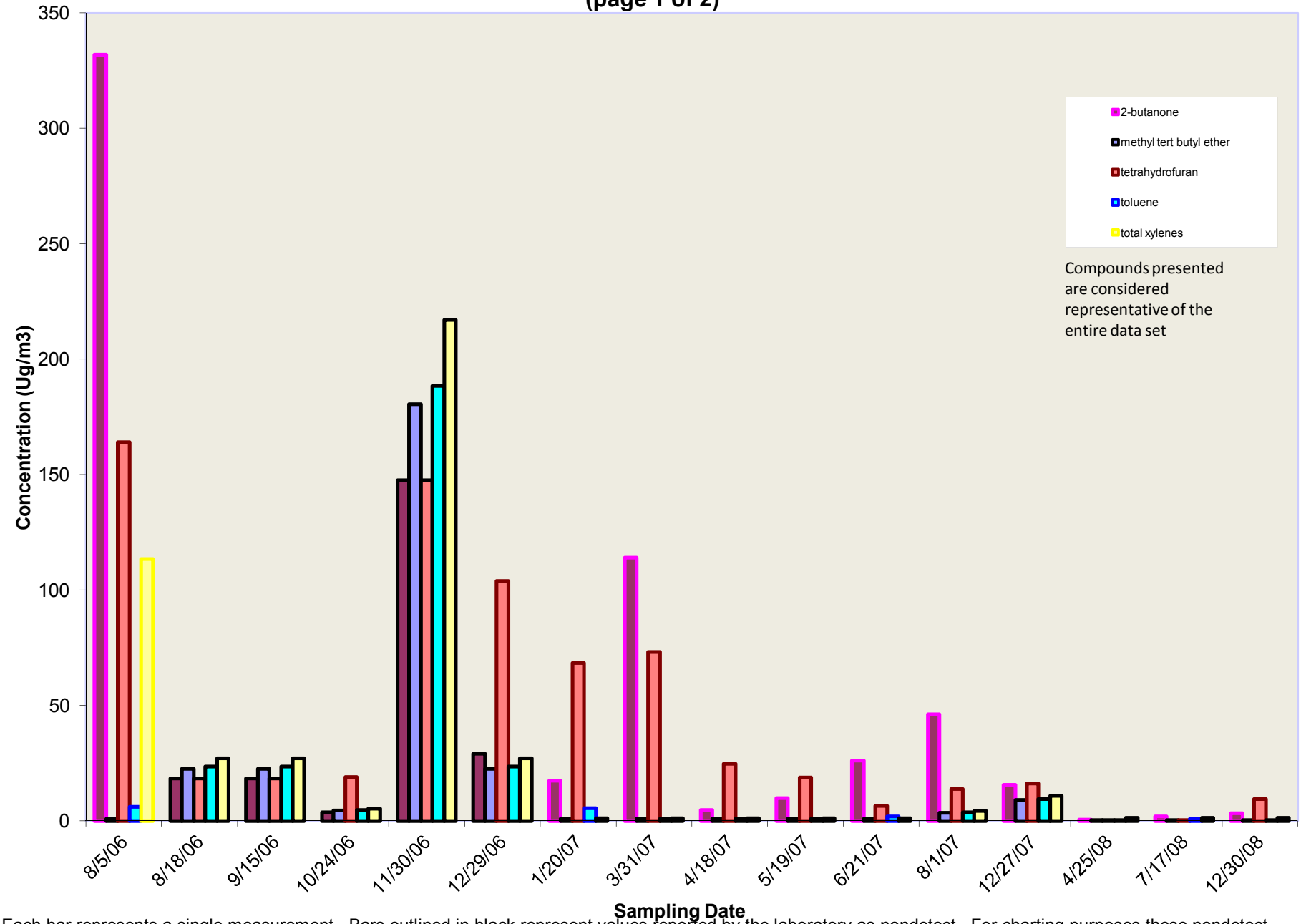
Each bar represents a single measurement. Bars outlined in black represent values reported by the laboratory as nondetect. For charting purposes these nondetect values are plotted as one half the reporting limit.

Figure 6-3. VOC Trends in KMS Building C (IAQ) - August 2006 through December 2011 (page 2 of 2)



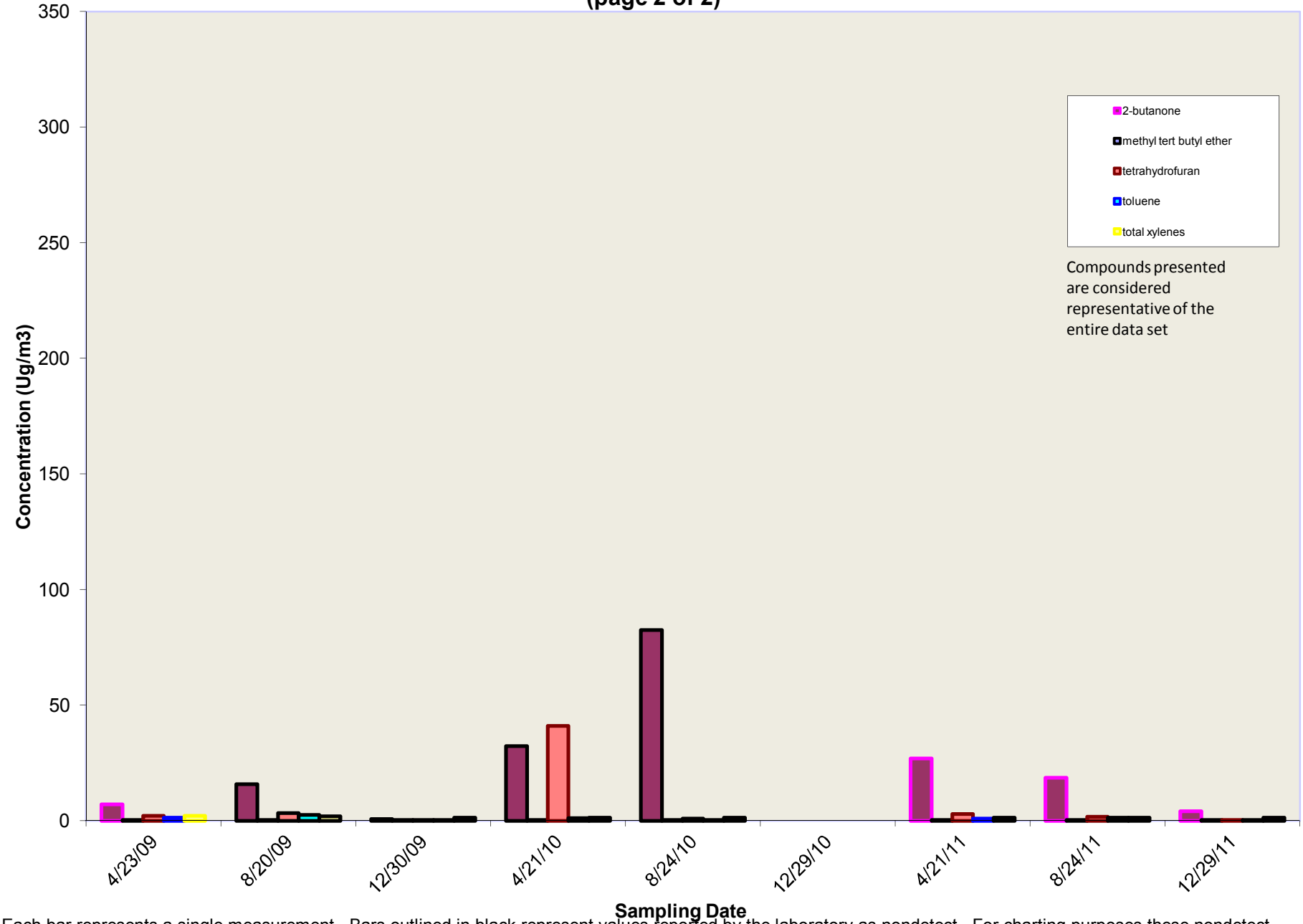
Each bar represents a single measurement. Bars outlined in black represent values reported by the laboratory as nondetect. For charting purposes these nondetect values are plotted as one half the reporting limit.

Figure 6-4. VOC Trends in KMS Vent Stack VS-1 - August 2006 through December 2011 (page 1 of 2)



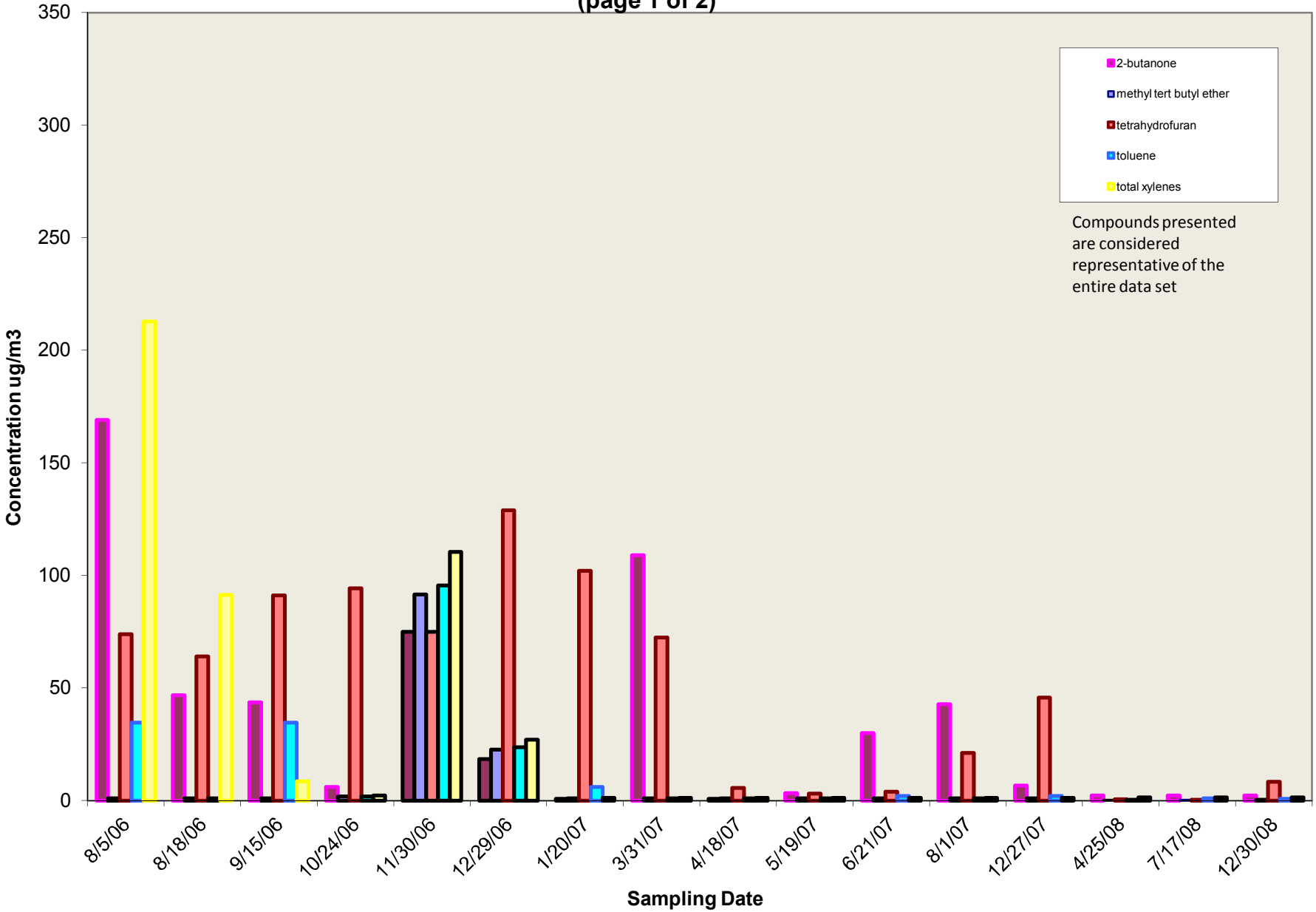
Each bar represents a single measurement. Bars outlined in black represent values reported by the laboratory as nondetect. For charting purposes these nondetect values are plotted as one half the reporting limit.

Figure 6-4. VOC Trends in KMS Vent Stack VS-1 - August 2006 through December 2011 (page 2 of 2)



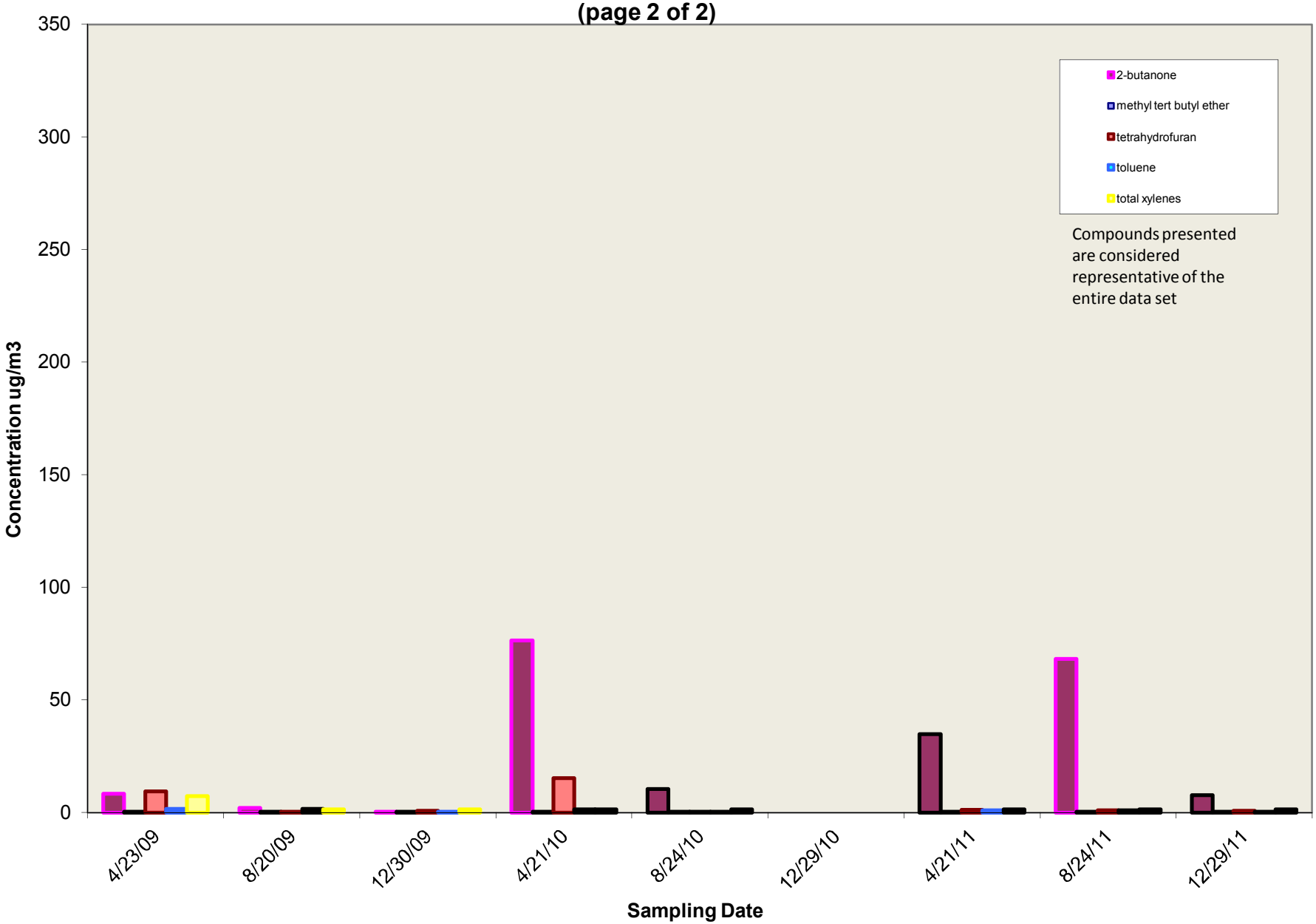
Each bar represents a single measurement. Bars outlined in black represent values reported by the laboratory as nondetect. For charting purposes these nondetect values are plotted as one half the reporting limit.

Figure 6-5. VOC Trends in KMS Vent Stack VS-4 - August 2006 through December 2011 (page 1 of 2)



Each bar represents a single measurement. Bars outlined in black represent values reported by the laboratory as nondetect. For charting purposes these nondetect values are plotted as one half the reporting limit.

Figure 6-5. VOC Trends in KMS Vent Stack VS-4 - August 2006 through December 2011 (page 2 of 2)



Each bar represents a single measurement. Bars outlined in black represent values reported by the laboratory as nondetect. For charting purposes these nondetect values are plotted as one half the reporting limit.

APPENDIX A

SUMMARY OF FIELD SAMPLING PROGRAM, ANALYTICAL PROGRAM, AND QUALITY ASSURANCE

1.0 FIELD SAMPLING PROGRAM

1.1 Overview

This section describes the procedures that TRC followed during the field sampling program.

1.2 Indoor Air Quality Sampling

Each of the indoor air quality field samples was collected by TRC over the course of one 24-hour test period. Indoor air quality samples were collected for analysis of PCBs by EPA Method TO-4A and VOCs by EPA Method TO-15.

1.2.1 Method TO-4A

Indoor air quality (IAQ) samples were collected for PCBs following the procedures described in the EPA Compendium Method TO-4A, ***Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using High Volume Polyurethane Foam (PUF) Sampling followed by Gas Chromatographic/Multi-Detector Detection (GC/MD)***, *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition*, USEPA, January 1999.

TRC placed a high volume sampler at each PCB indoor air sampling location. A multi-point calibration was performed on each high volume sampler prior to sample collection using a calibrated orifice. A polyurethane foam (PUF) sampling cartridge was then unsealed and inserted into the high volume sampler and the sampler turned on. The start time, elapsed hours counter reading, and flow rate (magnehelic reading) were then recorded on a data sheet. After 24 hours of sampling, the elapsed hours counter reading and flow rate (magnehelic reading) were recorded on a data sheet along with the stop time. The PUF cartridge was then removed from the sampler, sealed, and labeled. A single-point post sampling calibration audit was performed to document that the high volume sampler remained calibrated.

Following the collection of the TO-4A samples, the total volume of ambient air sampled for each cartridge was calculated based on the duration of sampling and the average flow rate, as determined from the initial and final flow rates.

The data sheets are provided in Appendix B and the reduced data are presented in Appendix C. The calibration certifications of the critical orifice can be found in Appendix D.

1.2.2 Method TO-15

IAQ samples were collected for VOCs following the procedures described in the EPA Compendium Method TO-15, ***Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)***, *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition*, USEPA, January 1999.

At each sampling location a six-liter evacuated SUMMA™ canister was set up with a flow-controller set to collect a sample over a 24-hour sampling period, and the canister valve opened. The flow controllers are pre-set by the laboratory performing the VOC analysis. The start time, SUMMA™ canister and flow-controller serial numbers, and SUMMA™ canister initial vacuum are then recorded on a data sheet. After 24 hours of sampling, the SUMMA™ canister valve was closed and the final SUMMA™ canister vacuum and stop time recorded

The data sheets can be found in Appendix B and the reduced data can be found in Appendix C.

1.3 Foundation Vent Air Sampling

Each of the vent air field samples was collected by TRC over the course of a 4-hour test period. Vent air samples were collected for analysis of PCBs by EPA Method TO-10A and VOCs by EPA Method TO-15. Prior to sampling, all of the foundation vents were temporarily capped for approximately 24 hours. Just prior to sampling, TRC removed the caps from all vent stacks that were not being sampled to allow for the inflow of air. This approach is a modification to the procedure outlined in the LTMMIP to improve representativeness by allowing sample air to be drawn from the entire vent stack zone without potential stagnation of flow impacted by capped vent stacks.

1.3.1 Method TO-10A

Vent stack air samples were collected for PCBs following the procedures described in the EPA Compendium Method TO-10A, ***Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using High Volume Polyurethane Foam (PUF) Sampling followed by Gas Chromatographic/Multi-Detector Detection (GC/MD)***, *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition*, USEPA, January 1999.

In order to sample each vent stack without collecting ambient air, a cap with Teflon™ tubing penetrating through it was placed over the vent stack. Prior to capping the stack, a PUF sampling cartridge was unsealed and connected to the length of tubing that would extend inside the vent stack. The tubing on the opposite side of the cap (that would be outside of the vent stack after the cap was installed) was attached to a Dawson® vacuum pump. A vacuum was applied to the tubing and cartridge using the pump and the vacuum was adjusted so that a flow rate of five liters per minute (LPM) of air was flowing through the PUF. The flow rate was confirmed using a Bios Defender™ 520 primary gas flow calibrator. The cap was then placed over the vent stack with the PUF cartridge suspended in the stack. The start time and flow rate was then recorded on a data sheet. After 4 hours of sampling, the flow rate was confirmed using the bubble meter. The final flow rate and stop time are then recorded on the data sheet. The PUF cartridge was then disconnected from the tubing, sealed with the supplied end caps, placed into a sample jar and labeled.

Following the collection of all the TO-10A samples, the total volume of ambient air sampled for each cartridge was calculated based on the duration of sampling and the average flow rate, as determined from the initial and final flow rates.

The data sheets can be found in Appendix B and the reduced data can be found in Appendix C. The calibration certifications of the Bios Defender™ 520 primary gas flow calibrator can be found in Appendix D.

1.3.2 Method TO-15

Foundation vent stack samples were collected for VOCs following the procedures described in the EPA Compendium Method TO-15, ***Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)***, *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition*, USEPA, January 1999.

At each sampling location a 2.75-liter evacuated SUMMA™ canister was set up (connected to the vent stack air space via Teflon™ tubing) with a flow-controller set to collect a sample over a 4-hour sampling period, and the canister valve opened. The flow controllers are pre-set by the laboratory performing the VOC analysis. The start time, SUMMA™ canister and flow-controller serial numbers, and SUMMA™ canister initial vacuum are then recorded on a data sheet. After 4 hours of sampling, the SUMMA™ canister valve was closed and the final SUMMA™ canister vacuum and stop time recorded

The data sheets can be found in Appendix B and the reduced data can be found in Appendix C.

2.0 ANALYTICAL PROGRAM

Samples collected by EPA Method TO-10A and TO-4A were prepared by the Soxhlet Extraction Method (EPA Method 3540C/TO-4A) and analyzed by gas chromatography/mass spectroscopy (EPA Method 680) for PCB Homologue distribution. Though the LTMMIP specified that PCBs were to be analyzed by the congener analytical method, the homologue analytical method is as reliable as the congener analytical method in quantifying total PCBs which is the basis for the EPA Action Level (0.05 $\mu g/m^3$) and Acceptable Long-Term Average Exposure Concentration (0.3 $\mu g/m^3$) described in Section 5 and Appendix G. In addition, by quantifying PCB homologues, total PCB air data gathered at the KMS are directly comparable to total PCB air data gathered at the high school since both are based on homologues rather than congeners, which greatly facilitates communication and discussion with the general public on the results of analyses.

Samples collected by EPA Method TO-15 were analyzed by gas chromatography/mass spectroscopy (EPA Method TO-15) for volatile organic compounds. Laboratory analytical results are presented in Appendix E.

3.0 QUALITY ASSURANCE

3.1 Overview

TRC management is fully committed to an effective Quality Assurance/Quality Control (QA/QC) Program whose objective is the delivery of a quality product. For much of TRC's work, that product is data developed from field measurements, sampling and analysis activities, engineering assessments, and the analysis of gathered data for planning purposes. TRC's QA/QC Program works to provide complete, precise, accurate, representative data in a timely manner for each project, considering both the project's needs and budget.

This section highlights the specific QA/QC procedures that were followed during this sampling and analysis program.

3.2 Field Quality Control Summary

Calibrations of the field sampling equipment were performed prior to the field sampling effort. Copies of the calibration sheets were submitted to the Field Team Leader to take onsite and placed in the project file. Calibrations were performed as described in the EPA 40 CFR Part 50 Appendix B. All calibrations were available for review during the test program. Copies of the equipment calibration forms can be found in Appendix D. All instrument calibrations met the performance criteria defined in 40 CFR 50 Appendix B.

3.3 Data Reduction and Validation

Specific QC measures were used to ensure the generation of reliable data from sampling and analysis activities. Proper collection and organization of accurate information followed by clear and concise reporting of the data is a primary goal in all projects.

3.3.1 Field Data Reduction

Appendix B of this document presents the standardized forms that were used to record field sampling data. The data collected was reviewed in the field by the Field Team Leader and at least one other field crewmember. Errors or discrepancies were noted in the field book.

3.3.2 Data Validation

TRC supervisory and QC personnel used validation methods and criteria appropriate to the type of data and the purpose of the measurement. Records of all data were maintained, including that judged as an "outlying" or spurious value. The persons validating the data have sufficient knowledge of the technical work to identify questionable values.

Field sampling data was validated by the Field Team Leader and/or the Field QC Coordinator based on their review of adherence to each approved sampling protocol and written sample collection procedure.

The following criteria were used to evaluate the field sampling data:

- Use of approved test procedures;
- Proper operation of the process being tested;
- Use of properly operating and calibrated equipment;
- Proper chain-of-custody maintained.

Laboratory analytical data was validated by TRC chemists. The sample results were assessed using the EPA New England Data Validation Functional Guidelines for Evaluating Environmental Analyses, revised December 1996. Modification of these guidelines was performed to accommodate the non-CLP methodology.

Sample data were reviewed for the following parameters:

- Agreement of analyses conducted with TRC requests
- Holding times and sample preservation
- Gas chromatography/mass spectrometry (GC/MS) tunes
- Initial and continuing calibrations
- Method blanks
- System Monitoring Compound recoveries
- Laboratory control sample (LCS) and LCS Duplicate (LCSD) results
- Internal standard performance
- Field duplicate results
- Quantitation limits and sample results

The laboratory data validation memoranda can be found in Appendix F. All data are reported in standard units depending on the measurement and the ultimate use of the data.

3.4 Collocated Sampler Precision

Single collocated sampler pairs were included for both indoor and vent stack air (PCBs and VOCs) during each sampling event. Collocated samplers were operated for the same duration at near identical flow rates and were in close proximity to each other so as to represent near identical air space. The data resulting from the analyses of the collocated sampler pairs were used to define the precision of the combined sample collection and analyses scheme.

Precision was determined by the collection and analysis of replicate samples and is expressed as the relative percent difference (RPD), which is determined according to the following equation:

$$RPD = \left[\frac{X_1 - X_2}{\frac{X_1 + X_2}{2}} \right] x\ 100$$

where X_1 and X_2 are the measurement results of each replicate sample expressed as an absolute value (always positive).

4.0 INVENTORY OF CLEANING SUPPLIES AND INGREDIENTS

The following bulleted list provides an inventory of cleaning supplies and their ingredients which are likely contributing to the detection of VOCs in the indoor air quality samples:

- Butchers Heptagon Disinfectant Spray
    - Active ingredients:
        - n-alkyl(60% C_{14}, 30% C_{16}, 5% C_{12}, 5% C_{18})dimethylbenzyl ammonium chlorides
        - n-alkyl(68% C_{12}, 32% C_{14})dimethylbenzyl ammonium chlorides
- Eclipse Neutral All Purpose Cleaner
    - Water
    - modified amine condensate
    - tetrapotassium
    - pyrophosphate
- Rebound Cleaner/Enhancer
    - Water
    - Polyethylene glycol
    - Nonionic surfactant
    - Monoethanol amine
- Concentrate 117 – oxidizing multipurpose cleaner
    - Active ingredient:
        - Hydrogen Peroxide – 3.95%
- Misco Disinfectant cleaner -- mint -- HI-Con 64
    - Active ingredients:
        - Didecyldimethyl ammonium chloride (2.54%)
        - N-alkyl(C_{14} 50%, C_{12} 40%, C_{16} 10%)dimethyldibenzyl ammonium chloride
- Butchers Command Center Breakdown
    - Water
    - Alcohol ethoylate
    - Sodium xylene sulfonate
    - Bacillus spores
- Butchers Command Center Look
    - “see MSDS MS040015”
- Butchers Major Max Spray Buff
    - Water
    - Triethylene glycol
    - Dipropylene glycol

- First Step Sealer Acrylic Floor Sealer
    - Water
    - Aqueous acrylic emulsion
    - Ethanol 2-(2-methoxy ethoxy)
    - Ethanol 2-(2-ethoxy ethoxy)
    - Tributoxy ethyl phosphate
- Simplex Shine Up
    - Water
    - Petroleum distillates
    - Isobutene/propane blend
    - Petroleum solvent

APPENDIX B

SAMPLING DATA

Keith Middle School Sampling Data Sheet
Vent Air Sampling

Round 28

Setup Date: 12/29/11
Recovery Date: 12/29/11

Sampler(s): D. Gill
Sampler(s): M. O'Brien

TO-15A							
	Time		Vacuum (in Hg)		SUMMA Serial No.:	Flow Controller Serial No.:	Starting Flow Rate
Location	Start	Stop	Start	Finish			
VS-8	1007	1405	29.4	5.55	188	146	8.7
VS-8 Dup	1007	1405	27.8	2.85	407	256	8.6
VS-12	1013	1413	29.79	8.24	382	352	9.0
VS-4	1023	1421	29.99	2.92	213	206	8.5
VS-1	1026	1425	28.64	1.51	349	130	8.5
BG	1033	1448	29.54	0.0	157	290	9.0
TB	—	—	—	—	205	250	9.0

TO-10A				
	Time		Flow Rate (LPM)	
Location	Start	Stop	Start	Finish
VS-8	1007	1405	4920	4513
VS-8 Dup	1007	1405	4990	4021
VS-12	1013	1413	5080	501
VS-4	1023	1421	5030	5001
VS-1	1026	1425	5040	4.71
BG	1033	1448	5000	4.74

mls per min

-ICE.
-ICE

Dry Cell Bios Defaulted 530
SN/119011
Cal - 8/17/2011

TRC

EM 1-10-12

Keith Middle School Sampling Data Sheet
Ambient Air Sampling

ROUND 28

Setup Date: 12/28/11
Recovery Date: 12/29/11

Sampler(s): D. Gill / M. O'Brien
Sampler(s):

TO-15A							
	Time		Vacuum (in Hg)		SUMMA	Flow Controller	Starting Flow
Location	Start	Stop	Start	Finish	Serial No.:	Serial No.:	Rate
C	203	1510	27.68	7.02	1516	281	3.3
B	207	1515	29.15	9.44	1655	139	3.2
A	210	1457	29.25	9.98	634	428	3.2
BG	213	1452	29.08	8.90	939	248	3.2
BG-Dup	213	1452	28.72	9.32	641	228	3.2
TRIP BLANK	—	—	—	—	1660	117	3.1

TO-4A								
					Sampler			
	Time		PUF	Serial	Counter (Hrs)		Flow Rate (Mag Reading)	
Location	Start	Stop	Number	Number	Start	Finish	Initial	Final
C	203	1510	—	005	~~537.7~~ 537.09	562.21	53	52
B	207	1515		003	536.86	561.99	50	46
A	210	1457		002	146.16	170.96	50	48
BG	213	1452		004	559.39	584.06	50	50
BG-DUP	213	1452		001	508.53	533.19	50	50

1-10-12

TRC

APPENDIX C

FIELD REDUCED DATA

INDOOR SAMPLING LOCATIONS

Average Temp (oF/ K): 67.0 292.4

Average Baro. Press ("Hg / mmHg): 29.71 754.6

Thursday, December 29, 2011

Location		Serial #	m_s	b_s	Start Reading ("H2O)	Start Reading (lpm)	Stop Reading ("H2O)	Stop Reading (lpm)	Avg. Reading ("H2O)	RPD of Start and Stop Readings	Avg. Flow (lpm)	Start time (hr)	Stop Time (hr)	Total Sample Time (min)	Total Actual Sample Volume (m^3)
A-Hallway	TO-4A	820	0.031	-0.967	50		48		49	4.08	255	146.16	170.96	1488	379.9
B- (Auditorium)	TO-4A	823	0.031	-0.928	50		46		48	8.33	252	536.8	561.99	1511	380.5
C-Lounge	TO-4A	821	0.029	-0.199	53		52		52.5	1.90	255	537.09	562.21	1507	384.6

Note:

1-10-12

OUTDOOR SAMPLING LOCATIONS

Average Temp (oF/ K): 31.4 272.7

Average Baro Press ("Hg / mmHg): 29.71 754.6

Thursday, December 29, 2011

Location		Serial #	m_s	b_s	Start Reading ("H2O)	Start Reading (lpm)	Stop Reading ("H2O)	Stop Reading (lpm)	Avg. Reading ("H2O)	RPD of Start and Stop Readings	Avg. Flow (lpm)	Start time (hr)	Stop Time (hr)	Total Sample Time (min)	Total Actual Sample Volume (m^3)
BG-28	TO-4A	822	0.037	-2.598	50		50		50	0.00	248	559.39	584.06	1480	367.3
BG-28-Dup	TO-4A	825	0.035	-2.476	50		50		50	0.00	259	508.53	533.19	1480	383.4
VS-1-28	TO-10A					5.04		4.71		6.77	4.88	10:26	14:25	239	1.17
VS-4-28	TO-10A					5.03		5.00		0.60	5.02	10:23	14:21	238	1.19
VS-12-28	TO-10A					5.08		0.50		164.09	2.79	10:13	14:13	240	0.67
VS-8-28	TO-10A					4.94		4.51		9.10	4.73	10:07	14:05	238	1.12
VS-8-28-DUP	TO-10A					4.99		4.02		21.53	4.51	10:07	14:05	238	1.07
VS-BG-28	TO-10A					5.00		4.74		5.34	4.87	10:33	14:48	255	1.24

Sample tubes were full of ice. No Flow VS-12 & 8

1-10-12

DATE	Time (est)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Temperature (°F) Air	Dwpt	6 hour Max.	6 hour Min.	Relative Humidity	Pressure altimeter (in.)	Pressure sea level (mb)	Precipitation (in.) 1 hr	3 hr	6 hr		
30	11:53	S 12	10	Overcast	BKN035 OVC042	50	38			63%	30.04	1017.2					
30	10:53	SW 16	10	Overcast	FEW034 OVC090	50	36			59%	30.06	1017.8					
30	9:53	SE 9	10	Partly Cloudy	SCT090	46	37			71%	30.08	1018.6					
30	8:53	Calm	10	A Few Clouds	FEW095	39	31			73%	30.08	1018.6					
30	7:53	Calm	10	Fair	CLR	28	22			78%	30.07	1018.4					
30	6:53	Calm	10	A Few Clouds	FEW090	28	22	30	26	78%	30.06	1018					
30	5:53	Calm	10	Overcast	FEW060 OVC090	29	23			78%	30.06	1017.9					
30	4:53	Calm	10	Overcast	OVC090	28	21			75%	30.05	1017.8					
30	3:53	Calm	10	Mostly Cloudy	SCT060 BKN080	29	19			66%	30.05	1017.5					
30	2:53	Calm	10	Overcast	OVC060	28	20			72%	30.07	1018.2					
30	1:53	Calm	10	Partly Cloudy	SCT120	28	17			63%	30.05	1017.8					
30	0:53	Calm	10	Overcast	OVC060	28	17	31	27	63%	30.05	1017.5					
29	23:53	Calm	10	Overcast	SCT043 OVC050	31	14			49%	30.05	1017.5					
29	22:53	W 3	10	Overcast	BKN043 OVC060	31	12			45%	30.04	1017.5					
29	21:53	W 7	10	Overcast	OVC090	30	11			45%	30.03	1016.8					
29	20:53	SW 6	10	Overcast	BKN080 OVC095	31	11			43%	30.01	1016.3					
29	19:53	SW 6	10	Mostly Cloudy	BKN100	29	13			51%	30.01	1016.1					
29	18:53	SW 3	10	Fair	CLR	29	12	33	28	49%	29.99	1015.6					
29	17:53	SW 7	10	Fair	CLR	30	10			43%	29.98	1015.2					
29	16:53	W 7	10	Fair	CLR	31	6			35%	29.97	1015					
29	15:53	W 8	10	Fair	CLR	31	4			31%	29.95	1014.2					
29	14:53	W 12	10	Fair	CLR	33	5			30%	*29.93*	1013.5				***Post Cal Pressure***	
29	13:53	W 12 G 22	10	Fair	CLR	32	4			30%	29.91	1012.9					
29	12:53	W 15 G 23	10	Fair	CLR	31	3	32	23	30%	29.91	1012.8					
29	11:53	W 16 G 23	10	Fair	CLR	30	3			31%	29.91	1013					
29	10:53	W 10 G 21	10	Fair	CLR	29	2			31%	29.93	1013.5					
29	9:53	W 12 G 18	10	Fair	CLR	28	3			34%	29.94	1014					
29	8:53	W 15 G 20	10	Fair	CLR	26	4			38%	29.92	1013.4					
29	7:53	W 12 G 24	10	Fair	CLR	24	3			40%	29.89	1012.3					
29	6:53	W 15 G 21	10	Fair	CLR	23	2	29	23	40%	29.86	1011.2					
29	5:53	W 15 G 24	10	Fair	CLR	24	3			40%	29.81	1009.7					
29	4:53	W 15 G 24	10	Fair	CLR	25	6			44%	29.78	1008.6					
29	3:53	NW 16 G 32	10	Fair	CLR	28	6			42%	29.75	1007.4					
29	2:53	W 16 G 28	10	Fair	CLR	28	13			53%	29.73	1006.7					
29	1:53	W 12 G 23	10	Fair	CLR	29	14			54%	29.7	1005.7					
29	0:53	W 15 G 25	10	Fair	CLR	29	16	35	29	58%	29.68	1005					
28	23:53	W 21 G 29	10	Fair and Breezy	CLR	29	16			58%	29.66	1004.3					
28	22:53	W 22 G 30	10	Fair and Breezy	CLR	30	16			56%	29.64	1003.8					
28	21:53	W 22 G 33	10	Fair and Breezy	CLR	31	16			54%	29.62	1003					
28	20:53	W 20 G 29	10	Fair	CLR	32	17			54%	29.59	1002.1					
28	19:53	W 21 G 37	10	Fair and Breezy	CLR	33	18			54%	29.56	1000.9					
28	18:53	W 16 G 26	10	Fair	CLR	35	20	48	35	54%	29.53	999.8					
28	17:53	W 18 G 30	10	A Few Clouds	FEW043	37	21			52%	29.5	998.9					
28	16:53	W 22 G 38	10	Partly Cloudy and Breezy	SCT043	39	21			48%	29.46	997.7					
28	15:53	W 22 G 36	10	Partly Cloudy and Breezy	SCT045	42	27			55%	29.42	996.3					
28	14:53	W 20 G 26	10	Mostly Cloudy	SCT043 BKN055	45	30			56%	29.39	995.1				***Average Temp***	***Average Press***
28	13:53	W 15 G 26	10	Overcast	BKN047 OVC055	46	29			51%	29.36	994				***31.4***	***29.71***
28	12:53	W 15 G 24	10	Overcast	OVC065	45	33	48	42	63%	*29.34*	993.6				***Pre Cal Pressure***	
28	11:53	W 14 G 26	10	Light Rain	FEW028 OVC034	43	34			71%	29.34	993.6					
28	10:53	W 12 G 21	10	Overcast	BKN028 OVC036	47	37			69%	29.35	993.7					
28	9:53	W 12	10	Mostly Cloudy	FEW026 BKN070	47	37			69%	29.36	994.1					
28	8:53	SW 8	10	Overcast	OVC075	46	39			77%	29.35	993.8					
28	7:53	SW 7	10	A Few Clouds	FEW080	43	38			82%	29.34	993.5					
28	6:53	SW 9	10	Fair	CLR	43	39	57	43	86%	29.33	993.1			0.01		
28	5:53	SW 10	10	Fair	CLR	46	41			83%	29.32	992.7					
28	4:53	SW 8	10	Fair	CLR	48	43			83%	29.31	992.4					
28	3:53	SW 9	8	Overcast	OVC014	50	47			89%	29.31	992.3		0.01			
28	2:53	SW 10 G 21	7	Mostly Cloudy	BKN010	52	49			89%	29.31	992.5					
28	1:53	SW 13 G 24	6	Fog/Mist	OVC012	55	52			90%	29.32	992.8	0.01				
28	0:53	S 22 G 29	3	Light Rain Fog/Mist and Breezy	SCT007 BKN013 OVC020	57	54	57	50	90%	29.33	993.2	0.03		0.43		

APPENDIX D

EQUIPMENT CALIBRATION SHEETS

Network: **New Bedford** Site: **Keith Middle** Serial #: **2-820** Station #: **A**

Technician: **mo/DG** Date: **12/28/2011** OrificeS/N: **1125** Orif. Cal. Date: **5-Jan-11**

Reason for Puff Sampler Calibration: *Monthly Recal*

Amb. Temp, Ta (°C)	19.4	Bar. Press., Pa (in Hg)	**29.34**
Amb. Temp, Ta (K)	292.4	Bar. Press., Pa (mmHg)	745.2

Orifice Data

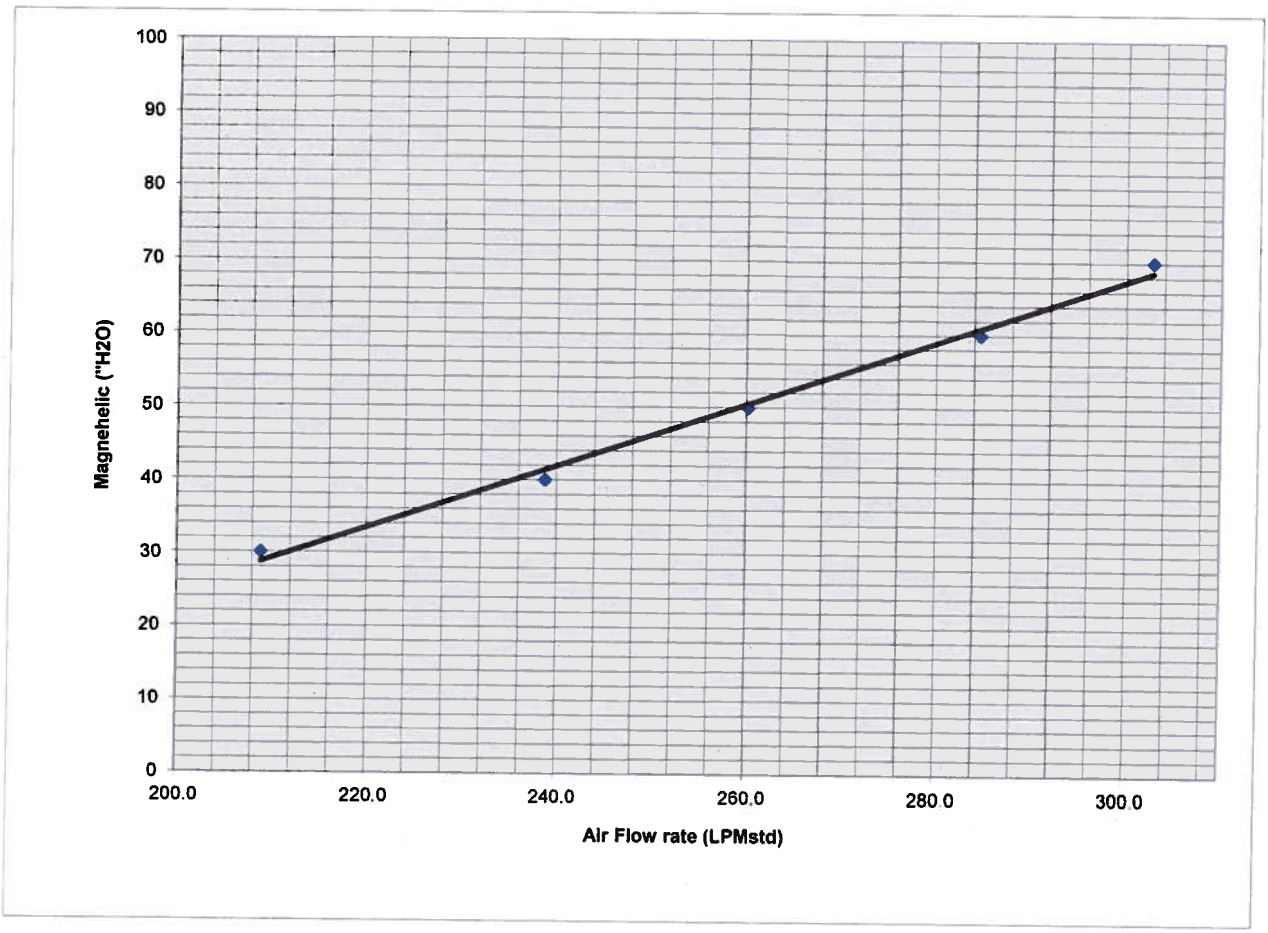
Qstd (m_o) = **8.71544** Qstd (b_o) = **-0.03240** Qstd (r_o) = **0.99993**

ΔH	Q_{std}	I	I_c
6.80	302.801	**70**	8.36
6.00	284.657	**60**	7.74
5.00	260.179	**50**	7.07
4.20	238.768	**40**	6.32
3.20	208.887	**30**	5.47

I_c = sqrt[I x 0.392 x (Pa/Ta)]

Qstd = {(1/mo) x sqrt[DH x (Pa/760) x (298/Ta) - bo]} x 1000

m_s = 0.031 b_s = -0.96704 r_s = 0.99937



Desired Flow Rate (lpm): 250 Sampler Setting: 46.1

m_{mag} = 0.425 b_{mag} = -60.10795 r_{mag} = 0.99668

Entered DJG 12/29/11

1-10-12

Network: **New Bedford** Site: **Keith Middle** Serial #: **3-823** Station #: **B**

Technician: **mo/DG** Date: **12/28/2011** OrificeS/N: **1125** Orif. Cal. Date: **5-Jan-11**

Reason for Puff Sampler Calibration: *Monthly Recal*

Amb. Temp, Ta (°C)	19.4	Bar. Press., Pa (in Hg)	**29.34**
Amb. Temp, Ta (K)	292.4	Bar. Press., Pa (mmHg)	745.2

Orifice Data

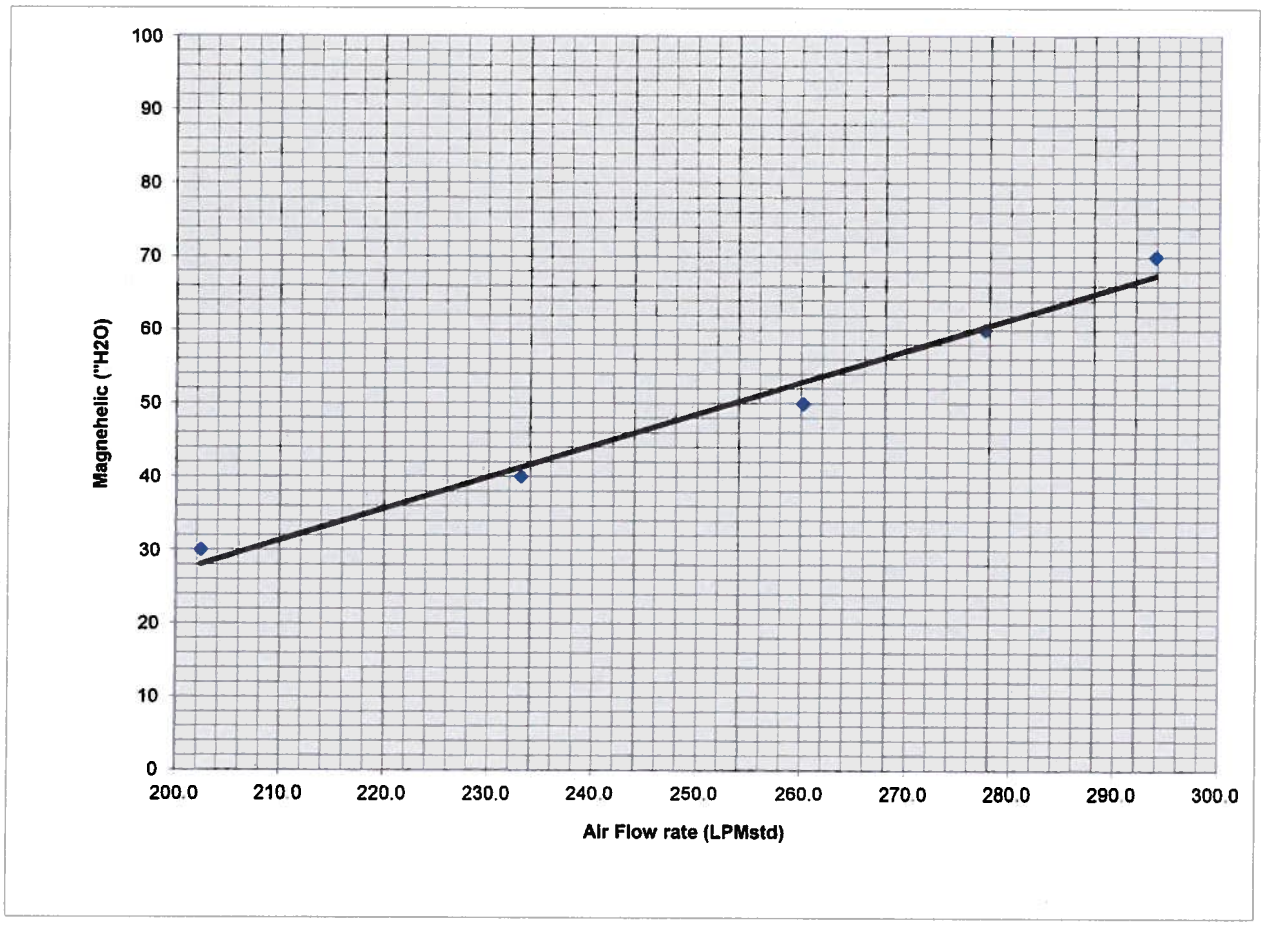
Qstd (m_o) = **8.71544** Qstd (b_o) = **-0.03240** Qstd (r_o) = **0.99993**

ΔH	Q_{std}	I	I_c
6.40	293.871	**70**	8.36
5.70	277.544	**60**	7.74
5.00	260.179	**50**	7.07
4.00	233.104	**40**	6.32
3.00	202.372	**30**	5.47

I_c = sqrt[I x 0.392 x (Pa/Ta)]

Qstd = {(1/mo) x sqrt[DH x (Pa/760) x (298/Ta) - bo]} x 1000

m_s = 0.031 b_s = -0.92798 r_s = 0.99643



Desired Flow Rate (lpm): 250 Sampler Setting: 48.5

m_{mag} = 0.431 b_{mag} = -59.10590 r_{mag} = 0.98956

Entered DSG 12/28/11

1-10-12

Network: **New Bedford** Site: **Keith Middle** Serial #: **5-821** Station #: **C**

Technician: **mo/DG** Date: **12/28/2011** OrificeS/N: **1125** Orif. Cal. Date: **5-Jan-11**

Reason for Puff Sampler Calibration: *Monthly Recal*

Amb. Temp, Ta (°C)	19.4	Bar. Press., Pa (in Hg)	**29.34**
Amb. Temp, Ta (K)	292.4	Bar. Press., Pa (mmHg)	745.2

Orifice Data

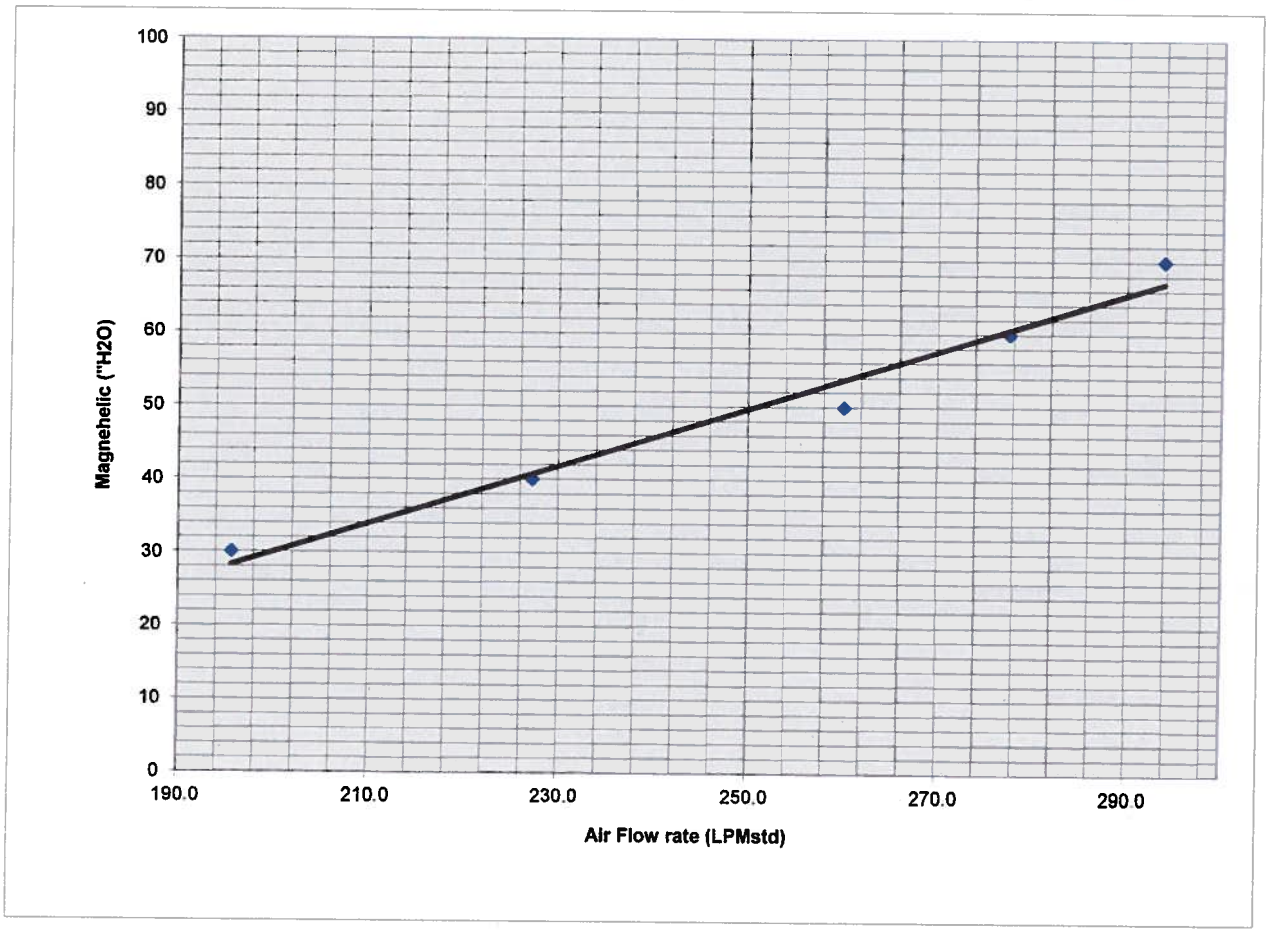
Qstd (m_o) = **8.71544** Qstd (b_o) = **-0.03240** Qstd (r_o) = **0.99993**

ΔH	Q_{std}	I	I_c
6.40	293.871	**70**	8.36
5.70	277.544	**60**	7.74
5.00	260.179	**50**	7.07
3.80	227.296	**40**	6.32
2.80	195.636	**30**	5.47

I_c = sqrt[I x 0.392 x (Pa/Ta)]

Qstd = {(1/mo) x sqrt[DH x (Pa/760) x (298/Ta) - bo]} x 1000

m_s = 0.029 b_s = -0.19872 r_s = 0.99420



Desired Flow Rate (lpm): 250 Sampler Setting: 49.6

m_{mag} = 0.395 b_{mag} = -48.98475 r_{mag} = 0.98657

DSG 12/28/11 Entered

1-10-12

Network: **New Bedford** Site: **Keith Middle** Serial #: **4-822** Station #: **BG**

Technician: **mo/DG** Date: **12/28/2011** OrificeS/N: **1125** Orif. Cal. Date: **5-Jan-11**

Reason for Puff Sampler Calibration: *Monthly Recal*

Amb. Temp, Ta (°C)	19.4	Bar. Press., Pa (in Hg)	**29.34**
Amb. Temp, Ta (K)	292.4	Bar. Press., Pa (mmHg)	745.2

Orifice Data

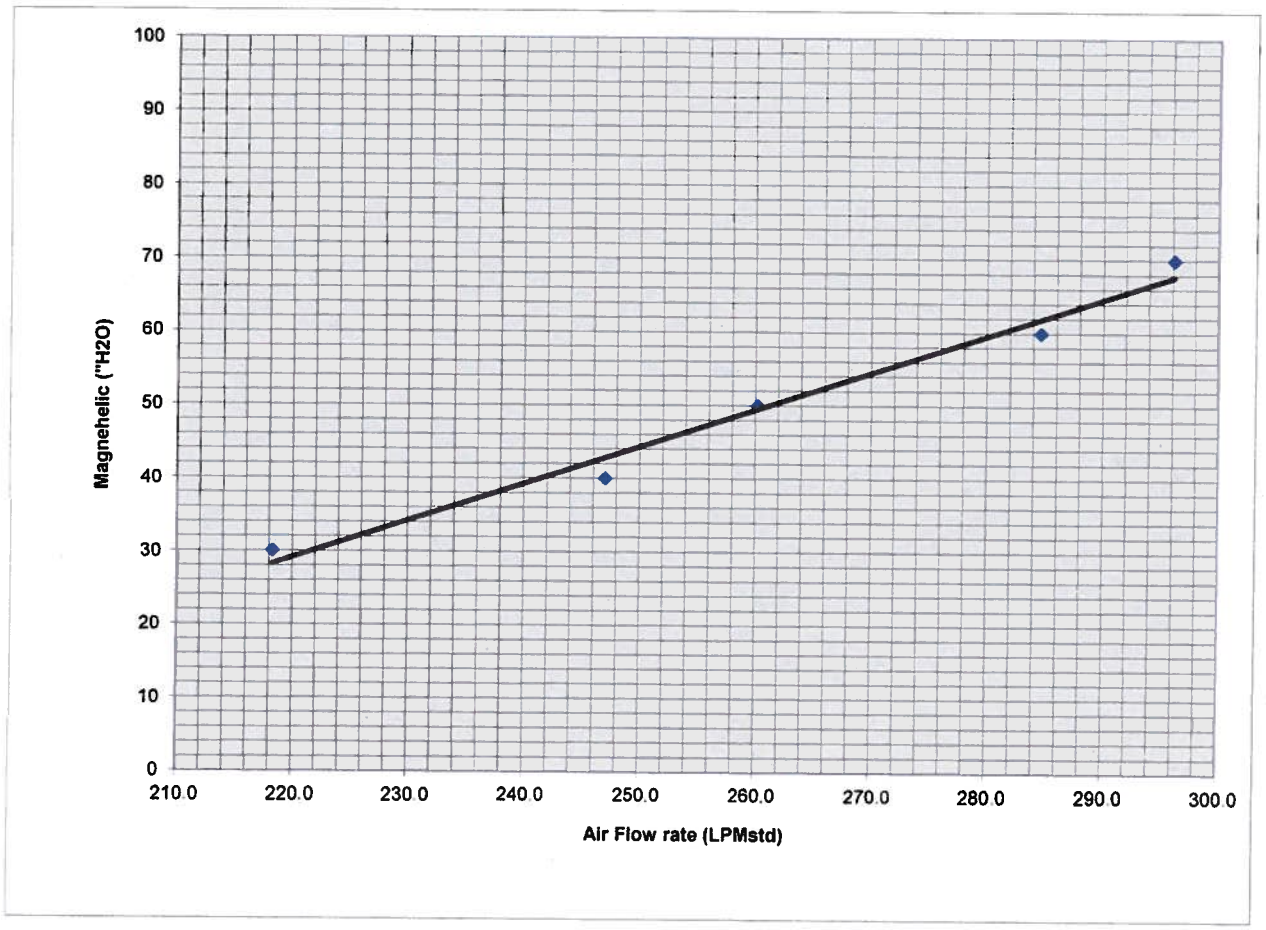
Qstd (m_o) = **8.71544** Qstd (b_o) = **-0.03240** Qstd (r_o) = **0.99993**

ΔH	Q_{std}	I	I_c
6.50	296.129	**70**	8.36
6.00	284.657	**60**	7.74
5.00	260.179	**50**	7.07
4.50	247.018	**40**	6.32
3.50	218.289	**30**	5.47

I_c = sqrt[I x 0.392 x (Pa/Ta)]

Qstd = {(1/mo) x sqrt[DH x (Pa/760) x (298/Ta) - bo]} x 1000

m_s = 0.037 b_s = -2.59762 r_s = 0.99434



Desired Flow Rate (lpm): 250 Sampler Setting: 44.3

m_{mag} = 0.507 b_{mag} = -82.42873 r_{mag} = 0.98991

Entered DJG 12/28/11

1-10-12

Network: **New Bedford** Site: **Keith Middle** Serial #: **1-825** Station #: **BG-DUP**

Technician: **mo/DG** Date: **12/28/2011** OrificeS/N: **1125** Orif. Cal. Date: **5-Jan-11**

Reason for Puff Sampler Calibration: *Monthly Recal*

Amb. Temp, Ta (°C)	19.4	Bar. Press., Pa (in Hg)	**29.34**
Amb. Temp, Ta (K)	292.4	Bar. Press., Pa (mmHg)	745.2

Orifice Data

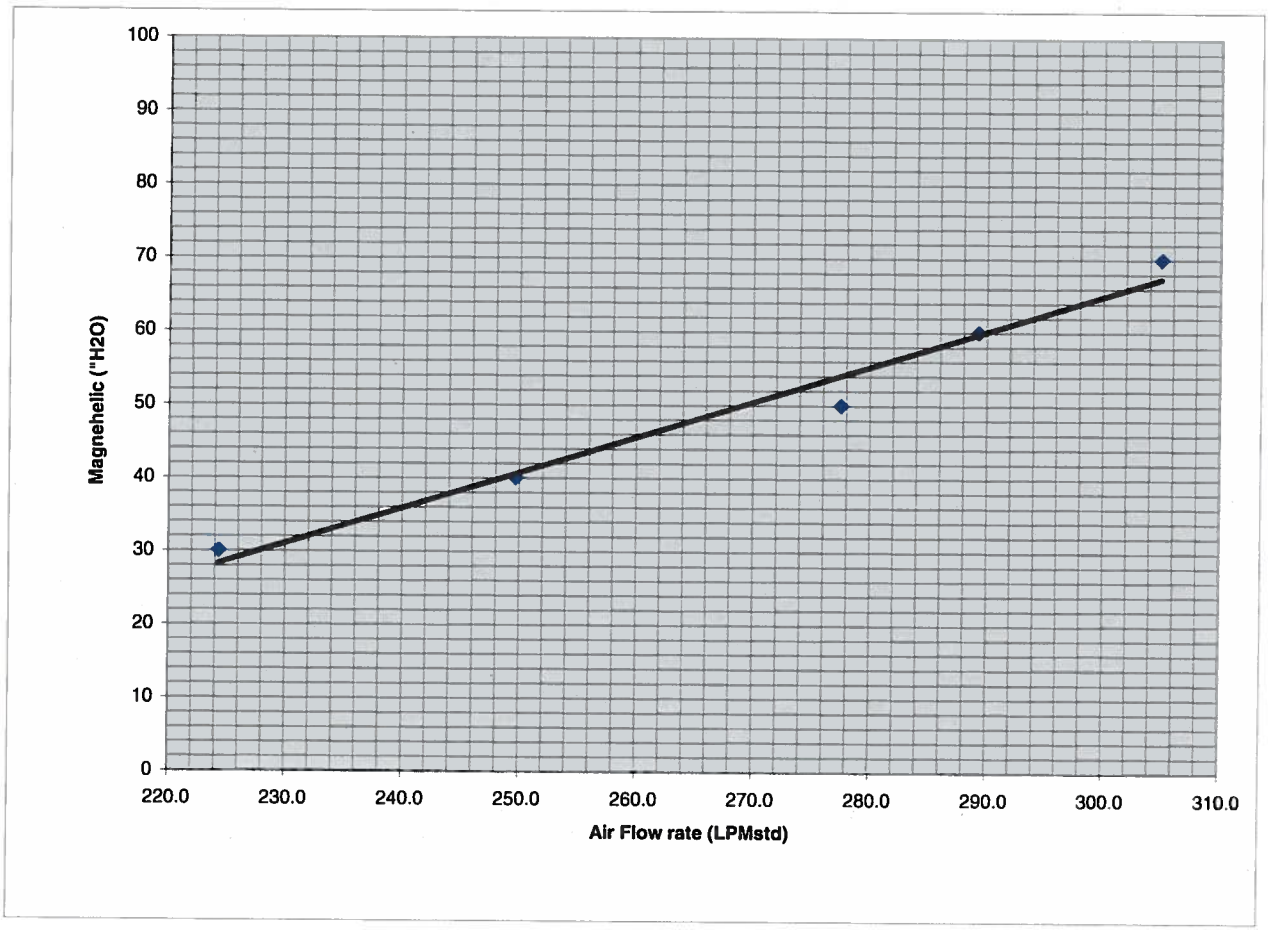
Qstd (m_o) = **8.71544** Qstd (b_o) = **-0.03240** Qstd (r_o) = **0.99993**

ΔH	Q_{std}	I	I_c
6.90	304.992	**70**	8.36
6.20	289.301	**60**	7.74
5.70	277.544	**50**	7.07
4.60	249.707	**40**	6.32
3.70	224.334	**30**	5.47

I_c = sqrt[I x 0.392 x (Pa/Ta)]

Qstd = {(1/mo) x sqrt[DH x (Pa/760) x (298/Ta) - bo]} x 1000

m_s = 0.035 b_s = -2.47596 r_s = 0.99367



Desired Flow Rate (lpm): 250 Sampler Setting: 40.7

m_{mag} = 0.484 b_{mag} = -80.38710 r_{mag} = 0.98651

Entered DJG 12/28/11

1-10-12

PS-1 Post-Sampling Flow Audit

Qstd Orifice (m^3/min) = (1/m_o)*(SQRT(H_o*(Tstd/Pstd))-b_o))
Qstd Sampler (m^3/min) = (1/m_s)*(SQRT(H_s*(Tstd/Pstd))-b_s)/1000
% Difference = ((Qact Orifice - Qact Sampler) / Qact Orifice)*100

12/29/2011

Press ("Hg): 29.93 Press - P_a (mmHg): 760.2

	Temp (°C):	Temp - T_a (K):	Sampler Serial #	Sampler Reading - H_s ("h20)	Orifice Reading - H_o ("h20)	Orifice #	Orifice Slope - m_o	Orifice Intercept - b_o	**Qstd Orifice**	Sampler #	Sampler Slope - m_s	Sampler Intercept - b_s	**Qstd Sampler**	**% Difference**
A-28	19.4	292.4	820	50	4.90	1125	8.71544	-0.03240	**0.260**	820	**0.031**	**-0.96704**	**0.261**	**-0.52**
B-28	19.4	292.4	823	50	4.80	1125	8.71544	-0.03240	**0.258**	823	**0.031**	**-0.92798**	**0.260**	**-1.05**
C-28	19.4	292.4	821	50	5.00	1125	8.71544	-0.03240	**0.263**	821	**0.029**	**-0.19872**	**0.253**	**3.70**
BG-28	19.4	292.4	822	50	5.10	1125	8.71544	-0.03240	**0.265**	822	**0.037**	**-2.59762**	**0.263**	**0.82**
BG-DUP-28	19.4	292.4	825	50	5.00	1125	8.71544	-0.03240	**0.263**	825	**0.035**	**-2.47596**	**0.275**	**-4.55**

Acceptance Limit <= 10% Difference

✓ EPM 1-10-12

Keith Middle School PS1 Calibration Data Sheet

Round 28

Sampler ID: 005 - 821
Sampler Location: C

Initial Calibration

Magnehelic Reading	Manometer Left	Manometer Right	total
70	3.0	3.4	6.4
60	2.7	3.0	5.7
50	2.4	2.6	5.0
40	1.7	2.1	3.8
30	1.3	1.5	2.8

Post Calibration

Magnahelic Reading	Manometer Left	Manometer Right	total
50	2.5	2.5	5.0

Sampler ID: 003 - 823
Sampler Location: B

Initial Calibration

Magnehelic Reading	Manometer Left	Manometer Right	total
70	3.2	3.2	6.4
60	2.9	2.8	5.7
50	2.5	2.5	5.0
40	2.0	2.0	4.0
30	1.5	1.5	3.0

Post Calibration

Magnahelic Reading	Manometer Left	Manometer Right	total
50	2.4	2.4	4.8

Sampler ID: 002 - 820
Sampler Location: A

Initial Calibration

Magnehelic Reading	Manometer Left	Manometer Right	total
70	3.4	3.4	6.8
60	3.0	3.0	6.0
50	2.5	2.5	5.0
40	2.1	2.1	4.2
30	1.6	1.6	3.2

Post Calibration

Magnahelic Reading	Manometer Left	Manometer Right	total
50	2.5	2.4	4.9

Sampler ID: 004 - 822
Sampler Location: BG

Initial Calibration

Magnehelic Reading	Manometer Left	Manometer Right	total
70	3.5	3.0	6.5
60	3.3	2.7	6.0
50	3.0	2.0	5.0
40	2.5	2.0	4.5
30	2.0	1.5	3.5

Post Calibration

Magnahelic Reading	Manometer Left	Manometer Right	total
50	2.5	2.6	5.1

Sampler ID: 001 - ~~BG~~ 825
Sampler Location: BG - DUP

Initial Calibration

Magnehelic Reading	Manometer Left	Manometer Right	total
70	3.7	3.2	~~6.8~~ 6.9
60	3.4	2.8	6.2
50	3.1	2.6	5.7
40	2.6	2.0	4.6
30	2.1	1.6	3.7

Post Calibration

Magnahelic Reading	Manometer Left	Manometer Right	total
50	2.5	2.5	5.0

Orifice ID: 1125 Cal. Date: 1/5/11
Initial Cal Temp: 67 F / C
Initial Cal Press: 29.34 inHg / mmHg
Post Cal Temp: 67 F / C
Post Cal Press: 29.93 inHg / mmHg

Performed Cal DJG 12/28/11

TRC

1-10-12

APPENDIX E

LABORATORY DATA REPORTS (ON CD)

Pace Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: VERIFICATION PUF
Sampling Date(s): December 15, 2011
Lab Report ID: 11120177
Client Service Contact: Carrie Barss (518) 346-4592 ext. 36

Analysis Included:
PCBs by GCMS

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report.This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Robert E. Wagner
Laboratory Director

Certifications: NYS (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

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Case Narrative

January 23, 2012

CASE NARRATIVE

This data package (SDG ID: 11120177) consists of 1 polyurethane foam (TO-4A) sample generated by Pace Analytical Services, Inc. on 12/15/2011 for PCB analysis.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AO29244	VER PUF LOT #120811-1	12/15/2011
AO29245	VER PUF LOT #120811-2	12/15/2011
AO29246	VER PUF LOT #120811-3	12/15/2011
AO29247	VER FILTER LOT #120911-4	12/15/2011

Sample Delivery and Receipt Conditions

(1.) Not applicable, samples generated by the laboratory.

PCB Homolog Analysis (TO-4A)

Analysis for PCB Homolog Distribution was performed by EPA Method 680. Samples were extracted by Soxhlet Extraction Method (EPA - Method 3540C). The following technical and administrative items were noted for the analysis:

(1.) Samples (LAB ID: AO29245-47) were cancelled due to contamination. Lot 120811-2, 120811-3 and 120811-4 were not used for sampling and no data is provided for these samples.

(2.) The internal standard phenanthrene-d10 was above quality acceptance limits for the method blank sample (LAB ID: AO29244B). Please see Form 8 for details.

Qualifier Summary

(1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.
(2.) J-Denotes concentration result greater than the MDL but less than the RL.
(3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,

William A. Kotas
Client Services Manager

S:\Lims Data\1112\11120177\Package\CN_11120177_Rev00.doc

Sample Chain Of Custody

CHAIN OF CUSTODY RECORD

NORTHEAST ANALYTICAL, INC.
2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.nealab.com information @nealab.com

<11120177P1>

LRF # 111201771 11120177

DISPOSAL REQUIREMENTS: (To be filled in by Client)

- ○ RETURN TO CLIENT
- ● DISPOSAL BY NORTHEAST ANALYTICAL
- ○ ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO): NEA-PACE

PROJECT#/PROJECT NAME: 11120177

LOCATION (CITY/STATE) ADDRESS:

PROJECT MANAGER: Carrie Barss

SAMPLED BY: (Please Print)

SAMPLING FIRM:

REQUIRED TURN AROUND TIME: 12/15/2011

NAME OF COURIER (IF USED):

ELECTRONIC RESULTS

FAXED RESULTS FAX #:

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE CODE:
BOTTLE TYPE:
BOTTLE SIZE:

PRESERVATIVE KEY
0 - ICE
1 - HCL
2 - HNO3
3 - H2SO4
4 - NaOH
5 - Zn. Acetate
6 - MeOH
7 - NaHSO4
8 - Other (Na2SO3)

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (NEA USE ONLY)	NUMBER OF CONTAINERS	PCBs							REMARKS:
VER PUF LOT #120811-1	12/15/11		PF4	GRAB	AO29244	1	X							
VER PUF LOT #120811-2	12/15/11		PF4	GRAB	AO29245	1	X							
VER PUF LOT #120811-3	12/15/11		PF4	GRAB	AO29246	1	X							
VER FILTER LOT #120911-4	12/15/11		F	GRAB	AO29247	1	X							

AMBIENT OR CHILLED: TEMP:
RECEIVED BROKEN OR LEAKING: Y N
COC TAPE: Y N
COC DISCREPANCIES: Y N
PROPERLY PRESERVED: Y N
RECVD W/I HOLDING TIMES: Y N
OTHER NOTES:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME
COMPANY	COMPANY	COMPANY	COMPANY	COMPANY	COMPANY
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

S:\LOGIN\MDLCOCS

Internal Sample Tracking Record

EXTRACTION LOG

Prep Date: 12/15/11 **Batch ID: 16730**

	Prep ID	LAB Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Final Ext. Vol (mL)	Date Conc (MM/DD)	Comments
1	160308	SBLK-25	AO29244B	Solvent		E 680 A	SOX	N/A	1	17:55	09:55	NA	NA	1	12/16	N/A
2	160304	11120177-01	AO29244	PF4		E 680 A	SOX	N/A	1	17:55	09:55	NA	NA	1	12/16	Lot: 120811-1(11120177)

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Main Lab)	E49039	NA	NA	p	¨	¨	p	¨	¨	¨
TCMX	031411P89A BX	100	0.20	p	¨	¨	p	¨	¨	¨
Mercury (CURRENT)	062111Hg	NA		p	¨	¨	p	¨	¨	¨
DCBP-C13	092111P118A BX	100	1.0	p	¨	¨	p	¨	¨	¨
Hexane (Dewar)	DF196	NA		p	¨	¨	p	¨	¨	¨
Ethyl Ether	DE879	NA		p	¨	¨	p	¨	¨	¨
10% Florisil Main Lab CURRENT!	111811MLB2P093B	NA		p	¨	¨	p	¨	¨	¨

Analyst Review: Justin Otis

Peer Review: Timothy Holton

Print Date: 1/23/2012
Lims Version : 5.0.6.1
_EXT - LOGBOOK_GCMS-SV; Rev 03; 1.18.2010; EXTRACTION

NORTHEAST ANALYTICAL, INC. GCMS 03 INJECTION LOG

TARGET QUANT. FILE: EPA680- 081611.b

	Method #	NEA Sample ID	Saturn File ID	Date Analyzed	Time Inj.	DIL	COMMENTS
1	dftp	DFTPP-1	M3081601	8-16-11	1026		
2	EPA680	WDM3-0816A	02		1055		
3		iCAL-7	03		1144		
4		iCAL-6	04		1233		
5		iCAL-5	05		1322		
6		iCAL-4	06		1411		
7		iCAL-3	07		1501		
8		iCAL-2	08		1550		
9		iCAL-1	09		1639		
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

8-16-11

CAL STD:	081611P113B BI	CCC STD:	081511P112B BI	WDM STD:	062811P105A BI
Tune STD:	081511P111B BI	Internal STD:	081511P113A BI		

STANDARD CODES REFER TO STANDARD PREP BOOK

BOOK: 22

PAGE: 73

S:\LOGBOOKS\SVOA\SVLOG-GCMS03.xls, rev. 00, 3/3/06, SVOA

Signal/Noise Report

Date : 18-Aug-2011 08:09
Data File : ITS MS M3081609.MS, Ion 241.00
Inj. Date : 16-AUG-2011 16:39

RMS Noise : 17.2394
RMS Noise time window: 32.140 to 34.140 min.
Number of peaks: 1

Time	Start Time	End Time	Area	Area%	Height	Height%	Peak Type	S/N
34.342	34.208	34.477	67235	100.00	15702	100.00	**	910.8

Signal/Noise Report

Date : 18-Aug-2011 08:10
Data File : ITS MS M3081609.MS, Ion 499.00
Inj. Date : 16-AUG-2011 16:39

RMS Noise : 5.70408
RMS Noise time window: 40.540 to 42.540 min.
Number of peaks: 1

Time	Start Time	End Time	Area	Area%	Height	Height%	Peak Type	S/N
42.741	42.643	42.804	1899	100.00	527	100.00	**	92.4

NORTHEAST ANALYTICAL, INC. GCMS 03 INJECTION LOG

TARGET QUANT. FILE: 121611-680.b

	Method #	NEA Sample ID	Saturn File ID	Date Analyzed	Time Inj.	DIL	COMMENTS
1	DFTPP	DFTPP-1	M3121601	12-16-11	0949		
2	EPA680	WDM3-1216A	02		1016		
3		CCV3-1216A	03		1105		
4		A029244B	04		1316		
5		A029244	05		1405		
6		A029245	06		1454		
7		A029246	07		1543		
8		A029247	08		1632		
9		CCV3-1216B	09		1721		
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

CAL STD:	081611P113B BE	CCC STD:	081511P112B BE	WDM STD:	092611P121C BE
Tune STD:	081511P111B BE	Internal STD:	081511P113A BE		

STANDARD CODES REFER TO STANDARD PREP BOOK

BOOK: 22
PAGE: 93

S:\LOGBOOKS\SVOA\SVLOG-GCMS03.xls, rev. 00, 3/3/06, SVOA

Surrogate % Recovery Summary

2D-1
680 SURROGATE RECOVERY

Laboratory Name: Pace Analytical Services, Inc. SDG: 11120177

ELAP ID No: 11078

GC Column (1): Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): NA

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
SBLK-25	AO29244B	MS03-309-4	51.7	59.3			0
11120177-01	AO29244	MS03-309-5	61.5	67.9			0

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

	Advisory QC Limits.
SURR1 = TETRACHLORO-META-XYLENE	(17.9-137)
SURR2 = DECACHLORO[13C12]BIPHENYL	(42.5-134)

Form II-CLP-680(NEA-PACE)

Print Date: 1/20/2012
Lims Version : 5.0.6.1

Method Blank Summary

FORM 4
EPA 680 METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	11120177
ELAP ID No:	11078	Blank Sample ID:	SBLK-25
Matrix:	Solvent	Method Blank Nea ID No:	AO29244B
Instrument ID:	MS03	Lab File ID:	MS03-309-4
Extraction Type:	Soxhlet Method (3540C)	Date Extracted:	12/15/2011
GC Column (1):	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	12/16/2011
		Time Analyzed:	13:16:00

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
VER PUF LOT #120811-1	AO29244	MS03-309-5	12/16/2011 14:05:00

Instrument Performance Check

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE ANALYTICAL - NY LAB Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: EPA680-081611.B

Lab File ID: M3081601 DFTPP Injection Date: 08/16/11

Instrument ID: GCMS03 DFTPP Injection Time: 1026

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
127	40.0 - 60.0% of mass 198	50.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.1
275	10.0 - 30.0% of mass 198	15.8
365	Greater than 1.0% of mass 198	4.72
441	Present, but less than mass 443	14.1
442	40.0 - 110.0% of mass 198	88.8
443	17.0 - 23.0% of mass 442	20.0 (22.5)1

1-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WDM3-0816A	WDM3-0816A	M3081602	08/16/11	1055
02	ICAL-7	ICAL-7	M3081603	08/16/11	1144
03	ICAL-6	ICAL-6	M3081604	08/16/11	1233
04	ICAL-5	ICAL-5	M3081605	08/16/11	1322
05	ICAL-4	ICAL-4	M3081606	08/16/11	1411
06	ICAL-3	ICAL-3	M3081607	08/16/11	1501
07	ICAL-2	ICAL-2	M3081608	08/16/11	1550
08	ICAL-1	ICAL-1	M3081609	08/16/11	1639
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page 1 of 1

FORM V SV

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081601.d Page 1

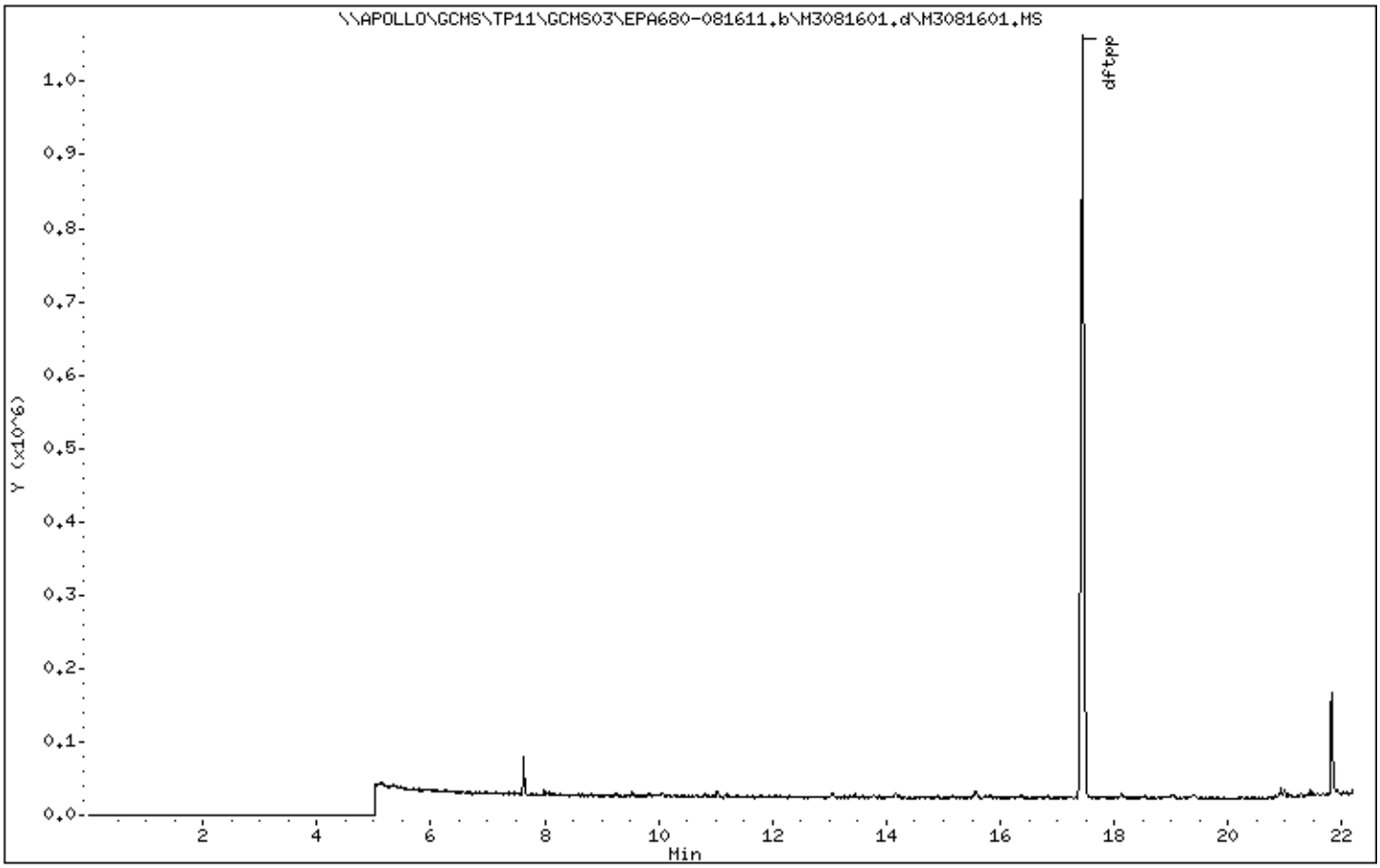
Date : 16-AUG-2011 10:26

Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25



Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081601.d

Date : 16-AUG-2011 10:26

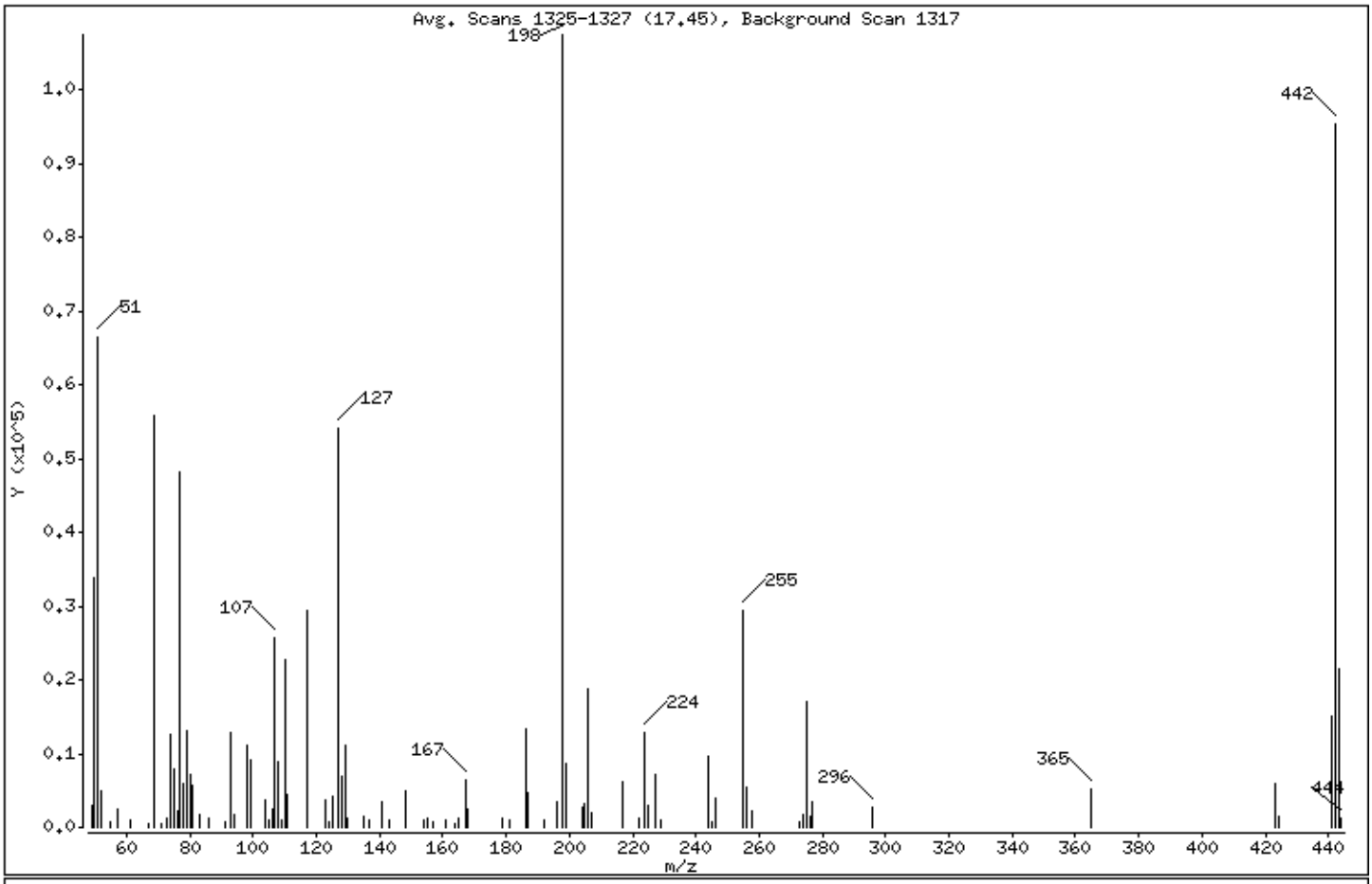
Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
127	40.00 - 60.00% of mass 198	50.23
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	8.14
275	10.00 - 30.00% of mass 198	15.77
365	Greater than 1.00% of mass 198	4.72
441	Present, but less than mass 443	14.05
442	40.00 - 110.00% of mass 198	88.85
443	17.00 - 23.00% of mass 442	19.97 (22.48)

Date : 16-AUG-2011 10:26

Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25

Data File: M3081601.d
Spectrum: Avg. Scans 1325-1327 (17.45), Background Scan 1317
Location of Maximum: 198.00
Number of points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
49.00	2888	98.00	10998	155.00	1229	229.00	980
50.00	33816	99.00	9120	157.00	857	244.00	9573
51.00	66480	104.00	3732	161.00	925	245.00	788
52.00	4928	105.00	921	164.00	563	246.00	3845
55.00	693	106.00	2397	165.00	1170	255.00	29472
57.00	2562	107.00	25776	167.00	6350	256.00	5390
61.00	881	108.00	8900	168.00	2558	258.00	2307
67.00	517	109.00	999	179.00	1225	273.00	735
69.00	55880	110.00	22800	181.00	900	274.00	1775
71.00	456	111.00	4517	186.00	13334	275.00	16944
73.00	1201	117.00	29320	187.00	4634	276.00	1470
74.00	12667	123.00	3794	192.00	1102	277.00	3393
75.00	7914	124.00	793	196.00	3434	296.00	2821
76.00	2333	125.00	4189	198.00	107472	365.00	5074
77.00	48280	127.00	53984	199.00	8744	423.00	5988
78.00	5970	128.00	6909	204.00	2699	424.00	1366
79.00	13006	129.00	11121	205.00	3167	441.00	15104
80.00	7098	130.00	1126	206.00	18696	442.00	95488
81.00	5773	135.00	1568	207.00	2090	443.00	21464
83.00	1794	137.00	1092	217.00	6142	444.00	1229
86.00	1272	141.00	3533	222.00	1348		
91.00	724	143.00	980	224.00	12766		
93.00	12731	148.00	4863	225.00	2914		
94.00	1720	154.00	1102	227.00	7270		

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE ANALYTICAL - NY LAB Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 11120177NEA

Lab File ID: M3121601 DFTPP Injection Date: 12/16/11

Instrument ID: GCMS03 DFTPP Injection Time: 0949

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
127	40.0 - 60.0% of mass 198	42.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.8
275	10.0 - 30.0% of mass 198	15.0
365	Greater than 1.0% of mass 198	6.45
441	Present, but less than mass 443	8.1
442	40.0 - 110.0% of mass 198	47.4
443	17.0 - 23.0% of mass 442	10.5 (22.2)1

1-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WDM3-1216A	WDM3-1216A	M3121602	12/16/11	1016
02	CCV3-1216A	CCV3-1216A	M3121603	12/16/11	1105
03	AO29244BLANK	AO29244B	M3121604	12/16/11	1316
04	VERPUFLOT#12	AO29244	M3121605	12/16/11	1405
05	CCV3-1216B	CCV3-1216B	M3121609	12/16/11	1721
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page 1 of 1

FORM V SV

Data File: \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\M3121601.d Page 1

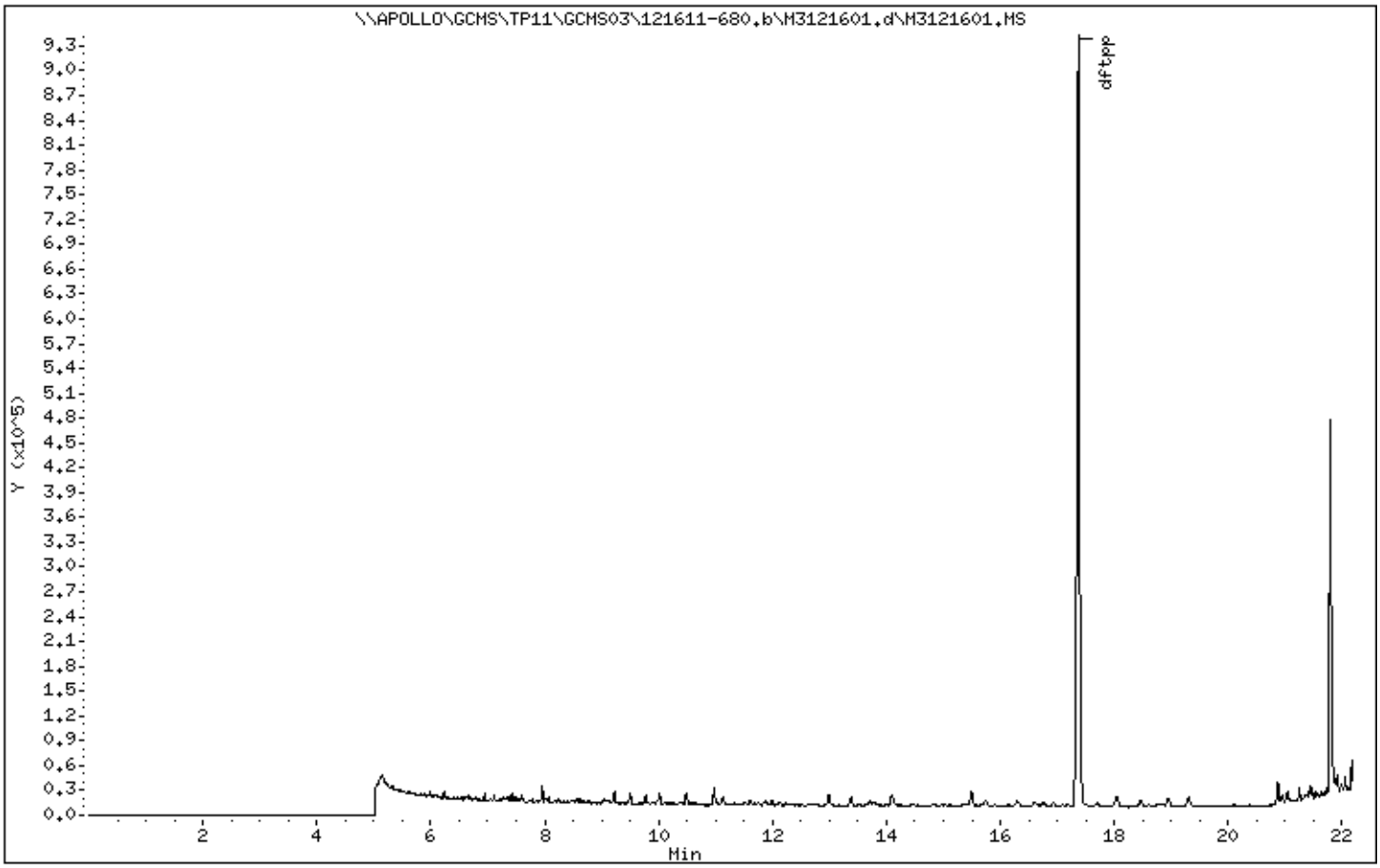
Date : 16-DEC-2011 09:49

Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25



Data File: \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\M3121601.d

Date : 16-DEC-2011 09:49

Client ID: 20ng DFTPP-1

Instrument: GCMS03.i

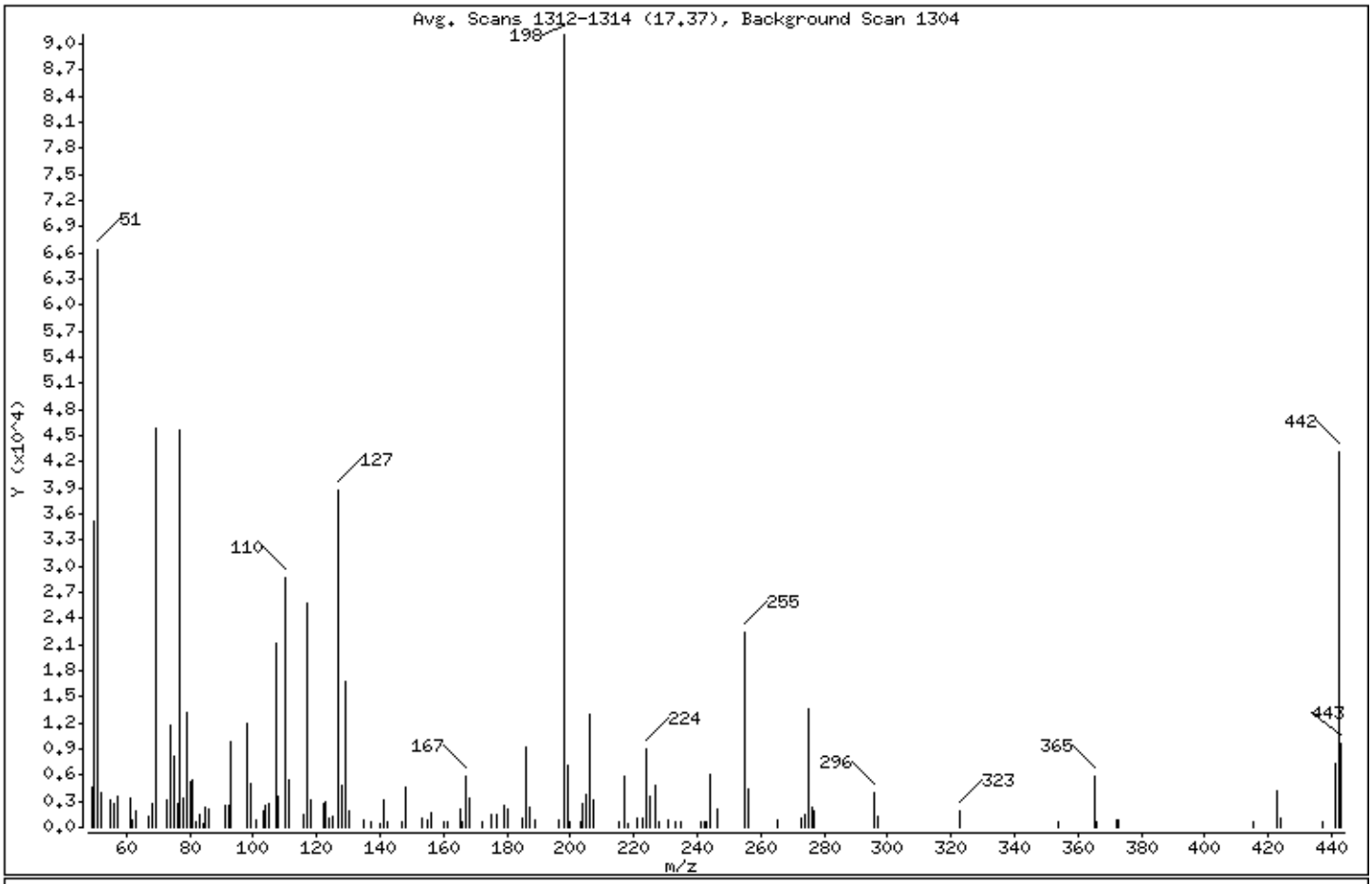
Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
127	40.00 - 60.00% of mass 198	42.45
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.81
275	10.00 - 30.00% of mass 198	14.96
365	Greater than 1.00% of mass 198	6.45
441	Present, but less than mass 443	8.08
442	40.00 - 110.00% of mass 198	47.44
443	17.00 - 23.00% of mass 442	10.54 (22.21)

Date : 16-DEC-2011 09:49

Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25

Data File: M3121601.d
Spectrum: Avg. Scans 1312-1314 (17.37), Background Scan 1304
Location of Maximum: 198.00
Number of points: 125

m/z	Y	m/z	Y	m/z	Y	m/z	Y
49.00	4678	101.00	766	166.00	632	235.00	632
50.00	35096	103.00	1830	167.00	5893	241.00	527
51.00	66304	104.00	2480	168.00	3447	242.00	574
52.00	3879	105.00	2620	172.00	632	243.00	641
55.00	3196	107.00	21032	175.00	1484	244.00	6110
56.00	2735	108.00	3628	177.00	1380	246.00	2022
57.00	3503	110.00	28664	179.00	2538	255.00	22392
61.00	3245	111.00	5452	180.00	2030	256.00	4421
62.00	918	116.00	1408	185.00	949	265.00	862
63.00	1854	117.00	25768	186.00	9170	273.00	1053
67.00	1199	118.00	3110	187.00	2227	274.00	1532
68.00	2802	122.00	2698	189.00	766	275.00	13616
69.00	45792	123.00	2856	196.00	738	276.00	2328
73.00	3149	124.00	957	198.00	91024	277.00	1907
74.00	11623	125.00	1184	199.00	7110	296.00	3978
75.00	8256	127.00	38640	200.00	632	297.00	1244
76.00	2744	128.00	4816	203.00	560	323.00	1985
77.00	45680	129.00	16744	204.00	2743	354.00	632
78.00	3374	130.00	1916	205.00	3802	365.00	5873
79.00	13089	135.00	738	206.00	13005	366.00	721
80.00	5293	137.00	574	207.00	3074	372.00	862
81.00	5422	140.00	480	215.00	670	373.00	843
82.00	566	141.00	3085	217.00	5854	415.00	527
83.00	1515	142.00	711	218.00	480	423.00	4105
84.00	439	147.00	647	221.00	961	424.00	1054
85.00	2199	148.00	4591	223.00	949	437.00	527
86.00	2091	153.00	949	224.00	9000	441.00	7353
91.00	2523	155.00	862	225.00	3466	442.00	43184
92.00	2407	156.00	1670	227.00	4914	443.00	9590
93.00	9824	160.00	641	228.00	632		
98.00	11864	161.00	551	231.00	738		
99.00	4953	165.00	2074	233.00	641		

Sample Analysis Data

Analytical Sample Results

Job Number: 11120177

NEA Laboratory, Division of Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: PACE ANALYTICAL SERVICES INC.
Project: VERIFICATION PUF
Client Sample ID: VER PUF LOT #120811-1
Lab Sample ID: 11120177-01 (AO29244)

Collection Date: 12/15/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 12/15/2011 15:59
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-309-5	PCBs by EPA Method TO-4A/680	12/16/2011 14:05	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16730	EPA 3540C	12/15/2011 17:50	CAP	0.00m³	1.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00500	1.00	U	MS03-309-5
Dichlorobiphenyl	25512-42-9	ND	0.00500	1.00	U	MS03-309-5
Trichlorobiphenyl	25323-68-6	ND	0.00500	1.00	U	MS03-309-5
Tetrachlorobiphenyl	26914-33-0	ND	0.0100	1.00	U	MS03-309-5
Pentachlorobiphenyl	25429-29-2	ND	0.0100	1.00	U	MS03-309-5
Hexachlorobiphenyl	26601-64-9	ND	0.0100	1.00	U	MS03-309-5
Heptachlorobiphenyl	28655-71-2	ND	0.0150	1.00	U	MS03-309-5
Octachlorobiphenyl	55722-26-4	ND	0.0150	1.00	U	MS03-309-5
Nonachlorobiphenyl	53742-07-7	ND	0.0250	1.00	U	MS03-309-5
Decachlorobiphenyl	2051-24-3	ND	0.0250	1.00	U	MS03-309-5
Total PCB	1336-36-3	ND		1.00	U	MS03-309-5

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	67.9	42.5-134		MS03-309-5
Tetrachloro-meta-xylene	877-09-8	61.5	17.9-137		MS03-309-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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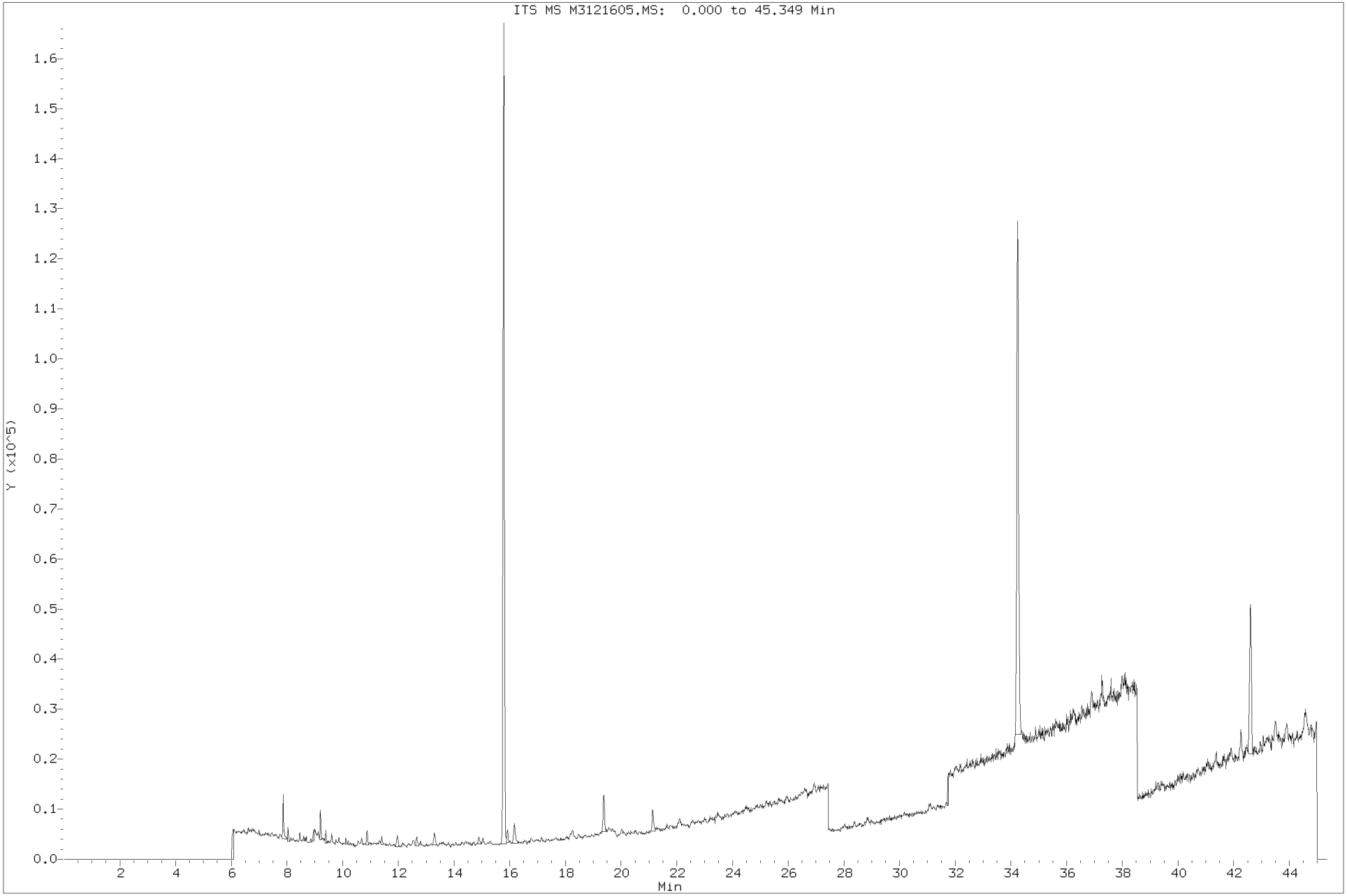
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com | Email: information@nealab.com

Data File: \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\M3121605.d/M3121605.MS
Injection Date: 16-DEC-2011 14:05
Instrument: GCMS03.i
Client Sample ID: VERPUFLOT#120811-1



Form 1
PCB Homolog Report

Northeast Analytical Inc.

		SDG No.:	11120177
ELAP ID No.:	11078	Client ID:	VER PUF LOT#120811-1
Matrix:	TO-4 PUF	Lab Sample ID:	AO29244
Sample weight:	N/A	Date Received:	N/A
% Moisture	0 %	Date Extracted:	12/15/2011
Method:	EPA 680 (GC/MS)	Date Analyzed:	12/16/2011
Dilution Factor:	1	Time Analyzed:	14:05

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug	ug	ug	
				Mono Total:		0.00500	0.00500	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug	ug	ug	
				Di Total:		0.00500	0.00500	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug	ug	ug	
				Tri Total:		0.00500	0.00500	ND	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug	ug	ug	
				Tetra Total:		0.0100	0.0100	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug	ug	ug	
				Penta Total:		0.0100	0.0100	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug	ug	ug	
				Hexa Total:		0.0100	0.0100	ND	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Hepta Total:		0.0150	0.0150	ND	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Octa Total:		0.0150	0.0150	ND	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Deca Total:		0.0250	0.0250	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.949	811	11.949	699	1.2	0.2041		0.0123	
				TCMX Total:			0.0123	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT m/z 510	Quant Ion Area	Confirm Ion RT m/z 512	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor		Solution Concentration ug/mL	Flag
42.596	22308	42.602	19702	1.1	1.0171		0.0679	
				Deca Total:			0.0679	

TCMX Recovery %	61.5 %
Deca Recovery	67.9 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT m/z 240	Quant Ion Area	Confirm Ion RT m/z 241	Confirm Ion Area	Ratio 4.3 - 5.9	Response Factor		Solution Concentration ug/mL	Flag
34.239	258477	34.236	55838	4.6	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3121605"		"M3121605"		"M3121605"		"M3121605"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.782	262318	15.784	3889	7.861	1662	8.038	1194
16.156	2761			9.394	1335	9.394	1080
				9.609	1119	9.605	1177
				15.917	1220		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3121605"		"M3121605"		"M3121605"		"M3121605"		"M3121605"		"M3121605"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				7.861	1662	8.038	1194	15.789	26864	15.782	262318
				9.394	1335	9.394	1080	16.175	2217	16.156	2761
				9.609	1119	9.605	1177				
				15.917	1220						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3121605"		"M3121605"		"M3121605"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
		22.032	1254	6.111	1135
				7.766	1020
				8.628	1186
				9.200	1189
				13.298	2561
				24.102	1474
				24.567	1001
				26.093	1401

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3121605"		"M3121605"		"M3121605"		"M3121605"		"M3121605"		"M3121605"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
		22.032	1254	15.789	26864	15.782	262318	34.589	1149		
				16.175	2217	16.156	2761				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3121605"		"M3121605"		"M3121605"		"M3121605"		"M3121605"		"M3121605"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
		26.656	1338			34.378	1124	31.968	1296	24.846	1546
		31.068	4103			35.634	1532			31.070	1250
		36.240	1934			37.704	1199			32.926	1072
		38.101	1074							34.876	1006
										35.176	1068
										35.615	1595
										36.227	1403
										36.530	1193
										36.728	1059
										37.132	1364
										37.558	1758
										37.874	1205
										38.031	1070
										38.087	1014

Extracted Ion Current Profiles

Tetrachlorobiphenyls									
"M3121605"		"M3121605"		"M3121605"		"M3121605"		"M3121605"		"M3121605"	
m/z 292		m/z 290		m/z 220		m/z 222		m/z 360		m/z 362	
34.378	1124			9.199	2476			43.403	1239	40.161	1051
35.634	1532							43.928	1063	40.722	1065
37.704	1199									41.365	1369
										41.780	1046
										42.597	1080
										43.290	1076
										43.902	1050
										44.717	1050

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3121605"		"M3121605"				"M3121605"		"M3121605"			"M3121605"		"M3121605"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.949	811	11.949	699(M)	424	240	30.167	2074	34.236	55838	188	15.782	262318	9.202	1262
27.512	287	18.625	269	426	241	34.239	258477	34.359	1231	189	16.156	2761	15.781	41234
27.914	325	18.699	430	428		34.382	1637	36.597	1473				24.478	1585
28.140	419	18.778	291	430		34.407	2156	37.106	1442				25.669	1032
28.195	253	18.980	518	498		34.455	1447	37.617	1428				26.587	2093
28.285	311	19.144	430	500		34.528	1358	38.136	1457				27.104	1128
28.806	279	19.347	317			34.686	1060	38.255	1124					
29.569	519	19.372	302			34.756	1072							
29.864	337	19.434	251											
30.043	308	19.541	468											
30.270	284	19.631	318											
30.392	266	19.699	619											
30.423	279	28.821	279											
30.502	265	30.083	315											
30.716	256	30.378	250											
30.820	294	30.586	453											
31.128	761	30.821	360											
31.266	306	31.128	272											
31.435	316	31.387	294											
31.777	394	31.653	276											
31.984	897	31.799	462											
32.026	2795	31.849	257											
32.133	295	32.039	278											
32.189	311	32.166	290											
32.353	371	32.274	355											
32.451	398	32.421	308											
32.496	271	32.583	394											
32.526	284	32.876	299											
32.586	264	33.055	444											
32.793	328	33.208	412											
32.927	270	33.263	308											
32.951	404	33.390	353											
33.042	398	33.569	328											
33.250	353	33.700	352											
33.290	412	33.750	270											
33.469	318	33.870	299											
33.518	280	34.013	303											
33.586	389	34.086	268											
33.682	392	34.162	277											
33.799	461	34.237	3485											
33.860	345	34.258	2119											
33.990	260	34.287	1375											

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.596	22308	42.602	19702
512	43.700	291	44.812	253

Extracted Ion Current Profiles

34.049	342	34.427	270
34.129	260	34.480	293
34.172	276	34.538	338
34.201	319	34.599	327
34.311	283	34.754	298
34.451	814	34.779	314
34.503	262	34.830	251
34.671	492	34.935	253
34.702	307	35.025	331
34.737	456	35.171	368
34.796	332	35.220	326
34.861	289	35.247	290
34.908	449	35.312	278
34.949	259	35.412	282
34.991	306	35.449	275
35.030	339	35.643	270
35.110	433	35.716	416
35.168	329	35.777	390
35.222	470	35.883	304
35.282	335	35.970	317
35.341	438	36.117	402
35.414	336	36.210	471
35.512	353	36.254	345
35.536	265	36.296	360
35.560	344	36.340	323
35.618	296	36.393	339
35.711	275	36.472	575
35.745	328	36.561	363
35.814	666	36.596	271
35.924	466	36.645	394
35.965	257	36.727	479
36.004	391	36.779	320
36.040	368	36.804	411
36.109	324	36.853	408
36.150	312	36.895	269
36.177	315	36.965	266
36.223	541	37.000	336
36.282	276	37.054	279
36.321	420	37.200	282

57244(M)

Internal Standard Area Summary

8B

EPA 680 INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Services, Inc. Contract: NEA-VERPUF

Lab Code: 11078 Case No.: NA SAS No: NA SDG No: 11120177

Sample Name: CCV3-1216A

Lab File ID (Standard): MS03-309-28269

Instrument ID: MS03

GC Column: Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm

Date Analyzed: 12/16/2011

Time Analyzed: 11:05:00 AM

	IS1 (CRY) AREA #	RT #	IS2 (PHN) AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	224439	34.24	216038	15.78		
UPPER LIMIT	291770.7	34.41	280849.4	15.95		
LOWER LIMIT	157107.3	34.07	151226.6	15.61		
EPA SAMPLE NO.						
AO29244B	288357	34.25	282857 *	15.80		
AO29244	258477	34.24	262318	15.78		

IS1 (CRY) = Chrysene-d_{12}

IS2 (PHN) = Phenanthrene-d_{10}

AREA UPPER LIMIT = + 30% of internal standard area

AREA LOWERLIMIT = -30% of internal standard area

RT UPPER LIMIT = +0.167 minutes of internal standard RT

RT LOWER LIMIT = -0.167 minutes of internal standard RT

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

* Values outside of QC limits.

FORM VIII SVOA

Window Defining Mix

Pace Analytical - NY Lab

PCB REPORT EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081602.d
Lab Smp Id: WDM3-0816A Client Smp ID: WDM3-0816A
Inj Date : 16-AUG-2011 10:55
Operator : RMS Inst ID: GCMS03.i
Smp Info : WDM3-0816A
Misc Info : RS M3081602
Comment   :
Method   : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680WDM3.m
Meth Date : 16-Aug-2011 11:49 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 10:55 Cal File: M3081602.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 680WDM.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 2 Phenanthrene-d10	188	15.869	15.869	(1.000)	142027	0.80000	
* 6 Chrysene-d12	240	34.362	34.362	(1.000)	153807	0.80000	
1 Cl1	188	9.607	9.607	(0.280)	473760	2.50000	2.50
3 RTstd-BZ-104	326	20.145	20.145	(0.586)	492482	2.50000	2.50
4 RTstd-BZ-77	292	27.305	27.305	(0.795)	479538	2.50000	2.50
5 RTstd-BZ-202	430	33.044	33.044	(0.962)	408517	2.50000	2.50
7 RTstd-BZ-208	464	37.973	37.973	(1.105)	420493	2.50000	2.50
8 RTstd-BZ-189	394	38.386	38.386	(1.117)	454108	2.50000	2.50
9 Cl10	498	42.742	42.742	(1.244)	499837	2.50000	2.50

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081602.d

Date : 16-AUG-2011 10:55

Client ID: WDM3-0816A

Instrument: GCMS03.i

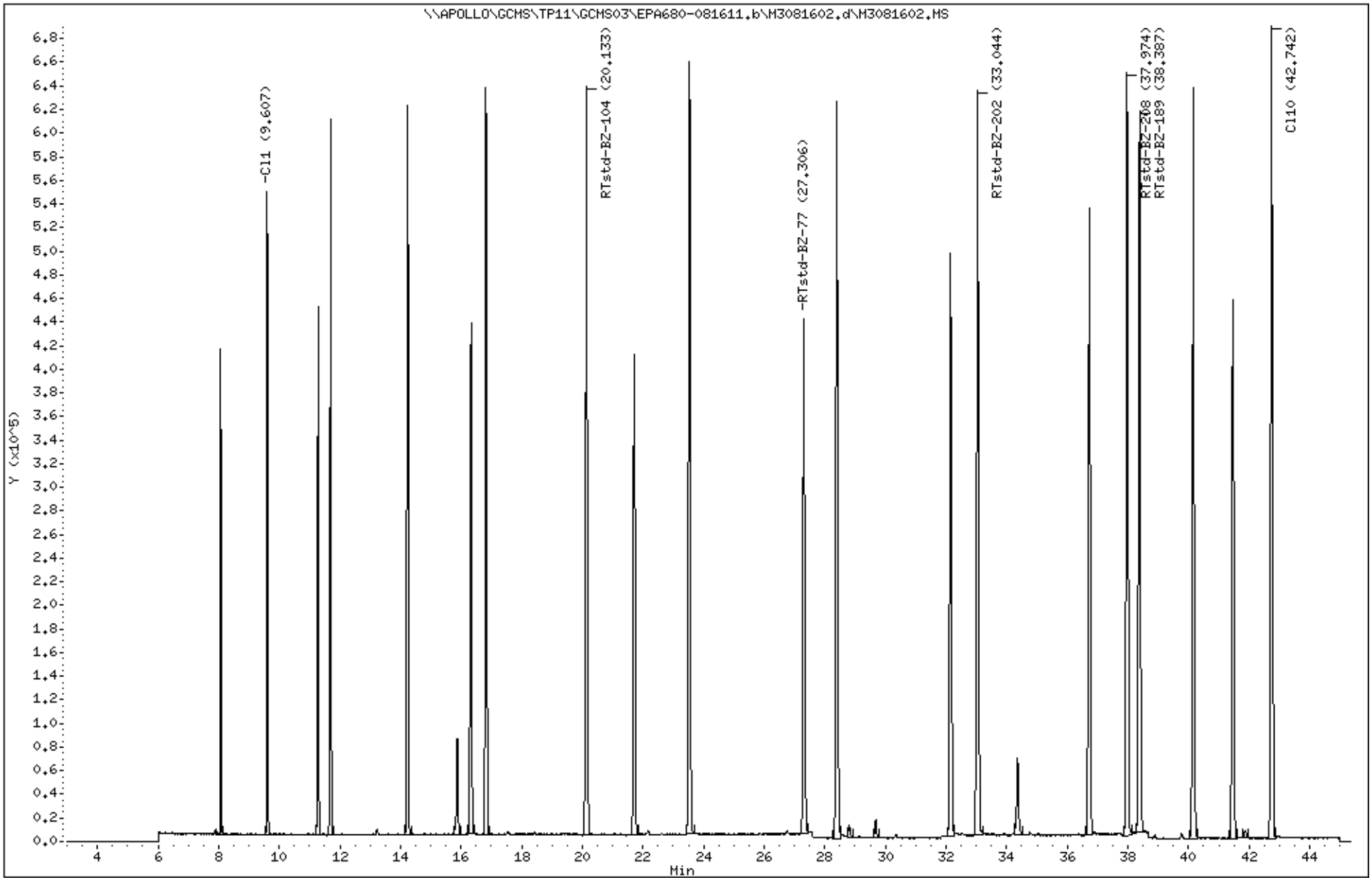
Sample Info: WDM3-0816A

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Pace Analytical - NY Lab

PCB REPORT EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\M3121602.d
Lab Smp Id: WDM3-1216A Client Smp ID: WDM3-1216A
Inj Date : 16-DEC-2011 10:16
Operator : RMS Inst ID: GCMS03.i
Smp Info : WDM3-1216A
Misc Info : RS M3121602
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\680WDM3.m
Meth Date : 15-Dec-2011 07:55 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 10:55 Cal File: M3081602.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 680WDM.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 2 Phenanthrene-d10	188	15.788	15.869	(1.000)	233848	0.80000	
* 6 Chrysene-d12	240	34.245	34.361	(1.000)	245742	0.80000	
1 Cl1	188	9.555	9.607	(0.279)	821930	2.71466	2.71
3 RTstd-BZ-104	326	20.044	20.135	(0.585)	770240	2.44723	2.45
4 RTstd-BZ-77	292	27.205	27.314	(0.794)	767788	2.50528	2.51
5 RTstd-BZ-202	430	32.937	33.049	(0.962)	618536	2.36916	2.37
7 RTstd-BZ-208	464	37.858	37.968	(1.105)	619022	2.30349	2.30
8 RTstd-BZ-189	394	38.276	38.376	(1.118)	666582	2.29685	2.30
9 Cl10	498	42.624	42.745	(1.245)	641429	2.00798	2.01

Data File: \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\M3121602.d

Date : 16-DEC-2011 10:16

Client ID: WDM3-1216A

Instrument: GCMS03.i

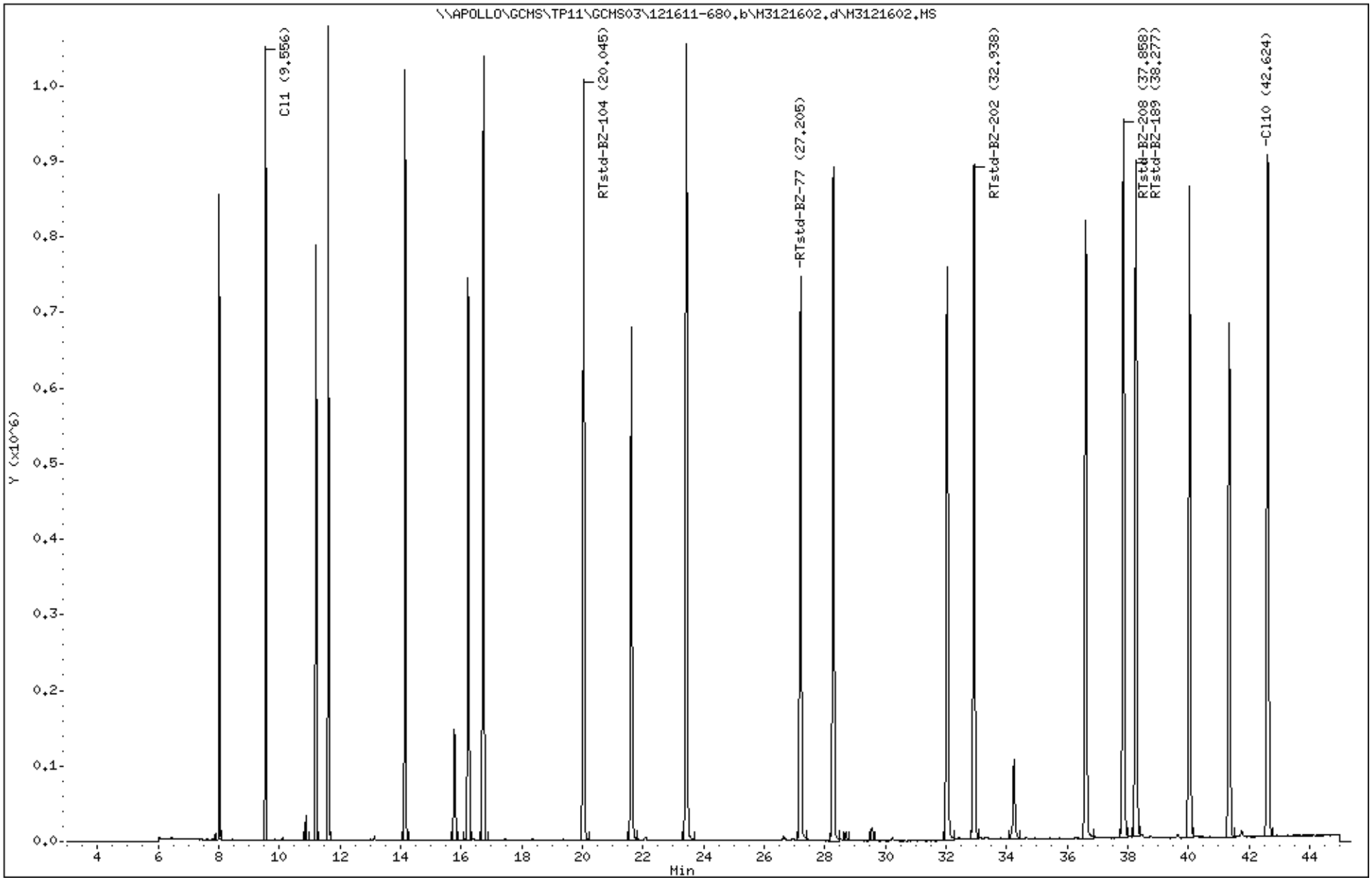
Sample Info: WDM3-1216A

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Initial Calibration Data

6B
EPA 680 Initial Calibration Data

NEA - A Divison of Pace

SDG No.: 11120177

Instrument ID: GCMS 03
GC Column: DB XLB

Start Cal Date: 08/16/11 Time: 11:44
End Cal Date: 08/16/11 Time: 16:39

Calibration File Names:
Level 1: \\M3081609
Level 2: \\M3081608
Level 3: \\M3081607
Level 4: \\M3081606
Level 5: \\M3081605
Level 6: \\M3081604
Level 7: \\M3081603

NEA File ID: S:\Lab Data\GCMS-SV\EPA-680\PACE_LRF11120177\[081611_680CLP_6B.xls]680CLP-6B

COMPOUND	RRF Level1	RRF Level2	RRF Level3	RRF Level4	RRF Level5	RRF Level6	RRF Level7	MEAN RRF	% RSD
Cl1	1.4202	1.2872	1.1150	1.0458	1.0212	0.9903	0.9597	1.120	15.29%
Cl2	1.4927	1.2706	1.0763	1.0149	1.0034	0.9459	0.9153	1.103	18.82%
Cl3	1.1683	1.0245	0.9480	0.8965	0.8896	0.8254	0.8203	0.939	13.13%
Cl4	1.0277	0.9203	0.7532	0.7142	0.7053	0.6690	0.6368	0.775	18.57%
Cl5	0.9647	0.8695	0.7631	0.7378	0.7398	0.6914	0.6763	0.778	13.32%
Cl6	0.9426	0.8624	0.8053	0.7832	0.7585	0.7098	0.7108	0.796	10.54%
Cl7	1.1132	1.0561	0.9515	0.8943	0.8829	0.8593	0.8436	0.943	11.01%
Cl8	1.3734	1.1191	0.9703	0.9567	0.9391	0.8973	0.8874	1.020	16.99%
Cl9	1.1968	1.1171	1.0355	1.0162	1.0051	0.8929	0.9422	1.029	9.94%
Cl10	1.1968	1.1171	1.0355	1.0162	1.0051	0.8929	0.9422	1.029	9.94%
Chyrsene-d12	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.000	0.00%
TCMX	0.2515	0.2529	0.2014	0.1866	0.1915	0.1745	0.1702	0.204	16.88%
$D^{13}C_{12}BP$	1.0476	1.2059	1.0310	1.0125	0.9385	0.8672	**	1.017	11.25%

COMPOUND	Conc. ug/mL Level1	Conc. ug/mL Level2	Conc. ug/mL Level3	Conc. ug/mL Level4	Conc. ug/mL Level5	Conc. ug/mL Level6	Conc. ug/mL Level7
Cl1	0.005	0.010	0.050	1.000	2.000	3.000	5.000
Cl2	0.005	0.010	0.050	1.000	2.000	3.000	5.000
Cl3	0.005	0.010	0.050	1.000	2.000	3.000	5.000
Cl4	0.010	0.020	0.100	2.000	4.000	6.000	10.000
Cl5	0.010	0.020	0.100	2.000	4.000	6.000	10.000
Cl6	0.010	0.020	0.100	2.000	4.000	6.000	10.000
Cl7	0.015	0.030	0.150	3.000	6.000	9.000	15.000
Cl8	0.015	0.030	0.150	3.000	6.000	9.000	15.000
Cl10	0.025	0.050	0.250	5.000	10.000	15.000	25.000
TCMX	0.005	0.010	0.050	1.000	2.000	3.000	5.000
$D^{13}C_{12}BP$	0.025	0.050	0.250	5.000	10.00	15.000	+++++

TCMX = Tetrachloro-m-xylene
$D^{13}C_{12}BP$ = Decachlorobiphenyl (13C labeled)

FORM VI-CLP-EPA 680 -1

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081609.d
Lab Smp Id: iCAL-1 Client Smp ID: iCAL-1
Inj Date : 16-AUG-2011 16:39
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-1
Misc Info : RS M3081609
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 16:39 Cal File: M3081609.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.861	15.861	(1.000)	324788	0.80000	
* 13 Chrysene-d12	240	34.341	34.341	(1.000)	321860	0.80000	
1 Cl1	188	9.609	9.609	(0.280)	2951	0.00500	0.00643
$ 2 Tetrachloro-m-xylene	244	12.013	12.014	(0.350)	519	0.00500	0.00618
3 Cl2	222	13.502	13.502	(0.393)	2627	0.00500	0.00608
5 Cl3	256	17.088	17.088	(0.498)	2420	0.00500	0.00631
6 Cl4	292	17.531	17.531	(0.511)	3913	0.01000	0.0126
7 RTstd-BZ-104	326	20.120	20.120	(0.586)	5748	0.01000	0.0125
8 Cl5	326	25.998	25.998	(0.757)	3771	0.01000	0.0120
9 Cl6	360	26.296	26.296	(0.766)	3868	0.01000	0.0118
10 RTstd-BZ-77	292	27.306	27.306	(0.795)	5323	0.01000	0.0124
11 Cl7	394	28.383	28.383	(0.827)	6865	0.01500	0.0176(a)
12 Cl8	430	33.495	33.495	(0.975)	7511	0.01500	0.0185(a)
14 RTstd-BZ-208	464	37.956	37.956	(1.105)	9023	0.02000	0.0231(a)
15 Cl10	498	42.728	42.728	(1.244)	12127	0.02500	0.0289(a)
$ 16 Decachloro-13C12-Biphenyl	510	42.715	42.715	(1.244)	10717	0.02500	0.0258(a)

QC Flag Legend

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

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081609.d

Date : 16-AUG-2011 16:39

Client ID: iCAL-1

Instrument: GCMS03.i

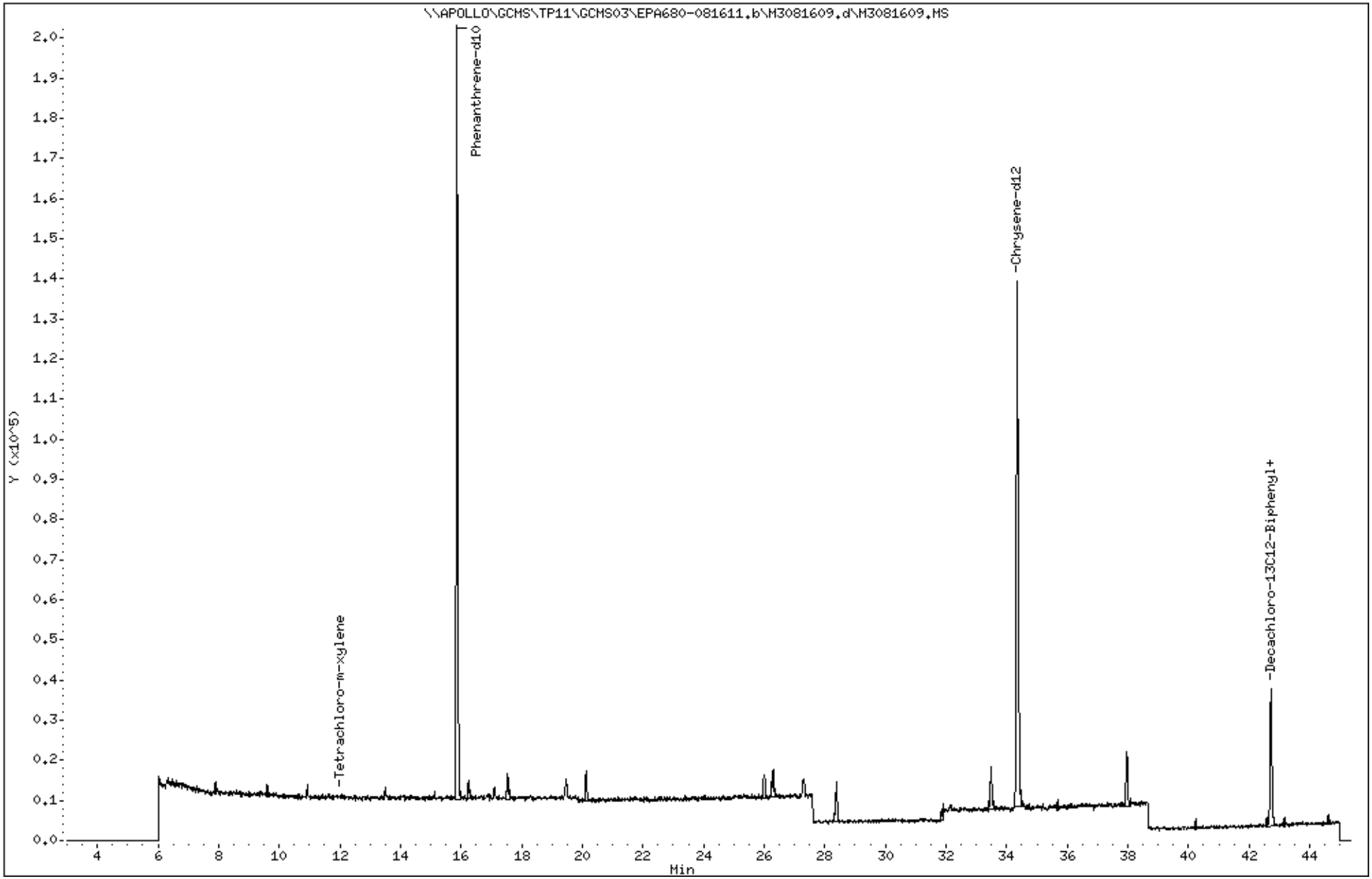
Sample Info: iCAL-1

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3081609"		"M3081609"		"M3081609"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.606	2920	9.604	1142				
15.863	325971	15.866	4579				
16.244	3713						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081609"		"M3081609"		"M3081609"						"M3081609"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.509	3069	13.506	1902							9.606	2920
17.538	1869									15.863	325971
27.305	1757									16.244	3713

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081609"		"M3081609"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.096	2402	17.105	1481		
20.125	1929				
26.009	1895				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081609"		"M3081609"				"M3081609"		"M3081609"		"M3081609"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.096	2402	17.105	2208(M)			9.606	2920	20.126	3173	20.123	5483
20.125	1929					15.863	325971	25.991	1108	26.000	3967
26.009	1895					16.244	3713	26.011	1298	28.383	2112
								28.391	2761		

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081609"		"M3081609"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.536	2574	17.539	4226				
						26.291	1258				
				26.290	2009	27.302	5664				
				27.304	3949						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081609"		"M3081609"			"M3081609"		"M3081609"		"M3081609"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.539	4226	17.536	2832(M)		13.509	3069	26.291	3876	26.291	3079	
26.291	1258	26.290	2009		17.538	1869	33.484	1246			
27.302	5664	27.304	3949		27.305	1757					

Extracted Ion Current Profiles

Tetrachlorobiphenyls						
	"M3081609"		"M3081609"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.126	3173	20.123	5483		
	25.991	1108	26.000	3967		
	26.011	1298	28.383	2112		
	28.391	2761				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081609"		"M3081609"			"M3081609"		"M3081609"		"M3081609"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.123	5483	20.126	3173		17.096	2402	17.105	1481	
26.000	3967	25.991	2406(M)		20.125	1929			
28.383	2112	26.011	1298		26.009	1895			
		28.391	2761						

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081609"		"M3081609"					"M3081609"		"M3081609"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.385	6866	28.384	6634				26.291	3876	26.291	3079	
37.947	1226	37.966	1610				33.484	1246			
37.969	1450										

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081609"		"M3081609"			"M3081609"			"M3081609"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.291	3876	26.291	3079		17.536	2574			
33.484	1246							33.481	5936
					26.290	2009		42.734	3702
					27.304	3949			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081609"								"M3081609"		"M3081609"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.490	8471							28.385	6866	28.384	6634		
41.393	1013							37.947	1226	37.966	1610		
42.732	4342							37.969	1450				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081609"		"M3081609"			"M3081609"		"M3081609"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.385	6866	28.384	6634		20.126	3173	20.123	5483	
37.947	1226	37.966	1610		25.991	1108	26.000	3967	
37.969	1450				26.011	1298	28.383	2112	
					28.391	2761			

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081609"		"M3081609"			"M3081609"		"M3081609"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.959	9095	37.961	6511				33.490	8471			
					33.481	5936	41.393	1013			
					42.734	3702	42.732	4342			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081609"		"M3081609"				"M3081609"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.490	8471	33.481	6570(M)				26.291	3876	
41.393	1013	42.734	3702				33.484	1246	
42.732	4342								

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081609"		"M3081609"		
m/z 464		m/z 466		m/z 425
37.959	9095	37.961	6511	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081609"		"M3081609"				"M3081609"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.959	9095	37.961	6511			28.385	6866
						37.947	1226
						37.969	1450

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081609"		"M3081609"				"M3081609"		"M3081609"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.731	12303	42.721	10841			33.481	5936	33.490	8471
						42.734	3702	41.393	1013
								42.732	4342

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081609"		"M3081609"				"M3081609"		"M3081609"			"M3081609"		"M3081609"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
12.018	517(M)	6.133	143	424	240	34.347	328958	34.344	69901	188	9.606	2920	15.861	49888
29.931	101	6.514	116	426	241	34.540	2211			189	15.863	325971		
31.228	189	6.587	109	428							16.244	3713		
31.252	125	6.687	101	430										
32.129	1710	7.310	124	498										
32.151	1618	8.712	105	500										
32.230	153	8.907	143											
32.279	110	9.450	132											
32.737	102	10.031	126											
34.612	104	10.155	138											
35.027	109	10.711	136											
36.931	103	11.178	158											
37.902	100	11.545	130											
		11.630	106											
		11.708	105											
		11.741	112											
		12.022	401(M)											
		12.206	123											
		12.326	141											
		13.237	115											
		13.781	138											
		14.116	103											
		15.630	176											
		15.709	103											
		16.570	128											
		17.980	148											
		18.125	145											
		18.344	115											
		18.563	140											
		18.842	121											
		19.125	129											
		19.194	133											
		19.352	135											
		19.628	113											
		29.223	104											
		29.383	108											
		31.122	145											
		31.227	246											
		31.258	157											
		32.063	106											
		32.164	128											

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.716	10769	42.707	11328
512	42.754	1586		

2424(M)

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081608.d
Lab Smp Id: iCAL-2 Client Smp ID: iCAL-2
Inj Date : 16-AUG-2011 15:50
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-2
Misc Info : RS M3081608
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 15:50 Cal File: M3081608.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

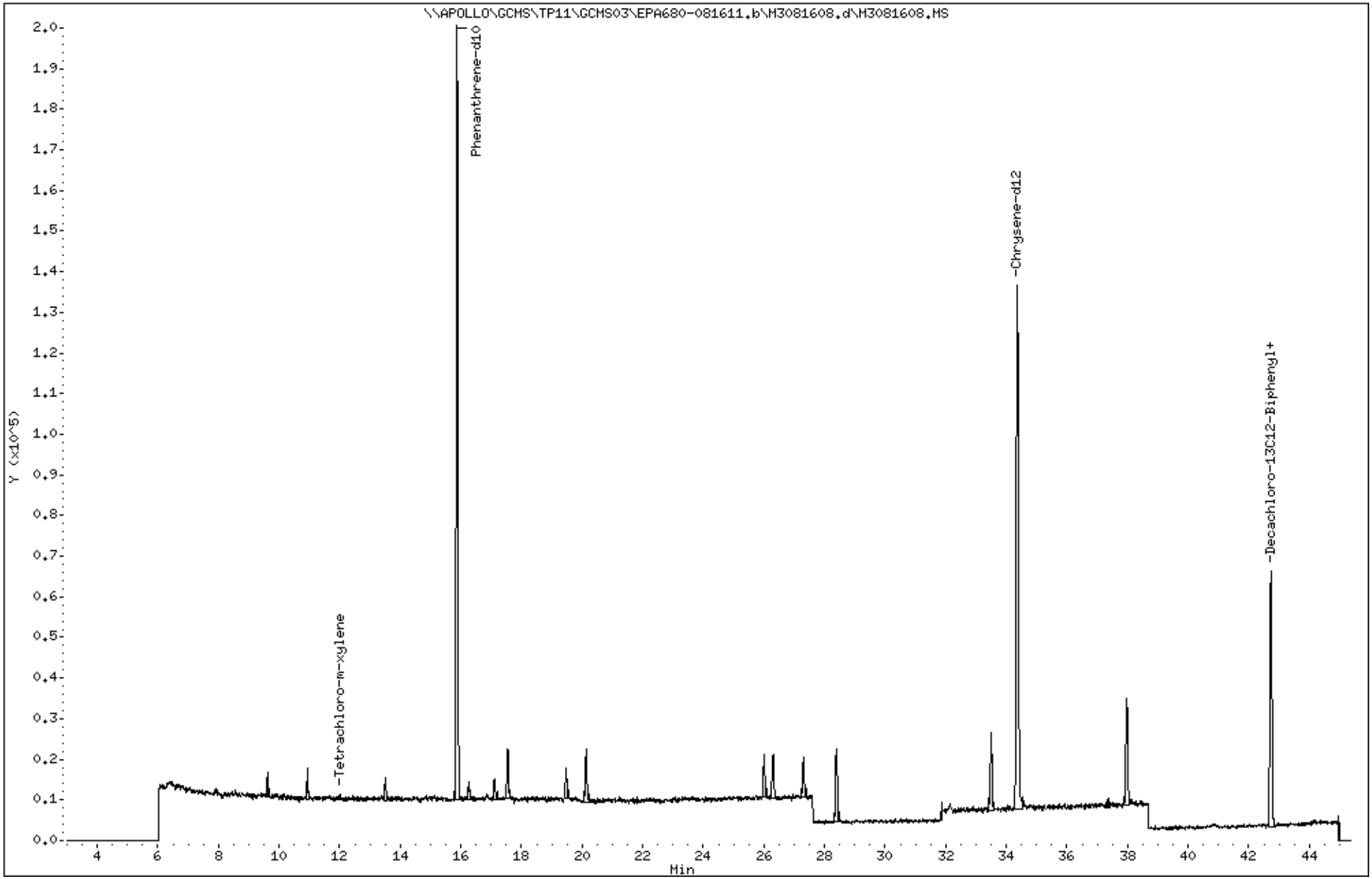
Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.870	15.861	(1.000)	309298	0.80000	
* 13 Chrysene-d12	240	34.353	34.341	(1.000)	323948	0.80000	
1 Cl1	188	9.609	9.609	(0.280)	5446	0.01000	0.0124
$ 2 Tetrachloro-m-xylene	244	12.012	12.014	(0.350)	1045	0.01000	0.0129
3 Cl2	222	13.512	13.502	(0.393)	4911	0.01000	0.0117
5 Cl3	256	17.106	17.088	(0.498)	4200	0.01000	0.0114
6 Cl4	292	17.541	17.531	(0.511)	7402	0.02000	0.0249
7 RTstd-BZ-104	326	20.136	20.120	(0.586)	10155	0.02000	0.0230
8 Cl5	326	26.004	25.998	(0.757)	6850	0.02000	0.0223
9 Cl6	360	26.303	26.296	(0.766)	6963	0.02000	0.0218
10 RTstd-BZ-77	292	27.301	27.306	(0.795)	9272	0.02000	0.0224
11 Cl7	394	28.385	28.383	(0.826)	12987	0.03000	0.0341(a)
12 Cl8	430	33.498	33.495	(0.975)	12953	0.03000	0.0331(a)
14 RTstd-BZ-208	464	37.974	37.956	(1.105)	16914	0.04000	0.0441(a)
15 Cl10	498	42.745	42.728	(1.244)	22507	0.05000	0.0546(a)
$ 16 Decachloro-13C12-Biphenyl	510	42.720	42.715	(1.244)	24341	0.05000	0.0586(a)

QC Flag Legend

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

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081608.d
Date : 16-AUG-2011 15:50
Client ID: iCAL-2
Instrument: GCMS03.i
Sample Info: iCAL-2
Volume Injected (uL): 2.0
Operator: RMS
Column phase: DBXLB
Column diameter: 0.25



Monochlorobiphenyls							
"M3081608"		"M3081608"		"M3081608"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.611	5288	9.610	1847				
15.871	313673	15.865	5035				
16.242	3497						
17.105	1034						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081608"		"M3081608"		"M3081608"						"M3081608"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.510	5220	13.510	3162							9.611	5288
17.552	3352									15.871	313673
27.305	2586									16.242	3497
										17.105	1034

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081608"		"M3081608"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.106	4209	17.105	4188		
20.134	3479	20.125	1252		
26.008	3460	26.006	1119		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081608"		"M3081608"				"M3081608"		"M3081608"		"M3081608"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.106	4209	17.105	4188			9.611	5288	20.131	6317	20.131	10274
20.134	3479	20.125	1252			15.871	313673	26.008	4251	26.006	7144
26.008	3460	26.006	1119			16.242	3497	28.379	2236	28.395	3696
						17.105	1034	28.395	2861		
								37.971	1923		

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081608"		"M3081608"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.543	5389	17.547	7562				
				26.304	3685	26.286	1535				
				27.302	7477	27.306	9737				

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081608"		"M3081608"			"M3081608"		"M3081608"		"M3081608"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.547	7562	17.543	5389		13.510	5220	26.301	7086	26.298	6066	
26.286	1535	26.304	3685		17.552	3352	33.507	3825	33.492	1717	
27.306	9737	27.302	7477		27.305	2586					

Tetrachlorobiphenyls						
	"M3081608"		"M3081608"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.131	6317	20.131	10274		
	26.008	4251	26.006	7144		
	28.379	2236	28.395	3696		
	28.395	2861				
	37.971	1923				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081608"		"M3081608"			"M3081608"		"M3081608"		"M3081608"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.131	10274	20.131	6317		17.106	4209	17.105	4188	
26.006	7144	26.008	4251		20.134	3479	20.125	1252	
28.395	3696	28.379	2236		26.008	3460	26.006	1119	
		28.395	2861						
		37.971	1923						

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081608"		"M3081608"					"M3081608"		"M3081608"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.391	13016	28.395	12726				26.301	7086	26.298	6066	
37.973	4029	37.971	1847				33.507	3825	33.492	1717	

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081608"		"M3081608"			"M3081608"			"M3081608"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.301	7086	26.298	6066		17.543	5389		33.492	11930
33.507	3825	33.492	1717		26.304	3685		42.735	7565
					27.302	7477			

Extracted Ion Current Profiles

Hexachlorobiphenyls															
"M3081608"								"M3081608"		"M3081608"					
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
33.500	13793							28.391	13016	28.395	12726				
40.070	1005							37.973	4029	37.971	1847				
42.174	1005														
42.738	7055														

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081608"		"M3081608"			"M3081608"		"M3081608"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.391	13016	28.395	12726		20.131	6317	20.131	10274	
37.973	4029	37.971	1847		26.008	4251	26.006	7144	
					28.379	2236	28.395	3696	
					28.395	2861			
					37.971	1923			

Extracted Ion Current Profiles

Heptachlorobiphenyls												
"M3081608"		"M3081608"			"M3081608"		"M3081608"					
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432		m/z 391	
37.974	16787	37.967	12730		33.492	11930	33.500	13793				
					42.735	7565	40.070	1005				
							42.174	1005				
							42.738	7055				

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081608"		"M3081608"				"M3081608"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.500	13793	33.492	11930				26.301	7086	
40.070	1005	42.735	7565				33.507	3825	
42.174	1005								
42.738	7055								

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081608"		"M3081608"		
m/z 464		m/z 466		m/z 425
37.974	16787	37.967	12730	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081608"		"M3081608"				"M3081608"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.974	16787	37.967	12730			28.391	13016
						37.973	4029

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081608"		"M3081608"				"M3081608"		"M3081608"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.741	22947	42.736	20076			33.492	11930	33.500	13793
						42.735	7565	40.070	1005
								42.174	1005
								42.738	7055

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081608"		"M3081608"				"M3081608"		"M3081608"			"M3081608"		"M3081608"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
12.017	1039	6.095	144	424	240	34.357	328659	34.363	63470	188	9.611	5288	9.614	1215
13.660	122	7.005	102	426	241					189	15.871	313673	15.872	50313
31.230	261	7.436	172	428							16.242	3497		
31.273	164	7.476	107	430							17.105	1034		
32.139	3622	7.831	128	498										
32.302	121	8.191	104	500										
32.489	123	8.406	128											
34.503	118	8.835	133											
34.642	136	8.947	113											
35.695	107	9.724	104											
		9.808	213											
		9.926	107											
		10.036	126											
		10.190	104											
		10.724	146											
		11.076	108											
		11.410	130											
		11.732	119											
		12.023	876(M)											
		12.093	118											
		12.225	129											
		12.333	102											
		12.593	106											
		13.499	101											
		13.670	144											
		14.214	145											
		14.455	117											
		14.542	110											
		15.509	132											
		16.685	163											
		17.730	108											
		18.092	115											
		29.802	101											
		30.698	124											
		31.253	306											
		31.294	142											
		31.960	102											
		32.126	123											
		32.162	179											
		32.265	169											
		32.345	124											

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.718	24770	42.724	20097
512				

5204(M)

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081607.d
Lab Smp Id: iCAL-3 Client Smp ID: iCAL-3
Inj Date : 16-AUG-2011 15:01
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-3
Misc Info : RS M3081607
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 15:01 Cal File: M3081607.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.864	15.861	(1.000)	279206	0.80000	
* 13 Chrysene-d12	240	34.359	34.341	(1.000)	279020	0.80000	
1 Cl1	188	9.597	9.609	(0.279)	196363	0.50000	0.545
$ 2 Tetrachloro-m-xylene	244	12.018	12.014	(0.350)	35688	0.50000	0.541
3 Cl2	222	13.506	13.502	(0.393)	188617	0.50000	0.541
5 Cl3	256	17.107	17.088	(0.498)	169397	0.50000	0.548
6 Cl4	292	17.541	17.531	(0.511)	264377	1.00000	1.08
7 RTstd-BZ-104	326	20.132	20.120	(0.586)	396561	1.00000	1.07
8 Cl5	326	26.010	25.998	(0.757)	270325	1.00000	1.05
9 Cl6	360	26.294	26.296	(0.765)	289269	1.00000	1.07
10 RTstd-BZ-77	292	27.305	27.306	(0.795)	368083	1.00000	1.06
11 Cl7	394	28.397	28.383	(0.826)	518147	1.50000	1.63
12 Cl8	430	33.498	33.495	(0.975)	514677	1.50000	1.56
14 RTstd-BZ-208	464	37.965	37.956	(1.105)	683535	2.00000	2.11
15 Cl10	498	42.743	42.728	(1.244)	920151	2.50000	2.64
$ 16 Decachloro-13C12-Biphenyl	510	42.719	42.715	(1.243)	918164	2.50000	2.68

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081607.d

Page 2

Date : 16-AUG-2011 15:01

Client ID: iCAL-3

Instrument: GCMS03.i

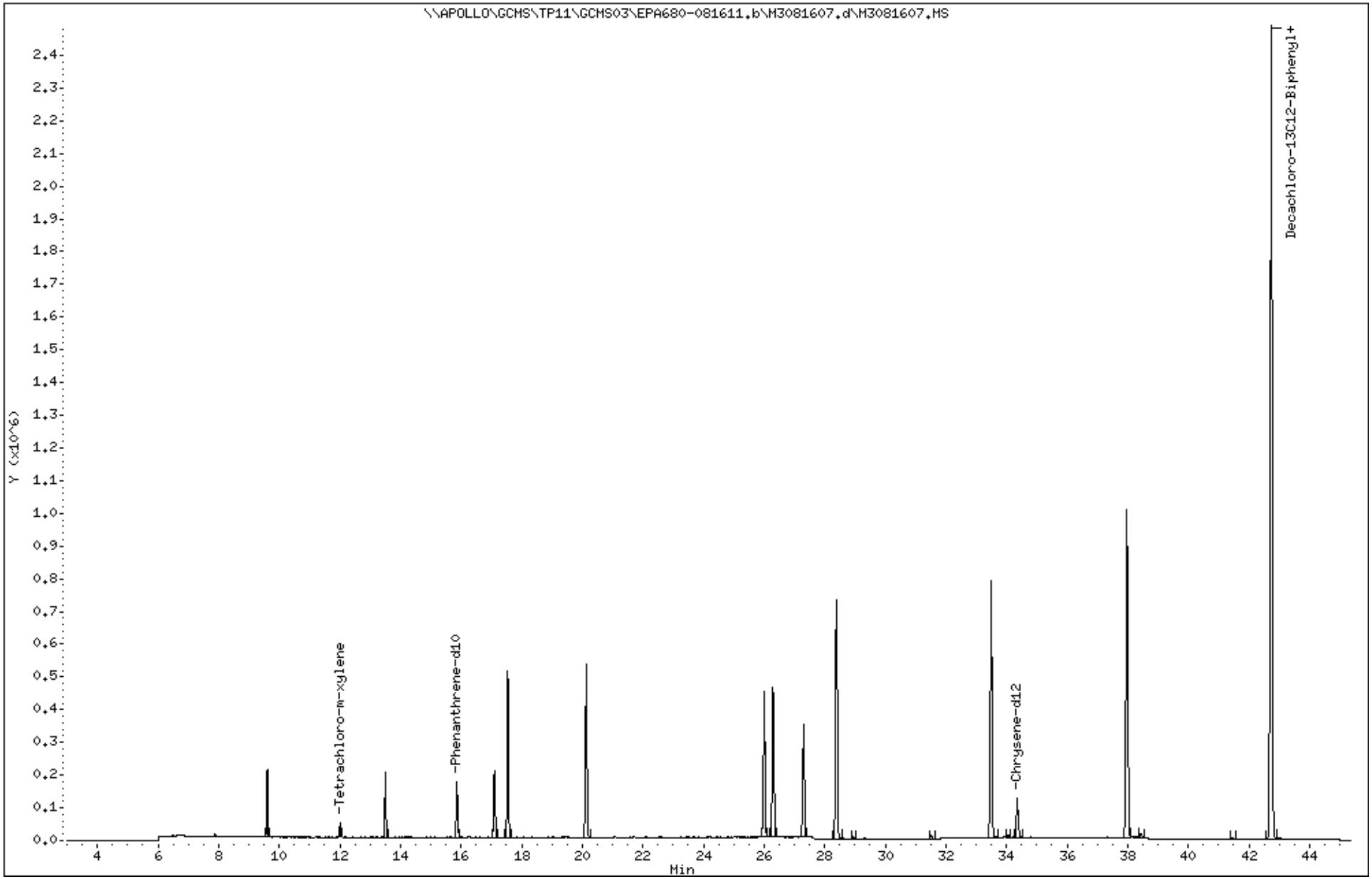
Sample Info: iCAL-3

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3081607"		"M3081607"		"M3081607"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.605	199077	9.606	67754				
13.509	7414	15.867	4374				
15.867	281493						
17.102	28956						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081607"		"M3081607"		"M3081607"						"M3081607"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.508	192166	13.507	125793							9.605	199077
17.100	6317	17.546	20872							13.509	7414
17.547	116893	27.310	15203							15.867	281493
26.002	4393									17.102	28956
26.294	4776										
27.313	85959										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081607"		"M3081607"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.105	169265	17.105	164227		
17.534	12019	17.541	24072		
17.555	13616	20.132	44822		
20.131	136077	21.065	4587		
21.064	4634	26.002	43467		
26.004	128638				
26.305	4205				
27.314	7782				
28.389	13570				
28.404	9079				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081607"		"M3081607"				"M3081607"		"M3081607"		"M3081607"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.105	169265	17.105	164227			9.605	199077	20.131	249481	20.132	399857
17.534	12019	17.541	24072			13.509	7414	26.005	166748	26.005	272489
17.555	13616	20.132	44822			15.867	281493	26.284	5345	26.283	7274
20.131	136077	21.065	4587			17.102	28956	26.307	4748	26.307	7186
21.064	4634	26.002	43467					28.395	190402	28.391	130581
26.004	128638							33.497	9917	37.968	22753
26.305	4205							37.971	65873		
27.314	7782										
28.389	13570										
28.404	9079										

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081607"		"M3081607"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.546	214512	17.545	268974				
				20.130	9930	20.134	10603				
				26.006	19623	26.005	22040				
				26.298	137323	26.299	68556				
				27.304	280790	27.307	367175				
				28.397	7814	33.492	5012				
				33.489	36082	33.514	5387				

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081607"		"M3081607"			"M3081607"		"M3081607"		"M3081607"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.545	268974	17.546	214512		13.508	192166	26.296	287578	26.297	230499	
20.134	10603	20.130	9930		17.100	6317	28.402	4271	28.392	5115	
26.005	22040	26.006	19623		17.547	116893	33.499	154678	33.501	65050	
26.299	68556	26.298	137323		26.002	4393	37.974	5668	42.719	5411	
27.307	367175	27.304	280790		26.294	4776	42.736	24424	42.745	8129	
33.492	5012	28.397	7814		27.313	85959	42.756	26281			
33.514	5387	33.489	36082								

Tetrachlorobiphenyls									
	"M3081607"		"M3081607"						
m/z 288	m/z 324		m/z 326		m/z 328		m/z 289		
	20.131	249481	20.132	399857					
	26.005	166748	26.005	272489					
	26.284	5345	26.283	7274					
	26.307	4748	26.307	7186					
	28.395	190402	28.391	130581					
	33.497	9917	37.968	22753					
	37.971	65873							

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081607"		"M3081607"			"M3081607"		"M3081607"		"M3081607"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.132	399857	20.131	249481		17.105	169265	17.105	164227	
26.005	272489	26.005	166748		17.534	12019	17.541	24072	
26.283	7274	26.284	5345		17.555	13616	20.132	44822	
26.307	7186	26.307	4748		20.131	136077	21.065	4587	
28.391	130581	28.395	190402		21.064	4634	26.002	43467	
37.968	22753	33.497	9917		26.004	128638			
		37.971	65873		26.305	4205			
					27.314	7782			
					28.389	13570			
					28.404	9079			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081607"		"M3081607"					"M3081607"		"M3081607"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.392	509637	28.392	490808				26.296	287578	26.297	230499	
31.525	6255	31.524	5628				28.402	4271	28.392	5115	
37.968	204726	33.498	7365				33.499	154678	33.501	65050	
42.721	4360	37.971	112334				37.974	5668	42.719	5411	
							42.736	24424	42.745	8129	
							42.756	26281			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081607"		"M3081607"			"M3081607"			"M3081607"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.296	287578	26.297	230499		17.546	214512		33.498	465127
28.402	4271	28.392	5115		20.130	9930		37.968	7069
33.499	154678	33.501	65050		26.006	19623		42.738	300337
37.974	5668	42.719	5411		26.298	137323			
42.736	24424	42.745	8129		27.304	280790			
42.756	26281				28.397	7814			
					33.489	36082			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081607"								"M3081607"		"M3081607"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.498	519745							28.392	509637	28.392	490808		
42.719	52295							31.525	6255	31.524	5628		
42.753	120649							37.968	204726	33.498	7365		
								42.721	4360	37.971	112334		

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081607"		"M3081607"			"M3081607"		"M3081607"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.392	509637	28.392	490808		20.131	249481	20.132	399857	
31.525	6255	31.524	5628		26.005	166748	26.005	272489	
37.968	204726	33.498	7365		26.284	5345	26.283	7274	
42.721	4360	37.971	112334		26.307	4748	26.307	7186	
					28.395	190402	28.391	130581	
					33.497	9917	37.968	22753	
					37.971	65873			

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081607"		"M3081607"			"M3081607"		"M3081607"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.970	685053	37.971	494844		33.498	465127	33.498	519745			
38.445	5820	38.447	4794		37.968	7069	42.719	52295			
42.759	15113				42.738	300337	42.753	120649			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081607"		"M3081607"				"M3081607"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.498	519745	33.498	465127				26.296	287578	
42.719	52295	37.968	7069				28.402	4271	
42.753	120649	42.738	300337				33.499	154678	
							37.974	5668	
							42.736	24424	
							42.756	26281	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081607"		"M3081607"		
m/z 464		m/z 466		m/z 425
37.970	685053	37.971	494844	
38.445	5820	38.447	4794	
42.759	15113			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081607"		"M3081607"				"M3081607"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.970	685053	37.971	494844			28.392	509637
38.445	5820	38.447	4794			31.525	6255
42.759	15113					37.968	204726
						42.721	4360

Extracted Ion Current Profiles

Decachlorobiphenyl											
"M3081607"		"M3081607"						"M3081607"		"M3081607"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.747	924415	42.743	800955					33.498	465127	33.498	519745
								37.968	7069	42.719	52295
								42.738	300337	42.753	120649

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081607"		"M3081607"				"M3081607"		"M3081607"			"M3081607"		"M3081607"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
12.014	35964	12.015	28494	424	240	34.358	285668	34.353	60439	188	9.605	199077	9.605	29209
		34.356	6013	426	241					189	13.509	7414	13.507	6397
				428							15.867	281493	15.869	46295
				430							17.102	28956	17.110	4595
				498										
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.725	920375	42.729	799856
512				

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081606.d
Lab Smp Id: iCAL-4 Client Smp ID: iCAL-4
Inj Date : 16-AUG-2011 14:11
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-4
Misc Info : RS M3081606
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 14:11 Cal File: M3081606.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.868	15.861	(1.000)	254255	0.80000	
* 13 Chrysene-d12	240	34.355	34.341	(1.000)	261470	0.80000	
1 Cl1	188	9.600	9.609	(0.279)	348132	1.00000	1.05
$ 2 Tetrachloro-m-xylene	244	12.016	12.014	(0.350)	63751	1.00000	1.05
3 Cl2	222	13.497	13.502	(0.393)	339463	1.00000	1.06
5 Cl3	256	17.095	17.088	(0.498)	300592	1.00000	1.06
6 Cl4	292	17.543	17.531	(0.511)	472316	2.00000	2.11
7 RTstd-BZ-104	326	20.133	20.120	(0.586)	707820	2.00000	2.08
8 Cl5	326	26.004	25.998	(0.757)	498730	2.00000	2.09
9 Cl6	360	26.301	26.296	(0.766)	528384	2.00000	2.13
10 RTstd-BZ-77	292	27.306	27.306	(0.795)	658523	2.00000	2.05
11 Cl7	394	28.388	28.383	(0.826)	907113	3.00000	3.10
12 Cl8	430	33.497	33.495	(0.975)	966917	3.00000	3.15
14 RTstd-BZ-208	464	37.981	37.956	(1.106)	1206464	4.00000	4.04
15 Cl10	498	42.753	42.728	(1.244)	1702128	5.00000	5.29
$ 16 Decachloro-13C12-Biphenyl	510	42.729	42.715	(1.244)	1691205	5.00000	5.40

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081606.d

Date : 16-AUG-2011 14:11

Client ID: iCAL-4

Instrument: GCMS03.i

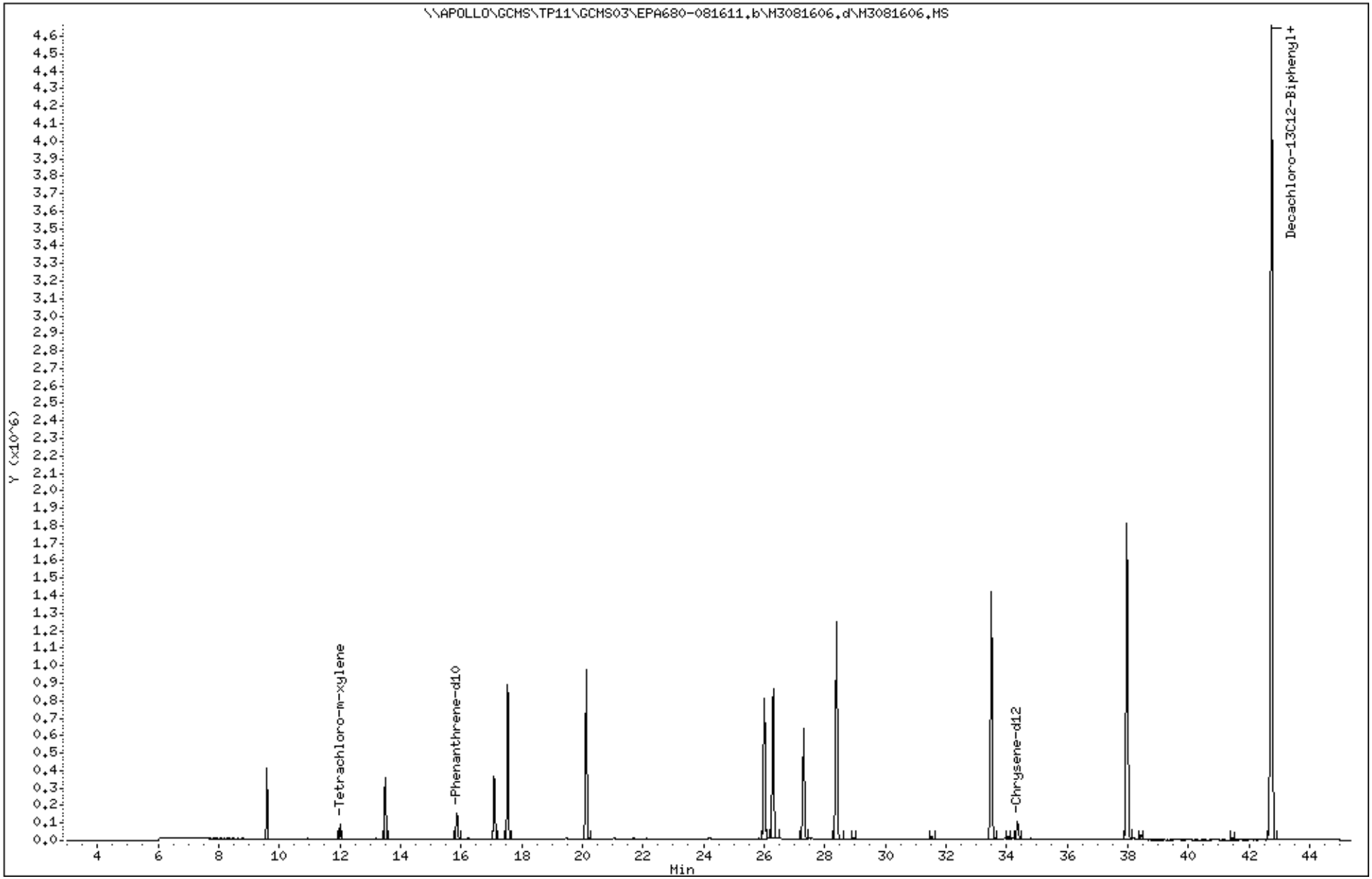
Sample Info: iCAL-4

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Monochlorobiphenyls							
"M3081606"		"M3081606"		"M3081606"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.598	351107	9.598	115123				
13.502	10832	15.874	4704				
15.865	258734						
17.104	51708						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081606"		"M3081606"		"M3081606"						"M3081606"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.504	340718	13.503	226598							9.598	351107
17.103	11272	17.551	37513							13.502	10832
17.549	194739	27.308	29782							15.865	258734
20.132	8559									17.104	51708
26.017	8679										
26.300	9402										
27.309	160377										

Dichlorobiphenyls					
"M3081606"		"M3081606"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.102	300976	17.100	297508		
17.540	46955	17.535	38739		
20.136	241747	20.130	78217		
21.063	8287	21.064	8026		
21.703	6063	21.701	5580		
26.007	234434	26.008	79888		
26.299	12622	27.306	4647		
27.302	6778				
27.321	5499				
28.388	33671				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081606"		"M3081606"				"M3081606"		"M3081606"		"M3081606"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.102	300976	17.100	297508			9.598	351107	20.131	440211	20.130	713515
17.540	46955	17.535	38739			13.502	10832	26.009	307260	26.006	495370
20.136	241747	20.130	78217			15.865	258734	26.299	20905	26.296	28794
21.063	8287	21.064	8026			17.104	51708	28.392	349855	28.392	223987
21.703	6063	21.701	5580					31.521	5504	37.981	41554
26.007	234434	26.008	79888					33.497	11167		
26.299	12622	27.306	4647					33.522	6520		
27.302	6778							34.058	4172		
27.321	5499							37.969	70959		
28.388	33671							37.994	51855		

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081606"		"M3081606"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.545	371005	17.546	479539				
				20.123	10026	20.136	14523				
				20.146	8487	24.204	6045				
				24.203	4030	26.001	39734				
				26.003	34254	26.301	122767				
				26.302	245930	27.307	663484				
				27.307	503353	28.384	6950				
				28.388	11869	33.505	16885				
				28.414	6192						
				33.473	17017						
				33.502	42374						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081606"		"M3081606"			"M3081606"		"M3081606"		"M3081606"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.546	479539	17.545	371005		13.504	340718	26.301	525879	26.299	418751	
20.136	14523	20.123	10026		17.103	11272	28.368	5183	28.379	6442	
24.204	6045	20.146	8487		17.549	194739	28.394	9897	28.940	5786	
26.001	39734	24.203	4030		20.132	8559	28.946	7030	33.498	117911	
26.301	122767	26.003	34254		26.017	8679	33.504	276125	42.727	10405	
27.307	663484	26.302	245930		26.300	9402	37.966	6298	42.766	17440	
28.384	6950	27.307	503353		27.309	160377	42.739	49006			
33.505	16885	28.388	11869				42.764	20775			
		28.414	6192				42.792	9207			
		33.473	17017								
		33.502	42374								

Tetrachlorobiphenyls						
	"M3081606"		"M3081606"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.131	440211	20.130	713515		
	26.009	307260	26.006	495370		
	26.299	20905	26.296	28794		
	28.392	349855	28.392	223987		
	31.521	5504	37.981	41554		
	33.497	11167				
	33.522	6520				
	34.058	4172				
	37.969	70959				
	37.994	51855				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081606"		"M3081606"			"M3081606"		"M3081606"		"M3081606"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.130	713515	20.131	440211		17.102	300976	17.100	297508	
26.006	495370	26.009	307260		17.540	46955	17.535	38739	
26.296	28794	26.299	20905		20.136	241747	20.130	78217	
28.392	223987	28.392	349855		21.063	8287	21.064	8026	
37.981	41554	31.521	5504		21.703	6063	21.701	5580	
		33.497	11167		26.007	234434	26.008	79888	
		33.522	6520		26.299	12622	27.306	4647	
		34.058	4172		27.302	6778			
		37.969	70959		27.321	5499			
		37.994	51855		28.388	33671			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081606"		"M3081606"					"M3081606"		"M3081606"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.392	900719	28.392	876246				26.301	525879	26.299	418751	
31.529	10979	31.519	10885				28.368	5183	28.379	6442	
33.509	13466	33.488	5481				28.394	9897	28.940	5786	
37.971	369334	33.511	7863				28.946	7030	33.498	117911	
42.727	6323	37.964	101330				33.504	276125	42.727	10405	
		37.998	75297				37.966	6298	42.766	17440	
							42.739	49006			
							42.764	20775			
							42.792	9207			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081606"		"M3081606"			"M3081606"			"M3081606"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.301	525879	26.299	418751		17.545	371005		33.500	845989
28.368	5183	28.379	6442		20.123	10026		33.948	5604
28.394	9897	28.940	5786		20.146	8487		34.800	4089
28.946	7030	33.498	117911		24.203	4030		37.987	6412
33.504	276125	42.727	10405		26.003	34254		42.704	45944
37.966	6298	42.766	17440		26.302	245930		42.754	346013
42.739	49006				27.307	503353		42.810	14827
42.764	20775				28.388	11869			
42.792	9207				28.414	6192			
					33.473	17017			
					33.502	42374			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081606"								"M3081606"		"M3081606"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.503	963568							28.392	900719	28.392	876246		
33.943	6329							31.529	10979	31.519	10885		
34.809	5222							33.509	13466	33.488	5481		
37.957	5666							37.971	369334	33.511	7863		
37.989	4707							42.727	6323	37.964	101330		
42.759	344687									37.998	75297		

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081606"		"M3081606"			"M3081606"		"M3081606"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.392	900719	28.392	876246		20.131	440211	20.130	713515	
31.529	10979	31.519	10885		26.009	307260	26.006	495370	
33.509	13466	33.488	5481		26.299	20905	26.296	28794	
37.971	369334	33.511	7863		28.392	349855	28.392	223987	
42.727	6323	37.964	101330		31.521	5504	37.981	41554	
		37.998	75297		33.497	11167			
					33.522	6520			
					34.058	4172			
					37.969	70959			
					37.994	51855			

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081606"		"M3081606"			"M3081606"		"M3081606"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.975	1217076	37.971	950472		33.500	845989	33.503	963568			
38.451	10565	38.446	7966		33.948	5604	33.943	6329			
42.753	47868	42.728	6343		34.800	4089	34.809	5222			
		42.754	5466		37.987	6412	37.957	5666			
					42.704	45944	37.989	4707			
					42.754	346013	42.759	344687			
					42.810	14827					

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081606"		"M3081606"				"M3081606"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.503	963568	33.500	845989				26.301	525879	
33.943	6329	33.948	5604				28.368	5183	
34.809	5222	34.800	4089				28.394	9897	
37.957	5666	37.987	6412				28.946	7030	
37.989	4707	42.704	45944				33.504	276125	
42.759	344687	42.754	346013				37.966	6298	
		42.810	14827				42.739	49006	
							42.764	20775	
							42.792	9207	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081606"		"M3081606"		
m/z 464		m/z 466		m/z 425
37.975	1217076	37.971	950472	
38.451	10565	38.446	7966	
42.753	47868	42.728	6343	
		42.754	5466	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081606"		"M3081606"				"M3081606"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.975	1217076	37.971	950472			28.392	900719
38.451	10565	38.446	7966			31.529	10979
42.753	47868	42.728	6343			33.509	13466
		42.754	5466			37.971	369334
						42.727	6323

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081606"		"M3081606"				"M3081606"		"M3081606"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.750	1705809	42.750	1486688					33.500	845989	33.503	963568
								33.948	5604	33.943	6329
								34.800	4089	34.809	5222
								37.987	6412	37.957	5666
								42.704	45944	37.989	4707
								42.754	346013	42.759	344687
								42.810	14827		

Extracted Ion Current Profiles

TCMX			
"M3081606"		"M3081606"	
m/z 244		m/z 242	
12.010	62657	12.012	50005

TCMX
424
426
428
430
498
500

chrysene - d_{12}
240
241

Chrysene-d12			
"M3081606"		"M3081606"	
m/z 240		m/z 241	
34.359	268579	33.488	8803
		34.355	53138

phenanthrene - d_{10}
188
189

Phenanthrene-d10			
"M3081606"		"M3081606"	
m/z 188		m/z 189	
9.598	351107	9.597	53909
13.502	10832	13.502	11440
15.865	258734	15.860	40975
17.104	51708	17.110	8081

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.735	1699624	42.733	1469928
512				

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081605.d
Lab Smp Id: iCAL-5 Client Smp ID: iCAL-5
Inj Date : 16-AUG-2011 13:22
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-5
Misc Info : RS M3081605
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 13:22 Cal File: M3081605.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.860	15.861	(1.000)	236832	0.80000	
* 13 Chrysene-d12	240	34.351	34.341	(1.000)	243665	0.80000	
1 Cl1	188	9.594	9.609	(0.279)	622305	2.00000	2.06
$ 2 Tetrachloro-m-xylene	244	12.009	12.014	(0.350)	120239	2.00000	2.17
3 Cl2	222	13.490	13.502	(0.393)	609149	2.00000	2.08
5 Cl3	256	17.104	17.088	(0.498)	545215	2.00000	2.11
6 Cl4	292	17.549	17.531	(0.511)	853210	4.00000	4.17
7 RTstd-BZ-104	326	20.125	20.120	(0.586)	1326625	4.00000	4.24
8 Cl5	326	26.009	25.998	(0.757)	918823	4.00000	4.19
9 Cl6	360	26.295	26.296	(0.765)	945639	4.00000	4.17
10 RTstd-BZ-77	292	27.310	27.306	(0.795)	1216472	4.00000	4.11
11 Cl7	394	28.392	28.383	(0.827)	1645920	6.00000	6.10
12 Cl8	430	33.503	33.495	(0.975)	1748120	6.00000	6.22
14 RTstd-BZ-208	464	37.988	37.956	(1.106)	2254226	8.00000	8.12
15 Cl10	498	42.769	42.728	(1.245)	3132411	10.0000	10.6
$ 16 Decachloro-13C12-Biphenyl	510	42.744	42.715	(1.244)	2925157	10.0000	10.5

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081605.d

Date : 16-AUG-2011 13:22

Client ID: iCAL-5

Instrument: GCMS03.i

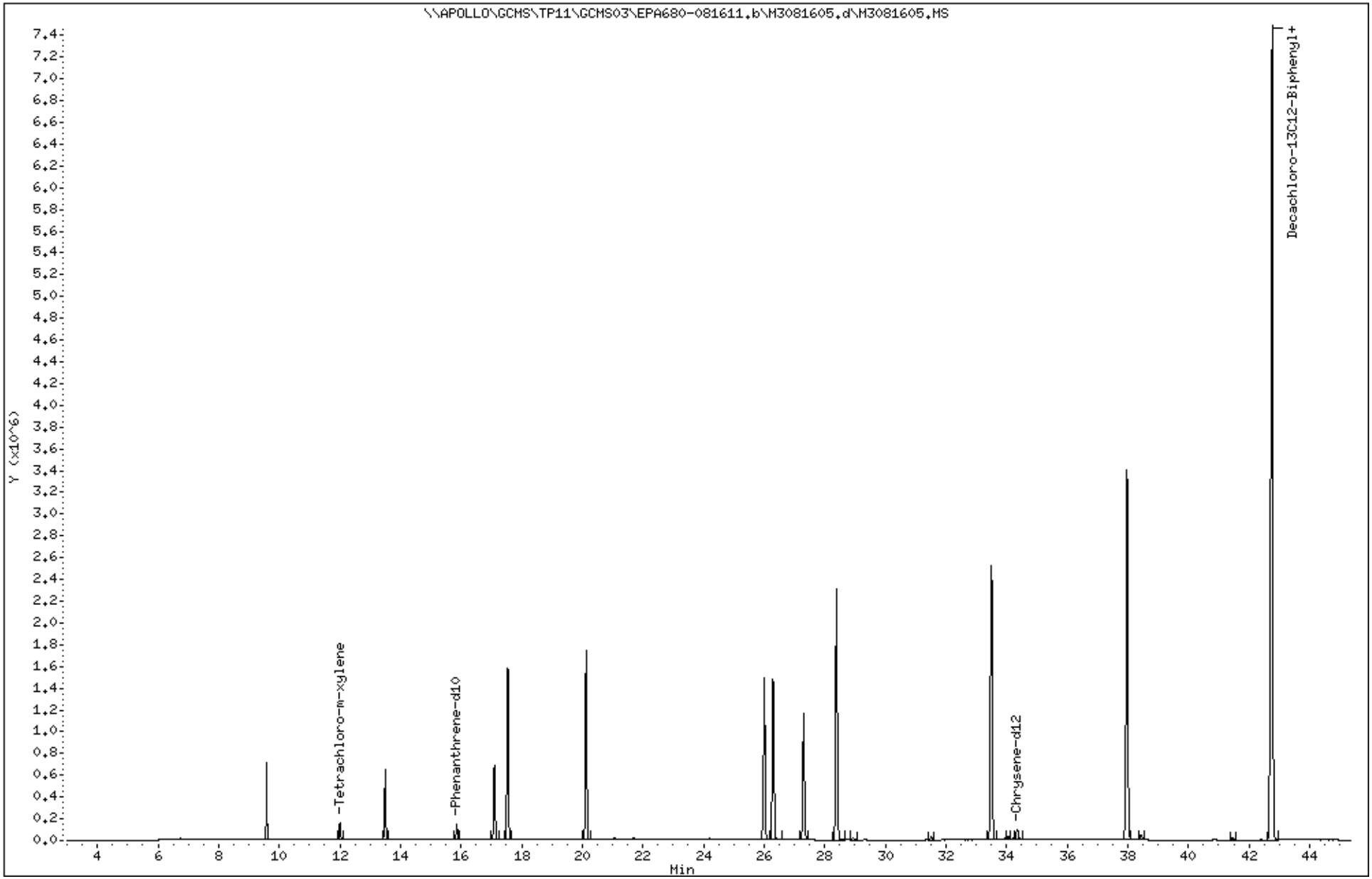
Sample Info: iCAL-5

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Monochlorobiphenyls							
"M3081605"		"M3081605"		"M3081605"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.591	634760	9.591	215177				
13.505	21815						
15.862	239118						
17.103	97759						
27.318	4118						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081605"		"M3081605"		"M3081605"						"M3081605"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.205	4711	13.500	404081							9.591	634760
13.499	623697	17.101	5540							13.505	21815
17.100	19418	17.546	67158							15.862	239118
17.545	372661	27.310	50306							17.103	97759
20.125	14199									27.318	4118
26.001	9786										
26.020	4814										
26.306	16767										
27.309	297321										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081605"		"M3081605"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.100	552988	17.100	533258		
17.551	85561	17.545	74405		
20.129	434130	20.127	145708		
21.059	15186	21.056	15016		
21.695	10764	21.700	10451		
26.008	432839	26.003	142536		
26.294	20424	27.312	6395		
27.297	23958	28.401	4563		
28.388	63511				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081605"		"M3081605"				"M3081605"		"M3081605"		"M3081605"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.100	552988	17.100	533258			9.591	634760	20.129	802386	20.131	1328828
17.551	85561	17.545	74405			13.505	21815	26.009	558484	26.010	919717
20.129	434130	20.127	145708			15.862	239118	26.303	31555	26.304	46921
21.059	15186	21.056	15016			17.103	97759	28.393	605207	28.397	410043
21.695	10764	21.700	10451			27.318	4118	31.518	10635	31.526	6905
26.008	432839	26.003	142536					33.506	28653	33.519	6224
26.294	20424	27.312	6395					34.050	6816	34.049	4768
27.297	23958	28.401	4563					37.986	229763	37.977	52990
28.388	63511									38.001	31220

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081605"		"M3081605"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.542	670443	17.544	876845				
				20.128	36525	20.121	34735				
				24.205	7880	24.205	10336				
				25.999	59704	26.009	72654				
				26.301	457673	26.296	223115				
				27.311	925586	27.312	1226763				
				27.628	5231	27.497	4268				
				28.370	9749	28.377	4755				
				28.396	16987	33.506	28905				
				28.430	4405						
				28.947	6733						
				33.502	117515						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081605"		"M3081605"			"M3081605"		"M3081605"		"M3081605"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.544	876845	17.542	670443		13.205	4711	26.300	942988	26.300	747014	
20.121	34735	20.128	36525		13.499	623697	27.622	4902	28.369	7260	
24.205	10336	24.205	7880		17.100	19418	28.403	27615	28.401	11365	
26.009	72654	25.999	59704		17.545	372661	28.935	12887	28.936	10217	
26.296	223115	26.301	457673		20.125	14199	29.329	4021	33.510	223995	
27.312	1226763	27.311	925586		26.001	9786	33.500	486832	37.955	4345	
27.497	4268	27.628	5231		26.020	4814	37.954	6395	37.989	8126	
28.377	4755	28.370	9749		26.306	16767	37.976	10644	42.773	44382	
33.506	28905	28.396	16987		27.309	297321	42.750	57484			
		28.430	4405				42.769	102558			
		28.947	6733								
		33.502	117515								

Tetrachlorobiphenyls						
	"M3081605"		"M3081605"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.129	802386	20.131	1328828		
	26.009	558484	26.010	919717		
	26.303	31555	26.304	46921		
	28.393	605207	28.397	410043		
	31.518	10635	31.526	6905		
	33.506	28653	33.519	6224		
	34.050	6816	34.049	4768		
	37.986	229763	37.977	52990		
			38.001	31220		

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081605"		"M3081605"			"M3081605"		"M3081605"		"M3081605"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.131	1328828	20.129	802386		17.100	552988	17.100	533258	
26.010	919717	26.009	558484		17.551	85561	17.545	74405	
26.304	46921	26.303	31555		20.129	434130	20.127	145708	
28.397	410043	28.393	605207		21.059	15186	21.056	15016	
31.526	6905	31.518	10635		21.695	10764	21.700	10451	
33.519	6224	33.506	28653		26.008	432839	26.003	142536	
34.049	4768	34.050	6816		26.294	20424	27.312	6395	
37.977	52990	37.986	229763		27.297	23958	28.401	4563	
38.001	31220				28.388	63511			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081605"		"M3081605"					"M3081605"		"M3081605"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.396	1646432	28.394	1590779				26.300	942988	26.300	747014	
31.515	19609	28.611	5069				27.622	4902	28.369	7260	
33.468	5121	31.514	19568				28.403	27615	28.401	11365	
33.492	17128	33.505	21907				28.935	12887	28.936	10217	
37.984	678206	37.988	325685				29.329	4021	33.510	223995	
38.453	5536	38.026	26033				33.500	486832	37.955	4345	
41.454	5419	42.772	12330				37.954	6395	37.989	8126	
42.734	16633						37.976	10644	42.773	44382	
42.759	13829						42.750	57484			
							42.769	102558			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081605"		"M3081605"			"M3081605"			"M3081605"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.300	942988	26.300	747014		17.542	670443		33.501	1535506
27.622	4902	28.369	7260		20.128	36525		33.935	5224
28.403	27615	28.401	11365		24.205	7880		34.797	5290
28.935	12887	28.936	10217		25.999	59704		37.978	16051
29.329	4021	33.510	223995		26.301	457673		42.687	14283
33.500	486832	37.955	4345		27.311	925586		42.730	184643
37.954	6395	37.989	8126		27.628	5231		42.765	394864
37.976	10644	42.773	44382		28.370	9749		42.806	50262
42.750	57484				28.396	16987			
42.769	102558				28.430	4405			
					28.947	6733			
					33.502	117515			

Extracted Ion Current Profiles

Hexachlorobiphenyls											
"M3081605"						"M3081605"		"M3081605"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
33.503	1751280							28.396	1646432	28.394	1590779				
33.615	5464							31.515	19609	28.611	5069				
33.942	11538							33.468	5121	31.514	19568				
34.798	8348							33.492	17128	33.505	21907				
37.950	10012							37.984	678206	37.988	325685				
37.996	8804							38.453	5536	38.026	26033				
42.711	38650							41.454	5419	42.772	12330				
42.772	515763							42.734	16633						
								42.759	13829						

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081605"		"M3081605"			"M3081605"		"M3081605"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.396	1646432	28.394	1590779		20.129	802386	20.131	1328828	
31.515	19609	28.611	5069		26.009	558484	26.010	919717	
33.468	5121	31.514	19568		26.303	31555	26.304	46921	
33.492	17128	33.505	21907		28.393	605207	28.397	410043	
37.984	678206	37.988	325685		31.518	10635	31.526	6905	
38.453	5536	38.026	26033		33.506	28653	33.519	6224	
41.454	5419	42.772	12330		34.050	6816	34.049	4768	
42.734	16633				37.986	229763	37.977	52990	
42.759	13829						38.001	31220	

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081605"		"M3081605"			"M3081605"		"M3081605"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.983	2254384	37.983	1696473		33.501	1535506	33.503	1751280			
38.434	9279	38.452	14938		33.935	5224	33.615	5464			
38.452	12278	42.757	6166		34.797	5290	33.942	11538			
42.707	7103	42.782	4463		37.978	16051	34.798	8348			
42.762	64278				42.687	14283	37.950	10012			
					42.730	184643	37.996	8804			
					42.765	394864	42.711	38650			
					42.806	50262	42.772	515763			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081605"		"M3081605"				"M3081605"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.503	1751280	33.501	1535506				26.300	942988	
33.615	5464	33.935	5224				27.622	4902	
33.942	11538	34.797	5290				28.403	27615	
34.798	8348	37.978	16051				28.935	12887	
37.950	10012	42.687	14283				29.329	4021	
37.996	8804	42.730	184643				33.500	486832	
42.711	38650	42.765	394864				37.954	6395	
42.772	515763	42.806	50262				37.976	10644	
							42.750	57484	
							42.769	102558	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081605"		"M3081605"		
m/z 464		m/z 466		m/z 425
37.983	2254384	37.983	1696473	
38.434	9279	38.452	14938	
38.452	12278	42.757	6166	
42.707	7103	42.782	4463	
42.762	64278			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081605"		"M3081605"				"M3081605"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.983	2254384	37.983	1696473			28.396	1646432
38.434	9279	38.452	14938			31.515	19609
38.452	12278	42.757	6166			33.468	5121
42.707	7103	42.782	4463			33.492	17128
42.762	64278					37.984	678206
						38.453	5536
						41.454	5419
						42.734	16633
						42.759	13829

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081605"		"M3081605"				"M3081605"		"M3081605"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.771	3123915	42.659	4112			33.501	1535506	33.503	1751280
		42.719	325587			33.935	5224	33.615	5464
		42.770	2044195			34.797	5290	33.942	11538
						37.978	16051	34.798	8348
						42.687	14283	37.950	10012
						42.730	184643	37.996	8804
						42.765	394864	42.711	38650
						42.806	50262	42.772	515763

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081605"		"M3081605"				"M3081605"		"M3081605"			"M3081605"		"M3081605"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
12.005	119062	12.006	88478	424	240	33.482	5134	12.008	6733	188	9.591	634760	9.591	92914
		28.398	5684	426	241	34.355	248641	28.378	4202	189	13.505	21815	13.497	19578
				428		37.979	10982	33.495	18386		15.862	239118	15.863	38844
				430				34.354	50051		17.103	97759	17.104	14618
				498							27.318	4118		
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.751	2916913	42.745	2370225(M(
512				

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081604.d
Lab Smp Id: iCAL-6 Client Smp ID: iCAL-6
Inj Date : 16-AUG-2011 12:33
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-6
Misc Info : RS M3081604
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 12:33 Cal File: M3081604.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.853	15.861	(1.000)	213394	0.80000	
* 13 Chrysene-d12	240	34.358	34.341	(1.000)	223062	0.80000	
1 Cl1	188	9.580	9.609	(0.279)	832263	3.00000	3.01
$ 2 Tetrachloro-m-xylene	244	11.999	12.014	(0.349)	146200	3.00000	2.88
3 Cl2	222	13.498	13.502	(0.393)	796465	3.00000	2.98
5 Cl3	256	17.094	17.088	(0.498)	689218	3.00000	2.92
6 Cl4	292	17.542	17.531	(0.511)	1120669	6.00000	5.98
7 RTstd-BZ-104	326	20.131	20.120	(0.586)	1663991	6.00000	5.81
8 Cl5	326	26.017	25.998	(0.757)	1180424	6.00000	5.88
9 Cl6	360	26.301	26.296	(0.766)	1210628	6.00000	5.83
10 RTstd-BZ-77	292	27.309	27.306	(0.795)	1600365	6.00000	5.91
11 Cl7	394	28.400	28.383	(0.827)	2196373	9.00000	8.90
12 Cl8	430	33.509	33.495	(0.975)	2264335	9.00000	8.81
14 RTstd-BZ-208	464	37.993	37.956	(1.106)	2963133	12.0000	11.7
15 Cl10	498	42.787	42.728	(1.245)	3778361	15.0000	14.0
$ 16 Decachloro-13C12-Biphenyl	510	42.762	42.715	(1.245)	3668989	15.0000	14.4

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081604.d

Date : 16-AUG-2011 12:33

Client ID: iCAL-6

Instrument: GCMS03.i

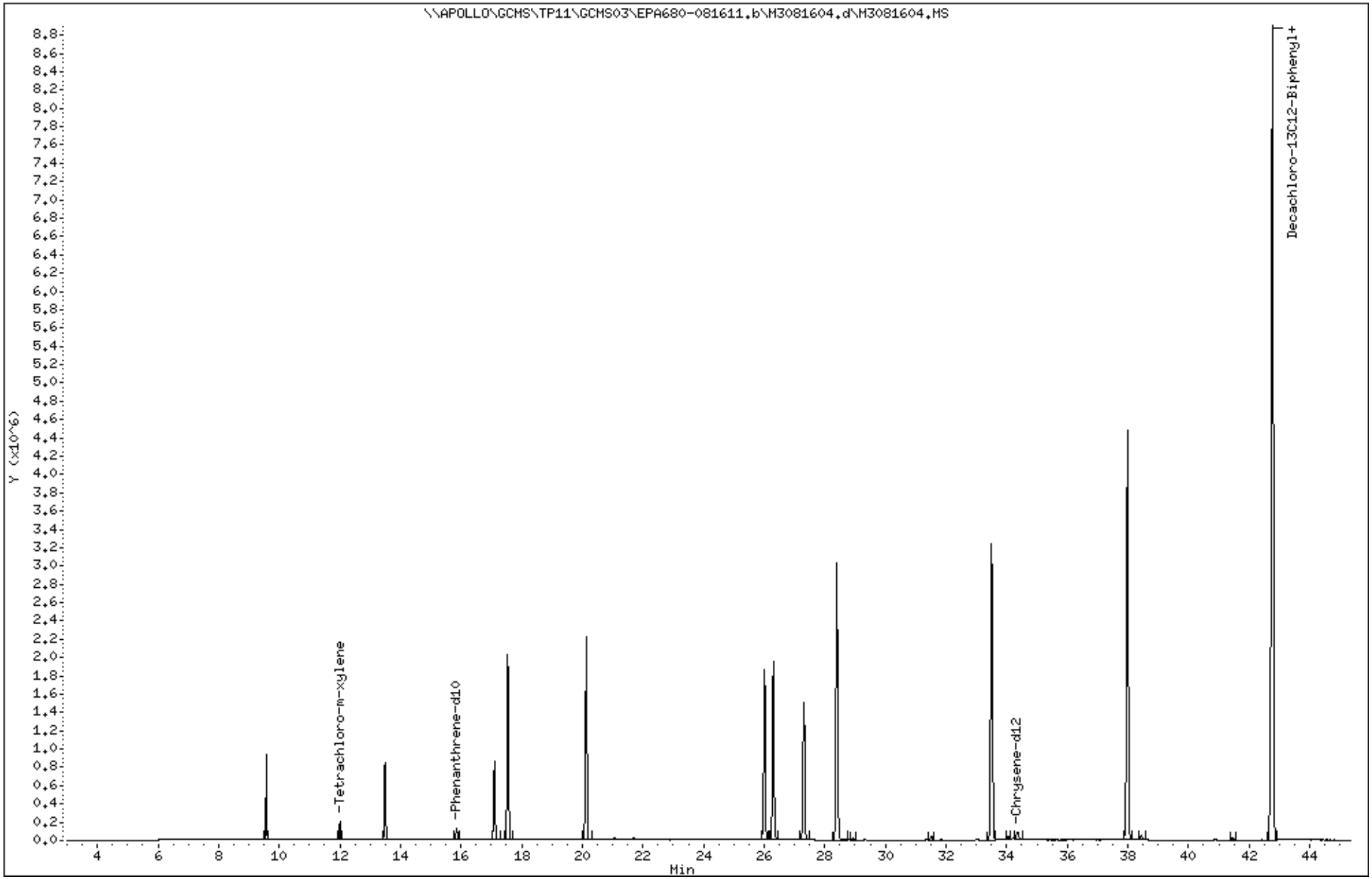
Sample Info: iCAL-6

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Monochlorobiphenyls							
"M3081604"		"M3081604"		"M3081604"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.579	842878	9.579	266615				
13.497	27104	13.494	4304				
15.857	215058						
17.103	124053						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081604"		"M3081604"		"M3081604"						"M3081604"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.199	6038	13.496	517781							9.579	842878
13.495	805105	17.105	8918							13.497	27104
17.098	24153	17.543	83072							15.857	215058
17.546	457605	27.306	61595							17.103	124053
20.121	19228										
25.995	8667										
26.021	10070										
26.308	22531										
27.314	380540										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081604"		"M3081604"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.096	702542	17.097	693053		
17.546	113373	17.535	90325		
20.133	571002	20.126	187533		
21.058	20135	21.062	19915		
21.694	14479	21.701	13342		
26.011	565550	26.011	196027		
26.301	19053	27.308	12309		
26.327	9543				
27.278	5006				
27.300	8905				
27.322	14977				
28.409	87908				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081604"		"M3081604"				"M3081604"		"M3081604"		"M3081604"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.096	702542	17.097	693053			9.579	842878	20.132	1049916	20.132	1660740
17.546	113373	17.535	90325			13.497	27104	26.009	747041	22.094	4059
20.133	571002	20.126	187533			15.857	215058	26.311	44636	26.012	1176876
21.058	20135	21.062	19915			17.103	124053	28.406	819164	26.281	22347
21.694	14479	21.701	13342					31.520	13532	26.309	40890
26.011	565550	26.011	196027					33.462	5300	28.399	524729
26.301	19053	27.308	12309					33.517	36926	31.521	9281
26.327	9543							34.052	9184	33.502	7581
27.278	5006							37.984	193416	33.518	8368
27.300	8905							38.006	126364	34.054	6181
27.322	14977									37.971	46754
28.409	87908									37.995	60236

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081604"		"M3081604"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.541	866009	17.543	1138825				
				20.120	20979	20.132	38447				
				20.143	19956	24.203	14033				
				24.199	10302	26.020	92893				
				26.018	82420	26.307	291662				
				26.304	587182	27.314	1596430				
				27.316	1222502	27.617	7502				
				27.627	6596	28.396	9438				
				28.402	46293	28.935	5057				
				28.942	8940	33.496	22166				
				33.489	63519	33.533	12509				
				33.509	90799						
				37.984	5605						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081604"		"M3081604"			"M3081604"		"M3081604"		"M3081604"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.543	1138825	17.541	866009		13.199	6038	26.306	1208303	26.301	960668	
20.132	38447	20.120	20979		13.495	805105	27.621	6766	27.620	5113	
24.203	14033	20.143	19956		17.098	24153	28.397	38820	28.386	14390	
26.020	92893	24.199	10302		17.546	457605	28.940	16196	28.411	11607	
26.307	291662	26.018	82420		20.121	19228	29.334	5529	28.939	13826	
27.314	1596430	26.304	587182		25.995	8667	33.503	355414	29.324	4344	
27.617	7502	27.316	1222502		26.021	10070	33.516	284383	33.507	283603	
28.396	9438	27.627	6596		26.308	22531	37.957	9038	42.760	21855	
28.935	5057	28.402	46293		27.314	380540	37.981	12483	42.797	19916	
33.496	22166	28.942	8940				38.018	5714			
33.533	12509	33.489	63519				42.765	90938			
		33.509	90799				42.786	132351			
		37.984	5605								

Tetrachlorobiphenyls								
	"M3081604"		"M3081604"					
m/z 288	m/z 324		m/z 326		m/z 328		m/z 289	
	20.132	1049916	20.132	1660740				
	26.009	747041	22.094	4059				
	26.311	44636	26.012	1176876				
	28.406	819164	26.281	22347				
	31.520	13532	26.309	40890				
	33.462	5300	28.399	524729				
	33.517	36926	31.521	9281				
	34.052	9184	33.502	7581				
	37.984	193416	33.518	8368				
	38.006	126364	34.054	6181				
			37.971	46754				
			37.995	60236				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081604"		"M3081604"			"M3081604"		"M3081604"		"M3081604"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.132	1660740	20.132	1049916		17.096	702542	17.097	693053	
22.094	4059	26.009	747041		17.546	113373	17.535	90325	
26.012	1176876	26.311	44636		20.133	571002	20.126	187533	
26.281	22347	28.406	819164		21.058	20135	21.062	19915	
26.309	40890	31.520	13532		21.694	14479	21.701	13342	
28.399	524729	33.462	5300		26.011	565550	26.011	196027	
31.521	9281	33.517	36926		26.301	19053	27.308	12309	
33.502	7581	34.052	9184		26.327	9543			
33.518	8368	37.984	193416		27.278	5006			
34.054	6181	38.006	126364		27.300	8905			
37.971	46754				27.322	14977			
37.995	60236				28.409	87908			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081604"		"M3081604"					"M3081604"		"M3081604"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.401	2194113	28.402	2042434				26.306	1208303	26.301	960668	
28.546	7516	31.520	25310				27.621	6766	27.620	5113	
31.519	26145	33.472	7404				28.397	38820	28.386	14390	
33.496	21465	33.498	5346				28.940	16196	28.411	11607	
33.524	13484	33.520	11363				29.334	5529	28.939	13826	
37.992	865915	37.991	493281				33.503	355414	29.324	4344	
38.448	6421	42.735	7582				33.516	284383	33.507	283603	
41.458	6993	42.785	14302				37.957	9038	42.760	21855	
42.775	10680						37.981	12483	42.797	19916	
42.814	4063						38.018	5714			
							42.765	90938			
							42.786	132351			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081604"		"M3081604"			"M3081604"			"M3081604"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.306	1208303	26.301	960668		17.541	866009		33.508	2025063
27.621	6766	27.620	5113		20.120	20979		33.938	14055
28.397	38820	28.386	14390		20.143	19956		34.797	9203
28.940	16196	28.411	11607		24.199	10302		38.003	30569
29.334	5529	28.939	13826		26.018	82420		42.737	200863
33.503	355414	29.324	4344		26.304	587182		42.779	817223
33.516	284383	33.507	283603		27.316	1222502		42.850	4925
37.957	9038	42.760	21855		27.627	6596			
37.981	12483	42.797	19916		28.402	46293			
38.018	5714				28.942	8940			
42.765	90938				33.489	63519			
42.786	132351				33.509	90799			
					37.984	5605			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081604"								"M3081604"		"M3081604"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.038	4351							28.401	2194113	28.402	2042434		
33.506	2291157							28.546	7516	31.520	25310		
33.714	5018							31.519	26145	33.472	7404		
33.945	17201							33.496	21465	33.498	5346		
34.792	11357							33.524	13484	33.520	11363		
37.960	10629							37.992	865915	37.991	493281		
38.008	18175							38.448	6421	42.735	7582		
42.727	66893							41.458	6993	42.785	14302		
42.788	562919							42.775	10680				
42.838	7668							42.814	4063				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081604"		"M3081604"			"M3081604"		"M3081604"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.401	2194113	28.402	2042434		20.132	1049916	20.132	1660740	
28.546	7516	31.520	25310		26.009	747041	22.094	4059	
31.519	26145	33.472	7404		26.311	44636	26.012	1176876	
33.496	21465	33.498	5346		28.406	819164	26.281	22347	
33.524	13484	33.520	11363		31.520	13532	26.309	40890	
37.992	865915	37.991	493281		33.462	5300	28.399	524729	
38.448	6421	42.735	7582		33.517	36926	31.521	9281	
41.458	6993	42.785	14302		34.052	9184	33.502	7581	
42.775	10680				37.984	193416	33.518	8368	
42.814	4063				38.006	126364	34.054	6181	
							37.971	46754	
							37.995	60236	

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081604"		"M3081604"			"M3081604"		"M3081604"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.991	2989185	37.992	2248872		33.508	2025063	33.038	4351			
38.150	6198	38.452	19774		33.938	14055	33.506	2291157			
38.448	27599	42.750	4274		34.797	9203	33.714	5018			
42.781	71935	42.788	10592		38.003	30569	33.945	17201			
42.813	16556				42.737	200863	34.792	11357			
					42.779	817223	37.960	10629			
					42.850	4925	38.008	18175			
							42.727	66893			
							42.788	562919			
							42.838	7668			

Extracted Ion Current Profiles

Octachlorobiphenyls											
"M3081604"		"M3081604"						"M3081604"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462	
33.038	4351	33.508	2025063					26.306	1208303		
33.506	2291157	33.938	14055					27.621	6766		
33.714	5018	34.797	9203					28.397	38820		
33.945	17201	38.003	30569					28.940	16196		
34.792	11357	42.737	200863					29.334	5529		
37.960	10629	42.779	817223					33.503	355414		
38.008	18175	42.850	4925					33.516	284383		
42.727	66893							37.957	9038		
42.788	562919							37.981	12483		
42.838	7668							38.018	5714		
								42.765	90938		
								42.786	132351		

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081604"		"M3081604"		
m/z 464		m/z 466		m/z 425
37.991	2989185	37.992	2248872	
38.150	6198	38.452	19774	
38.448	27599	42.750	4274	
42.781	71935	42.788	10592	
42.813	16556			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081604"		"M3081604"				"M3081604"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.991	2989185	37.992	2248872			28.401	2194113
38.150	6198	38.452	19774			28.546	7516
38.448	27599	42.750	4274			31.519	26145
42.781	71935	42.788	10592			33.496	21465
42.813	16556					33.524	13484
						37.992	865915
						38.448	6421
						41.458	6993
						42.775	10680
						42.814	4063

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081604"		"M3081604"				"M3081604"		"M3081604"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.784	3799804	42.784	3313184					33.508	2025063	33.038	4351
								33.938	14055	33.506	2291157
								34.797	9203	33.714	5018
								38.003	30569	33.945	17201
								42.737	200863	34.792	11357
								42.779	817223	37.960	10629
								42.850	4925	38.008	18175
										42.727	66893
										42.788	562919
										42.838	7668

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081604"		"M3081604"				"M3081604"		"M3081604"			"M3081604"		"M3081604"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.999	148549	12.000	116702	424	240	34.357	226964	11.998	8837	188	9.579	842878	9.581	118187
		28.398	8173	426	241			28.398	4194	189	13.497	27104	13.497	24872
		33.514	4661	428				33.508	22105		15.857	215058	15.852	31922
				430				34.359	45492		17.103	124053	17.087	9491
				498				37.986	5882				17.104	6390
				500				38.006	5588					

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.764	3690578	42.763	3149614
512	42.876	5352		

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081603.d
Lab Smp Id: iCAL-7 Client Smp ID: iCAL-7
Inj Date : 16-AUG-2011 11:44
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-7
Misc Info : RS M3081603
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 11:44 Cal File: M3081603.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.869	15.861	(1.000)	169526	0.80000	
* 13 Chrysene-d12	240	34.372	34.341	(1.000)	182856	0.80000	
1 Cl1	188	9.617	9.609	(0.280)	1099169	5.00000	4.84
$ 2 Tetrachloro-m-xylene	244	12.030	12.014	(0.350)	198525	5.00000	4.77
3 Cl2	222	13.513	13.502	(0.393)	1059953	5.00000	4.83
5 Cl3	256	17.122	17.088	(0.498)	942726	5.00000	4.86
6 Cl4	292	17.568	17.531	(0.511)	1479346	10.0000	9.62
7 RTstd-BZ-104	326	20.144	20.120	(0.586)	2278304	10.0000	9.71
8 Cl5	326	26.022	25.998	(0.757)	1599139	10.0000	9.72
9 Cl6	360	26.319	26.296	(0.766)	1679725	10.0000	9.87
10 RTstd-BZ-77	292	27.338	27.306	(0.795)	2194274	10.0000	9.88
11 Cl7	394	28.419	28.383	(0.827)	3015819	15.0000	14.9
12 Cl8	430	33.526	33.495	(0.975)	3111831	15.0000	14.8
14 RTstd-BZ-208	464	38.006	37.956	(1.106)	4215477	20.0000	20.2(A)
15 Cl10	498	42.790	42.728	(1.245)	5521167	25.0000	25.0(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081603.d

Date : 16-AUG-2011 11:44

Client ID: iCAL-7

Instrument: GCMS03.i

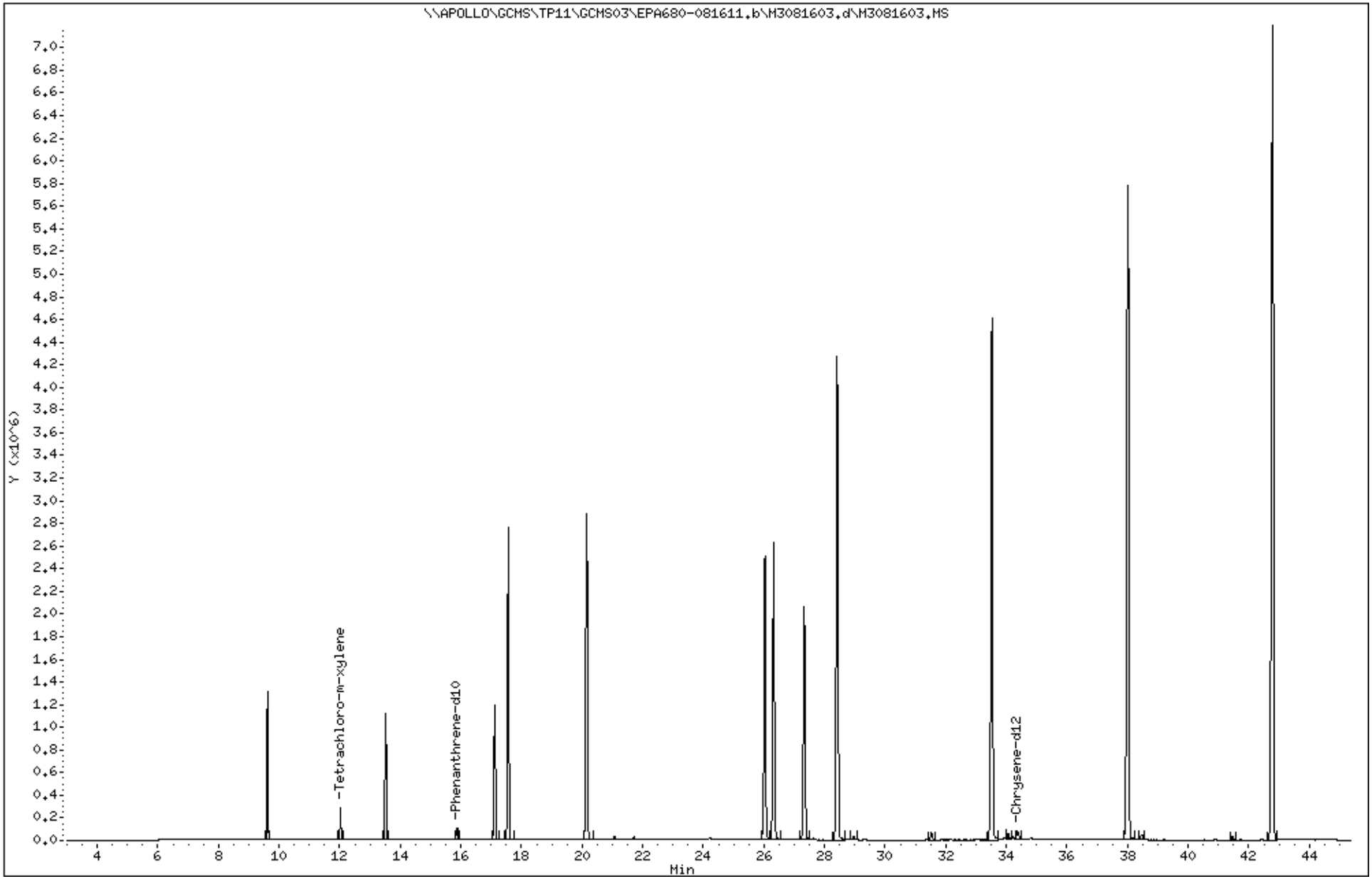
Sample Info: iCAL-7

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Monochlorobiphenyls							
"M3081603"		"M3081603"		"M3081603"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.616	1132983	9.617	368529				
13.521	30968						
15.875	172144						
17.121	166663						
21.075	4700						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081603"		"M3081603"		"M3081603"						"M3081603"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.222	8261	13.223	5541							9.616	1132983
13.520	1080564	13.521	698180							13.521	30968
17.117	34002	17.115	11277							15.875	172144
17.567	620416	17.566	113741							17.121	166663
20.153	21064	27.338	95372							21.075	4700
24.214	4997										
26.019	25930										
26.316	32347										
27.335	533431										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081603"		"M3081603"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.117	968432	17.119	944126		
17.560	137435	17.560	118074		
20.148	719038	20.148	262965		
21.074	27722	21.073	27369		
21.706	19034	21.709	18957		
26.033	743930	26.033	253051		
26.298	13520	26.318	4467		
26.321	21638	27.301	5444		
27.317	17328	27.338	10434		
27.347	24422	28.411	10109		
28.423	126475	28.432	7940		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081603"		"M3081603"				"M3081603"		"M3081603"		"M3081603"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.117	968432	17.119	944126			9.616	1132983	20.149	1424615	20.150	2290498
17.560	137435	17.560	118074			13.521	30968	26.032	1004679	22.110	5328
20.148	719038	20.148	262965			15.875	172144	26.313	34908	26.029	1596867
21.074	27722	21.073	27369			17.121	166663	26.329	29764	26.159	6968
21.706	19034	21.709	18957			21.075	4700	28.418	1139911	26.318	85726
26.033	743930	26.033	253051					31.526	19757	28.419	720508
26.298	13520	26.318	4467					33.504	27618	31.532	12946
26.321	21638	27.301	5444					33.539	23786	33.522	29063
27.317	17328	27.338	10434					34.058	12831	34.059	9247
27.347	24422	28.411	10109					34.214	5243	34.210	4170
28.423	126475	28.432	7940					37.997	216463	37.950	8756
								38.019	195369	38.015	109192
								38.467	4155		

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081603"		"M3081603"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.564	1186720	17.566	1503651				
				20.147	55815	20.151	62977				
				24.214	14332	24.217	18924				
				26.030	95430	26.025	120912				
				26.323	795877	26.321	380055				
				27.336	1676255	27.336	2187982				
				27.624	11193	27.524	5885				
				28.414	45757	27.634	7645				
				28.445	15189	28.394	8282				
				28.948	12307	28.429	11492				
				33.526	232045	28.951	6899				
				38.007	7007	33.513	38635				
						33.552	14967				

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081603"		"M3081603"			"M3081603"		"M3081603"		"M3081603"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.566	1503651	17.564	1186720		13.222	8261	25.860	4849	26.320	1316916	
20.151	62977	20.147	55815		13.520	1080564	26.320	1678394	27.632	7349	
24.217	18924	24.214	14332		17.117	34002	26.518	4904	28.385	8683	
26.025	120912	26.030	95430		17.567	620416	27.630	8758	28.417	18498	
26.321	380055	26.323	795877		20.153	21064	28.386	14200	28.437	7442	
27.336	2187982	27.336	1676255		24.214	4997	28.416	39060	28.950	19322	
27.524	5885	27.624	11193		26.019	25930	28.949	23333	29.335	6399	
27.634	7645	28.414	45757		26.316	32347	29.336	8000	33.517	233668	
28.394	8282	28.445	15189		27.335	533431	33.525	907384	33.539	171187	
28.429	11492	28.948	12307				33.956	5197	42.732	6361	
28.951	6899	33.526	232045				37.956	4388	42.758	30107	
33.513	38635	38.007	7007				37.986	38880	42.772	16657	
33.552	14967						42.759	105701	42.801	27904	
							42.788	191549			

Tetrachlorobiphenyls								
	"M3081603"		"M3081603"					
m/z 288	m/z 324		m/z 326		m/z 328		m/z 289	
	20.149	1424615	20.150	2290498				
	26.032	1004679	22.110	5328				
	26.313	34908	26.029	1596867				
	26.329	29764	26.159	6968				
	28.418	1139911	26.318	85726				
	31.526	19757	28.419	720508				
	33.504	27618	31.532	12946				
	33.539	23786	33.522	29063				
	34.058	12831	34.059	9247				
	34.214	5243	34.210	4170				
	37.997	216463	37.950	8756				
	38.019	195369	38.015	109192				
	38.467	4155						

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081603"		"M3081603"			"M3081603"		"M3081603"		"M3081603"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.150	2290498	20.149	1424615		17.117	968432	17.119	944126	
22.110	5328	26.032	1004679		17.560	137435	17.560	118074	
26.029	1596867	26.313	34908		20.148	719038	20.148	262965	
26.159	6968	26.329	29764		21.074	27722	21.073	27369	
26.318	85726	28.418	1139911		21.706	19034	21.709	18957	
28.419	720508	31.526	19757		26.033	743930	26.033	253051	
31.532	12946	33.504	27618		26.298	13520	26.318	4467	
33.522	29063	33.539	23786		26.321	21638	27.301	5444	
34.059	9247	34.058	12831		27.317	17328	27.338	10434	
34.210	4170	34.214	5243		27.347	24422	28.411	10109	
37.950	8756	37.997	216463		28.423	126475	28.432	7940	
38.015	109192	38.019	195369						
		38.467	4155						

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081603"		"M3081603"					"M3081603"		"M3081603"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.420	2988029	28.422	2924268				25.860	4849	26.320	1316916	
28.541	13747	28.567	6524				26.320	1678394	27.632	7349	
31.364	4520	31.527	35018				26.518	4904	28.385	8683	
31.524	37403	33.525	25882				27.630	8758	28.417	18498	
33.515	26201	33.552	7353				28.386	14200	28.437	7442	
33.542	19749	38.015	622201				28.416	39060	28.950	19322	
38.015	1150685	38.068	9282				28.949	23333	29.335	6399	
38.068	20375	38.468	4980				29.336	8000	33.517	233668	
38.463	11625	41.468	5066				33.525	907384	33.539	171187	
41.474	9439	42.774	14487				33.956	5197	42.732	6361	
42.739	8291						37.956	4388	42.758	30107	
42.767	12359						37.986	38880	42.772	16657	
42.794	18592						42.759	105701	42.801	27904	
							42.788	191549			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081603"		"M3081603"			"M3081603"			"M3081603"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
25.860	4849	26.320	1316916		17.564	1186720		33.043	5059
26.320	1678394	27.632	7349		20.147	55815		33.524	2837395
26.518	4904	28.385	8683		24.214	14332		33.620	4389
27.630	8758	28.417	18498		26.030	95430		33.657	5188
28.386	14200	28.437	7442		26.323	795877		33.694	6627
28.416	39060	28.950	19322		27.336	1676255		33.764	4976
28.949	23333	29.335	6399		27.624	11193		33.818	5814
29.336	8000	33.517	233668		28.414	45757		33.949	18267
33.525	907384	33.539	171187		28.445	15189		34.804	13319
33.956	5197	42.732	6361		28.948	12307		37.970	8175
37.956	4388	42.758	30107		33.526	232045		38.011	23603
37.986	38880	42.772	16657		38.007	7007		42.751	512094
42.759	105701	42.801	27904					42.798	740914
42.788	191549							42.848	15147

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081603"								"M3081603"		"M3081603"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.048	5792							28.420	2988029	28.422	2924268		
33.524	3142906							28.541	13747	28.567	6524		
33.670	5918							31.364	4520	31.527	35018		
33.721	9148							31.524	37403	33.525	25882		
33.954	23975							33.515	26201	33.552	7353		
34.145	4020							33.542	19749	38.015	622201		
34.809	15661							38.015	1150685	38.068	9282		
38.003	46725							38.068	20375	38.468	4980		
42.721	55589							38.463	11625	41.468	5066		
42.789	907937							41.474	9439	42.774	14487		
42.834	34523							42.739	8291				
								42.767	12359				
								42.794	18592				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081603"		"M3081603"			"M3081603"		"M3081603"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.420	2988029	28.422	2924268		20.149	1424615	20.150	2290498	
28.541	13747	28.567	6524		26.032	1004679	22.110	5328	
31.364	4520	31.527	35018		26.313	34908	26.029	1596867	
31.524	37403	33.525	25882		26.329	29764	26.159	6968	
33.515	26201	33.552	7353		28.418	1139911	26.318	85726	
33.542	19749	38.015	622201		31.526	19757	28.419	720508	
38.015	1150685	38.068	9282		33.504	27618	31.532	12946	
38.068	20375	38.468	4980		33.539	23786	33.522	29063	
38.463	11625	41.468	5066		34.058	12831	34.059	9247	
41.474	9439	42.774	14487		34.214	5243	34.210	4170	
42.739	8291				37.997	216463	37.950	8756	
42.767	12359				38.019	195369	38.015	109192	
42.794	18592				38.467	4155			

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081603"		"M3081603"			"M3081603"		"M3081603"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
38.010	4245675	38.010	3135583		33.043	5059	33.048	5792			
38.129	5588	38.129	4017		33.524	2837395	33.524	3142906			
38.166	4480	38.468	27926		33.620	4389	33.670	5918			
38.203	6629	41.450	8189		33.657	5188	33.721	9148			
38.317	4237	42.751	24825		33.694	6627	33.954	23975			
38.461	37238	42.799	14226		33.764	4976	34.145	4020			
42.766	78808				33.818	5814	34.809	15661			
42.787	42462				33.949	18267	38.003	46725			
42.815	20371				34.804	13319	42.721	55589			
					37.970	8175	42.789	907937			
					38.011	23603	42.834	34523			
					42.751	512094					
					42.798	740914					
					42.848	15147					

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081603"		"M3081603"				"M3081603"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.048	5792	33.043	5059				25.860	4849	
33.524	3142906	33.524	2837395				26.320	1678394	
33.670	5918	33.620	4389				26.518	4904	
33.721	9148	33.657	5188				27.630	8758	
33.954	23975	33.694	6627				28.386	14200	
34.145	4020	33.764	4976				28.416	39060	
34.809	15661	33.818	5814				28.949	23333	
38.003	46725	33.949	18267				29.336	8000	
42.721	55589	34.804	13319				33.525	907384	
42.789	907937	37.970	8175				33.956	5197	
42.834	34523	38.011	23603				37.956	4388	
		42.751	512094				37.986	38880	
		42.798	740914				42.759	105701	
		42.848	15147				42.788	191549	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081603"		"M3081603"		
m/z 464		m/z 466		m/z 425
38.010	4245675	38.010	3135583	
38.129	5588	38.129	4017	
38.166	4480	38.468	27926	
38.203	6629	41.450	8189	
38.317	4237	42.751	24825	
38.461	37238	42.799	14226	
42.766	78808			
42.787	42462			
42.815	20371			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081603"		"M3081603"				"M3081603"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
38.010	4245675	38.010	3135583			28.420	2988029
38.129	5588	38.129	4017			28.541	13747
38.166	4480	38.468	27926			31.364	4520
38.203	6629	41.450	8189			31.524	37403
38.317	4237	42.751	24825			33.515	26201
38.461	37238	42.799	14226			33.542	19749
42.766	78808					38.015	1150685
42.787	42462					38.068	20375
42.815	20371					38.463	11625
						41.474	9439
						42.739	8291
						42.767	12359
						42.794	18592

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081603"		"M3081603"				"M3081603"		"M3081603"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.787	5561763	42.788	4739958			33.043	5059	33.048	5792
42.914	11153					33.524	2837395	33.524	3142906
43.028	5432					33.620	4389	33.670	5918
						33.657	5188	33.721	9148
						33.694	6627	33.954	23975
						33.764	4976	34.145	4020
						33.818	5814	34.809	15661
						33.949	18267	38.003	46725
						34.804	13319	42.721	55589
						37.970	8175	42.789	907937
						38.011	23603	42.834	34523
						42.751	512094		
						42.798	740914		
						42.848	15147		

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3081603"		"M3081603"				"M3081603"		"M3081603"			"M3081603"		"M3081603"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
12.027	200884	12.027	160808	424	240	34.367	188898	12.026	11596	188	9.616	1132983	9.615	166273
		28.411	5397	426	241	38.007	4946	28.412	16290	189	13.521	30968	13.525	33008
		28.441	9045	428				33.480	4753		15.875	172144	15.874	28321
				430				33.525	19647		17.121	166663	17.124	24467
				498				34.370	40544		21.075	4700		
				500				37.992	6664					

Extracted Ion Current Profiles

	Deca C13	
Deca C13	m/z 510	m/z 512

510
512

Standards Summary Tables

7B
EPA 680 Continuing Calibration Data

NEA - A Divison of Pace

SDG No.: 11120177

Instrument ID:	GCMS03	Calibration Date:	12/16/2011	Time:	11:05
Lab File ID:	M3121603	Start Cal Date:	3/18/2010	Time:	22:53
Client ID:	CCV3-1216A	End Cal Date:	3/19/2011	Time:	04:01
GC Column:	DB-XLB				

NEA File ID: S:\Lab Data\GCMS-SV\EPA-680\PACE_LRF11120177\[CCV3-1216A.xls]Sheet1

COMPOUND	Average RRF	CCV RRF	MIN RRF	%D	MAX %D
1 Cl1	1.120	1.178	0.005	5.22	20
$ 2 Tetrachloro-m-xylene	0.204	0.190	0.005	-6.87	20
3 Cl2	1.103	1.099	0.005	-0.37	20
5 Cl3	0.939	0.944	0.005	0.51	20
6 Cl4	0.775	0.724	0.005	-6.67	20
8 Cl5	0.778	0.731	0.005	-5.95	20
9 Cl6	0.796	0.773	0.005	-2.91	20
11 Cl7	0.943	0.893	0.005	-5.34	20
13 Cl8	1.020	0.936	0.005	-8.28	20
17 Cl10	1.029	0.906	0.005	-12.0	20
$ 13C-DCBP	1.017	0.972	0.005	-4.45	20

FORM VII-CLP-EPA 680-1

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\M3121603.d
Lab Smp Id: CCV3-1216A Client Smp ID: CCV3-1216A
Inj Date : 16-DEC-2011 11:05
Operator : RMS Inst ID: GCMS03.i
Smp Info : CCV3-1216A
Misc Info : RS M3121603
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\680low.m
Meth Date : 20-Dec-2011 10:06 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 16:39 Cal File: M3081609.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.777	15.772	(1.000)	215766	0.80000	
* 13 Chrysene-d12	240	34.237	34.232	(1.000)	222276	0.80000	
1 Cl1	188	9.543	9.537	(0.279)	324587	1.00000	1.02
$ 2 Tetrachloro-m-xylene	244	11.948	11.943	(0.349)	54352	1.00000	0.937
3 Cl2	222	13.426	13.427	(0.392)	305463	1.00000	1.02
5 Cl3	256	17.015	17.010	(0.497)	261694	1.00000	0.988
6 Cl4	292	17.453	17.454	(0.510)	400275	2.00000	1.87
7 RTstd-BZ-104	326	20.045	20.032	(0.585)	625882	2.00000	1.98
8 Cl5	326	25.901	25.888	(0.757)	408467	2.00000	1.88
9 Cl6	360	26.187	26.184	(0.765)	437230	2.00000	1.93
10 RTstd-BZ-77	292	27.200	27.191	(0.794)	596461	2.00000	2.02
11 Cl7	394	28.278	28.263	(0.826)	762762	3.00000	2.84
12 Cl8	430	33.385	33.365	(0.975)	779549	3.00000	2.79
14 RTstd-BZ-208	464	37.862	37.847	(1.106)	1001685	4.00000	3.71
15 Cl10	498	42.632	42.626	(1.245)	1263043	5.00000	4.35
$ 16 Decachloro-13C12-Biphenyl	510	42.620	42.614	(1.245)	1351830	5.00000	4.71

Data File: \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\M3121603.d

Date : 16-DEC-2011 11:05

Client ID: CCV3-1216A

Instrument: GCMS03.i

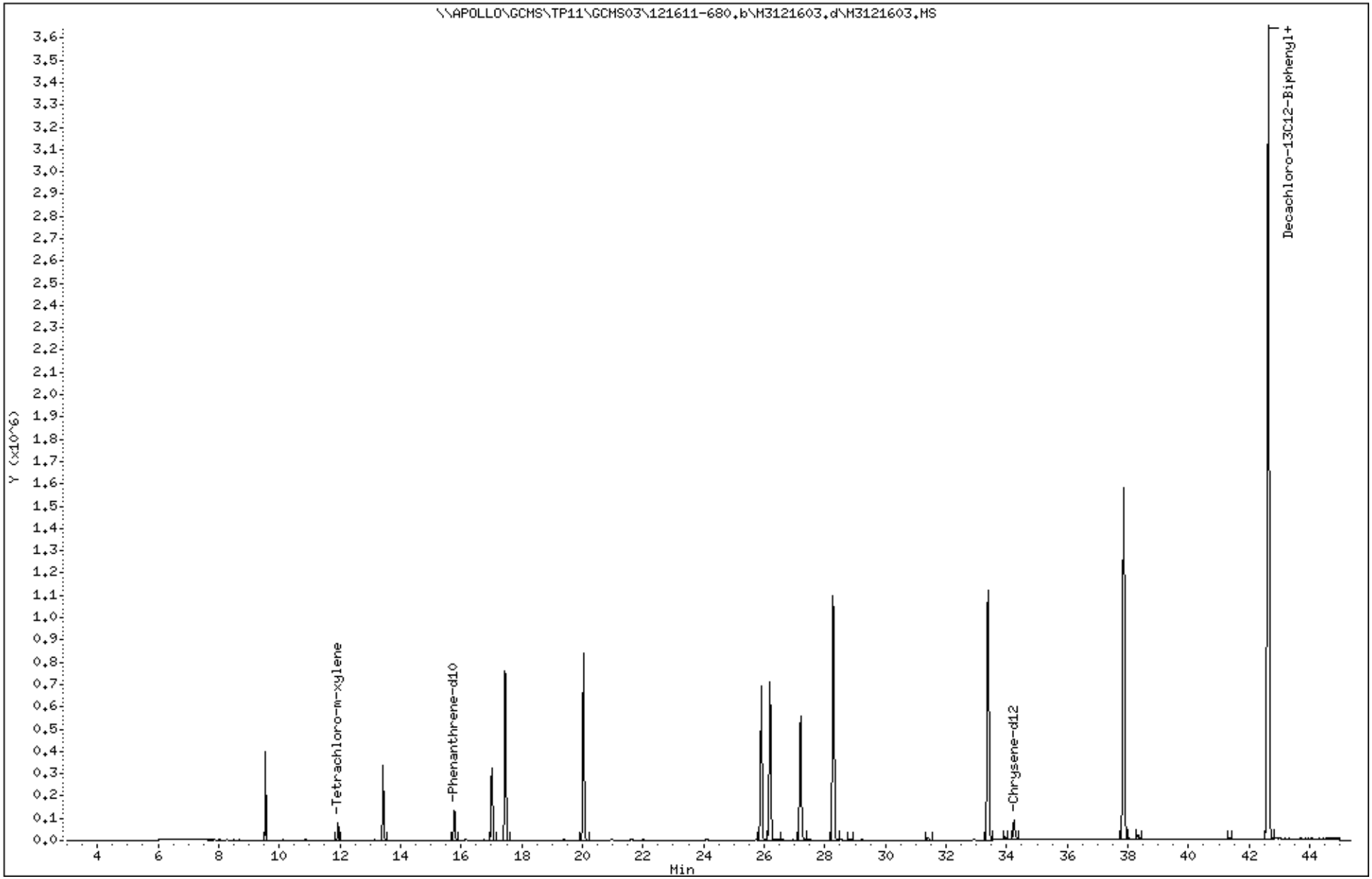
Sample Info: CCV3-1216A

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Form 1
PCB Homolog Report

NEA - A Divison of Pace

		SDG No.:	11120177
ELAP ID No.:	11078	Client ID:	CCV3-1216A
Matrix:	Standard	Lab Sample ID:	CCV3-1216A
Sample weight:	1	Date Received:	N/A
% Moisture	0 %	Date Extracted:	N/A
Method:	EPA 680 (GC/MS)	Date Analyzed:	12/16/2011
Dilution Factor:	1	Time Analyzed:	11:05

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
9.547	330579	9.546	112587	2.9	1.1199	0.00092	0.010	1.1	
				Mono Total:		0.00092	0.010	1.1	

Dichlorobiphenyls									
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
13.429	308214	13.429	204784	1.5	1.1027	0.00060	0.010	1.00	
				Di Total:		0.00060	0.010	1.00	

Trichlorobiphenyls									
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.018	264766	17.021	262627	1.0	0.9390	0.0012	0.010	1.0	
				Tri Total:		0.0012	0.010	1.0	

Tetrachlorobiphenyls									
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.459	405990	17.459	316173	1.3	0.7752	0.00068	0.020	1.9	
				Tetra Total:		0.00068	0.020	1.9	

Pentachlorobiphenyls									
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
25.905	410319	25.907	253782	1.6	0.7775	0.0012	0.020	1.9	
				Penta Total:		0.0012	0.020	1.9	

Hexachlorobiphenyls									
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
26.193	433688	26.194	356724	1.2	0.7961	0.0012	0.020	1.9	
				Hexa Total:		0.0012	0.020	1.9	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
28.280	751313	28.281	737057	1.0	0.9430	0.0019	0.030	2.8	
				Hepta Total:		0.0019	0.030	2.8	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
33.385	787741	33.385	665115	1.2	1.0205	0.0018	0.030	2.8	
				Octa Total:		0.0018	0.030	2.8	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
				Nona Total:		0.0042	0.050	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
42.638	1271027	42.636	1118680	1.1	1.0294	0.0042	0.050	4.4	
				Deca Total:		0.0042	0.050	4.4	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.946	53322	11.945	40890	1.3	0.2041		0.93	
				TCMX Total:			0.93	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.620	1363242	42.620	1160553	1.2	1.0171		4.8	
				Deca Total:			4.8	

TCMX Recovery % 93 %

Deca Recovery 96 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.241	224439	34.241	45836	4.9	1.0000		0.80	
				Chrysene-d_{12}:			0.80	

Monochlorobiphenyls							
"M3121603"		"M3121603"		"M3121603"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.547	330579	9.546	112587				
13.428	10509	15.788	2993				
15.781	216038						
16.160	2066						
17.018	45938						
20.978	1244						
27.205	2024						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3121603"		"M3121603"		"M3121603"						"M3121603"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.135	1881	13.132	1273							9.547	330579
13.429	308214	13.429	204784							13.428	10509
17.026	9456	17.026	2993							15.781	216038
17.462	180065	17.460	31099							16.160	2066
20.033	4016	27.202	23089							17.018	45938
20.058	2662									20.978	1244
24.123	1179									27.205	2024
25.881	2472										
25.900	2539										
25.926	1713										
26.196	8919										
27.202	136041										
27.326	1288										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3121603"		"M3121603"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.018	264766	17.021	262627		
17.459	39271	17.453	33874		
20.042	201951	20.042	67621		
20.978	6860	20.974	6677		
21.614	4517	21.619	4506		
25.902	201345	25.904	69363		
26.197	8826	26.196	1270		
27.194	11533	27.192	2656		
28.286	33864	27.210	2821		
33.385	1017	28.279	3331		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3121603"		"M3121603"				"M3121603"		"M3121603"		"M3121603"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.018	264766	17.021	262627			9.547	330579	20.042	380542	20.043	626206
17.459	39271	17.453	33874			13.428	10509	25.907	253782	22.017	1136
20.042	201951	20.042	67621			15.781	216038	26.179	6191	25.905	410319
20.978	6860	20.974	6677			16.160	2066	26.200	8092	26.189	21751
21.614	4517	21.619	4506			17.018	45938	28.284	274291	28.281	191041
25.902	201345	25.904	69363			20.978	1244	31.413	4120	31.409	3017
26.197	8826	26.196	1270			27.205	2024	33.386	9616	33.385	6549
27.194	11533	27.192	2656					33.410	4954	33.423	1472
28.286	33864	27.210	2821					33.942	2907	33.940	1902
33.385	1017	28.279	3331					37.853	97253	37.854	36103

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3121603"		"M3121603"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.459	316173	17.459	405990				
				20.037	16584	20.035	15356				
				24.114	3357	24.111	4490				
				25.902	26639	25.910	31125				
				26.195	210609	26.194	104448				
				27.203	445619	27.202	593378				
				27.375	1043	27.393	1512				
				27.428	1368	27.522	2634				
				27.515	1965	28.249	1778				
				28.275	16719	28.281	1782				
				28.830	2670	28.303	2129				
				33.394	53179	28.843	1584				
				37.837	1041	33.386	13363				
				37.882	2187						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3121603"		"M3121603"			"M3121603"		"M3121603"		"M3121603"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.459	405990	17.459	316173		13.135	1881	25.733	1059	26.194	356724	
20.035	15356	20.037	16584		13.429	308214	26.193	433688	26.359	1126	
24.111	4490	24.114	3357		17.026	9456	27.519	1868	27.516	1597	
25.910	31125	25.902	26639		17.462	180065	28.257	4290	28.287	10279	
26.194	104448	26.195	210609		20.033	4016	28.282	10681	28.833	3964	
27.202	593378	27.203	445619		20.058	2662	28.828	4938	29.211	1356	
27.393	1512	27.375	1043		24.123	1179	33.385	210660	33.377	97127	
27.522	2634	27.428	1368		25.881	2472	37.858	8697	37.869	6424	
28.249	1778	27.515	1965		25.900	2539	37.887	3828	42.589	2082	
28.281	1782	28.275	16719		25.926	1713	42.634	67481	42.623	4441	
28.303	2129	28.830	2670		26.196	8919	42.695	1968	42.644	6213	
28.843	1584	33.394	53179		27.202	136041			42.670	3383	
33.386	13363	37.837	1041		27.326	1288					
		37.882	2187								

Tetrachlorobiphenyls								
	"M3121603"		"M3121603"					
m/z 288	m/z 324		m/z 326		m/z 328		m/z 289	
	20.042	380542	20.043	626206				
	25.907	253782	22.017	1136				
	26.179	6191	25.905	410319				
	26.200	8092	26.189	21751				
	28.284	274291	28.281	191041				
	31.413	4120	31.409	3017				
	33.386	9616	33.385	6549				
	33.410	4954	33.423	1472				
	33.942	2907	33.940	1902				
	37.853	97253	37.854	36103				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3121603"		"M3121603"			"M3121603"		"M3121603"		"M3121603"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.043	626206	20.042	380542		17.018	264766	17.021	262627	
22.017	1136	25.907	253782		17.459	39271	17.453	33874	
25.905	410319	26.179	6191		20.042	201951	20.042	67621	
26.189	21751	26.200	8092		20.978	6860	20.974	6677	
28.281	191041	28.284	274291		21.614	4517	21.619	4506	
31.409	3017	31.413	4120		25.902	201345	25.904	69363	
33.385	6549	33.386	9616		26.197	8826	26.196	1270	
33.423	1472	33.410	4954		27.194	11533	27.192	2656	
33.940	1902	33.942	2907		28.286	33864	27.210	2821	
37.854	36103	37.853	97253		33.385	1017	28.279	3331	

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3121603"		"M3121603"					"M3121603"		"M3121603"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.280	751313	28.281	737057				25.733	1059	26.194	356724	
28.427	2066	31.408	7351				26.193	433688	26.359	1126	
31.406	7017	33.352	2610				27.519	1868	27.516	1597	
33.375	10040	33.387	7626				28.257	4290	28.287	10279	
37.864	284834	37.863	157256				28.282	10681	28.833	3964	
42.619	3756	42.652	6496				28.828	4938	29.211	1356	
42.656	2090						33.385	210660	33.377	97127	
42.683	1525						37.858	8697	37.869	6424	
							37.887	3828	42.589	2082	
							42.634	67481	42.623	4441	
							42.695	1968	42.644	6213	
									42.670	3383	

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3121603"		"M3121603"			"M3121603"			"M3121603"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
25.733	1059	26.194	356724		17.459	316173		32.931	1093
26.193	433688	26.359	1126		20.037	16584		33.385	665115
27.519	1868	27.516	1597		24.114	3357		33.569	1102
28.257	4290	28.287	10279		25.902	26639		33.657	1065
28.282	10681	28.833	3964		26.195	210609		33.822	2807
28.828	4938	29.211	1356		27.203	445619		37.828	2654
33.385	210660	33.377	97127		27.375	1043		37.861	9835
37.858	8697	37.869	6424		27.428	1368		42.634	337916
37.887	3828	42.589	2082		27.515	1965			
42.634	67481	42.623	4441		28.275	16719			
42.695	1968	42.644	6213		28.830	2670			
		42.670	3383		33.394	53179			
					37.837	1041			
					37.882	2187			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3121603"								"M3121603"		"M3121603"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.385	787741							28.280	751313	28.281	737057		
33.551	1265							28.427	2066	31.408	7351		
33.606	1562							31.406	7017	33.352	2610		
33.824	4424							33.375	10040	33.387	7626		
34.691	2474							37.864	284834	37.863	157256		
37.838	5366							42.619	3756	42.652	6496		
37.872	6979							42.656	2090				
42.634	223842							42.683	1525				
42.695	6475												

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3121603"		"M3121603"			"M3121603"		"M3121603"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.280	751313	28.281	737057		20.042	380542	20.043	626206	
28.427	2066	31.408	7351		25.907	253782	22.017	1136	
31.406	7017	33.352	2610		26.179	6191	25.905	410319	
33.375	10040	33.387	7626		26.200	8092	26.189	21751	
37.864	284834	37.863	157256		28.284	274291	28.281	191041	
42.619	3756	42.652	6496		31.413	4120	31.409	3017	
42.656	2090				33.386	9616	33.385	6549	
42.683	1525				33.410	4954	33.423	1472	
					33.942	2907	33.940	1902	
					37.853	97253	37.854	36103	

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3121603"		"M3121603"			"M3121603"		"M3121603"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.862	1015264	37.863	760605		32.931	1093	33.385	787741			
38.027	1477	38.343	3843		33.385	665115	33.551	1265			
38.329	6131	41.333	1517		33.569	1102	33.606	1562			
42.606	4388	41.350	1988		33.657	1065	33.824	4424			
42.637	6288	42.593	2896		33.822	2807	34.691	2474			
		42.634	9052		37.828	2654	37.838	5366			
					37.861	9835	37.872	6979			
					42.634	337916	42.634	223842			
							42.695	6475			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3121603"		"M3121603"				"M3121603"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.385	787741	32.931	1093				25.733	1059	
33.551	1265	33.385	665115				26.193	433688	
33.606	1562	33.569	1102				27.519	1868	
33.824	4424	33.657	1065				28.257	4290	
34.691	2474	33.822	2807				28.282	10681	
37.838	5366	37.828	2654				28.828	4938	
37.872	6979	37.861	9835				33.385	210660	
42.634	223842	42.634	337916				37.858	8697	
42.695	6475						37.887	3828	
							42.634	67481	
							42.695	1968	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3121603"		"M3121603"		
m/z 464		m/z 466		m/z 425
37.862	1015264	37.863	760605	
38.027	1477	38.343	3843	
38.329	6131	41.333	1517	
42.606	4388	41.350	1988	
42.637	6288	42.593	2896	
		42.634	9052	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3121603"		"M3121603"				"M3121603"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.862	1015264	37.863	760605			28.280	751313
38.027	1477	38.343	3843			28.427	2066
38.329	6131	41.333	1517			31.406	7017
42.606	4388	41.350	1988			33.375	10040
42.637	6288	42.593	2896			37.864	284834
		42.634	9052			42.619	3756
						42.656	2090
						42.683	1525

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3121603"		"M3121603"				"M3121603"		"M3121603"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
37.846	1009	42.636	1118680			32.931	1093	33.385	787741
42.638	1271027					33.385	665115	33.551	1265
42.852	1045					33.569	1102	33.606	1562
43.050	1316					33.657	1065	33.824	4424
						33.822	2807	34.691	2474
						37.828	2654	37.838	5366
						37.861	9835	37.872	6979
						42.634	337916	42.634	223842
								42.695	6475

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3121603"		"M3121603"				"M3121603"		"M3121603"			"M3121603"		"M3121603"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
11.946	53322	11.945	40890	424	240	28.298	5226	11.946	3351	188	9.547	330579	9.549	45114
32.041	2028	28.270	1759	426	241	33.369	2197	17.461	1524	189	13.428	10509	13.428	8915
		28.291	2942	428		33.412	1094	28.264	1708		15.781	216038	15.781	33886
		33.381	1532	430		34.241	224439	28.294	2109		16.160	2066	17.017	7241
		34.239	4962	498		37.846	3301	33.389	6258		17.018	45938		
				500				33.423	1462		20.978	1244		
								34.241	45836		27.205	2024		
								37.862	1505					

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.620	1363242	42.620	1160553
512				

7B
EPA 680 Continuing Calibration Data

NEA - A Divison of Pace

SDG No.: 11120177

Instrument ID:	GCMS03	Calibration Date:	12/16/2011	Time:	17:21
Lab File ID:	M3121609	Start Cal Date:	3/18/2010	Time:	22:53
Client ID:	CCV3-1216B	End Cal Date:	3/19/2011	Time:	04:01
GC Column:	DB-XLB				

NEA File ID: S:\Lab Data\GCMS-SV\EPA-680\PACE_LRF11120177\[CCV3-1216A.xls]Sheet1

COMPOUND	Average RRF	CCV RRF	MIN RRF	%D	MAX %D
1 Cl1	1.120	1.121	0.005	0.09	20
$ 2 Tetrachloro-m-xylene	0.204	0.183	0.005	-10.5	20
3 Cl2	1.103	1.043	0.005	-5.44	20
5 Cl3	0.939	0.916	0.005	-2.40	20
6 Cl4	0.775	0.687	0.005	-11.3	20
8 Cl5	0.778	0.712	0.005	-8.39	20
9 Cl6	0.796	0.767	0.005	-3.69	20
11 Cl7	0.943	0.868	0.005	-7.93	20
13 Cl8	1.020	0.904	0.005	-11.4	20
17 Cl10	1.029	0.901	0.005	-12.5	20
$ 13C-DCBP	1.017	0.963	0.005	-5.29	20

FORM VII-CLP-EPA 680-1

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\M3121609.d
Lab Smp Id: CCV3-1216B Client Smp ID: CCV3-1216B
Inj Date : 16-DEC-2011 17:21
Operator : RMS Inst ID: GCMS03.i
Smp Info : CCV3-1216B
Misc Info : RS M3121609
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\680low.m
Meth Date : 20-Dec-2011 10:06 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 16:39 Cal File: M3081609.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.772	15.772	(1.000)	230561	0.80000	
* 13 Chrysene-d12	240	34.232	34.232	(1.000)	246566	0.80000	
1 Cl1	188	9.537	9.537	(0.279)	345679	1.00000	0.984
$ 2 Tetrachloro-m-xylene	244	11.943	11.943	(0.349)	58388	1.00000	0.907
3 Cl2	222	13.427	13.427	(0.392)	323082	1.00000	0.976
5 Cl3	256	17.010	17.010	(0.497)	281947	1.00000	0.959
6 Cl4	292	17.454	17.454	(0.510)	421169	2.00000	1.78
7 RTstd-BZ-104	326	20.032	20.032	(0.585)	672191	2.00000	1.91
8 Cl5	326	25.888	25.888	(0.756)	454212	2.00000	1.88
9 Cl6	360	26.184	26.184	(0.765)	481257	2.00000	1.92
10 RTstd-BZ-77	292	27.191	27.191	(0.794)	626383	2.00000	1.91
11 Cl7	394	28.263	28.263	(0.826)	819955	3.00000	2.75
12 Cl8	430	33.365	33.365	(0.975)	855867	3.00000	2.76
14 RTstd-BZ-208	464	37.847	37.847	(1.106)	1114683	4.00000	3.72
15 Cl10	498	42.626	42.626	(1.245)	1403216	5.00000	4.36
$ 16 Decachloro-13C12-Biphenyl	510	42.614	42.614	(1.245)	1506885	5.00000	4.74

Data File: \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\M3121609.d

Date : 16-DEC-2011 17:21

Client ID: CCV3-1216B

Instrument: GCMS03.i

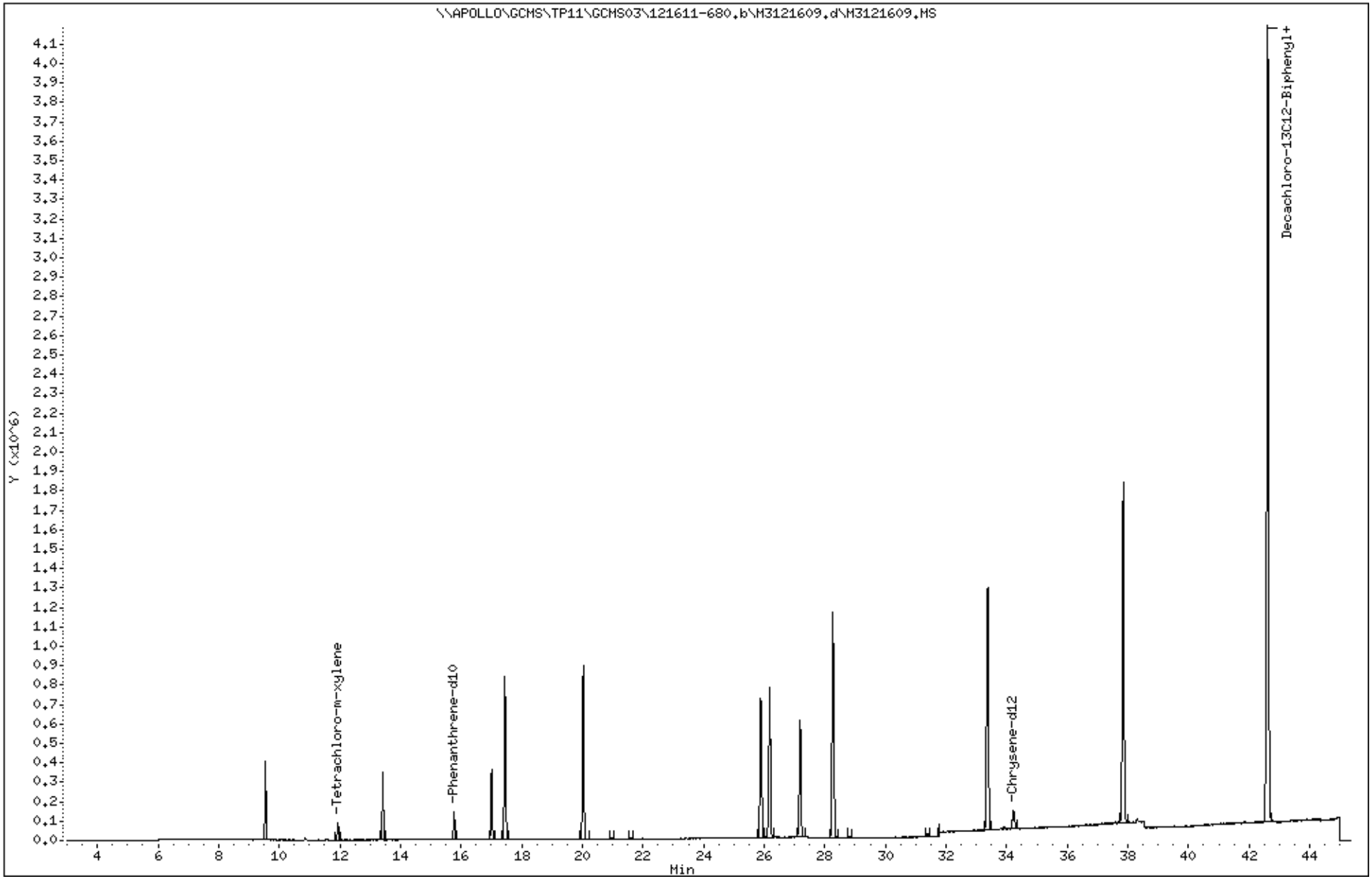
Sample Info: CCV3-1216B

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Form 1
PCB Homolog Report

NEA - A Divison of Pace

		SDG No.:	11120177
ELAP ID No.:	11078	Client ID:	CCV3-1216B
Matrix:	Standard	Lab Sample ID:	CCV3-1216B
Sample weight:	1	Date Received:	N/A
% Moisture	0 %	Date Extracted:	N/A
Method:	EPA 680 (GC/MS)	Date Analyzed:	12/16/2011
Dilution Factor:	1	Time Analyzed:	17:21

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
9.546	354398	9.546	122684	2.9	1.1199	0.00092	0.010	1.0	
				Mono Total:		0.00092	0.010	1.0	

Dichlorobiphenyls									
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
13.423	329662	13.422	218866	1.5	1.1027	0.00060	0.010	0.95	
				Di Total:		0.00060	0.010	0.95	

Trichlorobiphenyls									
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.009	289730	17.009	282262	1.0	0.9390	0.0012	0.010	0.98	
				Tri Total:		0.0012	0.010	0.98	

Tetrachlorobiphenyls									
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.451	434657	17.452	335482	1.3	0.7752	0.00068	0.020	1.8	
				Tetra Total:		0.00068	0.020	1.8	

Pentachlorobiphenyls									
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
25.891	450376	25.890	277576	1.6	0.7775	0.0012	0.020	1.8	
				Penta Total:		0.0012	0.020	1.8	

Hexachlorobiphenyls									
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
26.182	484828	26.180	384183	1.3	0.7961	0.0012	0.020	1.9	
				Hexa Total:		0.0012	0.020	1.9	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
28.266	823416	28.266	801486	1.0	0.9430	0.0019	0.030	2.8	
				Hepta Total:		0.0019	0.030	2.8	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
33.371	857555	33.371	762347	1.1	1.0205	0.0018	0.030	2.7	
				Octa Total:		0.0018	0.030	2.7	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
				Nona Total:		0.0042	0.050	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
42.623	1423966	42.623	1262480	1.1	1.0294	0.0042	0.050	4.4	
				Deca Total:		0.0042	0.050	4.4	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.940	57775	11.940	45684	1.3	0.2041		0.90	
				TCMX Total:			0.90	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.611	1522759	42.610	1269874	1.2	1.0171		4.7	
				Deca Total:			4.7	

TCMX Recovery % 90 %

Deca Recovery 95 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.229	252923	34.221	53266	4.7	1.0000		0.80	
				Chrysene-d_{12}:			0.80	

Monochlorobiphenyls							
"M3121609"		"M3121609"		"M3121609"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.546	354398	9.546	122684				
13.421	9940	13.426	1502				
15.773	235517	15.777	4140				
16.150	2590						
17.009	49680						
17.439	1747						
17.475	1329						
20.964	1531						
21.601	1292						
27.187	1317						
27.210	1090						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3121609"		"M3121609"		"M3121609"						"M3121609"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.132	2129	13.131	1455							9.546	354398
13.423	329662	13.422	218866							13.421	9940
17.010	9960	17.010	3069							15.773	235517
17.448	192862	17.452	35751							16.150	2590
20.039	7446	27.189	26233							17.009	49680
24.099	1464									17.439	1747
25.888	6399									17.475	1329
25.925	1638									20.964	1531
26.164	4281									21.601	1292
26.183	6024									27.187	1317
27.189	152554									27.210	1090

Dichlorobiphenyls					
"M3121609"		"M3121609"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.009	289730	17.009	282262		
17.448	41832	17.452	37960		
20.033	218312	20.031	76630		
20.962	7588	20.963	7241		
21.602	5108	21.598	5049		
25.891	225141	25.895	76123		
26.160	4316	26.186	2228		
26.190	6201	27.157	1650		
27.188	12686	27.179	2433		
28.270	25108	27.215	1909		
28.300	7368	28.236	1297		
36.064	1177	28.271	2170		
36.246	1185	34.474	1192		
36.585	1022	37.174	1070		
36.820	1338	37.647	1001		
37.433	1044	37.846	1025		
37.800	1054	37.955	1303		
37.836	3655	38.396	1082		
37.901	1180				
38.058	1453				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3121609"		"M3121609"				"M3121609"		"M3121609"		"M3121609"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.009	289730	17.009	282262			9.546	354398	20.031	414087	20.032	664297
17.448	41832	17.452	37960			13.421	9940	25.890	277576	25.891	450376
20.033	218312	20.031	76630			15.773	235517	26.176	17689	26.173	22827
20.962	7588	20.963	7241			16.150	2590	28.267	304942	28.272	202595
21.602	5108	21.598	5049			17.009	49680	31.397	5268	31.391	3999
25.891	225141	25.895	76123			17.439	1747	33.384	15230	33.365	10923
26.160	4316	26.186	2228			17.475	1329	33.920	3465	33.920	3071
26.190	6201	27.157	1650			20.964	1531	37.844	109233	35.333	1090
27.188	12686	27.179	2433			21.601	1292	38.338	1058	37.598	1039
28.270	25108	27.215	1909			27.187	1317			37.836	20705
28.300	7368	28.236	1297			27.210	1090			37.858	20520
36.064	1177	28.271	2170								
36.246	1185	34.474	1192								
36.585	1022	37.174	1070								
36.820	1338	37.647	1001								
37.433	1044	37.846	1025								
37.800	1054	37.955	1303								
37.836	3655	38.396	1082								
37.901	1180										
38.058	1453										

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3121609"		"M3121609"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.452	335482	17.451	434657				
				20.021	14690	20.034	15578				
				24.096	3862	21.593	1107				
				25.899	31198	24.102	4913				
				26.179	225066	25.887	34506				
				26.320	1134	26.180	119051				
				27.186	488326	27.189	635222				
				27.314	2316	27.373	3883				
				27.362	1192	27.499	2681				
				27.406	1357	28.263	6387				
				27.488	2067	28.309	1324				
				27.522	1327	28.813	2386				
				28.272	17391	33.375	14561				
				28.812	3723	35.618	1314				
				33.375	63560	36.806	1064				
				35.577	1293	36.880	1062				
				37.357	1418	37.160	1724				
				37.623	1265	37.693	1096				
				37.796	1206	38.179	1277				
				37.847	6481	38.283	1461				

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3121609"		"M3121609"			"M3121609"		"M3121609"		"M3121609"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.451	434657	17.452	335482		13.132	2129	23.417	1047	26.180	384183	
20.034	15578	20.021	14690		13.423	329662	25.729	1457	26.332	1435	
21.593	1107	24.096	3862		17.010	9960	26.182	484828	27.496	1630	
24.102	4913	25.899	31198		17.448	192862	26.375	1167	28.266	11896	
25.887	34506	26.179	225066		20.039	7446	27.492	2634	28.822	5081	
26.180	119051	26.320	1134		24.099	1464	28.265	13718	29.205	2268	
27.189	635222	27.186	488326		25.888	6399	28.300	3913	33.373	79080	
27.373	3883	27.314	2316		25.925	1638	28.821	6046	33.402	19452	
27.499	2681	27.362	1192		26.164	4281	29.205	2099	37.831	4408	
28.263	6387	27.406	1357		26.183	6024	33.371	232323	37.871	1115	
28.309	1324	27.488	2067		27.189	152554	33.806	1562	39.153	1120	
28.813	2386	27.522	1327				34.670	1712	39.577	1211	
33.375	14561	28.272	17391				35.513	1045	39.982	1215	
35.618	1314	28.812	3723				36.142	1044	40.082	1124	
36.806	1064	33.375	63560				36.251	1057	40.849	1198	
36.880	1062	35.577	1293				37.823	6714	40.956	1153	
37.160	1724	37.357	1418				37.850	5807	41.032	1030	
37.693	1096	37.623	1265				37.886	1677	41.566	1014	
38.179	1277	37.796	1206				38.446	1328	41.911	1331	
38.283	1461	37.847	6481				38.822	1147	41.987	1022	
							38.980	1050	42.039	1068	
							39.114	1143	42.282	2171	
							39.383	1185	42.343	1116	
							42.460	1408	44.691	1381	
							42.625	78752	44.766	1126	
							42.798	1046	44.838	1090	

Tetrachlorobiphenyls						
	"M3121609"		"M3121609"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.031	414087	20.032	664297		
	25.890	277576	25.891	450376		
	26.176	17689	26.173	22827		
	28.267	304942	28.272	202595		
	31.397	5268	31.391	3999		
	33.384	15230	33.365	10923		
	33.920	3465	33.920	3071		
	37.844	109233	35.333	1090		
	38.338	1058	37.598	1039		
			37.836	20705		
			37.858	20520		

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3121609"		"M3121609"			"M3121609"		"M3121609"		"M3121609"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.032	664297	20.031	414087		17.009	289730	17.009	282262	
25.891	450376	25.890	277576		17.448	41832	17.452	37960	
26.173	22827	26.176	17689		20.033	218312	20.031	76630	
28.272	202595	28.267	304942		20.962	7588	20.963	7241	
31.391	3999	31.397	5268		21.602	5108	21.598	5049	
33.365	10923	33.384	15230		25.891	225141	25.895	76123	
33.920	3071	33.920	3465		26.160	4316	26.186	2228	
35.333	1090	37.844	109233		26.190	6201	27.157	1650	
37.598	1039	38.338	1058		27.188	12686	27.179	2433	
37.836	20705				28.270	25108	27.215	1909	
37.858	20520				28.300	7368	28.236	1297	
					36.064	1177	28.271	2170	
					36.246	1185	34.474	1192	
					36.585	1022	37.174	1070	
					36.820	1338	37.647	1001	
					37.433	1044	37.846	1025	
					37.800	1054	37.955	1303	
					37.836	3655	38.396	1082	
					37.901	1180			
					38.058	1453			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3121609"		"M3121609"					"M3121609"		"M3121609"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.266	823416	28.266	801486				23.417	1047	26.180	384183	
28.484	1098	28.595	1034				25.729	1457	26.332	1435	
28.516	1411	31.228	1071				26.182	484828	27.496	1630	
31.244	1206	31.398	8604				26.375	1167	28.266	11896	
31.395	9290	33.375	11213				27.492	2634	28.822	5081	
33.377	14482	37.848	190680				28.265	13718	29.205	2268	
37.849	328015	38.312	1941				28.300	3913	33.373	79080	
38.123	1440	38.348	1008				28.821	6046	33.402	19452	
38.327	2128	38.572	1216				29.205	2099	37.831	4408	
38.380	1207	39.112	1093				33.371	232323	37.871	1115	
39.046	1073	39.211	1021				33.806	1562	39.153	1120	
39.133	1261	39.429	1753				34.670	1712	39.577	1211	
39.430	1119	39.495	1378				35.513	1045	39.982	1215	
40.275	1123	39.913	1049				36.142	1044	40.082	1124	
40.348	1682	40.099	1072				36.251	1057	40.849	1198	
40.597	1145	40.141	1081				37.823	6714	40.956	1153	
40.751	1179	40.548	1274				37.850	5807	41.032	1030	
40.779	1556	40.642	1062				37.886	1677	41.566	1014	
40.854	1192	40.863	1905				38.446	1328	41.911	1331	
41.322	2839	41.062	1015				38.822	1147	41.987	1022	
41.536	1195	41.207	1046				38.980	1050	42.039	1068	
41.640	1414	41.522	1212				39.114	1143	42.282	2171	
42.574	4508	41.675	1230				39.383	1185	42.343	1116	
42.623	13477	41.735	1342				39.604	1200	42.481	1116	
42.669	2438	41.857	1183				39.850	1117	42.573	5815	
42.811	1376	42.061	1028				39.923	1043	42.619	18242	
42.892	1134	42.130	1000				40.350	1591	42.894	1283	
43.002	1186	42.234	1247				40.507	1150	42.977	1240	
43.112	1030	42.312	1297				40.539	1084	43.112	1514	
43.161	1564	42.403	1312				40.720	1240	43.211	1012	
43.331	1551	42.473	1026				41.080	1095	43.318	1012	
43.378	1512	42.517	1566				41.138	1238	43.584	1157	
43.451	1595	42.618	8994				41.181	1089	43.984	1055	
43.535	1277	42.668	1106				41.548	1212	44.045	1412	
43.773	1222	42.792	1116				41.846	1624	44.143	1107	
43.894	1045	42.822	1382				42.142	1005	44.218	2148	
43.940	1765	42.914	1220				42.208	1335	44.361	2141	
44.023	1265	43.023	1643				42.321	1450	44.486	1231	
44.302	1018	43.149	1178				42.406	1015	44.596	1416	
44.401	1526	43.261	1338				42.460	1408	44.691	1381	
44.454	1313	43.355	1460				42.625	78752	44.766	1126	
44.651	1148	43.395	1110				42.798	1046	44.838	1090	

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3121609"		"M3121609"			"M3121609"			"M3121609"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
23.417	1047	26.180	384183		17.452	335482		33.371	762347
25.729	1457	26.332	1435		20.021	14690		33.535	2184
26.182	484828	27.496	1630		24.096	3862		33.810	2966
26.375	1167	28.266	11896		25.899	31198		34.188	1576
27.492	2634	28.822	5081		26.179	225066		34.677	1217
28.265	13718	29.205	2268		26.320	1134		36.746	1112
28.300	3913	33.373	79080		27.186	488326		37.155	1313
28.821	6046	33.402	19452		27.314	2316		37.570	1231
29.205	2099	37.831	4408		27.362	1192		37.672	1023
33.371	232323	37.871	1115		27.406	1357		37.837	10856
33.806	1562	39.153	1120		27.488	2067		38.193	1346
34.670	1712	39.577	1211		27.522	1327		38.250	1004
35.513	1045	39.982	1215		28.272	17391		38.475	1537
36.142	1044	40.082	1124		28.812	3723		38.805	1784
36.251	1057	40.849	1198		33.375	63560		38.854	1509
37.823	6714	40.956	1153		35.577	1293		38.932	1588
37.850	5807	41.032	1030		37.357	1418		38.992	1157
37.886	1677	41.566	1014		37.623	1265		39.038	1057
38.446	1328	41.911	1331		37.796	1206		39.074	1450
38.822	1147	41.987	1022		37.847	6481		39.162	2180
38.980	1050	42.039	1068					39.226	1357
39.114	1143	42.282	2171					39.299	1446
39.383	1185	42.343	1116					39.334	1442
39.604	1200	42.481	1116					39.399	2147
39.850	1117	42.573	5815					39.464	1143
39.923	1043	42.619	18242					39.517	1262
40.350	1591	42.894	1283					39.571	1216
40.507	1150	42.977	1240					39.627	1117
40.539	1084	43.112	1514					39.692	1321
42.798	1046	44.838	1090					40.562	1526

Extracted Ion Current Profiles

Hexachlorobiphenyls											
"M3121609"						"M3121609"		"M3121609"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
31.860	1013							28.266	823416	28.266	801486				
32.397	1113							28.484	1098	28.595	1034				
32.486	1057							28.516	1411	31.228	1071				
32.844	1072							31.244	1206	31.398	8604				
32.915	2319							31.395	9290	33.375	11213				
33.217	1198							33.377	14482	37.848	190680				
33.371	857555							37.849	328015	38.312	1941				
33.541	3364							38.123	1440	38.348	1008				
33.644	1089							38.327	2128	38.572	1216				
33.820	6349							38.380	1207	39.112	1093				
33.916	1567							39.046	1073	39.211	1021				
34.186	1092							39.133	1261	39.429	1753				
34.329	1286							39.430	1119	39.495	1378				
34.508	1094							40.275	1123	39.913	1049				
34.557	1031							40.348	1682	40.099	1072				
34.661	1942							40.597	1145	40.141	1081				
34.707	1209							40.751	1179	40.548	1274				
34.982	1136							40.779	1556	40.642	1062				
35.047	1297							40.854	1192	40.863	1905				
35.375	1612							41.322	2839	41.062	1015				
35.462	1174							41.536	1195	41.207	1046				
35.585	1064							41.640	1414	41.522	1212				
35.746	1001							42.574	4508	41.675	1230				
35.839	1105							42.623	13477	41.735	1342				
35.954	1018							42.669	2438	41.857	1183				
35.998	1333							42.811	1376	42.061	1028				
36.034	1026							42.892	1134	42.130	1000				
36.091	1114							43.002	1186	42.234	1247				
36.180	1187							43.112	1030	42.312	1297				
37.385	1101							44.651	1148	43.395	1110				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3121609"		"M3121609"			"M3121609"		"M3121609"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.266	823416	28.266	801486		20.031	414087	20.032	664297	
28.484	1098	28.595	1034		25.890	277576	25.891	450376	
28.516	1411	31.228	1071		26.176	17689	26.173	22827	
31.244	1206	31.398	8604		28.267	304942	28.272	202595	
31.395	9290	33.375	11213		31.397	5268	31.391	3999	
33.377	14482	37.848	190680		33.384	15230	33.365	10923	
37.849	328015	38.312	1941		33.920	3465	33.920	3071	
38.123	1440	38.348	1008		37.844	109233	35.333	1090	
38.327	2128	38.572	1216		38.338	1058	37.598	1039	
38.380	1207	39.112	1093				37.836	20705	
39.046	1073	39.211	1021				37.858	20520	
39.133	1261	39.429	1753						
39.430	1119	39.495	1378						
40.275	1123	39.913	1049						
40.348	1682	40.099	1072						
40.597	1145	40.141	1081						
40.751	1179	40.548	1274						
40.779	1556	40.642	1062						
40.854	1192	40.863	1905						
41.322	2839	41.062	1015						
41.536	1195	41.207	1046						
41.640	1414	41.522	1212						
42.574	4508	41.675	1230						
42.623	13477	41.735	1342						
42.669	2438	41.857	1183						
42.811	1376	42.061	1028						
42.892	1134	42.130	1000						
43.002	1186	42.234	1247						
43.112	1030	42.312	1297						
43.161	1564	42.403	1312						
43.331	1551	42.473	1026						
43.378	1512	42.517	1566						
43.451	1595	42.618	8994						
43.535	1277	42.668	1106						
43.773	1222	42.792	1116						
43.894	1045	42.822	1382						
43.940	1765	42.914	1220						
44.023	1265	43.023	1643						
44.302	1018	43.149	1178						
44.401	1526	43.261	1338						
44.454	1313	43.355	1460						
44.651	1148	43.395	1110						

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3121609"		"M3121609"			"M3121609"		"M3121609"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
32.563	1213	33.295	1061		33.371	762347	31.860	1013			
32.669	1040	33.385	2578		33.535	2184	32.397	1113			
32.779	1108	34.052	1464		33.810	2966	32.486	1057			
33.033	1073	34.127	1485		34.188	1576	32.844	1072			
33.486	1403	34.194	1351		34.677	1217	32.915	2319			
33.619	1484	34.335	1031		36.746	1112	33.217	1198			
33.789	1875	34.503	1149		37.155	1313	33.371	857555			
34.532	1127	34.600	1660		37.570	1231	33.541	3364			
34.609	1354	34.787	1067		37.672	1023	33.644	1089			
34.823	1063	35.064	1106		37.837	10856	33.820	6349			
34.999	1104	35.195	1250		38.193	1346	33.916	1567			
35.134	1073	35.312	1010		38.250	1004	34.186	1092			
35.195	1060	35.504	1107		38.475	1537	34.329	1286			
35.351	1571	35.761	1403		38.805	1784	34.508	1094			
35.775	1006	36.002	1518		38.854	1509	34.557	1031			
35.889	1147	36.067	1497		38.932	1588	34.661	1942			
36.060	1038	36.225	1278		38.992	1157	34.707	1209			
36.155	1556	36.329	1053		39.038	1057	34.982	1136			
36.282	1202	36.370	1115		39.074	1450	35.047	1297			
36.349	1069	36.454	1013		39.162	2180	35.375	1612			
36.414	1535	36.547	1733		39.226	1357	35.462	1174			
36.497	1074	36.655	1410		39.299	1446	35.585	1064			
36.605	1915	36.734	2285		39.334	1442	35.746	1001			
36.683	1348	36.913	1048		39.399	2147	35.839	1105			
36.757	1515	37.003	1354		39.464	1143	35.954	1018			
36.844	1404	37.157	1683		39.517	1262	35.998	1333			
36.970	1102	37.329	1718		39.571	1216	36.034	1026			
37.052	1461	37.445	1408		39.627	1117	36.091	1114			
37.100	1342	37.499	1331		39.692	1321	36.180	1187			
37.170	1225	37.563	1986		39.798	1519	36.464	1677			
37.241	1543	37.846	848522		39.824	1096	36.546	1909			
37.372	1938	37.977	1464		39.896	1893	36.594	1038			
37.533	1512	38.095	2414		39.965	2049	36.645	1466			
37.658	1674	38.190	1157		40.105	1453	36.756	1647			
37.846	1113141	38.272	2282		40.153	2888	36.829	1517			
37.956	3914	38.330	3671		40.242	1375	36.928	1362			
38.039	1839	38.381	1332		40.293	1212	37.085	1126			
38.084	1768	38.448	1920		40.325	1096	37.131	1416			
38.187	1292	38.488	1096		40.372	1267	37.218	1859			
38.311	11152	38.581	1449		40.404	1254	37.273	1785			
38.379	1052	38.624	1357		40.508	1446	37.346	1093			
38.451	1807	38.659	1320		40.562	1526	37.385	1101			

Extracted Ion Current Profiles

Octachlorobiphenyls							
"M3121609"		"M3121609"				"M3121609"	
m/z 430		m/z 428		m/z 356	m/z 358	m/z 360	m/z 462
31.860	1013	33.371	762347			23.417	1047
32.397	1113	33.535	2184			25.729	1457
32.486	1057	33.810	2966			26.182	484828
32.844	1072	34.188	1576			26.375	1167
32.915	2319	34.677	1217			27.492	2634
33.217	1198	36.746	1112			28.265	13718
33.371	857555	37.155	1313			28.300	3913
33.541	3364	37.570	1231			28.821	6046
33.644	1089	37.672	1023			29.205	2099
33.820	6349	37.837	10856			33.371	232323
33.916	1567	38.193	1346			33.806	1562
34.186	1092	38.250	1004			34.670	1712
34.329	1286	38.475	1537			35.513	1045
34.508	1094	38.805	1784			36.142	1044
34.557	1031	38.854	1509			36.251	1057
34.661	1942	38.932	1588			37.823	6714
34.707	1209	38.992	1157			37.850	5807
34.982	1136	39.038	1057			37.886	1677
35.047	1297	39.074	1450			38.446	1328
35.375	1612	39.162	2180			38.822	1147
35.462	1174	39.226	1357			38.980	1050
35.585	1064	39.299	1446			39.114	1143
35.746	1001	39.334	1442			39.383	1185
35.839	1105	39.399	2147			39.604	1200
35.954	1018	39.464	1143			39.850	1117
35.998	1333	39.517	1262			39.923	1043
36.034	1026	39.571	1216			40.350	1591
36.091	1114	39.627	1117			40.507	1150
36.180	1187	39.692	1321			40.539	1084
36.464	1677	39.798	1519			40.720	1240
36.546	1909	39.824	1096			41.080	1095
36.594	1038	39.896	1893			41.138	1238
36.645	1466	39.965	2049			41.181	1089
36.756	1647	40.105	1453			41.548	1212
36.829	1517	40.153	2888			41.846	1624
36.928	1362	40.242	1375			42.142	1005
37.085	1126	40.293	1212			42.208	1335
37.131	1416	40.325	1096			42.321	1450
37.218	1859	40.372	1267			42.406	1015
37.273	1785	40.404	1254			42.460	1408
37.346	1093	40.508	1446			42.625	78752
37.385	1101	40.562	1526			42.798	1046

Octachlorobiphenyls				
"M3121609"		"M3121609"		
m/z 464		m/z 466		m/z 425
32.563	1213	33.295	1061	
32.669	1040	33.385	2578	
32.779	1108	34.052	1464	
33.033	1073	34.127	1485	
33.486	1403	34.194	1351	
33.619	1484	34.335	1031	
33.789	1875	34.503	1149	
34.532	1127	34.600	1660	
34.609	1354	34.787	1067	
34.823	1063	35.064	1106	
34.999	1104	35.195	1250	
35.134	1073	35.312	1010	
35.195	1060	35.504	1107	
35.351	1571	35.761	1403	
35.775	1006	36.002	1518	
35.889	1147	36.067	1497	
36.060	1038	36.225	1278	
36.155	1556	36.329	1053	
36.282	1202	36.370	1115	
36.349	1069	36.454	1013	
36.414	1535	36.547	1733	
36.497	1074	36.655	1410	
36.605	1915	36.734	2285	
36.683	1348	36.913	1048	
36.757	1515	37.003	1354	
36.844	1404	37.157	1683	
36.970	1102	37.329	1718	
37.052	1461	37.445	1408	
37.100	1342	37.499	1331	
37.170	1225	37.563	1986	
37.241	1543	37.846	848522	
37.372	1938	37.977	1464	
37.533	1512	38.095	2414	
37.658	1674	38.190	1157	
37.846	1113141	38.272	2282	
37.956	3914	38.330	3671	
38.039	1839	38.381	1332	
38.084	1768	38.448	1920	
38.187	1292	38.488	1096	
38.311	11152	38.581	1449	
38.379	1052	38.624	1357	
38.451	1807	38.659	1320	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3121609"		"M3121609"				"M3121609"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
32.563	1213	33.295	1061			28.266	823416
32.669	1040	33.385	2578			28.484	1098
32.779	1108	34.052	1464			28.516	1411
33.033	1073	34.127	1485			31.244	1206
33.486	1403	34.194	1351			31.395	9290
33.619	1484	34.335	1031			33.377	14482
33.789	1875	34.503	1149			37.849	328015
34.532	1127	34.600	1660			38.123	1440
34.609	1354	34.787	1067			38.327	2128
34.823	1063	35.064	1106			38.380	1207
34.999	1104	35.195	1250			39.046	1073
35.134	1073	35.312	1010			39.133	1261
35.195	1060	35.504	1107			39.430	1119
35.351	1571	35.761	1403			40.275	1123
35.775	1006	36.002	1518			40.348	1682
35.889	1147	36.067	1497			40.597	1145
36.060	1038	36.225	1278			40.751	1179
36.155	1556	36.329	1053			40.779	1556
36.282	1202	36.370	1115			40.854	1192
36.349	1069	36.454	1013			41.322	2839
36.414	1535	36.547	1733			41.536	1195
36.497	1074	36.655	1410			41.640	1414
36.605	1915	36.734	2285			42.574	4508
36.683	1348	36.913	1048			42.623	13477
36.757	1515	37.003	1354			42.669	2438
36.844	1404	37.157	1683			42.811	1376
36.970	1102	37.329	1718			42.892	1134
37.052	1461	37.445	1408			43.002	1186
37.100	1342	37.499	1331			43.112	1030
37.170	1225	37.563	1986			43.161	1564
37.241	1543	37.846	848522			43.331	1551
37.372	1938	37.977	1464			43.378	1512
37.533	1512	38.095	2414			43.451	1595
37.658	1674	38.190	1157			43.535	1277
37.846	1113141	38.272	2282			43.773	1222
37.956	3914	38.330	3671			43.894	1045
38.039	1839	38.381	1332			43.940	1765
38.084	1768	38.448	1920			44.023	1265
38.187	1292	38.488	1096			44.302	1018
38.311	11152	38.581	1449			44.401	1526
38.379	1052	38.624	1357			44.454	1313
38.451	1807	38.659	1320			44.651	1148

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3121609"		"M3121609"				"M3121609"		"M3121609"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
37.043	1144	37.825	1154					33.371	762347	31.860	1013
37.379	1081	38.552	1045					33.535	2184	32.397	1113
37.491	1024	38.689	1114					33.810	2966	32.486	1057
37.671	1178	39.320	1241					34.188	1576	32.844	1072
37.863	1026	39.393	1212					34.677	1217	32.915	2319
38.371	1170	39.619	1088					36.746	1112	33.217	1198
38.489	1023	39.974	1103					37.155	1313	33.371	857555
38.644	2034	40.084	1273					37.570	1231	33.541	3364
38.812	1205	40.159	1390					37.672	1023	33.644	1089
38.952	1346	40.370	1710					37.837	10856	33.820	6349
39.077	1250	40.439	1006					38.193	1346	33.916	1567
39.201	1442	40.543	1520					38.250	1004	34.186	1092
39.321	1200	40.678	2082					38.475	1537	34.329	1286
39.466	1498	40.893	1370					38.805	1784	34.508	1094
39.605	1632	41.141	1392					38.854	1509	34.557	1031
39.681	1071	41.236	1089					38.932	1588	34.661	1942
39.720	1127	41.325	1101					38.992	1157	34.707	1209
39.833	1288	41.400	1576					39.038	1057	34.982	1136
39.874	1316	41.455	1003					39.074	1450	35.047	1297
39.939	1226	41.551	1054					39.162	2180	35.375	1612
40.170	1098	41.598	1555					39.226	1357	35.462	1174
40.335	1331	41.660	1124					39.299	1446	35.585	1064
40.472	1186	41.819	1224					39.334	1442	35.746	1001
40.661	1108	41.884	1284					39.399	2147	35.839	1105
40.738	1145	41.986	1280					39.464	1143	35.954	1018
40.845	1040	42.045	1242					39.517	1262	35.998	1333
40.913	1810	42.117	2249					39.571	1216	36.034	1026
41.067	2112	42.285	1112					39.627	1117	36.091	1114
41.112	1107	42.343	1561					39.692	1321	36.180	1187
41.243	1282	42.425	1157					39.798	1519	36.464	1677
41.310	2012	42.483	1113					39.824	1096	36.546	1909
41.603	1728	42.623	1262480					39.896	1893	36.594	1038
41.652	1356	42.734	1248					39.965	2049	36.645	1466
41.767	2934	42.758	1004					40.105	1453	36.756	1647
41.855	1187	42.806	1324					40.153	2888	36.829	1517
41.927	1507	42.916	1425					40.242	1375	36.928	1362
41.967	1839	42.982	1803					40.293	1212	37.085	1126
42.108	1513	43.025	2040					40.325	1096	37.131	1416
42.142	1118	43.112	1510					40.372	1267	37.218	1859
42.193	1139	43.152	1113					40.404	1254	37.273	1785
42.249	1758	43.201	1231					40.508	1446	37.346	1093
42.330	1057	43.251	1588					40.562	1526	37.385	1101

42.409	1223	43.312	1353
42.459	1641	43.402	1529
42.623	1423966	43.457	1686
42.775	1898	43.513	1607
42.847	1097	43.579	1764
42.900	1175	43.678	1846
42.925	1289	43.728	1114
42.968	1227	43.786	2206
43.026	1156	43.916	1213
43.067	1304	43.971	2357
43.134	1572	44.076	1757

40.636	2830	37.465	1395
40.694	1324	37.532	1804
40.757	2553	37.590	1906
40.806	1312	37.653	1026
40.874	1327	37.722	1283
40.934	1507	37.775	1128
40.988	1242	37.828	5052
41.025	1162	37.853	7148
41.097	2014	37.939	1849
41.153	1195	38.012	1389
41.237	1494	38.065	1033

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3121609"		"M3121609"				"M3121609"		"M3121609"			"M3121609"		"M3121609"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.940	57775	11.940	45684	424	240	17.464	1129	11.942	3570	188	9.546	354398	9.544	50555
32.014	3669	28.282	3164	426	241	28.252	2669	17.455	3357	189	13.421	9940	13.421	10717
34.409	1051	33.382	1453	428		28.273	1775	28.265	4914		15.773	235517	15.771	37665
35.765	1161	34.231	7605	430		28.303	1314	32.363	1178		16.150	2590	16.155	1041
36.019	1101	34.902	1092	498		33.353	1023	32.941	1496		17.009	49680	17.009	8140
36.197	1047	37.123	1232	500		33.380	2872	33.377	8878		17.439	1747	26.765	1892
36.794	1061	37.203	1033			34.229	252923	33.427	1529		17.475	1329	26.942	1079
37.436	1168	37.409	1089			34.528	1550	33.928	1018		20.964	1531	27.160	1251
37.792	1208	37.615	1088			34.580	1331	34.001	1007		21.601	1292	27.201	1305
37.983	1083	37.820	2306			34.678	1375	34.221	53266		27.187	1317		
38.088	1837	38.173	1129			35.366	1202	34.373	1527		27.210	1090		
38.409	1232					35.794	1057	34.735	1114					
						35.917	1048	34.769	1183					
						36.433	1203	34.850	1106					
						37.819	1398	34.969	1009					
						37.859	3885	35.060	1125					
						38.047	1028	35.121	1305					
						38.099	1121	35.270	1142					
						38.402	1092	35.310	1210					
								35.528	1185					
								35.574	1344					
								35.984	1347					
								36.028	1277					
								36.140	1116					
								36.282	1597					
								36.354	1371					
								36.400	1163					
								36.427	1040					
								36.470	1138					
								36.533	2082					
								36.655	1287					
								36.919	1447					
								36.973	1027					
								37.047	1113					
								37.096	1391					
								37.126	1155					
								37.188	1537					
								37.251	2147					
								37.316	1042					
								37.375	1160					
								37.463	1075					

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	37.275	1096	37.850	1482
512	37.867	1404	38.700	1088
	38.668	1221	39.202	1076
	38.730	1466	39.517	1378
	39.048	1177	40.344	1666
	39.368	1025	40.416	1286
	39.499	1522	40.751	1432
	39.574	1560	40.872	1165
	39.676	1658	41.015	1944
	39.797	1057	41.300	1164
	39.822	1051	41.374	1032
	39.900	1224	41.432	1413
	39.939	1472	41.818	1285
	40.135	1331	41.866	1021
	40.326	1204	41.930	1346
	40.588	1041	41.996	1241
	40.637	1083	42.044	1023
	40.859	1367	42.088	1077
	40.899	1555	42.146	1158
	40.999	1376	42.214	1324
	41.051	1186	42.385	1798
	41.087	1335	42.432	1009
	41.158	1556	42.610	1269874
	41.236	1124	42.722	1303
	41.283	1114	42.784	1698
	41.374	1861	42.806	1219
	41.480	1475	42.874	1156
	41.526	1107	42.917	1310
	41.576	1400	43.068	1646
	41.638	1392	43.118	2454
	41.709	1709	43.223	1633
	41.811	1110	43.286	1441
	41.837	1151	43.349	1620
	41.906	1289	43.405	1100
	42.068	1407	43.599	1135
	42.121	1633	43.659	1700
	42.215	1882	43.702	1328
	42.332	1058	43.769	1493
	42.402	1835	43.863	1783
	42.611	1522759	43.934	2059
	42.719	1647	44.115	1067

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QC Sample Raw Data

Quality Control Results
Method Blank

Job Number: 11120177

NEA Laboratory, Division of Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: PACE ANALYTICAL SERVICES INC.
Project: VERIFICATION PUF
Client Sample ID: Method Blank (AO29244B)
Lab Sample ID: SBLK-25

Collection Date: N/A
Sample Matrix: POLYURETHANE FOAM
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-309-4	PCBs by EPA Method TO-4A/680	12/16/2011 13:16	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16730	EPA 3540C	12/15/2011 17:50	CAP	0.00m³	1.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00500	1.00	U	MS03-309-4
Dichlorobiphenyl	25512-42-9	ND	0.00500	1.00	U	MS03-309-4
Trichlorobiphenyl	25323-68-6	ND	0.00500	1.00	U	MS03-309-4
Tetrachlorobiphenyl	26914-33-0	ND	0.0100	1.00	U	MS03-309-4
Pentachlorobiphenyl	25429-29-2	ND	0.0100	1.00	U	MS03-309-4
Hexachlorobiphenyl	26601-64-9	ND	0.0100	1.00	U	MS03-309-4
Heptachlorobiphenyl	28655-71-2	ND	0.0150	1.00	U	MS03-309-4
Octachlorobiphenyl	55722-26-4	ND	0.0150	1.00	U	MS03-309-4
Nonachlorobiphenyl	53742-07-7	ND	0.0250	1.00	U	MS03-309-4
Decachlorobiphenyl	2051-24-3	ND	0.0250	1.00	U	MS03-309-4
Total PCB	1336-36-3	ND		1.00	U	MS03-309-4

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	59.3	42.5-134		MS03-309-4
Tetrachloro-meta-xylene	877-09-8	51.7	17.9-137		MS03-309-4

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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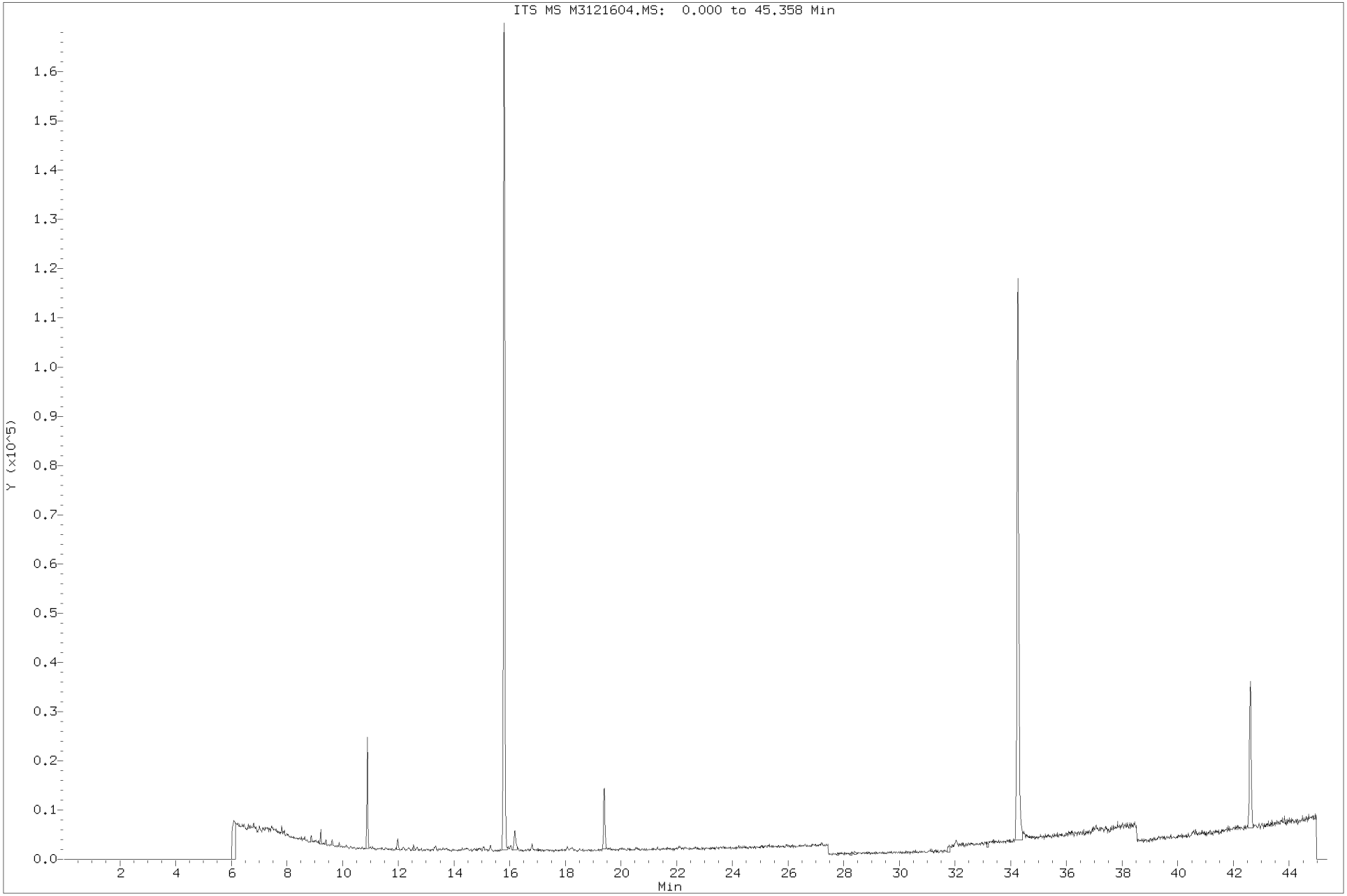
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com | Email: information@nealab.com

Data File: \\APOLLO\GCMS\TP11\GCMS03\121611-680.b\M3121604.d/M3121604.MS
Injection Date: 16-DEC-2011 13:16
Instrument: GCMS03.i
Client Sample ID: AO29244BLANK



Form 1
PCB Homolog Report

Northeast Analytical Inc.

		SDG No.:	11120177
ELAP ID No.:	11078	Client ID:	Method Blank
Matrix:	TO-4A PUF	Lab Sample ID:	AO29244B
Sample weight:	NA	Date Received:	N/A
% Moisture	0 %	Date Extracted:	12/15/2011
Method:	EPA 680 (GC/MS)	Date Analyzed:	12/16/2011
Dilution Factor:	1	Time Analyzed:	13:16

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls								
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Mono Total:		0.00500	0.00500	ND	

Dichlorobiphenyls								
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Di Total:		0.00500	0.00500	ND	

Trichlorobiphenyls								
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Tri Total:		0.00500	0.00500	ND	

Tetrachlorobiphenyls								
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Tetra Total:		0.0100	0.0100	ND	

Pentachlorobiphenyls								
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Penta Total:		0.0100	0.0100	ND	

Hexachlorobiphenyls								
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Hexa Total:		0.0100	0.0100	ND	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Hepta Total:		0.0150	0.0150	ND	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Octa Total:		0.0150	0.0150	ND	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Deca Total:		0.0250	0.0250	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.964	760	11.965	540	1.4	0.2041		0.0103	
				TCMX Total:			0.0103	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT m/z 510	Quant Ion Area	Confirm Ion RT m/z 512	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor		Solution Concentration ug/mL	Flag
42.607	21735	42.609	16901	1.3	1.0171		0.0593	
				Deca Total:			0.0593	

TCMX Recovery %	51.7 %
Deca Recovery	59.3 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT m/z 240	Quant Ion Area	Confirm Ion RT m/z 241	Confirm Ion Area	Ratio 4.3 - 5.9	Response Factor		Solution Concentration ug/mL	Flag
34.252	288357	34.247	57066	5.1	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Monochlorobiphenyls							
"M3121604"		"M3121604"		"M3121604"		"M3121604"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.798	282857	15.800	4094				
16.180	2657						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3121604"		"M3121604"		"M3121604"		"M3121604"		"M3121604"		"M3121604"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
								15.799	28989	15.798	282857
								16.189	2365	16.180	2657

Dichlorobiphenyls					
"M3121604"		"M3121604"		"M3121604"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
				6.114	2160
				6.165	1120
				6.225	1216
				6.458	1245
				6.530	1743
				6.639	1114
				6.761	1033
				6.811	1034
				6.867	1099
				7.019	1684
				7.110	1060
				7.228	1229
				7.361	1207
				8.644	1325
				9.215	1230

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3121604"		"M3121604"		"M3121604"		"M3121604"		"M3121604"		"M3121604"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				15.799	28989	15.798	282857				
				16.189	2365	16.180	2657				

Extracted Ion Current Profiles

Tetrachlorobiphenyls					
"M3121604"	"M3121604"	"M3121604"	"M3121604"	"M3121604"	"M3121604"
m/z 292	m/z 290	m/z 220	m/z 222	m/z 360	m/z 362

9.213 1446

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3121604"		"M3121604"				"M3121604"		"M3121604"			"M3121604"		"M3121604"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.964	760	11.965	540	424	240	34.252	288357	34.247	57066	188	15.798	282857	15.799	44676
16.244	320	34.251	6139	426	241					189	16.180	2657		
32.036	2788			428										
				430										
				498										
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.607	21735	42.547	400
512	42.829	253	42.609	16901(M)
			42.671	610

Pace Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: VERIFICATION PUF
Sampling Date(s): December 19, 2011
Lab Report ID: 11120209
Client Service Contact: Carrie Barss (518) 346-4592 ext. 36

Analysis Included:
PCBs by GCMS

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report.This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Robert E. Wagner
Laboratory Director

Certifications: NYS (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

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Case Narrative

January 24, 2012

CASE NARRATIVE

This data package (SDG ID: 11120209) consists of 2 polyurethane foam samples generated by Pace Analytical Services, Inc. on 12/19/2011 for PCB analysis.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AO29474	VER PUF LOT #121911-2	12/19/2011
AO29475	VER PUF LOT #121911-3	12/19/2011

Sample Delivery and Receipt Conditions

(1.) Not applicable, samples generated by the laboratory.

PCB Homolog Analysis (TO-4A)

Analysis for PCB Homolog Distribution was performed by EPA Method 680. Samples were extracted by Soxhlet Extraction Method (EPA - Method 3540C). The following technical and administrative items were noted for the analysis:

(1.) The Decachloro[13C12]biphenyl surrogate ion ratio was above quality acceptance limits for sample (LAB ID: AO29474). The alternate TCMX surrogate ion ratio was within limits. Please see associated Form 1 for details.

Qualifier Summary

(1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.

(2.) J-Denotes concentration result greater than the MDL but less than the RL.

(3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,

William A. Kotas
Client Services Manager

S:\Lims Data\1112\11120209\Package\CN_11120209_Rev00.doc

Sample Chain Of Custody

CHAIN OF CUSTODY RECORD

NORTHEAST ANALYTICAL, INC.
2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.nealab.com information @nealab.com

LRF # <11120209P1> 111202091 11120209

DISPOSAL REQUIREMENTS: (To be filled in by Client)
- ○ RETURN TO CLIENT
- ● DISPOSAL BY NORTHEAST ANALYTICAL
- ○ ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO): NEA-PACE

PROJECT#/PROJECT NAME: 11120209

LOCATION (CITY/STATE) ADDRESS:

PROJECT MANAGER: Carrie Barss

SAMPLED BY: (Please Print)

REQUIRED TURN AROUND TIME: 12/19/2011

SAMPLING FIRM:

NAME OF COURIER (IF USED):

ELECTRONIC RESULTS

FAXED RESULTS FAX #:

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE CODE:
BOTTLE TYPE:
BOTTLE SIZE:

PRESERVATIVE KEY
0 - ICE
1 - HCL
2 - HNO3
3 - H2SO4
4 - NaOH
5 - Zn. Acetate
6 - MeOH
7 - NaHSO4
8 - Other (Na2SO3)

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (NEA USE ONLY)	NUMBER OF CONTAINERS	PCBs by GCMS							REMARKS:
VER PUF LOT #121911-2	12/19/11		PF4	GRAB	AO29474	1	X							
VER PUF LOT #121911-3	12/19/11		PF4	GRAB	AO29475	1	X							

AMBIENT OR CHILLED: TEMP: COC TAPE: Y N PROPERLY PRESERVED: Y N OTHER NOTES:

RECEIVED BROKEN OR LEAKING: Y N COC DISCREPANCIES: Y N RECVD W/I HOLDING TIMES: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME
COMPANY	COMPANY	COMPANY	COMPANY	COMPANY	COMPANY
DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

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Internal Sample Tracking Record

EXTRACTION LOG

Prep Date: 12/20/11 **Batch ID: 16767**

	Prep ID	LAB Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Final Ext. Vol (mL)	Date Conc (MM/DD)	Comments
1	160630	SBLK-37	AO29474B	Solvent		E 680 A	SOX	N/A	1	15:15	08:00	NA	NA	1	12/21	N/A
2	160628	11120209-01	AO29474	PF4		E 680 A	SOX	N/A	1	15:15	08:00	NA	NA	1	12/21	Lot: 121911-2(11120209)
3	160629	11120209-02	AO29475	PF4		E 680 A	SOX	N/A	1	15:15	08:00	NA	NA	1	12/21	Lot: 121911-3(11120209)

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	E49039	NA		b	..	..	b	..	..	..
TCMX	031411P89A BX	100	0.20	b	..	..	b	..	..	..
Mercury (CURRENT)	062111Hg	NA		b	..	..	b	..	..	..
10% Florisil (Water Lab) CURRENT	071211F	NA		b	..	..	b	..	..	..
DCBP-C13	092111P118A BX	100	1.0	b	..	..	b	..	..	..
Hexane (Dewar)	DF196	NA		b	..	..	b	..	..	..
Ethyl Ether	DE879	NA		b	..	..	b	..	..	..

Analyst Review: Jillian L Grygas
Jill Grygas

Peer Review: Kelly Sableski
Kelly Sableski

Print Date: 1/24/2012
Lims Version : 5.0.6.1
_EXT - LOGBOOK_GCMS-SV; Rev 03; 1.18.2010; EXTRACTION

NORTHEAST ANALYTICAL, INC. GCMS 03 INJECTION LOG

TARGET QUANT. FILE: EPA680- 081611.b

	Method #	NEA Sample ID	Saturn File ID	Date Analyzed	Time Inj.	DIL	COMMENTS
1	dftp	DFTPP-1	M3081601	8-16-11	1026		
2	EPA680	WDM3-0816A	02		1055		
3		iCAL-7	03		1144		
4		iCAL-6	04		1233		
5		iCAL-5	05		1322		
6		iCAL-4	06		1411		
7		iCAL-3	07		1501		
8		iCAL-2	08		1550		
9		iCAL-1	09		1639		
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

8-16-11

CAL STD:	081611P113B BI	CCC STD:	081511P112B BI	WDM STD:	062811P105A BI
Tune STD:	081511P111B BI	Internal STD:	081511P113A BI		

STANDARD CODES REFER TO STANDARD PREP BOOK

BOOK: 22
PAGE: 73

S:\LOGBOOKS\SVOA\SVLOG-GCMS03.xls, rev. 00, 3/3/06, SVOA

Signal/Noise Report

Date : 18-Aug-2011 08:09
Data File : ITS MS M3081609.MS, Ion 241.00
Inj. Date : 16-AUG-2011 16:39

RMS Noise : 17.2394
RMS Noise time window: 32.140 to 34.140 min.
Number of peaks: 1

Time	Start Time	End Time	Area	Area%	Height	Height%	Peak Type	S/N
34.342	34.208	34.477	67235	100.00	15702	100.00	**	910.8

Signal/Noise Report

Date : 18-Aug-2011 08:10
Data File : ITS MS M3081609.MS, Ion 499.00
Inj. Date : 16-AUG-2011 16:39

RMS Noise : 5.70408
RMS Noise time window: 40.540 to 42.540 min.
Number of peaks: 1

Time	Start Time	End Time	Area	Area%	Height	Height%	Peak Type	S/N
42.741	42.643	42.804	1899	100.00	527	100.00	**	92.4

NORTHEAST ANALYTICAL, INC. GCMS 03 INJECTION LOG

TARGET QUANT. FILE: 122211-680.b

	Method #	NEA Sample ID	Saturn File ID	Date Analyzed	Time Inj.	DIL	COMMENTS
1	dftpp	DFTPP-1	M3122201	12-22-11	1150		
2	EPA680	WDM3-1222A	02		1216		
3		CCV3-1222A	03		1306		
4		A029474B	04		1355		
5		A029474	05		1444		
6		A029475	06		1533		
7		CCV3-1222B	07		1622		
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

12-22-11

CAL STD:	081611P113B BX	CCC STD:	081511P112B BX	WDM STD:	092611P121C BX
Tune STD:	081511P111B BX	Internal STD:	081511P113A BX		

STANDARD CODES REFER TO STANDARD PREP BOOK

BOOK: 22
PAGE: 94

S:\LOGBOOKS\SVOA\SVLOG-GCMS03.xls, rev. 00, 3/3/06, SVOA

Surrogate % Recovery Summary

2D-1
680 SURROGATE RECOVERY

Laboratory Name: Pace Analytical Services, Inc. SDG: 11120209

ELAP ID No: 11078

GC Column (1): Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): NA

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
SBLK-37	AO29474B	MS03-310-4	50.2	62.8			0
11120209-01	AO29474	MS03-310-5	61.9	67.0			0
11120209-02	AO29475	MS03-310-6	64.7	71.3			0

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

	Advisory QC Limits.
SURR1 = TETRACHLORO-META-XYLENE	(17.9-137)
SURR2 = DECACHLORO[13C12]BIPHENYL	(42.5-134)

Form II-CLP-680(NEA-PACE)

Print Date: 1/24/2012
Lims Version : 5.0.6.1

Method Blank Summary

FORM 4
EPA 680 METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	11120209
ELAP ID No:	11078	Blank Sample ID:	SBLK-37
Matrix:	Solvent	Method Blank Nea ID No:	AO29474B
Instrument ID:	MS03	Lab File ID:	MS03-310-4
Extraction Type:	Soxhlet Method (3540C)	Date Extracted:	12/20/2011
GC Column (1):	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	12/21/2011
		Time Analyzed:	13:55:00

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
VER PUF LOT #121911-2	AO29474	MS03-310-5	12/21/2011 14:44:00
VER PUF LOT #121911-3	AO29475	MS03-310-6	12/21/2011 15:33:00

Instrument Performance Check

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE ANALYTICAL - NY LAB Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: EPA680-081611.B

Lab File ID: M3081601 DFTPP Injection Date: 08/16/11

Instrument ID: GCMS03 DFTPP Injection Time: 1026

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
127	40.0 - 60.0% of mass 198	50.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.1
275	10.0 - 30.0% of mass 198	15.8
365	Greater than 1.0% of mass 198	4.72
441	Present, but less than mass 443	14.1
442	40.0 - 110.0% of mass 198	88.8
443	17.0 - 23.0% of mass 442	20.0 (22.5)1

1-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WDM3-0816A	WDM3-0816A	M3081602	08/16/11	1055
02	ICAL-7	ICAL-7	M3081603	08/16/11	1144
03	ICAL-6	ICAL-6	M3081604	08/16/11	1233
04	ICAL-5	ICAL-5	M3081605	08/16/11	1322
05	ICAL-4	ICAL-4	M3081606	08/16/11	1411
06	ICAL-3	ICAL-3	M3081607	08/16/11	1501
07	ICAL-2	ICAL-2	M3081608	08/16/11	1550
08	ICAL-1	ICAL-1	M3081609	08/16/11	1639
09					
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21					
22					

page 1 of 1

FORM V SV

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081601.d Page 1

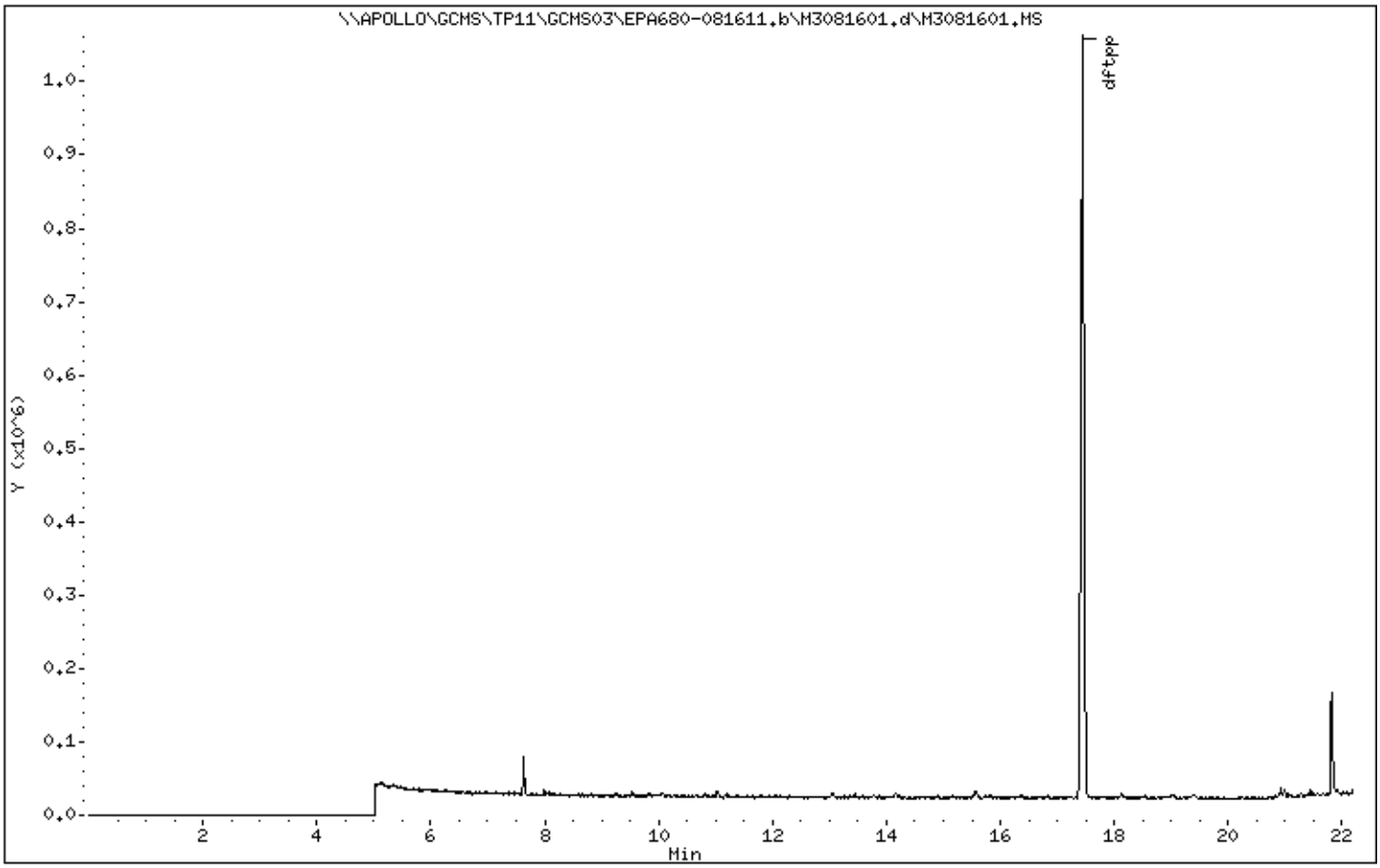
Date : 16-AUG-2011 10:26

Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25



Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081601.d

Date : 16-AUG-2011 10:26

Client ID: 20ng DFTPP-1

Instrument: GCMS03.i

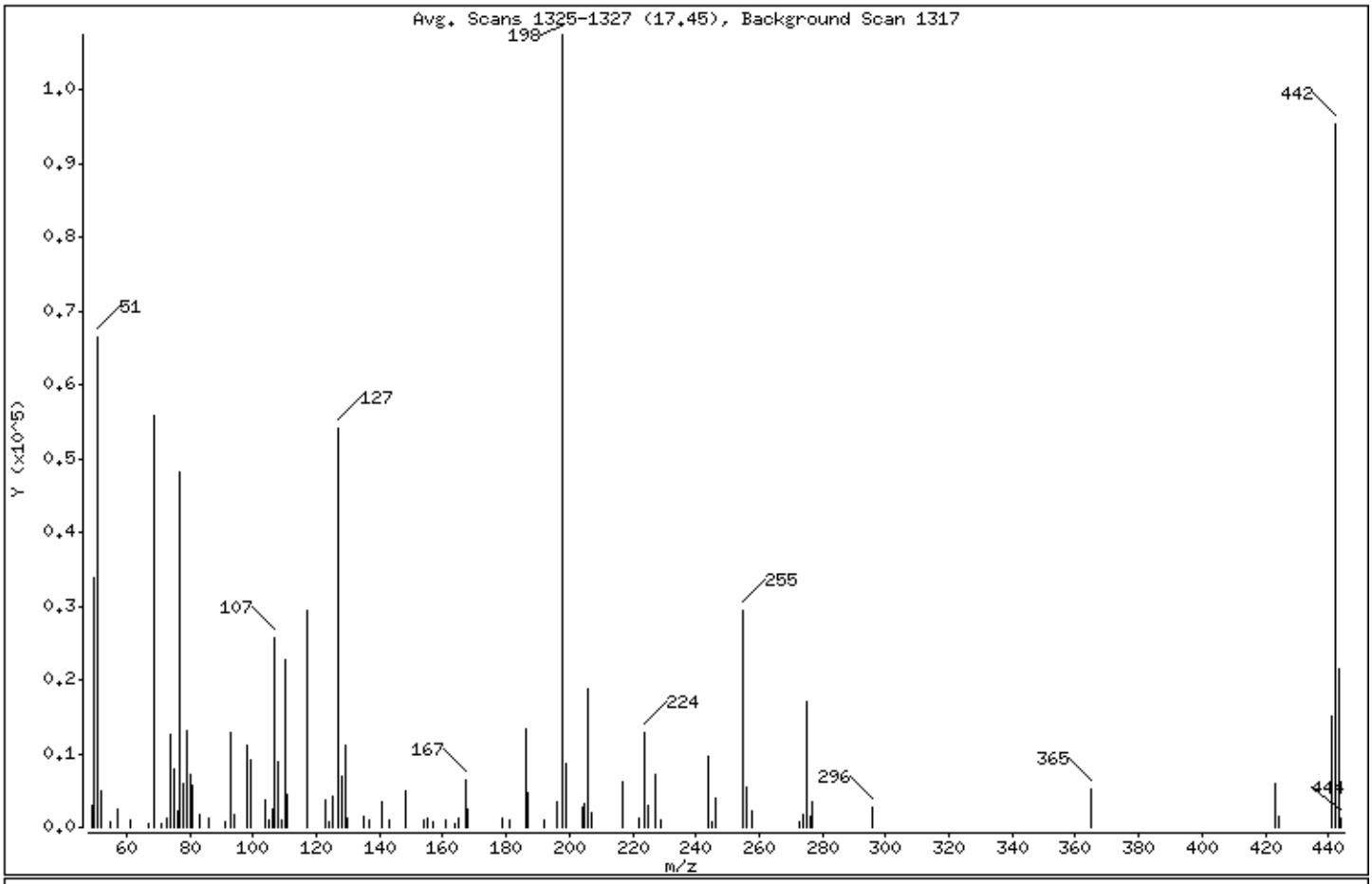
Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
127	40.00 - 60.00% of mass 198	50.23
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	8.14
275	10.00 - 30.00% of mass 198	15.77
365	Greater than 1.00% of mass 198	4.72
441	Present, but less than mass 443	14.05
442	40.00 - 110.00% of mass 198	88.85
443	17.00 - 23.00% of mass 442	19.97 (22.48)

Date : 16-AUG-2011 10:26

Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25

Data File: M3081601.d
Spectrum: Avg. Scans 1325-1327 (17.45), Background Scan 1317
Location of Maximum: 198.00
Number of points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
49.00	2888	98.00	10998	155.00	1229	229.00	980
50.00	33816	99.00	9120	157.00	857	244.00	9573
51.00	66480	104.00	3732	161.00	925	245.00	788
52.00	4928	105.00	921	164.00	563	246.00	3845
55.00	693	106.00	2397	165.00	1170	255.00	29472
57.00	2562	107.00	25776	167.00	6350	256.00	5390
61.00	881	108.00	8900	168.00	2558	258.00	2307
67.00	517	109.00	999	179.00	1225	273.00	735
69.00	55880	110.00	22800	181.00	900	274.00	1775
71.00	456	111.00	4517	186.00	13334	275.00	16944
73.00	1201	117.00	29320	187.00	4634	276.00	1470
74.00	12667	123.00	3794	192.00	1102	277.00	3393
75.00	7914	124.00	793	196.00	3434	296.00	2821
76.00	2333	125.00	4189	198.00	107472	365.00	5074
77.00	48280	127.00	53984	199.00	8744	423.00	5988
78.00	5970	128.00	6909	204.00	2699	424.00	1366
79.00	13006	129.00	11121	205.00	3167	441.00	15104
80.00	7098	130.00	1126	206.00	18696	442.00	95488
81.00	5773	135.00	1568	207.00	2090	443.00	21464
83.00	1794	137.00	1092	217.00	6142	444.00	1229
86.00	1272	141.00	3533	222.00	1348		
91.00	724	143.00	980	224.00	12766		
93.00	12731	148.00	4863	225.00	2914		
94.00	1720	154.00	1102	227.00	7270		

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE ANALYTICAL - NY LAB Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 11120209NEA

Lab File ID: M3122101 DFTPP Injection Date: 12/21/11

Instrument ID: GCMS03 DFTPP Injection Time: 1150

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
127	40.0 - 60.0% of mass 198	44.1
197	Less than 1.0% of mass 198	1.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.9
275	10.0 - 30.0% of mass 198	14.5
365	Greater than 1.0% of mass 198	6.21
441	Present, but less than mass 443	12.6
442	40.0 - 110.0% of mass 198	57.9
443	17.0 - 23.0% of mass 442	12.9 (22.2)1

1-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WDM3-1221A	WDM3-1221A	M3122102	12/21/11	1216
02	CCV3-1221A	CCV3-1221A	M3122103	12/21/11	1306
03	AO29474BLANK	AO29474B	M3122104	12/21/11	1355
04	VERPUFLOT#12	AO29474	M3122105	12/21/11	1444
05	VERPUFLOT#12	AO29475	M3122106	12/21/11	1533
06	CCV3-1221B	CCV3-1221B	M3122107	12/21/11	1622
07					
08					
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15					
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17					
18					
19					
20					
21					
22					

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FORM V SV

Data File: \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\M3122101.d Page 1

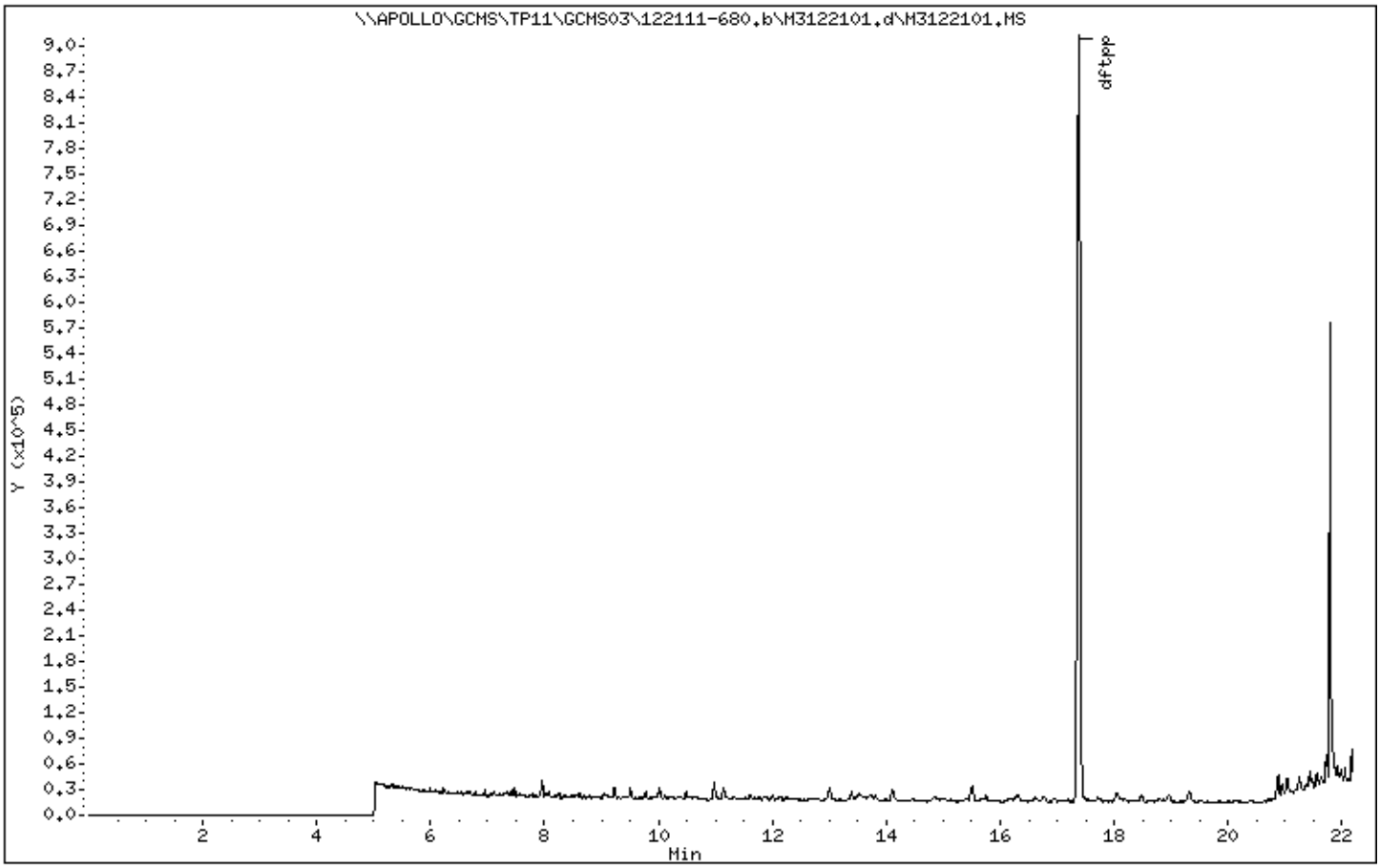
Date : 21-DEC-2011 11:50

Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25



Data File: \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\M3122101.d

Date : 21-DEC-2011 11:50

Client ID: 20ng DFTPP-1

Instrument: GCMS03.i

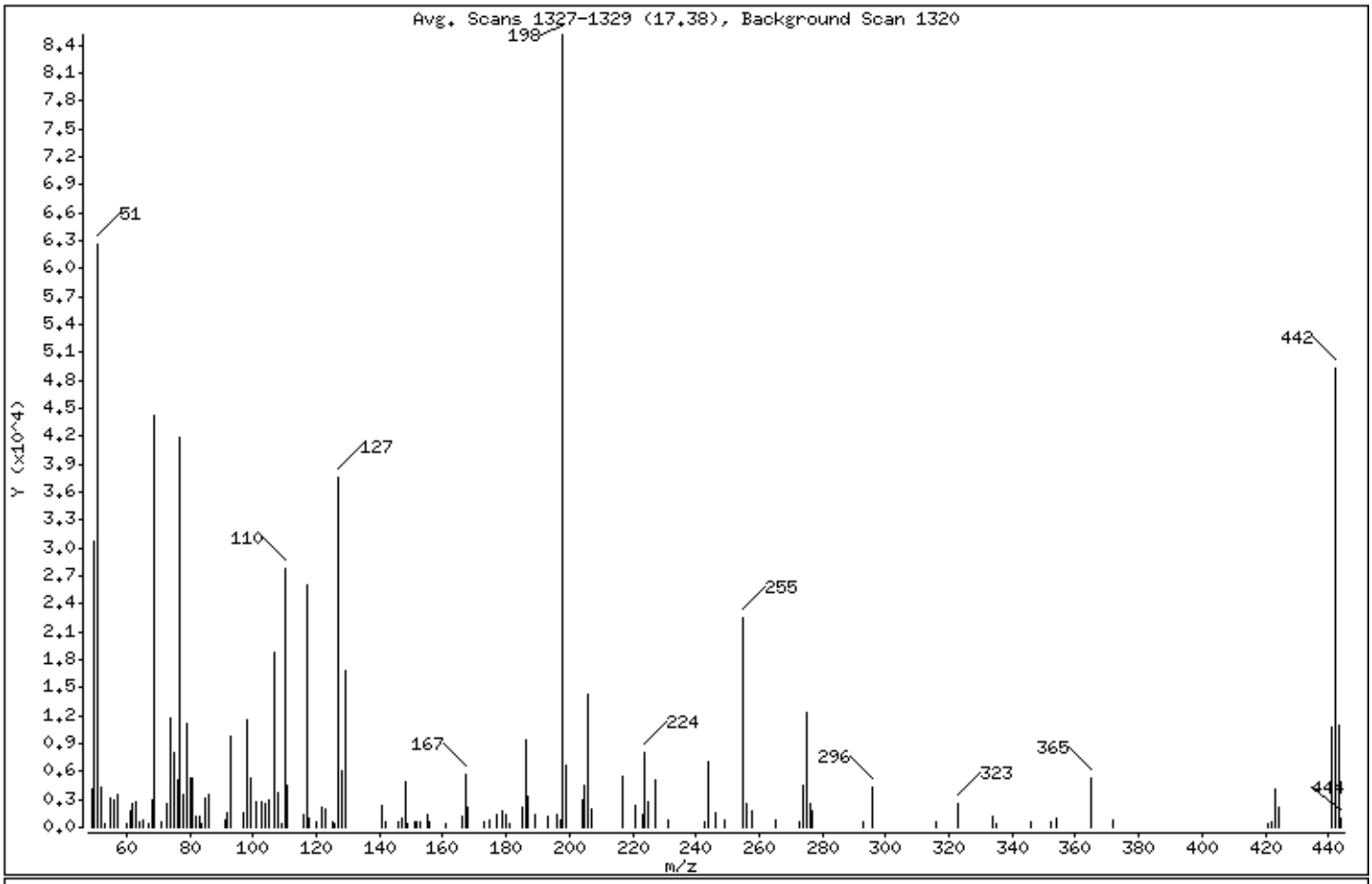
Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
127	40.00 - 60.00% of mass 198	44.07
197	Less than 1.00% of mass 198	0.96
199	5.00 - 9.00% of mass 198	7.86
275	10.00 - 30.00% of mass 198	14.51
365	Greater than 1.00% of mass 198	6.21
441	Present, but less than mass 443	12.65
442	40.00 - 110.00% of mass 198	57.89
443	17.00 - 23.00% of mass 442	12.85 (22.20)

Date : 21-DEC-2011 11:50

Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25

Data File: M3122101.d
Spectrum: Avg. Scans 1327-1329 (17.38), Background Scan 1320
Location of Maximum: 198.00
Number of points: 131

m/z	Y	m/z	Y	m/z	Y	m/z	Y
49.00	4068	92.00	1646	153.00	609	243.00	609
50.00	30632	93.00	9842	155.00	1368	244.00	7072
51.00	62608	97.00	1520	156.00	609	246.00	1626
52.00	4339	98.00	11622	161.00	476	249.00	740
53.00	407	99.00	5345	166.00	1117	255.00	22440
55.00	3198	101.00	2814	167.00	5651	256.00	2476
56.00	2842	103.00	2777	168.00	2089	258.00	1840
57.00	3575	104.00	2533	173.00	555	265.00	711
60.00	476	105.00	2861	175.00	740	273.00	609
61.00	1856	107.00	18848	177.00	1443	274.00	4487
62.00	2541	108.00	3746	179.00	1756	275.00	12349
63.00	2683	109.00	478	180.00	1447	276.00	2541
64.00	520	110.00	27688	181.00	462	277.00	1787
65.00	707	111.00	4570	185.00	2166	293.00	555
67.00	298	116.00	1296	186.00	9371	296.00	4372
68.00	2882	117.00	26104	187.00	3247	316.00	555
69.00	44232	118.00	1018	189.00	1296	323.00	2585
71.00	588	120.00	555	193.00	1244	334.00	1124
73.00	2535	122.00	2231	196.00	1447	335.00	476
74.00	11778	123.00	1997	197.00	813	346.00	555
75.00	8038	125.00	574	198.00	85080	352.00	648
76.00	4990	126.00	476	199.00	6684	354.00	1016
77.00	41912	127.00	37496	204.00	2868	365.00	5282
78.00	3612	128.00	6010	205.00	4532	372.00	740
79.00	11056	129.00	16864	206.00	14347	421.00	476
80.00	5253	141.00	2432	207.00	1949	422.00	555
81.00	5342	142.00	508	217.00	5458	423.00	4024
82.00	1235	146.00	508	221.00	2298	424.00	2157
83.00	1190	147.00	925	223.00	1359	441.00	10762
84.00	362	148.00	4942	224.00	7937	442.00	49256
85.00	3227	149.00	337	225.00	2722	443.00	10933
86.00	3531	151.00	609	227.00	5149	444.00	925
91.00	813	152.00	555	231.00	711		

Sample Analysis Data

Analytical Sample Results

Job Number: 11120209

NEA Laboratory, Division of Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: PACE ANALYTICAL SERVICES INC.
Project: VERIFICATION PUF
Client Sample ID: VER PUF LOT #121911-2
Lab Sample ID: 11120209-01 (AO29474)

Collection Date: 12/19/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 12/19/2011 13:06
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-310-5	PCBs by EPA Method TO-4A/680	12/21/2011 14:44	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16767	EPA 3540C	12/20/2011 14:45	JLG	0.00m³	1.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00500	1.00	U	MS03-310-5
Dichlorobiphenyl	25512-42-9	ND	0.00500	1.00	U	MS03-310-5
Trichlorobiphenyl	25323-68-6	ND	0.00500	1.00	U	MS03-310-5
Tetrachlorobiphenyl	26914-33-0	ND	0.0100	1.00	U	MS03-310-5
Pentachlorobiphenyl	25429-29-2	ND	0.0100	1.00	U	MS03-310-5
Hexachlorobiphenyl	26601-64-9	ND	0.0100	1.00	U	MS03-310-5
Heptachlorobiphenyl	28655-71-2	ND	0.0150	1.00	U	MS03-310-5
Octachlorobiphenyl	55722-26-4	ND	0.0150	1.00	U	MS03-310-5
Nonachlorobiphenyl	53742-07-7	ND	0.0250	1.00	U	MS03-310-5
Decachlorobiphenyl	2051-24-3	ND	0.0250	1.00	U	MS03-310-5
Total PCB	1336-36-3	ND		1.00	U	MS03-310-5

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	67.0	42.5-134		MS03-310-5
Tetrachloro-meta-xylene	877-09-8	61.9	17.9-137		MS03-310-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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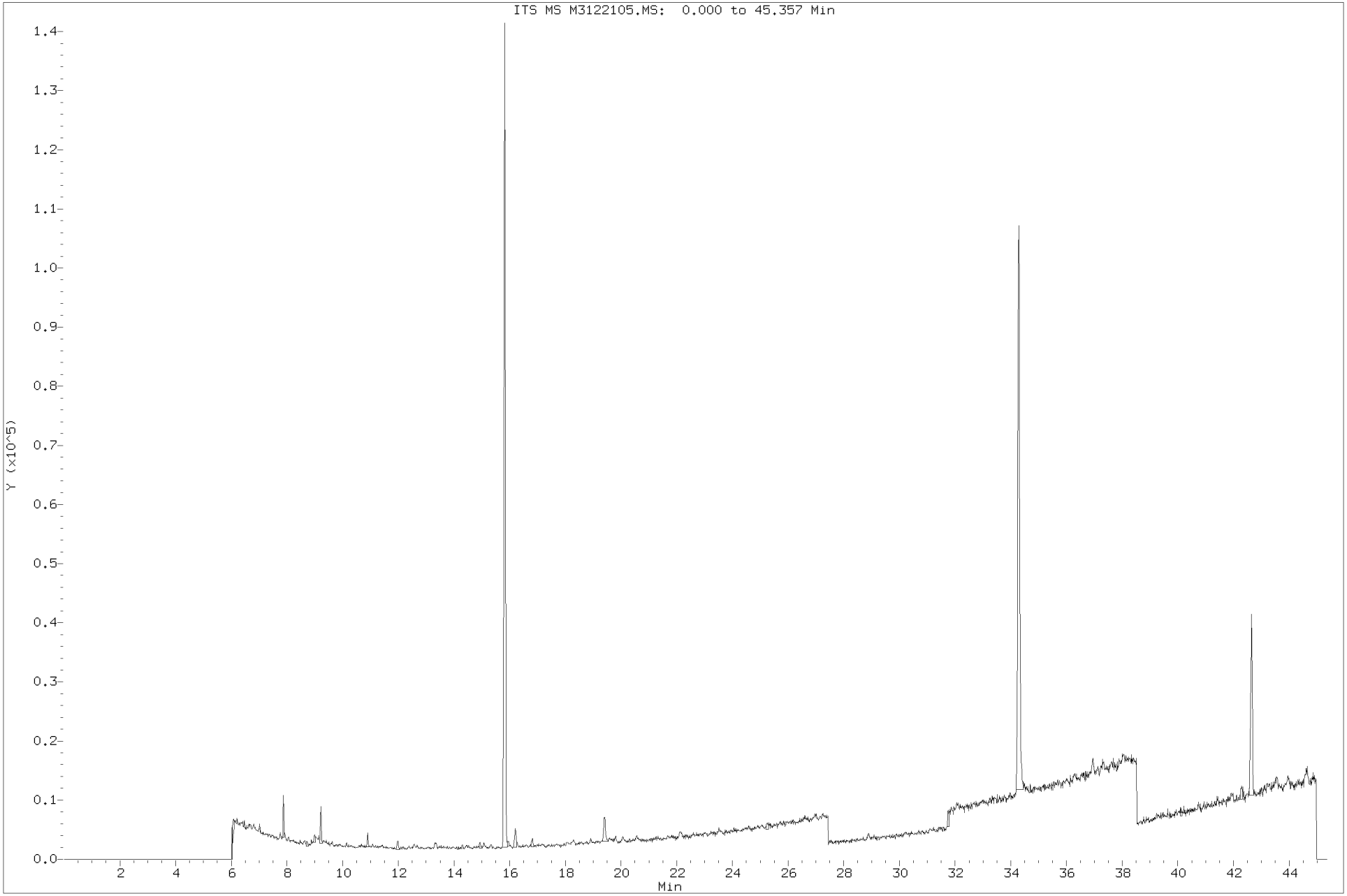
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com | Email: information@nealab.com

Data File: \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\M3122105.d/M3122105.MS
Injection Date: 21-DEC-2011 14:44
Instrument: GCMS03.i
Client Sample ID: VERPUFLOT#121911-2



Form 1
PCB Homolog Report

Northeast Analytical Inc.

		SDG No.:	11120209
ELAP ID No.:	11078	Client ID:	VER PUF LOT#121911-2
Matrix:	TO-4 PUF	Lab Sample ID:	AO29474
Sample weight:	N/A	Date Received:	N/A
% Moisture	0 %	Date Extracted:	12/20/2011
Method:	EPA 680 (GC/MS)	Date Analyzed:	12/21/2011
Dilution Factor:	1	Time Analyzed:	14:44

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls								
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Mono Total:		0.00500	0.00500	ND	

Dichlorobiphenyls								
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Di Total:		0.00500	0.00500	ND	

Trichlorobiphenyls								
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Tri Total:		0.00500	0.00500	ND	

Tetrachlorobiphenyls								
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Tetra Total:		0.0100	0.0100	ND	

Pentachlorobiphenyls								
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Penta Total:		0.0100	0.0100	ND	

Hexachlorobiphenyls								
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Hexa Total:		0.0100	0.0100	ND	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Hepta Total:		0.0150	0.0150	ND	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Octa Total:		0.0150	0.0150	ND	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Deca Total:		0.0250	0.0250	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.979	783	11.971	635	1.2	0.2041		0.0124	
				TCMX Total:			0.0124	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT m/z 510	Quant Ion Area	Confirm Ion RT m/z 512	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor		Solution Concentration ug/mL	Flag
42.643	21146	42.644	15189	1.4	1.0171		0.0670	
				Deca Total:			0.0670	

TCMX Recovery %	61.9 %
Deca Recovery	67.0 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT m/z 240	Quant Ion Area	Confirm Ion RT m/z 241	Confirm Ion Area	Ratio 4.3 - 5.9	Response Factor		Solution Concentration ug/mL	Flag
34.281	248096	34.283	50609	4.9	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3122105"		"M3122105"		"M3122105"		"M3122105"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.817	235795	15.815	3931	7.877	1145		
16.197	2259						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3122105"		"M3122105"		"M3122105"		"M3122105"		"M3122105"		"M3122105"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				7.877	1145			15.820	25372	15.817	235795
								16.205	2013	16.197	2259

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3122105"		"M3122105"		"M3122105"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
				6.075	1393
				6.357	1318
				6.652	1224
				6.736	1231
				7.017	1429
				7.872	2016
				9.217	1012
				13.329	1016

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3122105"		"M3122105"		"M3122105"		"M3122105"		"M3122105"		"M3122105"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				15.820	25372	15.817	235795				
				16.205	2013	16.197	2259				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3122105"		"M3122105"		"M3122105"		"M3122105"		"M3122105"		"M3122105"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
		31.119	1924								

Extracted Ion Current Profiles

Tetrachlorobiphenyls					
"M3122105"	"M3122105"	"M3122105"	"M3122105"	"M3122105"	"M3122105"
m/z 292	m/z 290	m/z 220	m/z 222	m/z 360	m/z 362

9.219 2463

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3122105"		"M3122105"				"M3122105"		"M3122105"			"M3122105"		"M3122105"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.979	783	11.971	635	424	240	34.281	248096	34.283	50609	188	15.817	235795	9.222	1365
19.392	837	34.276	6287	426	241	34.497	1306	34.408	1320	189	16.197	2259	15.814	38423
32.059	3058	34.721	294	428		34.528	1032						26.612	1025
32.301	263	35.610	301	430		34.564	1058							
32.638	252	35.696	382	498										
33.457	379	36.008	338	500										
34.468	285	36.154	338											
34.542	250	38.067	283											
34.746	271													
34.851	314													
35.022	255													
35.085	262													
35.196	292													
35.606	282													
35.893	260													
37.318	416													
37.569	271													
37.677	256													
37.772	258													
37.927	332													
38.261	531													
38.313	253													

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.643	21146	42.585	562
512			42.610	1900
			42.644	15189(M)

Internal Standard Area Summary

Analytical Sample Results

Job Number: 11120209

NEA Laboratory, Division of Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: PACE ANALYTICAL SERVICES INC.
Project: VERIFICATION PUF
Client Sample ID: VER PUF LOT #121911-3
Lab Sample ID: 11120209-02 (AO29475)

Collection Date: 12/19/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 12/19/2011 13:06
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-310-6	PCBs by EPA Method TO-4A/680	12/21/2011 15:33	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16767	EPA 3540C	12/20/2011 14:45	JLG	0.00m³	1.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00500	1.00	U	MS03-310-6
Dichlorobiphenyl	25512-42-9	ND	0.00500	1.00	U	MS03-310-6
Trichlorobiphenyl	25323-68-6	ND	0.00500	1.00	U	MS03-310-6
Tetrachlorobiphenyl	26914-33-0	ND	0.0100	1.00	U	MS03-310-6
Pentachlorobiphenyl	25429-29-2	ND	0.0100	1.00	U	MS03-310-6
Hexachlorobiphenyl	26601-64-9	ND	0.0100	1.00	U	MS03-310-6
Heptachlorobiphenyl	28655-71-2	ND	0.0150	1.00	U	MS03-310-6
Octachlorobiphenyl	55722-26-4	ND	0.0150	1.00	U	MS03-310-6
Nonachlorobiphenyl	53742-07-7	ND	0.0250	1.00	U	MS03-310-6
Decachlorobiphenyl	2051-24-3	ND	0.0250	1.00	U	MS03-310-6
Total PCB	1336-36-3	ND		1.00	U	MS03-310-6

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	71.3	42.5-134		MS03-310-6
Tetrachloro-meta-xylene	877-09-8	64.7	17.9-137		MS03-310-6

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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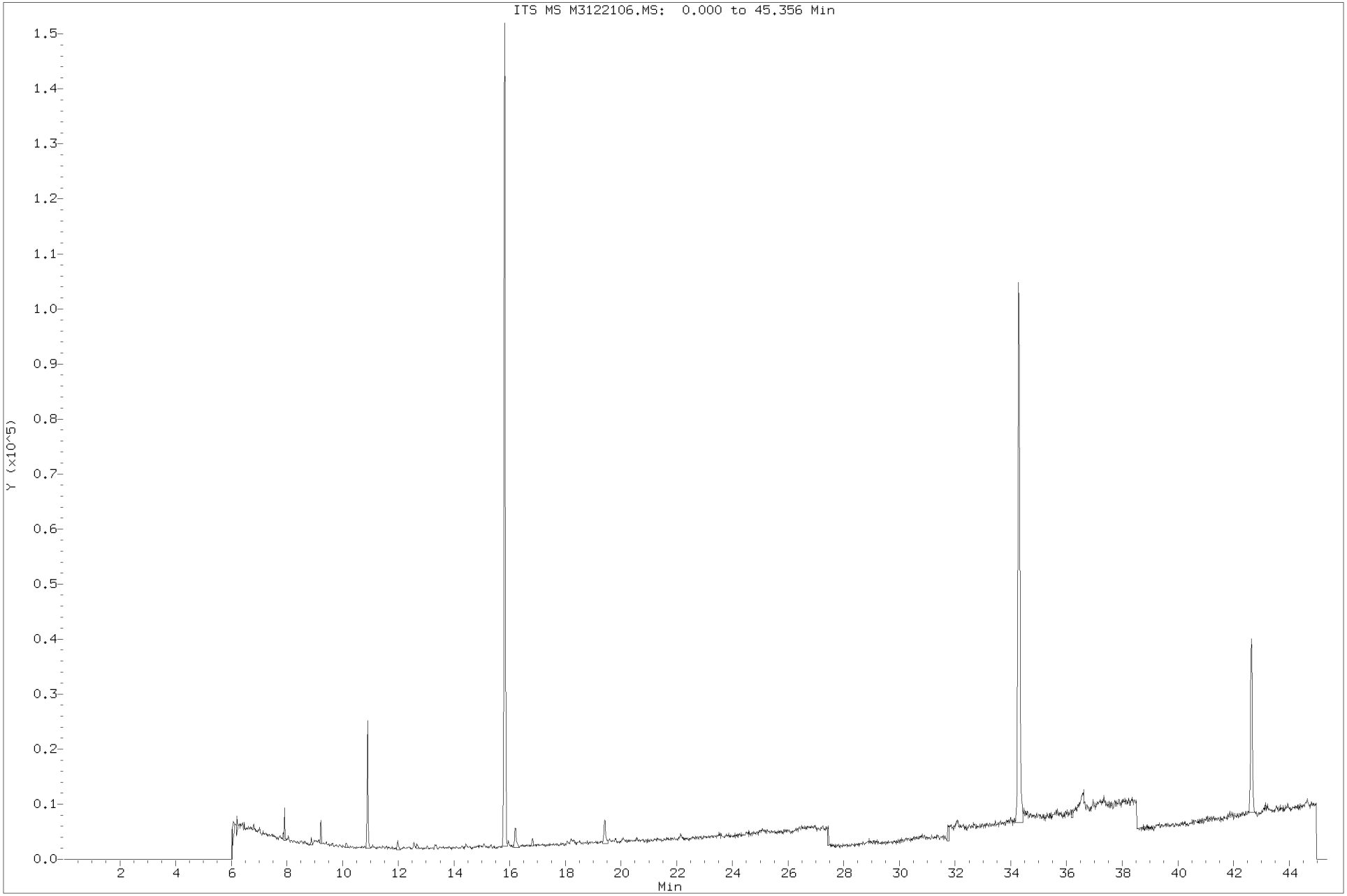
Data File: \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\M3122106.d/M3122106.MS
Injection Date: 21-DEC-2011 15:33
Instrument: GCMS03.i
Client Sample ID: VERPUFLOT#121911-3



Form 1
PCB Homolog Report

Northeast Analytical Inc.

		SDG No.:	11120209
ELAP ID No.:	11078	Client ID:	VER PUF LOT#121911-3
Matrix:	TO-4 PUF	Lab Sample ID:	AO29475
Sample weight:	N/A	Date Received:	N/A
% Moisture	0 %	Date Extracted:	12/20/2011
Method:	EPA 680 (GC/MS)	Date Analyzed:	12/21/2011
Dilution Factor:	1	Time Analyzed:	15:33

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug	ug	ug	
					Mono Total:	0.00500	0.00500	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug	ug	ug	
					Di Total:	0.00500	0.00500	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug	ug	ug	
					Tri Total:	0.00500	0.00500	ND	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug	ug	ug	
					Tetra Total:	0.0100	0.0100	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug	ug	ug	
					Penta Total:	0.0100	0.0100	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug	ug	ug	
					Hexa Total:	0.0100	0.0100	ND	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug	ug	ug	
				Hepta Total:		0.0150	0.0150	ND	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug	ug	ug	
				Octa Total:		0.0150	0.0150	ND	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug	ug	ug	
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug	ug	ug	
				Deca Total:		0.0250	0.0250	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL	
11.977	824	11.976	650	1.3	0.2041		0.0129	
				TCMX Total:			0.0129	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.644	22619	42.641	19284	1.2	1.0171		0.0713	
				Deca Total:			0.0713	

TCMX Recovery %	64.7 %
Deca Recovery	71.3 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.281	249447	34.277	51070	4.9	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Monochlorobiphenyls							
"M3122106"		"M3122106"		"M3122106"		"M3122106"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.817	248396	15.815	3713				
16.196	2274						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3122106"		"M3122106"		"M3122106"		"M3122106"		"M3122106"		"M3122106"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
								15.812	25804	15.817	248396
								16.202	2124	16.196	2274

Dichlorobiphenyls					
"M3122106"		"M3122106"		"M3122106"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
				6.081	1098
				6.147	1226
				6.392	1084
				6.460	1375
				7.019	1417
				7.869	1535
				7.914	1059
				8.641	1048

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3122106"		"M3122106"		"M3122106"		"M3122106"		"M3122106"		"M3122106"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				15.812	25804	15.817	248396				
				16.202	2124	16.196	2274				

Extracted Ion Current Profiles

Tetrachlorobiphenyls					
"M3122106"	"M3122106"	"M3122106"	"M3122106"	"M3122106"	"M3122106"
m/z 292	m/z 290	m/z 220	m/z 222	m/z 360	m/z 362
		9.219 1991			

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3122106"		"M3122106"				"M3122106"		"M3122106"			"M3122106"		"M3122106"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
11.977	824	11.976	650	424	240	34.281	249447	34.277	51070	188	15.817	248396	9.219	1043
32.075	2346	34.271	5496	426	241	34.462	1945			189	16.196	2274	15.818	38398
32.126	381			428										
33.404	257			430										
36.323	255			498										
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.644	22619	42.641	19284
512				

Window Defining Mix

Pace Analytical - NY Lab

PCB REPORT EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081602.d
Lab Smp Id: WDM3-0816A Client Smp ID: WDM3-0816A
Inj Date : 16-AUG-2011 10:55
Operator : RMS Inst ID: GCMS03.i
Smp Info : WDM3-0816A
Misc Info : RS M3081602
Comment   :
Method   : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680WDM3.m
Meth Date : 16-Aug-2011 11:49 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 10:55 Cal File: M3081602.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 680WDM.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 2 Phenanthrene-d10	188	15.869	15.869	(1.000)	142027	0.80000	
* 6 Chrysene-d12	240	34.362	34.362	(1.000)	153807	0.80000	
1 Cl1	188	9.607	9.607	(0.280)	473760	2.50000	2.50
3 RTstd-BZ-104	326	20.145	20.145	(0.586)	492482	2.50000	2.50
4 RTstd-BZ-77	292	27.305	27.305	(0.795)	479538	2.50000	2.50
5 RTstd-BZ-202	430	33.044	33.044	(0.962)	408517	2.50000	2.50
7 RTstd-BZ-208	464	37.973	37.973	(1.105)	420493	2.50000	2.50
8 RTstd-BZ-189	394	38.386	38.386	(1.117)	454108	2.50000	2.50
9 Cl10	498	42.742	42.742	(1.244)	499837	2.50000	2.50

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081602.d

Date : 16-AUG-2011 10:55

Client ID: WDM3-0816A

Instrument: GCMS03.i

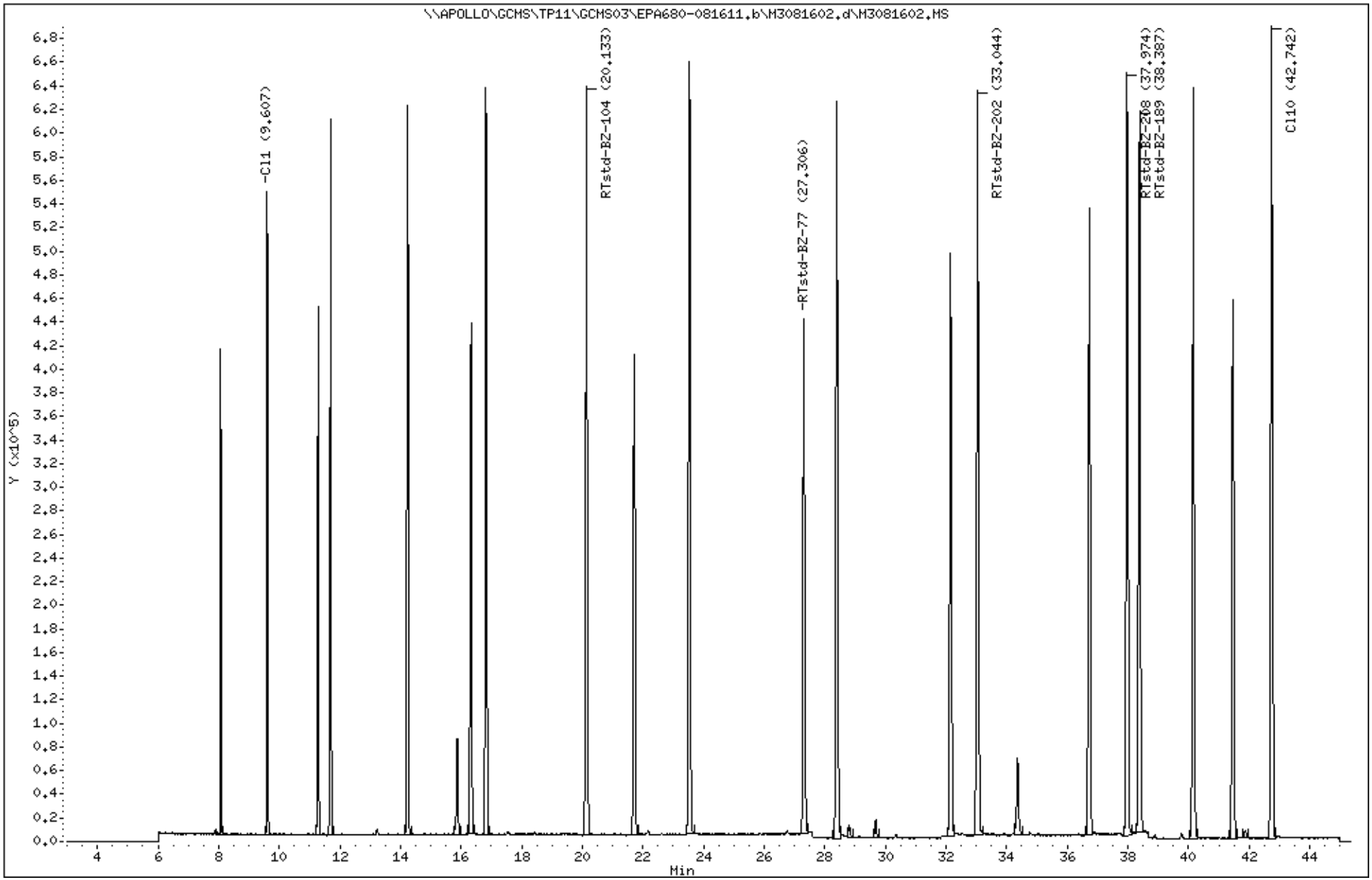
Sample Info: WDM3-0816A

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Pace Analytical - NY Lab

PCB REPORT EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\M3122102.d
Lab Smp Id: WDM3-1221A Client Smp ID: WDM3-1221A
Inj Date : 21-DEC-2011 12:16
Operator : RMS Inst ID: GCMS03.i
Smp Info : WDM3-1221A
Misc Info : RS M3122102
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\680WDM3.m
Meth Date : 21-Dec-2011 11:41 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 10:55 Cal File: M3081602.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 680WDM.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 2 Phenanthrene-d10	188	15.807	15.869	(1.000)	254462	0.80000	
* 6 Chrysene-d12	240	34.276	34.361	(1.000)	259103	0.80000	
1 Cl1	188	9.570	9.607	(0.279)	887153	2.77898	2.78
3 RTstd-BZ-104	326	20.070	20.135	(0.586)	812232	2.44757	2.45
4 RTstd-BZ-77	292	27.231	27.314	(0.794)	827446	2.56072	2.56
5 RTstd-BZ-202	430	32.966	33.049	(0.962)	670072	2.43420	2.43
7 RTstd-BZ-208	464	37.893	37.968	(1.106)	664895	2.34660	2.35
8 RTstd-BZ-189	394	38.303	38.376	(1.117)	725496	2.37094	2.37
9 Cl10	498	42.654	42.745	(1.244)	703378	2.08836	2.09

Data File: \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\M3122102.d

Date : 21-DEC-2011 12:16

Client ID: WDM3-1221A

Instrument: GCMS03.i

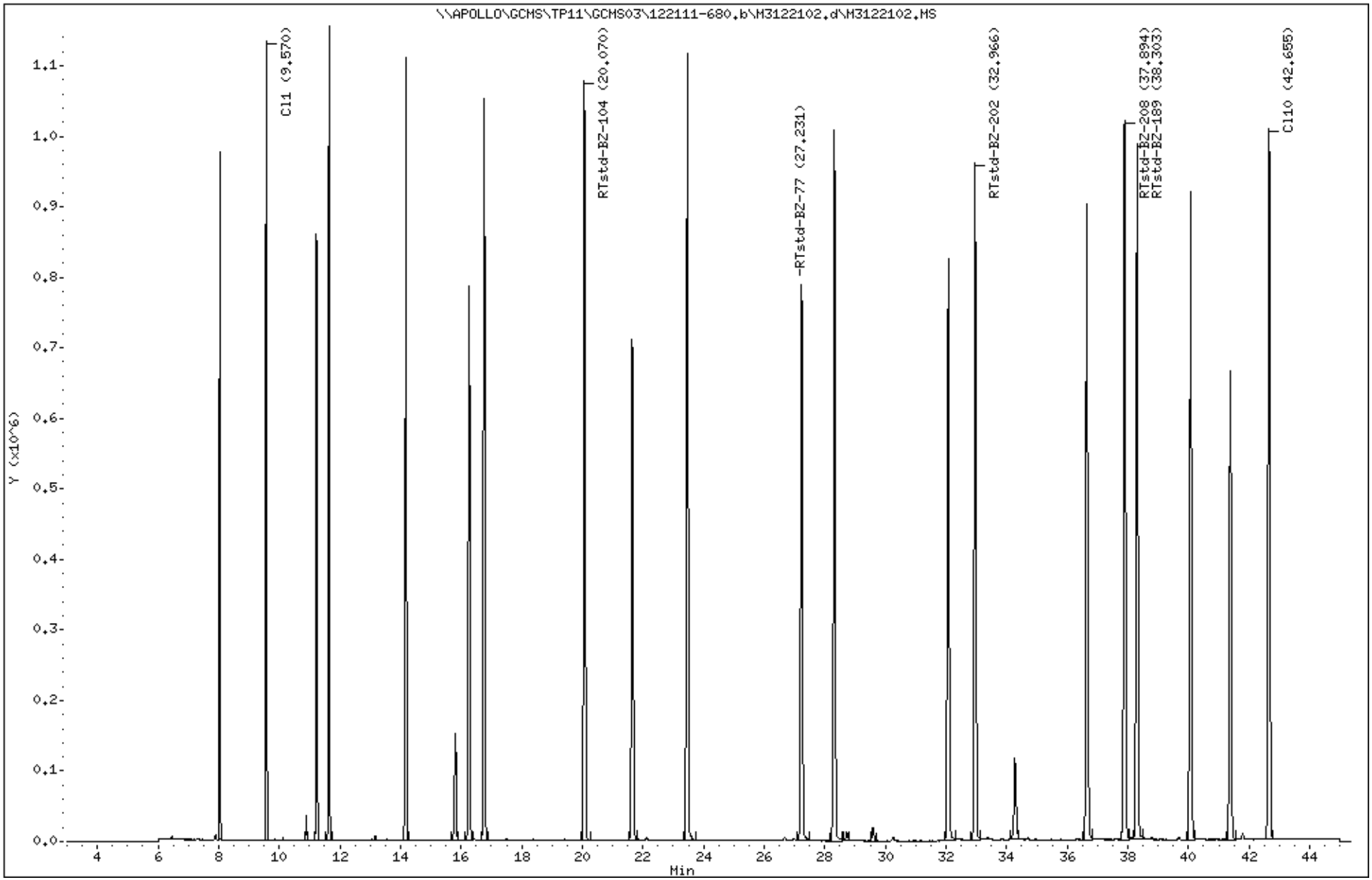
Sample Info: WDM3-1221A

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Initial Calibration Data

6B
EPA 680 Initial Calibration Data

NEA - A Divison of Pace

SDG No.: 11120209

Instrument ID: GCMS 03
GC Column: DB XLB

Start Cal Date: 08/16/11 Time: 11:44
End Cal Date: 08/16/11 Time: 16:39

Calibration File Names:
Level 1: \\M3081609
Level 2: \\M3081608
Level 3: \\M3081607
Level 4: \\M3081606
Level 5: \\M3081605
Level 6: \\M3081604
Level 7: \\M3081603

NEA File ID: S:\Lab Data\GCMS-SV\EPA-680\PACE_LRF11120209\[081611_680CLP_6B.xls]680CLP-6B

COMPOUND	RRF Level1	RRF Level2	RRF Level3	RRF Level4	RRF Level5	RRF Level6	RRF Level7	MEAN RRF	% RSD
Cl1	1.4202	1.2872	1.1150	1.0458	1.0212	0.9903	0.9597	1.120	15.29%
Cl2	1.4927	1.2706	1.0763	1.0149	1.0034	0.9459	0.9153	1.103	18.82%
Cl3	1.1683	1.0245	0.9480	0.8965	0.8896	0.8254	0.8203	0.939	13.13%
Cl4	1.0277	0.9203	0.7532	0.7142	0.7053	0.6690	0.6368	0.775	18.57%
Cl5	0.9647	0.8695	0.7631	0.7378	0.7398	0.6914	0.6763	0.778	13.32%
Cl6	0.9426	0.8624	0.8053	0.7832	0.7585	0.7098	0.7108	0.796	10.54%
Cl7	1.1132	1.0561	0.9515	0.8943	0.8829	0.8593	0.8436	0.943	11.01%
Cl8	1.3734	1.1191	0.9703	0.9567	0.9391	0.8973	0.8874	1.020	16.99%
Cl9	1.1968	1.1171	1.0355	1.0162	1.0051	0.8929	0.9422	1.029	9.94%
Cl10	1.1968	1.1171	1.0355	1.0162	1.0051	0.8929	0.9422	1.029	9.94%
Chyrsene-d12	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.000	0.00%
TCMX	0.2515	0.2529	0.2014	0.1866	0.1915	0.1745	0.1702	0.204	16.88%
$D^{13}C_{12}BP$	1.0476	1.2059	1.0310	1.0125	0.9385	0.8672	**	1.017	11.25%

COMPOUND	Conc. ug/mL Level1	Conc. ug/mL Level2	Conc. ug/mL Level3	Conc. ug/mL Level4	Conc. ug/mL Level5	Conc. ug/mL Level6	Conc. ug/mL Level7
Cl1	0.005	0.010	0.050	1.000	2.000	3.000	5.000
Cl2	0.005	0.010	0.050	1.000	2.000	3.000	5.000
Cl3	0.005	0.010	0.050	1.000	2.000	3.000	5.000
Cl4	0.010	0.020	0.100	2.000	4.000	6.000	10.000
Cl5	0.010	0.020	0.100	2.000	4.000	6.000	10.000
Cl6	0.010	0.020	0.100	2.000	4.000	6.000	10.000
Cl7	0.015	0.030	0.150	3.000	6.000	9.000	15.000
Cl8	0.015	0.030	0.150	3.000	6.000	9.000	15.000
Cl10	0.025	0.050	0.250	5.000	10.000	15.000	25.000
TCMX	0.005	0.010	0.050	1.000	2.000	3.000	5.000
$D^{13}C_{12}BP$	0.025	0.050	0.250	5.000	10.00	15.000	+++++

TCMX = Tetrachloro-m-xylene
$D^{13}C_{12}BP$ = Decachlorobiphenyl (13C labeled)

FORM VI-CLP-EPA 680 -1

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081609.d
Lab Smp Id: iCAL-1 Client Smp ID: iCAL-1
Inj Date : 16-AUG-2011 16:39
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-1
Misc Info : RS M3081609
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 16:39 Cal File: M3081609.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.861	15.861	(1.000)	324788	0.80000	
* 13 Chrysene-d12	240	34.341	34.341	(1.000)	321860	0.80000	
1 Cl1	188	9.609	9.609	(0.280)	2951	0.00500	0.00643
$ 2 Tetrachloro-m-xylene	244	12.013	12.014	(0.350)	519	0.00500	0.00618
3 Cl2	222	13.502	13.502	(0.393)	2627	0.00500	0.00608
5 Cl3	256	17.088	17.088	(0.498)	2420	0.00500	0.00631
6 Cl4	292	17.531	17.531	(0.511)	3913	0.01000	0.0126
7 RTstd-BZ-104	326	20.120	20.120	(0.586)	5748	0.01000	0.0125
8 Cl5	326	25.998	25.998	(0.757)	3771	0.01000	0.0120
9 Cl6	360	26.296	26.296	(0.766)	3868	0.01000	0.0118
10 RTstd-BZ-77	292	27.306	27.306	(0.795)	5323	0.01000	0.0124
11 Cl7	394	28.383	28.383	(0.827)	6865	0.01500	0.0176(a)
12 Cl8	430	33.495	33.495	(0.975)	7511	0.01500	0.0185(a)
14 RTstd-BZ-208	464	37.956	37.956	(1.105)	9023	0.02000	0.0231(a)
15 Cl10	498	42.728	42.728	(1.244)	12127	0.02500	0.0289(a)
$ 16 Decachloro-13C12-Biphenyl	510	42.715	42.715	(1.244)	10717	0.02500	0.0258(a)

QC Flag Legend

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

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081609.d

Date : 16-AUG-2011 16:39

Client ID: iCAL-1

Instrument: GCMS03.i

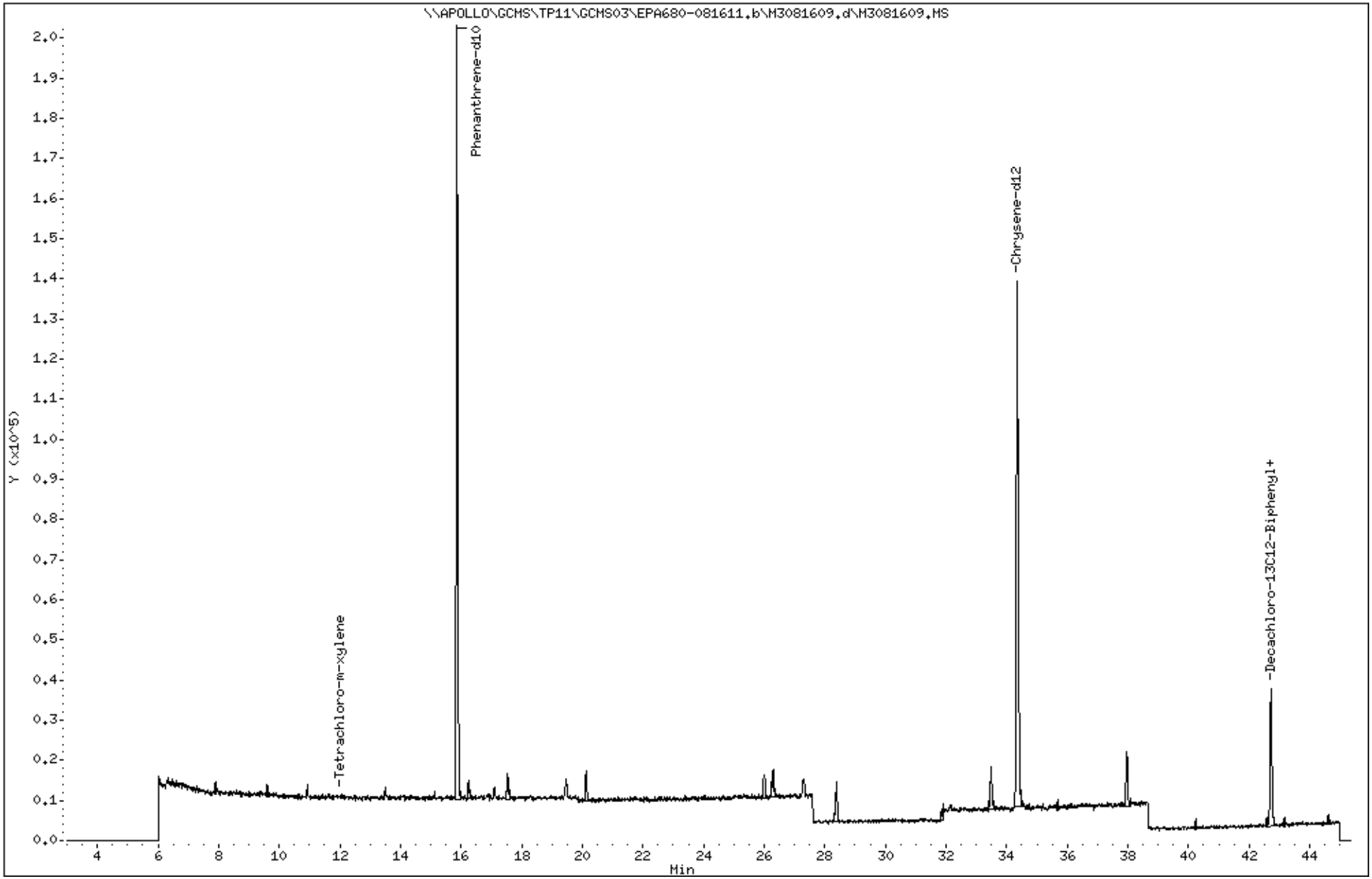
Sample Info: iCAL-1

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3081609"		"M3081609"		"M3081609"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.606	2920	9.604	1142				
15.863	325971	15.866	4579				
16.244	3713						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081609"		"M3081609"		"M3081609"						"M3081609"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.509	3069	13.506	1902							9.606	2920
17.538	1869									15.863	325971
27.305	1757									16.244	3713

Dichlorobiphenyls					
"M3081609"		"M3081609"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.096	2402	17.105	1481		
20.125	1929				
26.009	1895				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081609"		"M3081609"				"M3081609"		"M3081609"		"M3081609"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.096	2402	17.105	2208(M)			9.606	2920	20.126	3173	20.123	5483
20.125	1929					15.863	325971	25.991	1108	26.000	3967
26.009	1895					16.244	3713	26.011	1298	28.383	2112
								28.391	2761		

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081609"		"M3081609"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.536	2574	17.539	4226				
						26.291	1258				
				26.290	2009	27.302	5664				
				27.304	3949						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081609"		"M3081609"			"M3081609"		"M3081609"		"M3081609"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.539	4226	17.536	2832(M)		13.509	3069	26.291	3876	26.291	3079	
26.291	1258	26.290	2009		17.538	1869	33.484	1246			
27.302	5664	27.304	3949		27.305	1757					

Extracted Ion Current Profiles

Tetrachlorobiphenyls						
	"M3081609"		"M3081609"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.126	3173	20.123	5483		
	25.991	1108	26.000	3967		
	26.011	1298	28.383	2112		
	28.391	2761				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081609"		"M3081609"			"M3081609"		"M3081609"		"M3081609"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.123	5483	20.126	3173		17.096	2402	17.105	1481	
26.000	3967	25.991	2406(M)		20.125	1929			
28.383	2112	26.011	1298		26.009	1895			
		28.391	2761						

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081609"		"M3081609"					"M3081609"		"M3081609"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.385	6866	28.384	6634				26.291	3876	26.291	3079	
37.947	1226	37.966	1610				33.484	1246			
37.969	1450										

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081609"		"M3081609"			"M3081609"			"M3081609"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.291	3876	26.291	3079		17.536	2574			
33.484	1246							33.481	5936
					26.290	2009		42.734	3702
					27.304	3949			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081609"								"M3081609"		"M3081609"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.490	8471							28.385	6866	28.384	6634		
41.393	1013							37.947	1226	37.966	1610		
42.732	4342							37.969	1450				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081609"		"M3081609"			"M3081609"		"M3081609"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.385	6866	28.384	6634		20.126	3173	20.123	5483	
37.947	1226	37.966	1610		25.991	1108	26.000	3967	
37.969	1450				26.011	1298	28.383	2112	
					28.391	2761			

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081609"		"M3081609"			"M3081609"		"M3081609"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.959	9095	37.961	6511				33.490	8471			
					33.481	5936	41.393	1013			
					42.734	3702	42.732	4342			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081609"		"M3081609"				"M3081609"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.490	8471	33.481	6570(M)				26.291	3876	
41.393	1013	42.734	3702				33.484	1246	
42.732	4342								

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081609"		"M3081609"		
m/z 464		m/z 466		m/z 425
37.959	9095	37.961	6511	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081609"		"M3081609"				"M3081609"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.959	9095	37.961	6511			28.385	6866
						37.947	1226
						37.969	1450

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081609"		"M3081609"				"M3081609"		"M3081609"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.731	12303	42.721	10841			33.481	5936	33.490	8471
						42.734	3702	41.393	1013
								42.732	4342

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081609"		"M3081609"				"M3081609"		"M3081609"			"M3081609"		"M3081609"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
12.018	517(M)	6.133	143	424	240	34.347	328958	34.344	69901	188	9.606	2920	15.861	49888
29.931	101	6.514	116	426	241	34.540	2211			189	15.863	325971		
31.228	189	6.587	109	428							16.244	3713		
31.252	125	6.687	101	430										
32.129	1710	7.310	124	498										
32.151	1618	8.712	105	500										
32.230	153	8.907	143											
32.279	110	9.450	132											
32.737	102	10.031	126											
34.612	104	10.155	138											
35.027	109	10.711	136											
36.931	103	11.178	158											
37.902	100	11.545	130											
		11.630	106											
		11.708	105											
		11.741	112											
		12.022	401(M)											
		12.206	123											
		12.326	141											
		13.237	115											
		13.781	138											
		14.116	103											
		15.630	176											
		15.709	103											
		16.570	128											
		17.980	148											
		18.125	145											
		18.344	115											
		18.563	140											
		18.842	121											
		19.125	129											
		19.194	133											
		19.352	135											
		19.628	113											
		29.223	104											
		29.383	108											
		31.122	145											
		31.227	246											
		31.258	157											
		32.063	106											
		32.164	128											

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.716	10769	42.707	11328
512	42.754	1586		

2424(M)

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081608.d
Lab Smp Id: iCAL-2 Client Smp ID: iCAL-2
Inj Date : 16-AUG-2011 15:50
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-2
Misc Info : RS M3081608
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 15:50 Cal File: M3081608.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

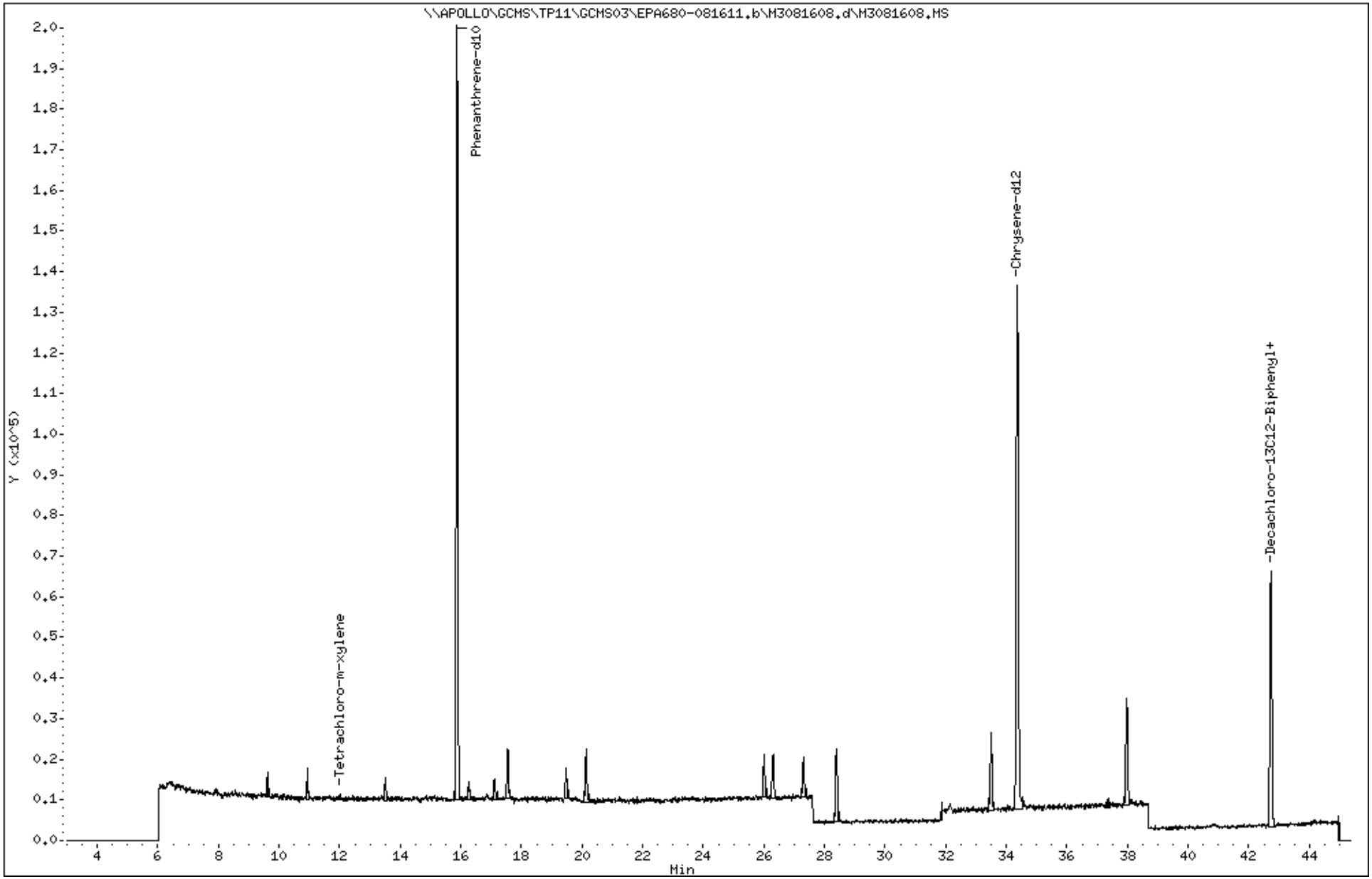
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.870	15.861	(1.000)	309298	0.80000	
* 13 Chrysene-d12	240	34.353	34.341	(1.000)	323948	0.80000	
1 Cl1	188	9.609	9.609	(0.280)	5446	0.01000	0.0124
$ 2 Tetrachloro-m-xylene	244	12.012	12.014	(0.350)	1045	0.01000	0.0129
3 Cl2	222	13.512	13.502	(0.393)	4911	0.01000	0.0117
5 Cl3	256	17.106	17.088	(0.498)	4200	0.01000	0.0114
6 Cl4	292	17.541	17.531	(0.511)	7402	0.02000	0.0249
7 RTstd-BZ-104	326	20.136	20.120	(0.586)	10155	0.02000	0.0230
8 Cl5	326	26.004	25.998	(0.757)	6850	0.02000	0.0223
9 Cl6	360	26.303	26.296	(0.766)	6963	0.02000	0.0218
10 RTstd-BZ-77	292	27.301	27.306	(0.795)	9272	0.02000	0.0224
11 Cl7	394	28.385	28.383	(0.826)	12987	0.03000	0.0341(a)
12 Cl8	430	33.498	33.495	(0.975)	12953	0.03000	0.0331(a)
14 RTstd-BZ-208	464	37.974	37.956	(1.105)	16914	0.04000	0.0441(a)
15 Cl10	498	42.745	42.728	(1.244)	22507	0.05000	0.0546(a)
$ 16 Decachloro-13C12-Biphenyl	510	42.720	42.715	(1.244)	24341	0.05000	0.0586(a)

QC Flag Legend

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

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081608.d
Date : 16-AUG-2011 15:50
Client ID: iCAL-2
Sample Info: iCAL-2
Volume Injected (uL): 2.0
Column phase: DBXLB

Instrument: GCMS03.i
Operator: RMS
Column diameter: 0.25



Monochlorobiphenyls							
"M3081608"		"M3081608"		"M3081608"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.611	5288	9.610	1847				
15.871	313673	15.865	5035				
16.242	3497						
17.105	1034						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081608"		"M3081608"		"M3081608"						"M3081608"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.510	5220	13.510	3162							9.611	5288
17.552	3352									15.871	313673
27.305	2586									16.242	3497
										17.105	1034

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081608"		"M3081608"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.106	4209	17.105	4188		
20.134	3479	20.125	1252		
26.008	3460	26.006	1119		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081608"		"M3081608"				"M3081608"		"M3081608"		"M3081608"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.106	4209	17.105	4188			9.611	5288	20.131	6317	20.131	10274
20.134	3479	20.125	1252			15.871	313673	26.008	4251	26.006	7144
26.008	3460	26.006	1119			16.242	3497	28.379	2236	28.395	3696
						17.105	1034	28.395	2861		
								37.971	1923		

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081608"		"M3081608"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.543	5389	17.547	7562				
				26.304	3685	26.286	1535				
				27.302	7477	27.306	9737				

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081608"		"M3081608"			"M3081608"		"M3081608"		"M3081608"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.547	7562	17.543	5389		13.510	5220	26.301	7086	26.298	6066	
26.286	1535	26.304	3685		17.552	3352	33.507	3825	33.492	1717	
27.306	9737	27.302	7477		27.305	2586					

Tetrachlorobiphenyls					
	"M3081608"		"M3081608"		
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.131	6317	20.131	10274		
	26.008	4251	26.006	7144		
	28.379	2236	28.395	3696		
	28.395	2861				
	37.971	1923				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081608"		"M3081608"			"M3081608"		"M3081608"		"M3081608"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.131	10274	20.131	6317		17.106	4209	17.105	4188	
26.006	7144	26.008	4251		20.134	3479	20.125	1252	
28.395	3696	28.379	2236		26.008	3460	26.006	1119	
		28.395	2861						
		37.971	1923						

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081608"		"M3081608"					"M3081608"		"M3081608"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.391	13016	28.395	12726				26.301	7086	26.298	6066	
37.973	4029	37.971	1847				33.507	3825	33.492	1717	

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081608"		"M3081608"			"M3081608"			"M3081608"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.301	7086	26.298	6066		17.543	5389		33.492	11930
33.507	3825	33.492	1717		26.304	3685		42.735	7565
					27.302	7477			

Extracted Ion Current Profiles

Hexachlorobiphenyls															
"M3081608"								"M3081608"		"M3081608"					
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
33.500	13793							28.391	13016	28.395	12726				
40.070	1005							37.973	4029	37.971	1847				
42.174	1005														
42.738	7055														

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081608"		"M3081608"			"M3081608"		"M3081608"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.391	13016	28.395	12726		20.131	6317	20.131	10274	
37.973	4029	37.971	1847		26.008	4251	26.006	7144	
					28.379	2236	28.395	3696	
					28.395	2861			
					37.971	1923			

Extracted Ion Current Profiles

Heptachlorobiphenyls												
"M3081608"		"M3081608"			"M3081608"		"M3081608"					
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432		m/z 391	
37.974	16787	37.967	12730		33.492	11930	33.500	13793				
					42.735	7565	40.070	1005				
							42.174	1005				
							42.738	7055				

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081608"		"M3081608"				"M3081608"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.500	13793	33.492	11930				26.301	7086	
40.070	1005	42.735	7565				33.507	3825	
42.174	1005								
42.738	7055								

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081608"		"M3081608"		
m/z 464		m/z 466		m/z 425
37.974	16787	37.967	12730	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081608"		"M3081608"				"M3081608"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.974	16787	37.967	12730			28.391	13016
						37.973	4029

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081608"		"M3081608"				"M3081608"		"M3081608"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.741	22947	42.736	20076			33.492	11930	33.500	13793
						42.735	7565	40.070	1005
								42.174	1005
								42.738	7055

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081608"		"M3081608"				"M3081608"		"M3081608"			"M3081608"		"M3081608"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
12.017	1039	6.095	144	424	240	34.357	328659	34.363	63470	188	9.611	5288	9.614	1215
13.660	122	7.005	102	426	241					189	15.871	313673	15.872	50313
31.230	261	7.436	172	428							16.242	3497		
31.273	164	7.476	107	430							17.105	1034		
32.139	3622	7.831	128	498										
32.302	121	8.191	104	500										
32.489	123	8.406	128											
34.503	118	8.835	133											
34.642	136	8.947	113											
35.695	107	9.724	104											
		9.808	213											
		9.926	107											
		10.036	126											
		10.190	104											
		10.724	146											
		11.076	108											
		11.410	130											
		11.732	119											
		12.023	876(M)											
		12.093	118											
		12.225	129											
		12.333	102											
		12.593	106											
		13.499	101											
		13.670	144											
		14.214	145											
		14.455	117											
		14.542	110											
		15.509	132											
		16.685	163											
		17.730	108											
		18.092	115											
		29.802	101											
		30.698	124											
		31.253	306											
		31.294	142											
		31.960	102											
		32.126	123											
		32.162	179											
		32.265	169											
		32.345	124											

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.718	24770	42.724	20097
512				

5204(M)

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081607.d
Lab Smp Id: iCAL-3 Client Smp ID: iCAL-3
Inj Date : 16-AUG-2011 15:01
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-3
Misc Info : RS M3081607
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 15:01 Cal File: M3081607.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.864	15.861	(1.000)	279206	0.80000	
* 13 Chrysene-d12	240	34.359	34.341	(1.000)	279020	0.80000	
1 Cl1	188	9.597	9.609	(0.279)	196363	0.50000	0.545
$ 2 Tetrachloro-m-xylene	244	12.018	12.014	(0.350)	35688	0.50000	0.541
3 Cl2	222	13.506	13.502	(0.393)	188617	0.50000	0.541
5 Cl3	256	17.107	17.088	(0.498)	169397	0.50000	0.548
6 Cl4	292	17.541	17.531	(0.511)	264377	1.00000	1.08
7 RTstd-BZ-104	326	20.132	20.120	(0.586)	396561	1.00000	1.07
8 Cl5	326	26.010	25.998	(0.757)	270325	1.00000	1.05
9 Cl6	360	26.294	26.296	(0.765)	289269	1.00000	1.07
10 RTstd-BZ-77	292	27.305	27.306	(0.795)	368083	1.00000	1.06
11 Cl7	394	28.397	28.383	(0.826)	518147	1.50000	1.63
12 Cl8	430	33.498	33.495	(0.975)	514677	1.50000	1.56
14 RTstd-BZ-208	464	37.965	37.956	(1.105)	683535	2.00000	2.11
15 Cl10	498	42.743	42.728	(1.244)	920151	2.50000	2.64
$ 16 Decachloro-13C12-Biphenyl	510	42.719	42.715	(1.243)	918164	2.50000	2.68

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081607.d

Date : 16-AUG-2011 15:01

Client ID: iCAL-3

Instrument: GCMS03.i

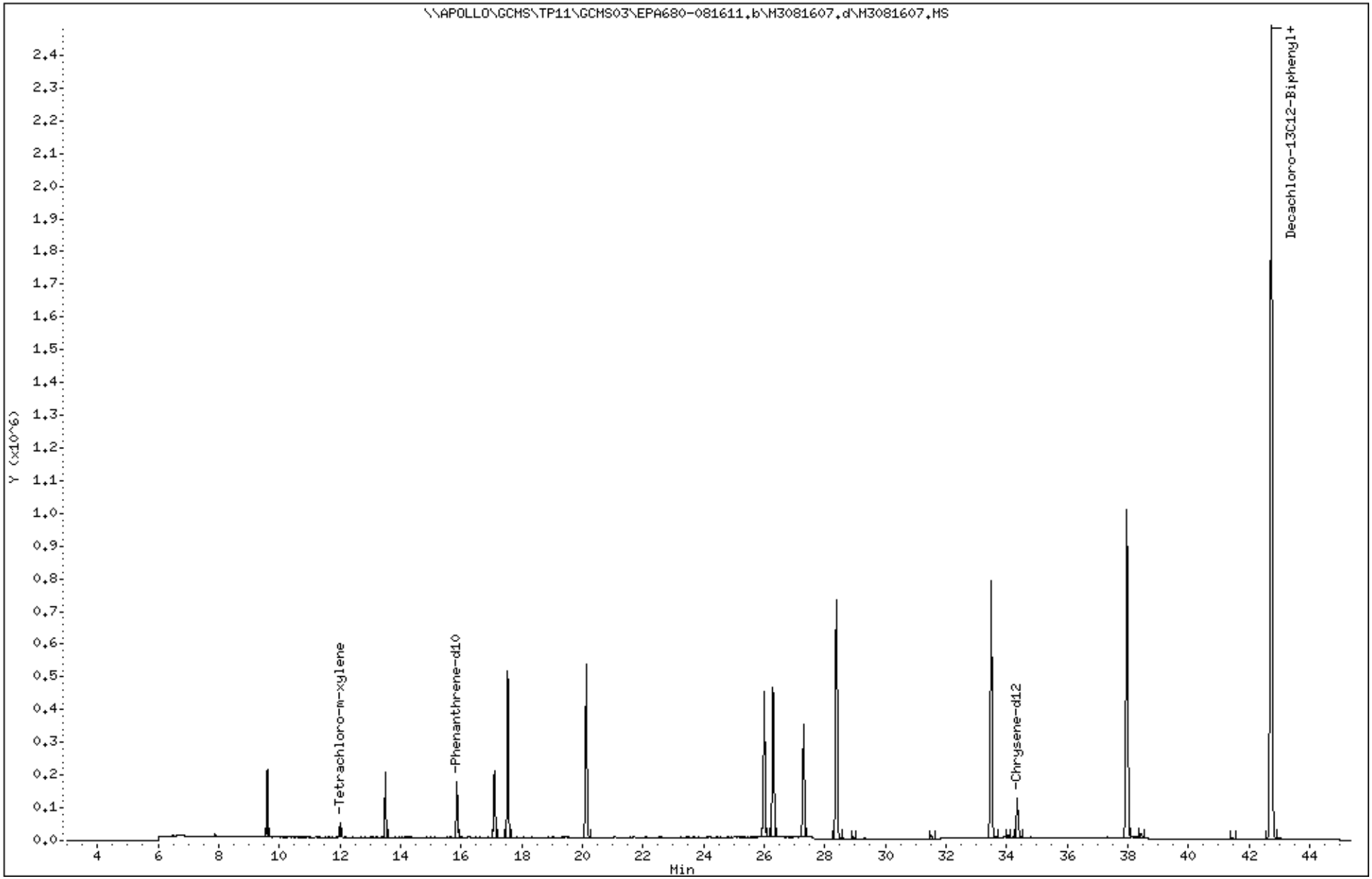
Sample Info: iCAL-3

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Monochlorobiphenyls							
"M3081607"		"M3081607"		"M3081607"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.605	199077	9.606	67754				
13.509	7414	15.867	4374				
15.867	281493						
17.102	28956						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081607"		"M3081607"		"M3081607"						"M3081607"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.508	192166	13.507	125793							9.605	199077
17.100	6317	17.546	20872							13.509	7414
17.547	116893	27.310	15203							15.867	281493
26.002	4393									17.102	28956
26.294	4776										
27.313	85959										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081607"		"M3081607"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.105	169265	17.105	164227		
17.534	12019	17.541	24072		
17.555	13616	20.132	44822		
20.131	136077	21.065	4587		
21.064	4634	26.002	43467		
26.004	128638				
26.305	4205				
27.314	7782				
28.389	13570				
28.404	9079				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081607"		"M3081607"				"M3081607"		"M3081607"		"M3081607"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.105	169265	17.105	164227			9.605	199077	20.131	249481	20.132	399857
17.534	12019	17.541	24072			13.509	7414	26.005	166748	26.005	272489
17.555	13616	20.132	44822			15.867	281493	26.284	5345	26.283	7274
20.131	136077	21.065	4587			17.102	28956	26.307	4748	26.307	7186
21.064	4634	26.002	43467					28.395	190402	28.391	130581
26.004	128638							33.497	9917	37.968	22753
26.305	4205							37.971	65873		
27.314	7782										
28.389	13570										
28.404	9079										

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081607"		"M3081607"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.546	214512	17.545	268974				
				20.130	9930	20.134	10603				
				26.006	19623	26.005	22040				
				26.298	137323	26.299	68556				
				27.304	280790	27.307	367175				
				28.397	7814	33.492	5012				
				33.489	36082	33.514	5387				

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081607"		"M3081607"			"M3081607"		"M3081607"		"M3081607"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.545	268974	17.546	214512		13.508	192166	26.296	287578	26.297	230499	
20.134	10603	20.130	9930		17.100	6317	28.402	4271	28.392	5115	
26.005	22040	26.006	19623		17.547	116893	33.499	154678	33.501	65050	
26.299	68556	26.298	137323		26.002	4393	37.974	5668	42.719	5411	
27.307	367175	27.304	280790		26.294	4776	42.736	24424	42.745	8129	
33.492	5012	28.397	7814		27.313	85959	42.756	26281			
33.514	5387	33.489	36082								

Tetrachlorobiphenyls						
	"M3081607"		"M3081607"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.131	249481	20.132	399857		
	26.005	166748	26.005	272489		
	26.284	5345	26.283	7274		
	26.307	4748	26.307	7186		
	28.395	190402	28.391	130581		
	33.497	9917	37.968	22753		
	37.971	65873				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081607"		"M3081607"			"M3081607"		"M3081607"		"M3081607"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.132	399857	20.131	249481		17.105	169265	17.105	164227	
26.005	272489	26.005	166748		17.534	12019	17.541	24072	
26.283	7274	26.284	5345		17.555	13616	20.132	44822	
26.307	7186	26.307	4748		20.131	136077	21.065	4587	
28.391	130581	28.395	190402		21.064	4634	26.002	43467	
37.968	22753	33.497	9917		26.004	128638			
		37.971	65873		26.305	4205			
					27.314	7782			
					28.389	13570			
					28.404	9079			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081607"		"M3081607"					"M3081607"		"M3081607"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.392	509637	28.392	490808				26.296	287578	26.297	230499	
31.525	6255	31.524	5628				28.402	4271	28.392	5115	
37.968	204726	33.498	7365				33.499	154678	33.501	65050	
42.721	4360	37.971	112334				37.974	5668	42.719	5411	
							42.736	24424	42.745	8129	
							42.756	26281			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081607"		"M3081607"			"M3081607"			"M3081607"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.296	287578	26.297	230499		17.546	214512		33.498	465127
28.402	4271	28.392	5115		20.130	9930		37.968	7069
33.499	154678	33.501	65050		26.006	19623		42.738	300337
37.974	5668	42.719	5411		26.298	137323			
42.736	24424	42.745	8129		27.304	280790			
42.756	26281				28.397	7814			
					33.489	36082			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081607"								"M3081607"		"M3081607"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.498	519745							28.392	509637	28.392	490808		
42.719	52295							31.525	6255	31.524	5628		
42.753	120649							37.968	204726	33.498	7365		
								42.721	4360	37.971	112334		

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081607"		"M3081607"			"M3081607"		"M3081607"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.392	509637	28.392	490808		20.131	249481	20.132	399857	
31.525	6255	31.524	5628		26.005	166748	26.005	272489	
37.968	204726	33.498	7365		26.284	5345	26.283	7274	
42.721	4360	37.971	112334		26.307	4748	26.307	7186	
					28.395	190402	28.391	130581	
					33.497	9917	37.968	22753	
					37.971	65873			

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081607"		"M3081607"			"M3081607"		"M3081607"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.970	685053	37.971	494844		33.498	465127	33.498	519745			
38.445	5820	38.447	4794		37.968	7069	42.719	52295			
42.759	15113				42.738	300337	42.753	120649			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081607"		"M3081607"				"M3081607"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.498	519745	33.498	465127				26.296	287578	
42.719	52295	37.968	7069				28.402	4271	
42.753	120649	42.738	300337				33.499	154678	
							37.974	5668	
							42.736	24424	
							42.756	26281	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081607"		"M3081607"		
m/z 464		m/z 466		m/z 425
37.970	685053	37.971	494844	
38.445	5820	38.447	4794	
42.759	15113			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081607"		"M3081607"				"M3081607"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.970	685053	37.971	494844			28.392	509637
38.445	5820	38.447	4794			31.525	6255
42.759	15113					37.968	204726
						42.721	4360

Extracted Ion Current Profiles

Decachlorobiphenyl											
"M3081607"		"M3081607"						"M3081607"		"M3081607"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.747	924415	42.743	800955					33.498	465127	33.498	519745
								37.968	7069	42.719	52295
								42.738	300337	42.753	120649

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081607"		"M3081607"				"M3081607"		"M3081607"			"M3081607"		"M3081607"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
12.014	35964	12.015	28494	424	240	34.358	285668	34.353	60439	188	9.605	199077	9.605	29209
		34.356	6013	426	241					189	13.509	7414	13.507	6397
				428							15.867	281493	15.869	46295
				430							17.102	28956	17.110	4595
				498										
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.725	920375	42.729	799856
512				

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081606.d
Lab Smp Id: iCAL-4 Client Smp ID: iCAL-4
Inj Date : 16-AUG-2011 14:11
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-4
Misc Info : RS M3081606
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 14:11 Cal File: M3081606.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.868	15.861	(1.000)	254255	0.80000	
* 13 Chrysene-d12	240	34.355	34.341	(1.000)	261470	0.80000	
1 Cl1	188	9.600	9.609	(0.279)	348132	1.00000	1.05
$ 2 Tetrachloro-m-xylene	244	12.016	12.014	(0.350)	63751	1.00000	1.05
3 Cl2	222	13.497	13.502	(0.393)	339463	1.00000	1.06
5 Cl3	256	17.095	17.088	(0.498)	300592	1.00000	1.06
6 Cl4	292	17.543	17.531	(0.511)	472316	2.00000	2.11
7 RTstd-BZ-104	326	20.133	20.120	(0.586)	707820	2.00000	2.08
8 Cl5	326	26.004	25.998	(0.757)	498730	2.00000	2.09
9 Cl6	360	26.301	26.296	(0.766)	528384	2.00000	2.13
10 RTstd-BZ-77	292	27.306	27.306	(0.795)	658523	2.00000	2.05
11 Cl7	394	28.388	28.383	(0.826)	907113	3.00000	3.10
12 Cl8	430	33.497	33.495	(0.975)	966917	3.00000	3.15
14 RTstd-BZ-208	464	37.981	37.956	(1.106)	1206464	4.00000	4.04
15 Cl10	498	42.753	42.728	(1.244)	1702128	5.00000	5.29
$ 16 Decachloro-13C12-Biphenyl	510	42.729	42.715	(1.244)	1691205	5.00000	5.40

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081606.d

Date : 16-AUG-2011 14:11

Client ID: iCAL-4

Instrument: GCMS03.i

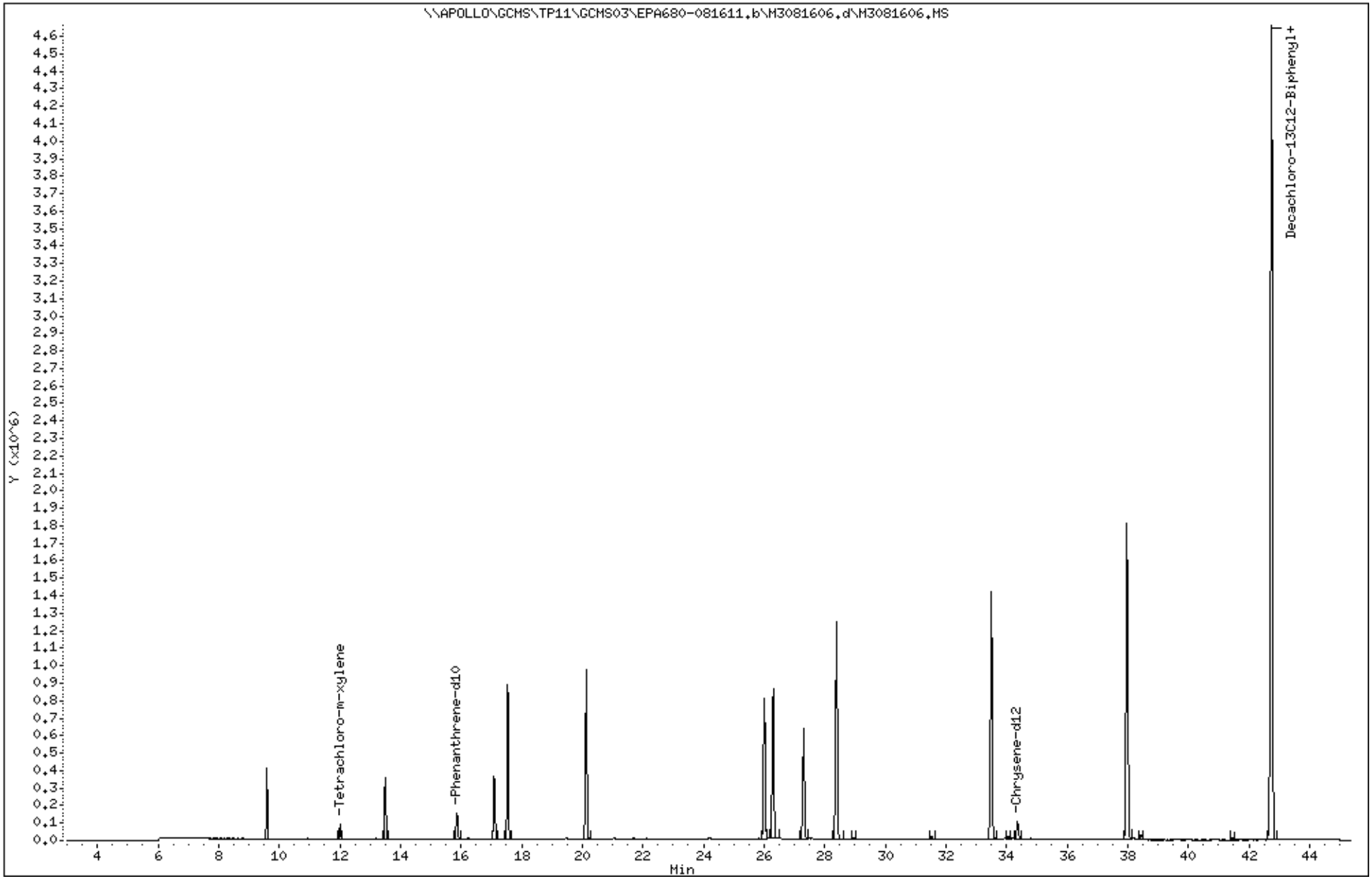
Sample Info: iCAL-4

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Monochlorobiphenyls							
"M3081606"		"M3081606"		"M3081606"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.598	351107	9.598	115123				
13.502	10832	15.874	4704				
15.865	258734						
17.104	51708						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081606"		"M3081606"		"M3081606"						"M3081606"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.504	340718	13.503	226598							9.598	351107
17.103	11272	17.551	37513							13.502	10832
17.549	194739	27.308	29782							15.865	258734
20.132	8559									17.104	51708
26.017	8679										
26.300	9402										
27.309	160377										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081606"		"M3081606"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.102	300976	17.100	297508		
17.540	46955	17.535	38739		
20.136	241747	20.130	78217		
21.063	8287	21.064	8026		
21.703	6063	21.701	5580		
26.007	234434	26.008	79888		
26.299	12622	27.306	4647		
27.302	6778				
27.321	5499				
28.388	33671				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081606"		"M3081606"				"M3081606"		"M3081606"		"M3081606"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.102	300976	17.100	297508			9.598	351107	20.131	440211	20.130	713515
17.540	46955	17.535	38739			13.502	10832	26.009	307260	26.006	495370
20.136	241747	20.130	78217			15.865	258734	26.299	20905	26.296	28794
21.063	8287	21.064	8026			17.104	51708	28.392	349855	28.392	223987
21.703	6063	21.701	5580					31.521	5504	37.981	41554
26.007	234434	26.008	79888					33.497	11167		
26.299	12622	27.306	4647					33.522	6520		
27.302	6778							34.058	4172		
27.321	5499							37.969	70959		
28.388	33671							37.994	51855		

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081606"		"M3081606"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.545	371005	17.546	479539				
				20.123	10026	20.136	14523				
				20.146	8487	24.204	6045				
				24.203	4030	26.001	39734				
				26.003	34254	26.301	122767				
				26.302	245930	27.307	663484				
				27.307	503353	28.384	6950				
				28.388	11869	33.505	16885				
				28.414	6192						
				33.473	17017						
				33.502	42374						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081606"		"M3081606"			"M3081606"		"M3081606"		"M3081606"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.546	479539	17.545	371005		13.504	340718	26.301	525879	26.299	418751	
20.136	14523	20.123	10026		17.103	11272	28.368	5183	28.379	6442	
24.204	6045	20.146	8487		17.549	194739	28.394	9897	28.940	5786	
26.001	39734	24.203	4030		20.132	8559	28.946	7030	33.498	117911	
26.301	122767	26.003	34254		26.017	8679	33.504	276125	42.727	10405	
27.307	663484	26.302	245930		26.300	9402	37.966	6298	42.766	17440	
28.384	6950	27.307	503353		27.309	160377	42.739	49006			
33.505	16885	28.388	11869				42.764	20775			
		28.414	6192				42.792	9207			
		33.473	17017								
		33.502	42374								

Tetrachlorobiphenyls						
	"M3081606"		"M3081606"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.131	440211	20.130	713515		
	26.009	307260	26.006	495370		
	26.299	20905	26.296	28794		
	28.392	349855	28.392	223987		
	31.521	5504	37.981	41554		
	33.497	11167				
	33.522	6520				
	34.058	4172				
	37.969	70959				
	37.994	51855				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081606"		"M3081606"			"M3081606"		"M3081606"		"M3081606"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.130	713515	20.131	440211		17.102	300976	17.100	297508	
26.006	495370	26.009	307260		17.540	46955	17.535	38739	
26.296	28794	26.299	20905		20.136	241747	20.130	78217	
28.392	223987	28.392	349855		21.063	8287	21.064	8026	
37.981	41554	31.521	5504		21.703	6063	21.701	5580	
		33.497	11167		26.007	234434	26.008	79888	
		33.522	6520		26.299	12622	27.306	4647	
		34.058	4172		27.302	6778			
		37.969	70959		27.321	5499			
		37.994	51855		28.388	33671			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081606"		"M3081606"					"M3081606"		"M3081606"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.392	900719	28.392	876246				26.301	525879	26.299	418751	
31.529	10979	31.519	10885				28.368	5183	28.379	6442	
33.509	13466	33.488	5481				28.394	9897	28.940	5786	
37.971	369334	33.511	7863				28.946	7030	33.498	117911	
42.727	6323	37.964	101330				33.504	276125	42.727	10405	
		37.998	75297				37.966	6298	42.766	17440	
							42.739	49006			
							42.764	20775			
							42.792	9207			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081606"		"M3081606"			"M3081606"			"M3081606"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.301	525879	26.299	418751		17.545	371005		33.500	845989
28.368	5183	28.379	6442		20.123	10026		33.948	5604
28.394	9897	28.940	5786		20.146	8487		34.800	4089
28.946	7030	33.498	117911		24.203	4030		37.987	6412
33.504	276125	42.727	10405		26.003	34254		42.704	45944
37.966	6298	42.766	17440		26.302	245930		42.754	346013
42.739	49006				27.307	503353		42.810	14827
42.764	20775				28.388	11869			
42.792	9207				28.414	6192			
					33.473	17017			
					33.502	42374			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081606"								"M3081606"		"M3081606"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.503	963568							28.392	900719	28.392	876246		
33.943	6329							31.529	10979	31.519	10885		
34.809	5222							33.509	13466	33.488	5481		
37.957	5666							37.971	369334	33.511	7863		
37.989	4707							42.727	6323	37.964	101330		
42.759	344687									37.998	75297		

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081606"		"M3081606"			"M3081606"		"M3081606"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.392	900719	28.392	876246		20.131	440211	20.130	713515	
31.529	10979	31.519	10885		26.009	307260	26.006	495370	
33.509	13466	33.488	5481		26.299	20905	26.296	28794	
37.971	369334	33.511	7863		28.392	349855	28.392	223987	
42.727	6323	37.964	101330		31.521	5504	37.981	41554	
		37.998	75297		33.497	11167			
					33.522	6520			
					34.058	4172			
					37.969	70959			
					37.994	51855			

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081606"		"M3081606"			"M3081606"		"M3081606"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.975	1217076	37.971	950472		33.500	845989	33.503	963568			
38.451	10565	38.446	7966		33.948	5604	33.943	6329			
42.753	47868	42.728	6343		34.800	4089	34.809	5222			
		42.754	5466		37.987	6412	37.957	5666			
					42.704	45944	37.989	4707			
					42.754	346013	42.759	344687			
					42.810	14827					

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081606"		"M3081606"				"M3081606"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.503	963568	33.500	845989				26.301	525879	
33.943	6329	33.948	5604				28.368	5183	
34.809	5222	34.800	4089				28.394	9897	
37.957	5666	37.987	6412				28.946	7030	
37.989	4707	42.704	45944				33.504	276125	
42.759	344687	42.754	346013				37.966	6298	
		42.810	14827				42.739	49006	
							42.764	20775	
							42.792	9207	

Octachlorobiphenyls				
"M3081606"		"M3081606"		
m/z 464		m/z 466		m/z 425
37.975	1217076	37.971	950472	
38.451	10565	38.446	7966	
42.753	47868	42.728	6343	
		42.754	5466	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081606"		"M3081606"				"M3081606"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.975	1217076	37.971	950472			28.392	900719
38.451	10565	38.446	7966			31.529	10979
42.753	47868	42.728	6343			33.509	13466
		42.754	5466			37.971	369334
						42.727	6323

Extracted Ion Current Profiles

Decachlorobiphenyl											
"M3081606"		"M3081606"						"M3081606"		"M3081606"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.750	1705809	42.750	1486688					33.500	845989	33.503	963568
								33.948	5604	33.943	6329
								34.800	4089	34.809	5222
								37.987	6412	37.957	5666
								42.704	45944	37.989	4707
								42.754	346013	42.759	344687
								42.810	14827		

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3081606"		"M3081606"				"M3081606"		"M3081606"			"M3081606"		"M3081606"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
12.010	62657	12.012	50005	424	240	34.359	268579	33.488	8803	188	9.598	351107	9.597	53909
				426	241			34.355	53138	189	13.502	10832	13.502	11440
				428							15.865	258734	15.860	40975
				430							17.104	51708	17.110	8081
				498										
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.735	1699624	42.733	1469928
512				

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081605.d
Lab Smp Id: iCAL-5 Client Smp ID: iCAL-5
Inj Date : 16-AUG-2011 13:22
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-5
Misc Info : RS M3081605
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 13:22 Cal File: M3081605.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.860	15.861	(1.000)	236832	0.80000	
* 13 Chrysene-d12	240	34.351	34.341	(1.000)	243665	0.80000	
1 Cl1	188	9.594	9.609	(0.279)	622305	2.00000	2.06
$ 2 Tetrachloro-m-xylene	244	12.009	12.014	(0.350)	120239	2.00000	2.17
3 Cl2	222	13.490	13.502	(0.393)	609149	2.00000	2.08
5 Cl3	256	17.104	17.088	(0.498)	545215	2.00000	2.11
6 Cl4	292	17.549	17.531	(0.511)	853210	4.00000	4.17
7 RTstd-BZ-104	326	20.125	20.120	(0.586)	1326625	4.00000	4.24
8 Cl5	326	26.009	25.998	(0.757)	918823	4.00000	4.19
9 Cl6	360	26.295	26.296	(0.765)	945639	4.00000	4.17
10 RTstd-BZ-77	292	27.310	27.306	(0.795)	1216472	4.00000	4.11
11 Cl7	394	28.392	28.383	(0.827)	1645920	6.00000	6.10
12 Cl8	430	33.503	33.495	(0.975)	1748120	6.00000	6.22
14 RTstd-BZ-208	464	37.988	37.956	(1.106)	2254226	8.00000	8.12
15 Cl10	498	42.769	42.728	(1.245)	3132411	10.0000	10.6
$ 16 Decachloro-13C12-Biphenyl	510	42.744	42.715	(1.244)	2925157	10.0000	10.5

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081605.d

Date : 16-AUG-2011 13:22

Client ID: iCAL-5

Instrument: GCMS03.i

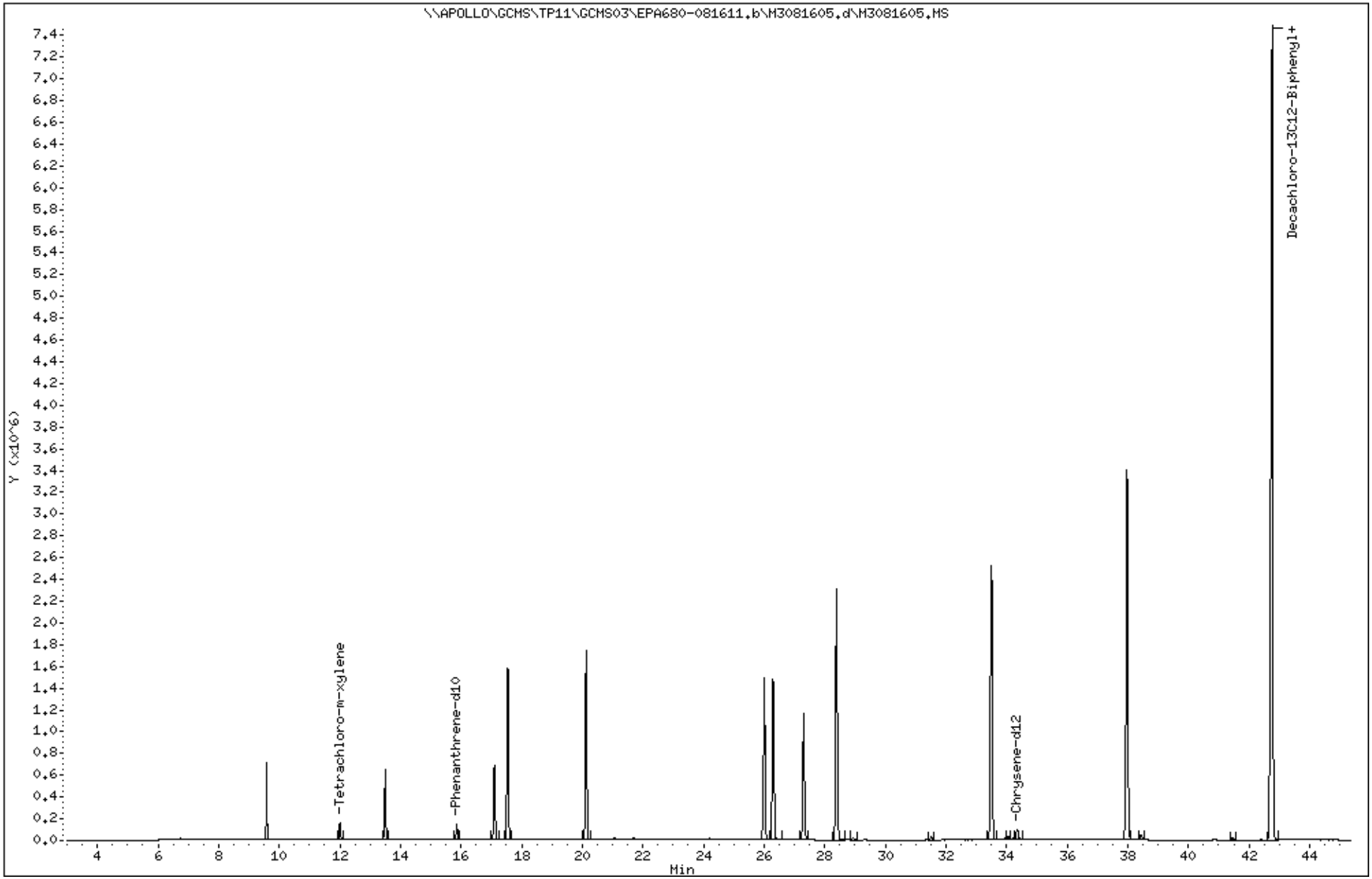
Sample Info: iCAL-5

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Monochlorobiphenyls							
"M3081605"		"M3081605"		"M3081605"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.591	634760	9.591	215177				
13.505	21815						
15.862	239118						
17.103	97759						
27.318	4118						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081605"		"M3081605"		"M3081605"						"M3081605"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.205	4711	13.500	404081							9.591	634760
13.499	623697	17.101	5540							13.505	21815
17.100	19418	17.546	67158							15.862	239118
17.545	372661	27.310	50306							17.103	97759
20.125	14199									27.318	4118
26.001	9786										
26.020	4814										
26.306	16767										
27.309	297321										

Dichlorobiphenyls					
"M3081605"		"M3081605"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.100	552988	17.100	533258		
17.551	85561	17.545	74405		
20.129	434130	20.127	145708		
21.059	15186	21.056	15016		
21.695	10764	21.700	10451		
26.008	432839	26.003	142536		
26.294	20424	27.312	6395		
27.297	23958	28.401	4563		
28.388	63511				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081605"		"M3081605"				"M3081605"		"M3081605"		"M3081605"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.100	552988	17.100	533258			9.591	634760	20.129	802386	20.131	1328828
17.551	85561	17.545	74405			13.505	21815	26.009	558484	26.010	919717
20.129	434130	20.127	145708			15.862	239118	26.303	31555	26.304	46921
21.059	15186	21.056	15016			17.103	97759	28.393	605207	28.397	410043
21.695	10764	21.700	10451			27.318	4118	31.518	10635	31.526	6905
26.008	432839	26.003	142536					33.506	28653	33.519	6224
26.294	20424	27.312	6395					34.050	6816	34.049	4768
27.297	23958	28.401	4563					37.986	229763	37.977	52990
28.388	63511									38.001	31220

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081605"		"M3081605"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.542	670443	17.544	876845				
				20.128	36525	20.121	34735				
				24.205	7880	24.205	10336				
				25.999	59704	26.009	72654				
				26.301	457673	26.296	223115				
				27.311	925586	27.312	1226763				
				27.628	5231	27.497	4268				
				28.370	9749	28.377	4755				
				28.396	16987	33.506	28905				
				28.430	4405						
				28.947	6733						
				33.502	117515						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081605"		"M3081605"			"M3081605"		"M3081605"		"M3081605"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.544	876845	17.542	670443		13.205	4711	26.300	942988	26.300	747014	
20.121	34735	20.128	36525		13.499	623697	27.622	4902	28.369	7260	
24.205	10336	24.205	7880		17.100	19418	28.403	27615	28.401	11365	
26.009	72654	25.999	59704		17.545	372661	28.935	12887	28.936	10217	
26.296	223115	26.301	457673		20.125	14199	29.329	4021	33.510	223995	
27.312	1226763	27.311	925586		26.001	9786	33.500	486832	37.955	4345	
27.497	4268	27.628	5231		26.020	4814	37.954	6395	37.989	8126	
28.377	4755	28.370	9749		26.306	16767	37.976	10644	42.773	44382	
33.506	28905	28.396	16987		27.309	297321	42.750	57484			
		28.430	4405				42.769	102558			
		28.947	6733								
		33.502	117515								

Tetrachlorobiphenyls						
	"M3081605"		"M3081605"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.129	802386	20.131	1328828		
	26.009	558484	26.010	919717		
	26.303	31555	26.304	46921		
	28.393	605207	28.397	410043		
	31.518	10635	31.526	6905		
	33.506	28653	33.519	6224		
	34.050	6816	34.049	4768		
	37.986	229763	37.977	52990		
			38.001	31220		

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081605"		"M3081605"			"M3081605"		"M3081605"		"M3081605"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.131	1328828	20.129	802386		17.100	552988	17.100	533258	
26.010	919717	26.009	558484		17.551	85561	17.545	74405	
26.304	46921	26.303	31555		20.129	434130	20.127	145708	
28.397	410043	28.393	605207		21.059	15186	21.056	15016	
31.526	6905	31.518	10635		21.695	10764	21.700	10451	
33.519	6224	33.506	28653		26.008	432839	26.003	142536	
34.049	4768	34.050	6816		26.294	20424	27.312	6395	
37.977	52990	37.986	229763		27.297	23958	28.401	4563	
38.001	31220				28.388	63511			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081605"		"M3081605"					"M3081605"		"M3081605"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.396	1646432	28.394	1590779				26.300	942988	26.300	747014	
31.515	19609	28.611	5069				27.622	4902	28.369	7260	
33.468	5121	31.514	19568				28.403	27615	28.401	11365	
33.492	17128	33.505	21907				28.935	12887	28.936	10217	
37.984	678206	37.988	325685				29.329	4021	33.510	223995	
38.453	5536	38.026	26033				33.500	486832	37.955	4345	
41.454	5419	42.772	12330				37.954	6395	37.989	8126	
42.734	16633						37.976	10644	42.773	44382	
42.759	13829						42.750	57484			
							42.769	102558			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081605"		"M3081605"			"M3081605"			"M3081605"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.300	942988	26.300	747014		17.542	670443		33.501	1535506
27.622	4902	28.369	7260		20.128	36525		33.935	5224
28.403	27615	28.401	11365		24.205	7880		34.797	5290
28.935	12887	28.936	10217		25.999	59704		37.978	16051
29.329	4021	33.510	223995		26.301	457673		42.687	14283
33.500	486832	37.955	4345		27.311	925586		42.730	184643
37.954	6395	37.989	8126		27.628	5231		42.765	394864
37.976	10644	42.773	44382		28.370	9749		42.806	50262
42.750	57484				28.396	16987			
42.769	102558				28.430	4405			
					28.947	6733			
					33.502	117515			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081605"								"M3081605"		"M3081605"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.503	1751280							28.396	1646432	28.394	1590779		
33.615	5464							31.515	19609	28.611	5069		
33.942	11538							33.468	5121	31.514	19568		
34.798	8348							33.492	17128	33.505	21907		
37.950	10012							37.984	678206	37.988	325685		
37.996	8804							38.453	5536	38.026	26033		
42.711	38650							41.454	5419	42.772	12330		
42.772	515763							42.734	16633				
								42.759	13829				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081605"		"M3081605"			"M3081605"		"M3081605"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.396	1646432	28.394	1590779		20.129	802386	20.131	1328828	
31.515	19609	28.611	5069		26.009	558484	26.010	919717	
33.468	5121	31.514	19568		26.303	31555	26.304	46921	
33.492	17128	33.505	21907		28.393	605207	28.397	410043	
37.984	678206	37.988	325685		31.518	10635	31.526	6905	
38.453	5536	38.026	26033		33.506	28653	33.519	6224	
41.454	5419	42.772	12330		34.050	6816	34.049	4768	
42.734	16633				37.986	229763	37.977	52990	
42.759	13829						38.001	31220	

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081605"		"M3081605"			"M3081605"		"M3081605"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.983	2254384	37.983	1696473		33.501	1535506	33.503	1751280			
38.434	9279	38.452	14938		33.935	5224	33.615	5464			
38.452	12278	42.757	6166		34.797	5290	33.942	11538			
42.707	7103	42.782	4463		37.978	16051	34.798	8348			
42.762	64278				42.687	14283	37.950	10012			
					42.730	184643	37.996	8804			
					42.765	394864	42.711	38650			
					42.806	50262	42.772	515763			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081605"		"M3081605"				"M3081605"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.503	1751280	33.501	1535506				26.300	942988	
33.615	5464	33.935	5224				27.622	4902	
33.942	11538	34.797	5290				28.403	27615	
34.798	8348	37.978	16051				28.935	12887	
37.950	10012	42.687	14283				29.329	4021	
37.996	8804	42.730	184643				33.500	486832	
42.711	38650	42.765	394864				37.954	6395	
42.772	515763	42.806	50262				37.976	10644	
							42.750	57484	
							42.769	102558	

Octachlorobiphenyls				
"M3081605"		"M3081605"		
m/z 464		m/z 466		m/z 425
37.983	2254384	37.983	1696473	
38.434	9279	38.452	14938	
38.452	12278	42.757	6166	
42.707	7103	42.782	4463	
42.762	64278			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081605"		"M3081605"				"M3081605"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.983	2254384	37.983	1696473			28.396	1646432
38.434	9279	38.452	14938			31.515	19609
38.452	12278	42.757	6166			33.468	5121
42.707	7103	42.782	4463			33.492	17128
42.762	64278					37.984	678206
						38.453	5536
						41.454	5419
						42.734	16633
						42.759	13829

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081605"		"M3081605"				"M3081605"		"M3081605"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.771	3123915	42.659	4112			33.501	1535506	33.503	1751280
		42.719	325587			33.935	5224	33.615	5464
		42.770	2044195			34.797	5290	33.942	11538
						37.978	16051	34.798	8348
						42.687	14283	37.950	10012
						42.730	184643	37.996	8804
						42.765	394864	42.711	38650
						42.806	50262	42.772	515763

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081605"		"M3081605"				"M3081605"		"M3081605"			"M3081605"		"M3081605"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
12.005	119062	12.006	88478	424	240	33.482	5134	12.008	6733	188	9.591	634760	9.591	92914
		28.398	5684	426	241	34.355	248641	28.378	4202	189	13.505	21815	13.497	19578
				428		37.979	10982	33.495	18386		15.862	239118	15.863	38844
				430				34.354	50051		17.103	97759	17.104	14618
				498							27.318	4118		
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.751	2916913	42.745	2370225(M(
512				

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081604.d
Lab Smp Id: iCAL-6 Client Smp ID: iCAL-6
Inj Date : 16-AUG-2011 12:33
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-6
Misc Info : RS M3081604
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 12:33 Cal File: M3081604.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.853	15.861	(1.000)	213394	0.80000	
* 13 Chrysene-d12	240	34.358	34.341	(1.000)	223062	0.80000	
1 Cl1	188	9.580	9.609	(0.279)	832263	3.00000	3.01
$ 2 Tetrachloro-m-xylene	244	11.999	12.014	(0.349)	146200	3.00000	2.88
3 Cl2	222	13.498	13.502	(0.393)	796465	3.00000	2.98
5 Cl3	256	17.094	17.088	(0.498)	689218	3.00000	2.92
6 Cl4	292	17.542	17.531	(0.511)	1120669	6.00000	5.98
7 RTstd-BZ-104	326	20.131	20.120	(0.586)	1663991	6.00000	5.81
8 Cl5	326	26.017	25.998	(0.757)	1180424	6.00000	5.88
9 Cl6	360	26.301	26.296	(0.766)	1210628	6.00000	5.83
10 RTstd-BZ-77	292	27.309	27.306	(0.795)	1600365	6.00000	5.91
11 Cl7	394	28.400	28.383	(0.827)	2196373	9.00000	8.90
12 Cl8	430	33.509	33.495	(0.975)	2264335	9.00000	8.81
14 RTstd-BZ-208	464	37.993	37.956	(1.106)	2963133	12.0000	11.7
15 Cl10	498	42.787	42.728	(1.245)	3778361	15.0000	14.0
$ 16 Decachloro-13C12-Biphenyl	510	42.762	42.715	(1.245)	3668989	15.0000	14.4

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081604.d

Date : 16-AUG-2011 12:33

Client ID: iCAL-6

Instrument: GCMS03.i

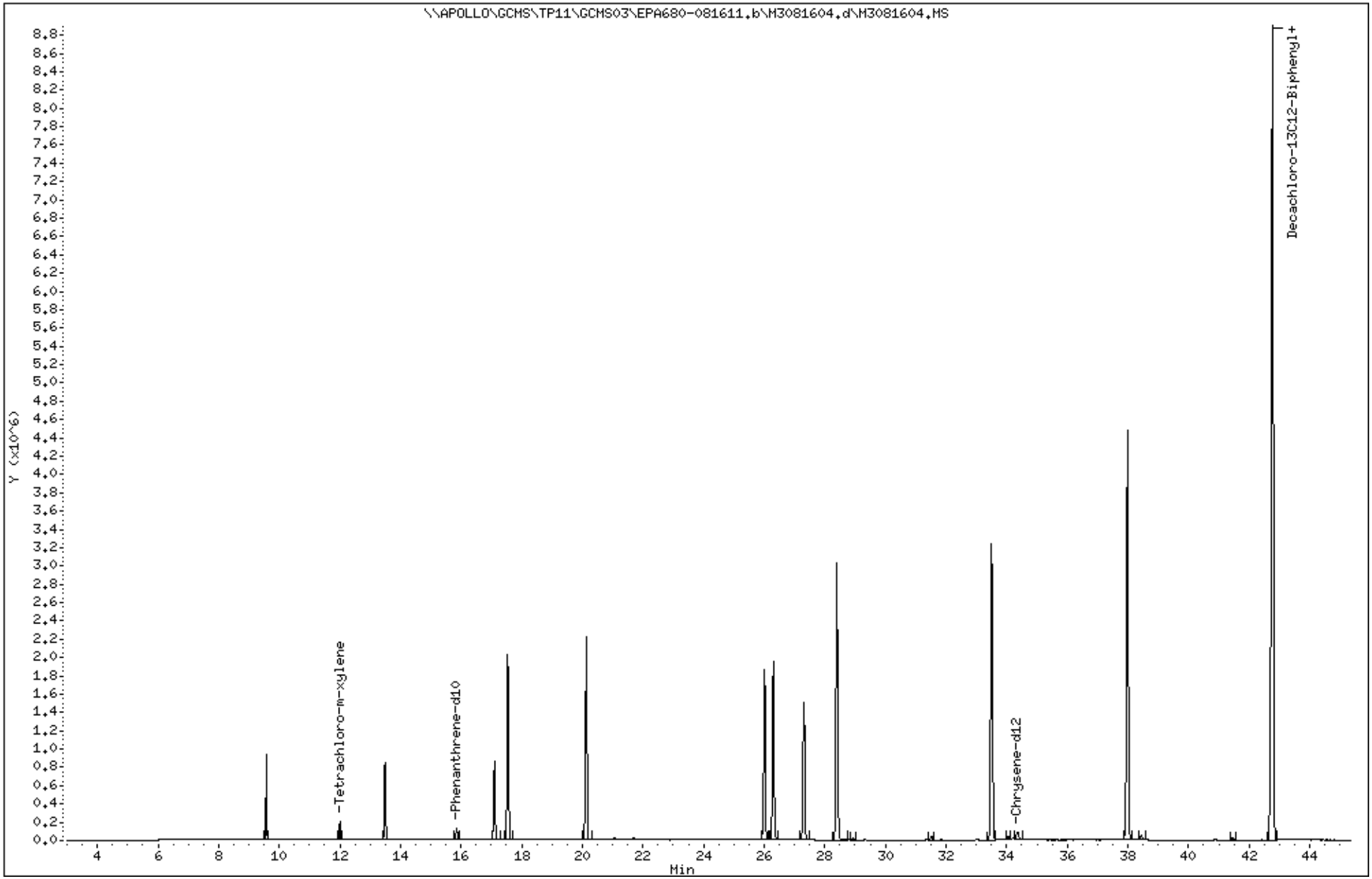
Sample Info: iCAL-6

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Monochlorobiphenyls							
"M3081604"		"M3081604"		"M3081604"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.579	842878	9.579	266615				
13.497	27104	13.494	4304				
15.857	215058						
17.103	124053						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081604"		"M3081604"		"M3081604"						"M3081604"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.199	6038	13.496	517781							9.579	842878
13.495	805105	17.105	8918							13.497	27104
17.098	24153	17.543	83072							15.857	215058
17.546	457605	27.306	61595							17.103	124053
20.121	19228										
25.995	8667										
26.021	10070										
26.308	22531										
27.314	380540										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081604"		"M3081604"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.096	702542	17.097	693053		
17.546	113373	17.535	90325		
20.133	571002	20.126	187533		
21.058	20135	21.062	19915		
21.694	14479	21.701	13342		
26.011	565550	26.011	196027		
26.301	19053	27.308	12309		
26.327	9543				
27.278	5006				
27.300	8905				
27.322	14977				
28.409	87908				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081604"		"M3081604"				"M3081604"		"M3081604"		"M3081604"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.096	702542	17.097	693053			9.579	842878	20.132	1049916	20.132	1660740
17.546	113373	17.535	90325			13.497	27104	26.009	747041	22.094	4059
20.133	571002	20.126	187533			15.857	215058	26.311	44636	26.012	1176876
21.058	20135	21.062	19915			17.103	124053	28.406	819164	26.281	22347
21.694	14479	21.701	13342					31.520	13532	26.309	40890
26.011	565550	26.011	196027					33.462	5300	28.399	524729
26.301	19053	27.308	12309					33.517	36926	31.521	9281
26.327	9543							34.052	9184	33.502	7581
27.278	5006							37.984	193416	33.518	8368
27.300	8905							38.006	126364	34.054	6181
27.322	14977									37.971	46754
28.409	87908									37.995	60236

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081604"		"M3081604"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.541	866009	17.543	1138825				
				20.120	20979	20.132	38447				
				20.143	19956	24.203	14033				
				24.199	10302	26.020	92893				
				26.018	82420	26.307	291662				
				26.304	587182	27.314	1596430				
				27.316	1222502	27.617	7502				
				27.627	6596	28.396	9438				
				28.402	46293	28.935	5057				
				28.942	8940	33.496	22166				
				33.489	63519	33.533	12509				
				33.509	90799						
				37.984	5605						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081604"		"M3081604"			"M3081604"		"M3081604"		"M3081604"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.543	1138825	17.541	866009		13.199	6038	26.306	1208303	26.301	960668	
20.132	38447	20.120	20979		13.495	805105	27.621	6766	27.620	5113	
24.203	14033	20.143	19956		17.098	24153	28.397	38820	28.386	14390	
26.020	92893	24.199	10302		17.546	457605	28.940	16196	28.411	11607	
26.307	291662	26.018	82420		20.121	19228	29.334	5529	28.939	13826	
27.314	1596430	26.304	587182		25.995	8667	33.503	355414	29.324	4344	
27.617	7502	27.316	1222502		26.021	10070	33.516	284383	33.507	283603	
28.396	9438	27.627	6596		26.308	22531	37.957	9038	42.760	21855	
28.935	5057	28.402	46293		27.314	380540	37.981	12483	42.797	19916	
33.496	22166	28.942	8940				38.018	5714			
33.533	12509	33.489	63519				42.765	90938			
		33.509	90799				42.786	132351			
		37.984	5605								

Tetrachlorobiphenyls								
	"M3081604"		"M3081604"					
m/z 288	m/z 324		m/z 326		m/z 328		m/z 289	
	20.132	1049916	20.132	1660740				
	26.009	747041	22.094	4059				
	26.311	44636	26.012	1176876				
	28.406	819164	26.281	22347				
	31.520	13532	26.309	40890				
	33.462	5300	28.399	524729				
	33.517	36926	31.521	9281				
	34.052	9184	33.502	7581				
	37.984	193416	33.518	8368				
	38.006	126364	34.054	6181				
			37.971	46754				
			37.995	60236				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081604"		"M3081604"			"M3081604"		"M3081604"		"M3081604"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.132	1660740	20.132	1049916		17.096	702542	17.097	693053	
22.094	4059	26.009	747041		17.546	113373	17.535	90325	
26.012	1176876	26.311	44636		20.133	571002	20.126	187533	
26.281	22347	28.406	819164		21.058	20135	21.062	19915	
26.309	40890	31.520	13532		21.694	14479	21.701	13342	
28.399	524729	33.462	5300		26.011	565550	26.011	196027	
31.521	9281	33.517	36926		26.301	19053	27.308	12309	
33.502	7581	34.052	9184		26.327	9543			
33.518	8368	37.984	193416		27.278	5006			
34.054	6181	38.006	126364		27.300	8905			
37.971	46754				27.322	14977			
37.995	60236				28.409	87908			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081604"		"M3081604"					"M3081604"		"M3081604"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.401	2194113	28.402	2042434				26.306	1208303	26.301	960668	
28.546	7516	31.520	25310				27.621	6766	27.620	5113	
31.519	26145	33.472	7404				28.397	38820	28.386	14390	
33.496	21465	33.498	5346				28.940	16196	28.411	11607	
33.524	13484	33.520	11363				29.334	5529	28.939	13826	
37.992	865915	37.991	493281				33.503	355414	29.324	4344	
38.448	6421	42.735	7582				33.516	284383	33.507	283603	
41.458	6993	42.785	14302				37.957	9038	42.760	21855	
42.775	10680						37.981	12483	42.797	19916	
42.814	4063						38.018	5714			
							42.765	90938			
							42.786	132351			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081604"		"M3081604"			"M3081604"			"M3081604"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.306	1208303	26.301	960668		17.541	866009		33.508	2025063
27.621	6766	27.620	5113		20.120	20979		33.938	14055
28.397	38820	28.386	14390		20.143	19956		34.797	9203
28.940	16196	28.411	11607		24.199	10302		38.003	30569
29.334	5529	28.939	13826		26.018	82420		42.737	200863
33.503	355414	29.324	4344		26.304	587182		42.779	817223
33.516	284383	33.507	283603		27.316	1222502		42.850	4925
37.957	9038	42.760	21855		27.627	6596			
37.981	12483	42.797	19916		28.402	46293			
38.018	5714				28.942	8940			
42.765	90938				33.489	63519			
42.786	132351				33.509	90799			
					37.984	5605			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081604"								"M3081604"		"M3081604"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.038	4351							28.401	2194113	28.402	2042434		
33.506	2291157							28.546	7516	31.520	25310		
33.714	5018							31.519	26145	33.472	7404		
33.945	17201							33.496	21465	33.498	5346		
34.792	11357							33.524	13484	33.520	11363		
37.960	10629							37.992	865915	37.991	493281		
38.008	18175							38.448	6421	42.735	7582		
42.727	66893							41.458	6993	42.785	14302		
42.788	562919							42.775	10680				
42.838	7668							42.814	4063				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081604"		"M3081604"			"M3081604"		"M3081604"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.401	2194113	28.402	2042434		20.132	1049916	20.132	1660740	
28.546	7516	31.520	25310		26.009	747041	22.094	4059	
31.519	26145	33.472	7404		26.311	44636	26.012	1176876	
33.496	21465	33.498	5346		28.406	819164	26.281	22347	
33.524	13484	33.520	11363		31.520	13532	26.309	40890	
37.992	865915	37.991	493281		33.462	5300	28.399	524729	
38.448	6421	42.735	7582		33.517	36926	31.521	9281	
41.458	6993	42.785	14302		34.052	9184	33.502	7581	
42.775	10680				37.984	193416	33.518	8368	
42.814	4063				38.006	126364	34.054	6181	
							37.971	46754	
							37.995	60236	

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081604"		"M3081604"			"M3081604"		"M3081604"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.991	2989185	37.992	2248872		33.508	2025063	33.038	4351			
38.150	6198	38.452	19774		33.938	14055	33.506	2291157			
38.448	27599	42.750	4274		34.797	9203	33.714	5018			
42.781	71935	42.788	10592		38.003	30569	33.945	17201			
42.813	16556				42.737	200863	34.792	11357			
					42.779	817223	37.960	10629			
					42.850	4925	38.008	18175			
							42.727	66893			
							42.788	562919			
							42.838	7668			

Extracted Ion Current Profiles

Octachlorobiphenyls											
"M3081604"		"M3081604"						"M3081604"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462	
33.038	4351	33.508	2025063					26.306	1208303		
33.506	2291157	33.938	14055					27.621	6766		
33.714	5018	34.797	9203					28.397	38820		
33.945	17201	38.003	30569					28.940	16196		
34.792	11357	42.737	200863					29.334	5529		
37.960	10629	42.779	817223					33.503	355414		
38.008	18175	42.850	4925					33.516	284383		
42.727	66893							37.957	9038		
42.788	562919							37.981	12483		
42.838	7668							38.018	5714		
								42.765	90938		
								42.786	132351		

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081604"		"M3081604"		
m/z 464		m/z 466		m/z 425
37.991	2989185	37.992	2248872	
38.150	6198	38.452	19774	
38.448	27599	42.750	4274	
42.781	71935	42.788	10592	
42.813	16556			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081604"		"M3081604"				"M3081604"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.991	2989185	37.992	2248872			28.401	2194113
38.150	6198	38.452	19774			28.546	7516
38.448	27599	42.750	4274			31.519	26145
42.781	71935	42.788	10592			33.496	21465
42.813	16556					33.524	13484
						37.992	865915
						38.448	6421
						41.458	6993
						42.775	10680
						42.814	4063

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081604"		"M3081604"				"M3081604"		"M3081604"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.784	3799804	42.784	3313184					33.508	2025063	33.038	4351
								33.938	14055	33.506	2291157
								34.797	9203	33.714	5018
								38.003	30569	33.945	17201
								42.737	200863	34.792	11357
								42.779	817223	37.960	10629
								42.850	4925	38.008	18175
										42.727	66893
										42.788	562919
										42.838	7668

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081604"		"M3081604"				"M3081604"		"M3081604"			"M3081604"		"M3081604"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.999	148549	12.000	116702	424	240	34.357	226964	11.998	8837	188	9.579	842878	9.581	118187
		28.398	8173	426	241			28.398	4194	189	13.497	27104	13.497	24872
		33.514	4661	428				33.508	22105		15.857	215058	15.852	31922
				430				34.359	45492		17.103	124053	17.087	9491
				498				37.986	5882				17.104	6390
				500				38.006	5588					

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.764	3690578	42.763	3149614
512	42.876	5352		

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081603.d
Lab Smp Id: iCAL-7 Client Smp ID: iCAL-7
Inj Date : 16-AUG-2011 11:44
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-7
Misc Info : RS M3081603
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 11:44 Cal File: M3081603.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.869	15.861	(1.000)	169526	0.80000	
* 13 Chrysene-d12	240	34.372	34.341	(1.000)	182856	0.80000	
1 Cl1	188	9.617	9.609	(0.280)	1099169	5.00000	4.84
$ 2 Tetrachloro-m-xylene	244	12.030	12.014	(0.350)	198525	5.00000	4.77
3 Cl2	222	13.513	13.502	(0.393)	1059953	5.00000	4.83
5 Cl3	256	17.122	17.088	(0.498)	942726	5.00000	4.86
6 Cl4	292	17.568	17.531	(0.511)	1479346	10.0000	9.62
7 RTstd-BZ-104	326	20.144	20.120	(0.586)	2278304	10.0000	9.71
8 Cl5	326	26.022	25.998	(0.757)	1599139	10.0000	9.72
9 Cl6	360	26.319	26.296	(0.766)	1679725	10.0000	9.87
10 RTstd-BZ-77	292	27.338	27.306	(0.795)	2194274	10.0000	9.88
11 Cl7	394	28.419	28.383	(0.827)	3015819	15.0000	14.9
12 Cl8	430	33.526	33.495	(0.975)	3111831	15.0000	14.8
14 RTstd-BZ-208	464	38.006	37.956	(1.106)	4215477	20.0000	20.2(A)
15 Cl10	498	42.790	42.728	(1.245)	5521167	25.0000	25.0(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081603.d

Date : 16-AUG-2011 11:44

Client ID: iCAL-7

Instrument: GCMS03.i

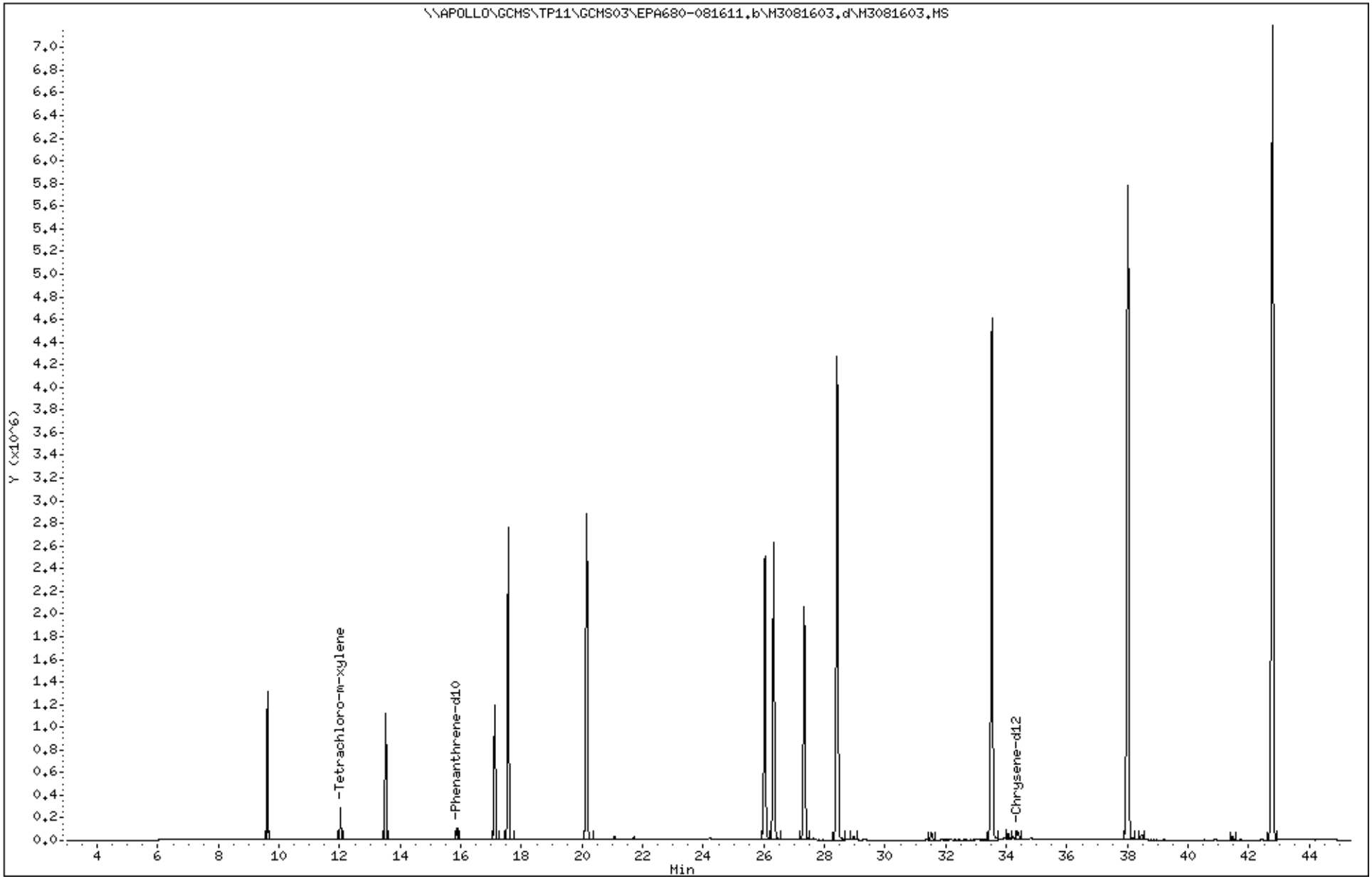
Sample Info: iCAL-7

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Monochlorobiphenyls							
"M3081603"		"M3081603"		"M3081603"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.616	1132983	9.617	368529				
13.521	30968						
15.875	172144						
17.121	166663						
21.075	4700						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081603"		"M3081603"		"M3081603"						"M3081603"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.222	8261	13.223	5541							9.616	1132983
13.520	1080564	13.521	698180							13.521	30968
17.117	34002	17.115	11277							15.875	172144
17.567	620416	17.566	113741							17.121	166663
20.153	21064	27.338	95372							21.075	4700
24.214	4997										
26.019	25930										
26.316	32347										
27.335	533431										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081603"		"M3081603"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.117	968432	17.119	944126		
17.560	137435	17.560	118074		
20.148	719038	20.148	262965		
21.074	27722	21.073	27369		
21.706	19034	21.709	18957		
26.033	743930	26.033	253051		
26.298	13520	26.318	4467		
26.321	21638	27.301	5444		
27.317	17328	27.338	10434		
27.347	24422	28.411	10109		
28.423	126475	28.432	7940		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081603"		"M3081603"				"M3081603"		"M3081603"		"M3081603"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.117	968432	17.119	944126			9.616	1132983	20.149	1424615	20.150	2290498
17.560	137435	17.560	118074			13.521	30968	26.032	1004679	22.110	5328
20.148	719038	20.148	262965			15.875	172144	26.313	34908	26.029	1596867
21.074	27722	21.073	27369			17.121	166663	26.329	29764	26.159	6968
21.706	19034	21.709	18957			21.075	4700	28.418	1139911	26.318	85726
26.033	743930	26.033	253051					31.526	19757	28.419	720508
26.298	13520	26.318	4467					33.504	27618	31.532	12946
26.321	21638	27.301	5444					33.539	23786	33.522	29063
27.317	17328	27.338	10434					34.058	12831	34.059	9247
27.347	24422	28.411	10109					34.214	5243	34.210	4170
28.423	126475	28.432	7940					37.997	216463	37.950	8756
								38.019	195369	38.015	109192
								38.467	4155		

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081603"		"M3081603"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.564	1186720	17.566	1503651				
				20.147	55815	20.151	62977				
				24.214	14332	24.217	18924				
				26.030	95430	26.025	120912				
				26.323	795877	26.321	380055				
				27.336	1676255	27.336	2187982				
				27.624	11193	27.524	5885				
				28.414	45757	27.634	7645				
				28.445	15189	28.394	8282				
				28.948	12307	28.429	11492				
				33.526	232045	28.951	6899				
				38.007	7007	33.513	38635				
						33.552	14967				

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081603"		"M3081603"			"M3081603"		"M3081603"		"M3081603"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.566	1503651	17.564	1186720		13.222	8261	25.860	4849	26.320	1316916	
20.151	62977	20.147	55815		13.520	1080564	26.320	1678394	27.632	7349	
24.217	18924	24.214	14332		17.117	34002	26.518	4904	28.385	8683	
26.025	120912	26.030	95430		17.567	620416	27.630	8758	28.417	18498	
26.321	380055	26.323	795877		20.153	21064	28.386	14200	28.437	7442	
27.336	2187982	27.336	1676255		24.214	4997	28.416	39060	28.950	19322	
27.524	5885	27.624	11193		26.019	25930	28.949	23333	29.335	6399	
27.634	7645	28.414	45757		26.316	32347	29.336	8000	33.517	233668	
28.394	8282	28.445	15189		27.335	533431	33.525	907384	33.539	171187	
28.429	11492	28.948	12307				33.956	5197	42.732	6361	
28.951	6899	33.526	232045				37.956	4388	42.758	30107	
33.513	38635	38.007	7007				37.986	38880	42.772	16657	
33.552	14967						42.759	105701	42.801	27904	
							42.788	191549			

Tetrachlorobiphenyls					
	"M3081603"		"M3081603"		
m/z 288	m/z 324		m/z 326	m/z 328	m/z 289
	20.149	1424615	20.150	2290498	
	26.032	1004679	22.110	5328	
	26.313	34908	26.029	1596867	
	26.329	29764	26.159	6968	
	28.418	1139911	26.318	85726	
	31.526	19757	28.419	720508	
	33.504	27618	31.532	12946	
	33.539	23786	33.522	29063	
	34.058	12831	34.059	9247	
	34.214	5243	34.210	4170	
	37.997	216463	37.950	8756	
	38.019	195369	38.015	109192	
	38.467	4155			

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081603"		"M3081603"			"M3081603"		"M3081603"		"M3081603"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.150	2290498	20.149	1424615		17.117	968432	17.119	944126	
22.110	5328	26.032	1004679		17.560	137435	17.560	118074	
26.029	1596867	26.313	34908		20.148	719038	20.148	262965	
26.159	6968	26.329	29764		21.074	27722	21.073	27369	
26.318	85726	28.418	1139911		21.706	19034	21.709	18957	
28.419	720508	31.526	19757		26.033	743930	26.033	253051	
31.532	12946	33.504	27618		26.298	13520	26.318	4467	
33.522	29063	33.539	23786		26.321	21638	27.301	5444	
34.059	9247	34.058	12831		27.317	17328	27.338	10434	
34.210	4170	34.214	5243		27.347	24422	28.411	10109	
37.950	8756	37.997	216463		28.423	126475	28.432	7940	
38.015	109192	38.019	195369						
		38.467	4155						

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081603"		"M3081603"					"M3081603"		"M3081603"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.420	2988029	28.422	2924268				25.860	4849	26.320	1316916	
28.541	13747	28.567	6524				26.320	1678394	27.632	7349	
31.364	4520	31.527	35018				26.518	4904	28.385	8683	
31.524	37403	33.525	25882				27.630	8758	28.417	18498	
33.515	26201	33.552	7353				28.386	14200	28.437	7442	
33.542	19749	38.015	622201				28.416	39060	28.950	19322	
38.015	1150685	38.068	9282				28.949	23333	29.335	6399	
38.068	20375	38.468	4980				29.336	8000	33.517	233668	
38.463	11625	41.468	5066				33.525	907384	33.539	171187	
41.474	9439	42.774	14487				33.956	5197	42.732	6361	
42.739	8291						37.956	4388	42.758	30107	
42.767	12359						37.986	38880	42.772	16657	
42.794	18592						42.759	105701	42.801	27904	
							42.788	191549			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081603"		"M3081603"			"M3081603"			"M3081603"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
25.860	4849	26.320	1316916		17.564	1186720		33.043	5059
26.320	1678394	27.632	7349		20.147	55815		33.524	2837395
26.518	4904	28.385	8683		24.214	14332		33.620	4389
27.630	8758	28.417	18498		26.030	95430		33.657	5188
28.386	14200	28.437	7442		26.323	795877		33.694	6627
28.416	39060	28.950	19322		27.336	1676255		33.764	4976
28.949	23333	29.335	6399		27.624	11193		33.818	5814
29.336	8000	33.517	233668		28.414	45757		33.949	18267
33.525	907384	33.539	171187		28.445	15189		34.804	13319
33.956	5197	42.732	6361		28.948	12307		37.970	8175
37.956	4388	42.758	30107		33.526	232045		38.011	23603
37.986	38880	42.772	16657		38.007	7007		42.751	512094
42.759	105701	42.801	27904					42.798	740914
42.788	191549							42.848	15147

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081603"								"M3081603"		"M3081603"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.048	5792							28.420	2988029	28.422	2924268		
33.524	3142906							28.541	13747	28.567	6524		
33.670	5918							31.364	4520	31.527	35018		
33.721	9148							31.524	37403	33.525	25882		
33.954	23975							33.515	26201	33.552	7353		
34.145	4020							33.542	19749	38.015	622201		
34.809	15661							38.015	1150685	38.068	9282		
38.003	46725							38.068	20375	38.468	4980		
42.721	55589							38.463	11625	41.468	5066		
42.789	907937							41.474	9439	42.774	14487		
42.834	34523							42.739	8291				
								42.767	12359				
								42.794	18592				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081603"		"M3081603"			"M3081603"		"M3081603"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.420	2988029	28.422	2924268		20.149	1424615	20.150	2290498	
28.541	13747	28.567	6524		26.032	1004679	22.110	5328	
31.364	4520	31.527	35018		26.313	34908	26.029	1596867	
31.524	37403	33.525	25882		26.329	29764	26.159	6968	
33.515	26201	33.552	7353		28.418	1139911	26.318	85726	
33.542	19749	38.015	622201		31.526	19757	28.419	720508	
38.015	1150685	38.068	9282		33.504	27618	31.532	12946	
38.068	20375	38.468	4980		33.539	23786	33.522	29063	
38.463	11625	41.468	5066		34.058	12831	34.059	9247	
41.474	9439	42.774	14487		34.214	5243	34.210	4170	
42.739	8291				37.997	216463	37.950	8756	
42.767	12359				38.019	195369	38.015	109192	
42.794	18592				38.467	4155			

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081603"		"M3081603"			"M3081603"		"M3081603"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
38.010	4245675	38.010	3135583		33.043	5059	33.048	5792			
38.129	5588	38.129	4017		33.524	2837395	33.524	3142906			
38.166	4480	38.468	27926		33.620	4389	33.670	5918			
38.203	6629	41.450	8189		33.657	5188	33.721	9148			
38.317	4237	42.751	24825		33.694	6627	33.954	23975			
38.461	37238	42.799	14226		33.764	4976	34.145	4020			
42.766	78808				33.818	5814	34.809	15661			
42.787	42462				33.949	18267	38.003	46725			
42.815	20371				34.804	13319	42.721	55589			
					37.970	8175	42.789	907937			
					38.011	23603	42.834	34523			
					42.751	512094					
					42.798	740914					
					42.848	15147					

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081603"		"M3081603"				"M3081603"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.048	5792	33.043	5059				25.860	4849	
33.524	3142906	33.524	2837395				26.320	1678394	
33.670	5918	33.620	4389				26.518	4904	
33.721	9148	33.657	5188				27.630	8758	
33.954	23975	33.694	6627				28.386	14200	
34.145	4020	33.764	4976				28.416	39060	
34.809	15661	33.818	5814				28.949	23333	
38.003	46725	33.949	18267				29.336	8000	
42.721	55589	34.804	13319				33.525	907384	
42.789	907937	37.970	8175				33.956	5197	
42.834	34523	38.011	23603				37.956	4388	
		42.751	512094				37.986	38880	
		42.798	740914				42.759	105701	
		42.848	15147				42.788	191549	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081603"		"M3081603"		
m/z 464		m/z 466		m/z 425
38.010	4245675	38.010	3135583	
38.129	5588	38.129	4017	
38.166	4480	38.468	27926	
38.203	6629	41.450	8189	
38.317	4237	42.751	24825	
38.461	37238	42.799	14226	
42.766	78808			
42.787	42462			
42.815	20371			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081603"		"M3081603"				"M3081603"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
38.010	4245675	38.010	3135583			28.420	2988029
38.129	5588	38.129	4017			28.541	13747
38.166	4480	38.468	27926			31.364	4520
38.203	6629	41.450	8189			31.524	37403
38.317	4237	42.751	24825			33.515	26201
38.461	37238	42.799	14226			33.542	19749
42.766	78808					38.015	1150685
42.787	42462					38.068	20375
42.815	20371					38.463	11625
						41.474	9439
						42.739	8291
						42.767	12359
						42.794	18592

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081603"		"M3081603"				"M3081603"		"M3081603"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.787	5561763	42.788	4739958			33.043	5059	33.048	5792
42.914	11153					33.524	2837395	33.524	3142906
43.028	5432					33.620	4389	33.670	5918
						33.657	5188	33.721	9148
						33.694	6627	33.954	23975
						33.764	4976	34.145	4020
						33.818	5814	34.809	15661
						33.949	18267	38.003	46725
						34.804	13319	42.721	55589
						37.970	8175	42.789	907937
						38.011	23603	42.834	34523
						42.751	512094		
						42.798	740914		
						42.848	15147		

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3081603"		"M3081603"				"M3081603"		"M3081603"			"M3081603"		"M3081603"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
12.027	200884	12.027	160808	424	240	34.367	188898	12.026	11596	188	9.616	1132983	9.615	166273
		28.411	5397	426	241	38.007	4946	28.412	16290	189	13.521	30968	13.525	33008
		28.441	9045	428				33.480	4753		15.875	172144	15.874	28321
				430				33.525	19647		17.121	166663	17.124	24467
				498				34.370	40544		21.075	4700		
				500				37.992	6664					

Extracted Ion Current Profiles

	Deca C13	
Deca C13	m/z 510	m/z 512

510
512

Standards Summary Tables

7B
EPA 680 Continuing Calibration Data

NEA - A Divison of Pace

SDG No.: 11120209

Instrument ID:	GCMS03	Calibration Date:	12/21/2011	Time:	13:06
Lab File ID:	M3122103	Start Cal Date:	3/18/2010	Time:	22:53
Client ID:	CCV3-1221A	End Cal Date:	3/19/2011	Time:	04:01
GC Column:	DB-XLB				

NEA File ID: S:\Lab Data\GCMS-SV\EPA-680\PACE_LRF11120209\[CCV3-1221B.xls]Sheet1

COMPOUND	Average RRF	CCV RRF	MIN RRF	%D	MAX %D
1 Cl1	1.120	1.107	0.005	-1.11	20
$ 2 Tetrachloro-m-xylene	0.204	0.184	0.005	-9.66	20
3 Cl2	1.103	1.033	0.005	-6.35	20
5 Cl3	0.939	0.892	0.005	-4.95	20
6 Cl4	0.775	0.685	0.005	-11.6	20
8 Cl5	0.778	0.706	0.005	-9.22	20
9 Cl6	0.796	0.751	0.005	-5.68	20
11 Cl7	0.943	0.857	0.005	-9.11	20
13 Cl8	1.020	0.887	0.005	-13.1	20
17 Cl10	1.029	0.861	0.005	-16.4	20
$ 13C-DCBP	1.017	0.920	0.005	-9.55	20

FORM VII-CLP-EPA 680-1

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\M3122103.d
Lab Smp Id: CCV3-1221A Client Smp ID: CCV3-1221A
Inj Date : 21-DEC-2011 13:06
Operator : RMS Inst ID: GCMS03.i
Smp Info : CCV3-1221A
Misc Info : RS M3122103
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\680low.m
Meth Date : 22-Dec-2011 08:40 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 16:39 Cal File: M3081609.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.805	15.820	(1.000)	220798	0.80000	
* 13 Chrysene-d12	240	34.275	34.283	(1.000)	225967	0.80000	
1 Cl1	188	9.563	9.567	(0.279)	306153	1.00000	0.951
$ 2 Tetrachloro-m-xylene	244	11.970	11.980	(0.349)	53263	1.00000	0.903
3 Cl2	222	13.447	13.462	(0.392)	289258	1.00000	0.953
5 Cl3	256	17.044	17.057	(0.497)	252559	1.00000	0.938
6 Cl4	292	17.483	17.496	(0.510)	381405	2.00000	1.76
7 RTstd-BZ-104	326	20.073	20.075	(0.586)	587019	2.00000	1.82
8 Cl5	326	25.927	25.954	(0.756)	402365	2.00000	1.82
9 Cl6	360	26.227	26.241	(0.765)	424310	2.00000	1.85
10 RTstd-BZ-77	292	27.225	27.245	(0.794)	572315	2.00000	1.90
11 Cl7	394	28.314	28.323	(0.826)	741900	3.00000	2.71
12 Cl8	430	33.415	33.433	(0.975)	748265	3.00000	2.63
14 RTstd-BZ-208	464	37.889	37.898	(1.105)	966142	4.00000	3.52
15 Cl10	498	42.668	42.681	(1.245)	1209692	5.00000	4.10
$ 16 Decachloro-13C12-Biphenyl	510	42.655	42.668	(1.244)	1287575	5.00000	4.42

Data File: \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\M3122103.d

Date : 21-DEC-2011 13:06

Client ID: CCV3-1221A

Instrument: GCMS03.i

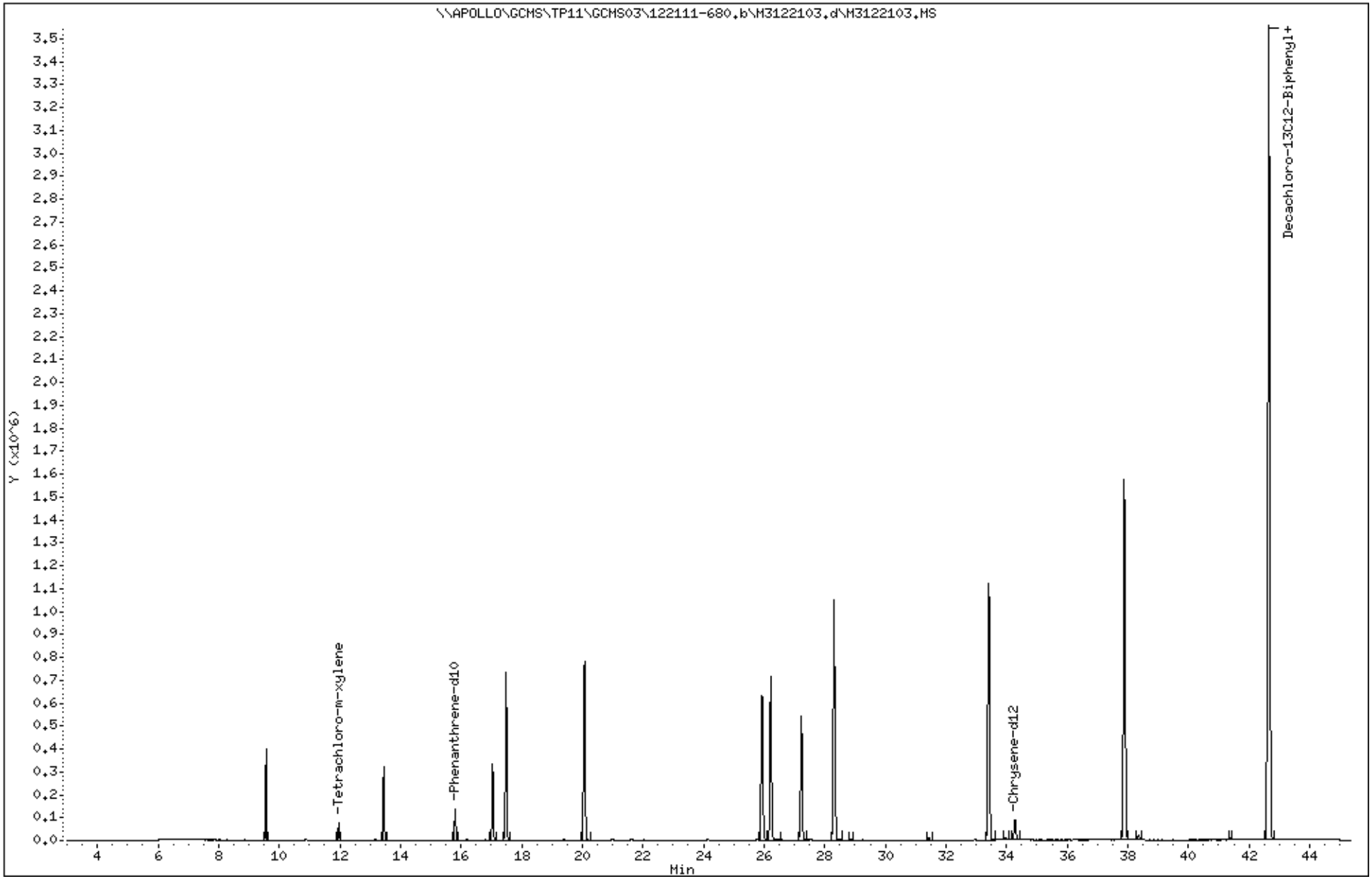
Sample Info: CCV3-1221A

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Form 1
PCB Homolog Report

NEA - A Divison of Pace

		SDG No.:	11120209
ELAP ID No.:	11078	Client ID:	CCV3-1221A
Matrix:	Standard	Lab Sample ID:	CCV3-1221A
Sample weight:	1	Date Received:	N/A
% Moisture	0 %	Date Extracted:	N/A
Method:	EPA 680 (GC/MS)	Date Analyzed:	12/21/2011
Dilution Factor:	1	Time Analyzed:	13:06

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
9.563	313369	9.563	109830	2.9	1.1199	0.00092	0.010	0.99	
				Mono Total:		0.00092	0.010	0.99	

Dichlorobiphenyls									
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
13.452	292225	13.451	194228	1.5	1.1027	0.00060	0.010	0.94	
				Di Total:		0.00060	0.010	0.94	

Trichlorobiphenyls									
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.045	252548	17.045	256096	1.0	0.9390	0.0012	0.010	0.95	
				Tri Total:		0.0012	0.010	0.95	

Tetrachlorobiphenyls									
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.487	387649	17.487	294806	1.3	0.7752	0.00068	0.020	1.8	
				Tetra Total:		0.00068	0.020	1.8	

Pentachlorobiphenyls									
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
25.933	399457	25.931	243043	1.6	0.7775	0.0012	0.020	1.8	
				Penta Total:		0.0012	0.020	1.8	

Hexachlorobiphenyls									
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
26.224	424946	26.220	342736	1.2	0.7961	0.0012	0.020	1.9	
				Hexa Total:		0.0012	0.020	1.9	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
28.313	727541	28.312	721121	1.0	0.9430	0.0019	0.030	2.7	
				Hepta Total:		0.0019	0.030	2.7	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
33.416	753230	33.415	653844	1.2	1.0205	0.0018	0.030	2.6	
				Octa Total:		0.0018	0.030	2.6	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
				Nona Total:		0.0042	0.050	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
42.667	1217672	42.667	1086839	1.1	1.0294	0.0042	0.050	4.2	
				Deca Total:		0.0042	0.050	4.2	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.967	52175	11.966	40657	1.3	0.2041		0.90	
				TCMX Total:			0.90	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.654	1301653	42.653	1099107	1.2	1.0171		4.5	
				Deca Total:			4.5	

TCMX Recovery %	90 %
Deca Recovery	90 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.275	226374	34.283	43355	5.2	1.0000		0.80	
				Chrysene-d_{12}:			0.80	

Monochlorobiphenyls							
"M3122103"		"M3122103"		"M3122103"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.563	313369	9.563	109830				
13.451	9049	15.805	3143				
15.806	224136						
16.180	2126						
17.047	43407						
17.494	2685						
21.011	1173						

Pace Analytical Services, Inc.
11120209.PDF
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Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3122103"		"M3122103"		"M3122103"						"M3122103"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.159	1963	13.153	1058							9.563	313369
13.452	292225	13.451	194228							13.451	9049
17.043	8989	17.044	2665							15.806	224136
17.489	167552	17.486	30800							16.180	2126
20.069	5484	27.229	24006							17.047	43407
24.139	1151									17.494	2685
25.932	7196									21.011	1173
26.224	9307										
27.228	132017										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3122103"		"M3122103"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.045	252548	17.045	256096		
17.491	35274	17.485	32565		
20.071	197761	20.067	66564		
21.002	6355	21.006	6048		
21.638	4503	21.645	4363		
25.936	190901	25.931	63922		
26.215	5254	26.221	2112		
26.240	3608	27.225	5578		
27.226	11441	28.303	1046		
28.317	28905				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3122103"		"M3122103"				"M3122103"		"M3122103"		"M3122103"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.045	252548	17.045	256096			9.563	313369	20.069	369042	20.070	590731
17.491	35274	17.485	32565			13.451	9049	25.931	243043	22.050	1157
20.071	197761	20.067	66564			15.806	224136	26.224	16075	25.933	399457
21.002	6355	21.006	6048			16.180	2126	28.312	267353	26.222	22720
21.638	4503	21.645	4363			17.047	43407	31.442	4014	28.309	178866
25.936	190901	25.931	63922			17.494	2685	33.404	16809	31.435	2909
26.215	5254	26.221	2112			21.011	1173	33.972	2765	33.404	7465
26.240	3608	27.225	5578					37.890	92527	33.969	2006
27.226	11441	28.303	1046							37.890	31586
28.317	28905										

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3122103"		"M3122103"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.487	294806	17.487	387649				
				20.065	15302	20.065	13552				
				24.145	3261	24.145	4169				
				25.927	28018	25.937	30342				
				26.223	206493	26.223	101782				
				27.231	423437	27.229	572034				
				27.540	3135	27.550	1271				
				28.308	13933	28.319	3621				
				28.862	2732	28.858	1320				
				33.415	50909	33.416	11423				
				37.861	1117						
				37.899	3225						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3122103"		"M3122103"			"M3122103"		"M3122103"		"M3122103"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.487	387649	17.487	294806		13.159	1963	26.224	424946	26.220	342736	
20.065	13552	20.065	15302		13.452	292225	26.401	1312	27.548	1596	
24.145	4169	24.145	3261		17.043	8989	27.549	1573	28.314	9229	
25.937	30342	25.927	28018		17.489	167552	28.315	14421	28.871	3705	
26.223	101782	26.223	206493		20.069	5484	28.860	4744	29.248	1376	
27.229	572034	27.231	423437		24.139	1151	29.254	1606	33.415	92658	
27.550	1271	27.540	3135		25.932	7196	33.416	207855	37.856	1208	
28.319	3621	28.308	13933		26.224	9307	37.890	11647	37.875	1402	
28.858	1320	28.862	2732		27.228	132017	42.652	33822	42.669	14402	
33.416	11423	33.415	50909				42.677	24525			
		37.861	1117								
		37.899	3225								

Tetrachlorobiphenyls								
	"M3122103"		"M3122103"					
m/z 288	m/z 324		m/z 326		m/z 328		m/z 289	
	20.069	369042	20.070	590731				
	25.931	243043	22.050	1157				
	26.224	16075	25.933	399457				
	28.312	267353	26.222	22720				
	31.442	4014	28.309	178866				
	33.404	16809	31.435	2909				
	33.972	2765	33.404	7465				
	37.890	92527	33.969	2006				
			37.890	31586				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3122103"		"M3122103"			"M3122103"		"M3122103"		"M3122103"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.070	590731	20.069	369042		17.045	252548	17.045	256096	
22.050	1157	25.931	243043		17.491	35274	17.485	32565	
25.933	399457	26.224	16075		20.071	197761	20.067	66564	
26.222	22720	28.312	267353		21.002	6355	21.006	6048	
28.309	178866	31.442	4014		21.638	4503	21.645	4363	
31.435	2909	33.404	16809		25.936	190901	25.931	63922	
33.404	7465	33.972	2765		26.215	5254	26.221	2112	
33.969	2006	37.890	92527		26.240	3608	27.225	5578	
37.890	31586				27.226	11441	28.303	1046	
					28.317	28905			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3122103"		"M3122103"					"M3122103"		"M3122103"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.313	727541	28.312	721121				26.224	424946	26.220	342736	
28.465	2104	31.440	7269				26.401	1312	27.548	1596	
31.442	7194	33.405	6198				27.549	1573	28.314	9229	
33.417	11939	33.428	5271				28.315	14421	28.871	3705	
37.890	288502	37.886	93576				28.860	4744	29.248	1376	
38.371	1167	37.914	41299				29.254	1606	33.415	92658	
41.381	1001	38.371	1180				33.416	207855	37.856	1208	
42.652	10064	41.380	1238				37.890	11647	37.875	1402	
42.679	7052	42.649	7359				42.652	33822	42.669	14402	
		42.665	4533				42.677	24525			
		42.693	1097								

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3122103"		"M3122103"			"M3122103"			"M3122103"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.224	424946	26.220	342736		17.487	294806		33.415	653844
26.401	1312	27.548	1596		20.065	15302		33.567	1122
27.549	1573	28.314	9229		24.145	3261		33.857	2776
28.315	14421	28.871	3705		25.927	28018		34.710	2339
28.860	4744	29.248	1376		26.223	206493		37.897	10840
29.254	1606	33.415	92658		27.231	423437		42.667	322470
33.416	207855	37.856	1208		27.540	3135			
37.890	11647	37.875	1402		28.308	13933			
42.652	33822	42.669	14402		28.862	2732			
42.677	24525				33.415	50909			
					37.861	1117			
					37.899	3225			

Extracted Ion Current Profiles

Hexachlorobiphenyls											
"M3122103"						"M3122103"		"M3122103"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
33.416	753230							28.313	727541	28.312	721121				
33.551	1208							28.465	2104	31.440	7269				
33.583	1034							31.442	7194	33.405	6198				
33.634	1152							33.417	11939	33.428	5271				
33.696	1141							37.890	288502	37.886	93576				
33.862	4666							38.371	1167	37.914	41299				
34.720	3495							41.381	1001	38.371	1180				
37.888	13014							42.652	10064	41.380	1238				
42.658	123280							42.679	7052	42.649	7359				
42.687	76463									42.665	4533				
										42.693	1097				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3122103"		"M3122103"			"M3122103"		"M3122103"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.313	727541	28.312	721121		20.069	369042	20.070	590731	
28.465	2104	31.440	7269		25.931	243043	22.050	1157	
31.442	7194	33.405	6198		26.224	16075	25.933	399457	
33.417	11939	33.428	5271		28.312	267353	26.222	22720	
37.890	288502	37.886	93576		31.442	4014	28.309	178866	
38.371	1167	37.914	41299		33.404	16809	31.435	2909	
41.381	1001	38.371	1180		33.972	2765	33.404	7465	
42.652	10064	41.380	1238		37.890	92527	33.969	2006	
42.679	7052	42.649	7359				37.890	31586	
		42.665	4533						
		42.693	1097						

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3122103"		"M3122103"			"M3122103"		"M3122103"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.889	977885	37.890	740215		33.415	653844	33.416	753230			
38.370	6616	38.350	1629		33.567	1122	33.551	1208			
41.355	1523	38.370	3322		33.857	2776	33.583	1034			
42.668	2899	42.616	1862		34.710	2339	33.634	1152			
		42.667	2453		37.897	10840	33.696	1141			
					42.667	322470	33.862	4666			
							34.720	3495			
							37.888	13014			
							42.658	123280			
							42.687	76463			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3122103"		"M3122103"				"M3122103"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.416	753230	33.415	653844				26.224	424946	
33.551	1208	33.567	1122				26.401	1312	
33.583	1034	33.857	2776				27.549	1573	
33.634	1152	34.710	2339				28.315	14421	
33.696	1141	37.897	10840				28.860	4744	
33.862	4666	42.667	322470				29.254	1606	
34.720	3495						33.416	207855	
37.888	13014						37.890	11647	
42.658	123280						42.652	33822	
42.687	76463						42.677	24525	

Octachlorobiphenyls				
"M3122103"		"M3122103"		
m/z 464		m/z 466		m/z 425
37.889	977885	37.890	740215	
38.370	6616	38.350	1629	
41.355	1523	38.370	3322	
42.668	2899	42.616	1862	
		42.667	2453	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3122103"		"M3122103"				"M3122103"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.889	977885	37.890	740215			28.313	727541
38.370	6616	38.350	1629			28.465	2104
41.355	1523	38.370	3322			31.442	7194
42.668	2899	42.616	1862			33.417	11939
		42.667	2453			37.890	288502
						38.371	1167
						41.381	1001
						42.652	10064
						42.679	7052

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3122103"		"M3122103"				"M3122103"		"M3122103"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.667	1217672	37.882	1150			33.415	653844	33.416	753230
		42.667	1086839			33.567	1122	33.551	1208
						33.857	2776	33.583	1034
						34.710	2339	33.634	1152
						37.897	10840	33.696	1141
						42.667	322470	33.862	4666
								34.720	3495
								37.888	13014
								42.658	123280
								42.687	76463

Extracted Ion Current Profiles

TCMX				TCMX
"M3122103"		"M3122103"		
m/z 244		m/z 242		
11.967	52175	11.966	40657	424
32.054	1098	28.309	2577	426
32.075	1039	34.264	2520	428
		34.288	2177	430
		37.909	1188	498
				500

chrysene - d_{12}	Chrysene-d12			
	"M3122103"		"M3122103"	
	m/z 240		m/z 241	
240	28.317	4298	11.962	3359
241	33.400	1448	28.330	1714
	34.275	226374	33.400	2182
	37.891	4132	33.432	3746
			34.283	43355
			37.877	1137
			37.908	1106

phenanthrene - d_{10}	Phenanthrene-d10			
	"M3122103"		"M3122103"	
	m/z 188		m/z 189	
188	9.563	313369	9.563	44673
189	13.451	9049	13.452	9059
	15.806	224136	15.804	35024
	16.180	2126	17.044	6997
	17.047	43407		
	17.494	2685		
	21.011	1173		

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.654	1301653	42.653	1099107
512	42.839	1012		

7B
EPA 680 Continuing Calibration Data

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SDG No.: 11120209

Instrument ID:	GCMS03	Calibration Date:	12/21/2011	Time:	16:22
Lab File ID:	M3122107	Start Cal Date:	3/18/2010	Time:	22:53
Client ID:	CCV3-1221B	End Cal Date:	3/19/2011	Time:	04:01
GC Column:	DB-XLB				

NEA File ID: S:\Lab Data\GCMS-SV\EPA-680\PACE_LRF11120209\[CCV3-1221B.xls]Sheet1

COMPOUND	Average RRF	CCV RRF	MIN RRF	%D	MAX %D
1 Cl1	1.120	1.177	0.005	5.12	20
$ 2 Tetrachloro-m-xylene	0.204	0.195	0.005	-4.52	20
3 Cl2	1.103	1.105	0.005	0.18	20
5 Cl3	0.939	0.949	0.005	1.04	20
6 Cl4	0.775	0.737	0.005	-4.90	20
8 Cl5	0.778	0.755	0.005	-2.88	20
9 Cl6	0.796	0.785	0.005	-1.38	20
11 Cl7	0.943	0.900	0.005	-4.59	20
13 Cl8	1.020	0.925	0.005	-9.32	20
17 Cl10	1.029	0.910	0.005	-11.6	20
$ 13C-DCBP	1.017	0.966	0.005	-4.98	20

FORM VII-CLP-EPA 680-1

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\M3122107.d
Lab Smp Id: CCV3-1221B Client Smp ID: CCV3-1221B
Inj Date : 21-DEC-2011 16:22
Operator : RMS Inst ID: GCMS03.i
Smp Info : CCV3-1221B
Misc Info : RS M3122107
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\680low.m
Meth Date : 22-Dec-2011 08:40 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 16:39 Cal File: M3081609.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.820	15.820	(1.000)	221634	0.80000	
* 13 Chrysene-d12	240	34.283	34.283	(1.000)	225255	0.80000	
1 Cl1	188	9.567	9.567	(0.279)	328587	1.00000	1.02
$ 2 Tetrachloro-m-xylene	244	11.980	11.980	(0.349)	56841	1.00000	0.967
3 Cl2	222	13.462	13.462	(0.393)	313101	1.00000	1.04
5 Cl3	256	17.057	17.057	(0.498)	271199	1.00000	1.01
6 Cl4	292	17.496	17.496	(0.510)	417569	2.00000	1.93
7 RTstd-BZ-104	326	20.075	20.075	(0.586)	631708	2.00000	1.97
8 Cl5	326	25.954	25.954	(0.757)	432538	2.00000	1.96
9 Cl6	360	26.241	26.241	(0.765)	453641	2.00000	1.98
10 RTstd-BZ-77	292	27.245	27.245	(0.795)	612481	2.00000	2.04
11 Cl7	394	28.323	28.323	(0.826)	780352	3.00000	2.86
12 Cl8	430	33.433	33.433	(0.975)	784782	3.00000	2.77
14 RTstd-BZ-208	464	37.898	37.898	(1.105)	1028671	4.00000	3.76
15 Cl10	498	42.681	42.681	(1.245)	1294784	5.00000	4.40
$ 16 Decachloro-13C12-Biphenyl	510	42.668	42.668	(1.245)	1367788	5.00000	4.71

Data File: \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\M3122107.d

Date : 21-DEC-2011 16:22

Client ID: CCV3-1221B

Instrument: GCMS03.i

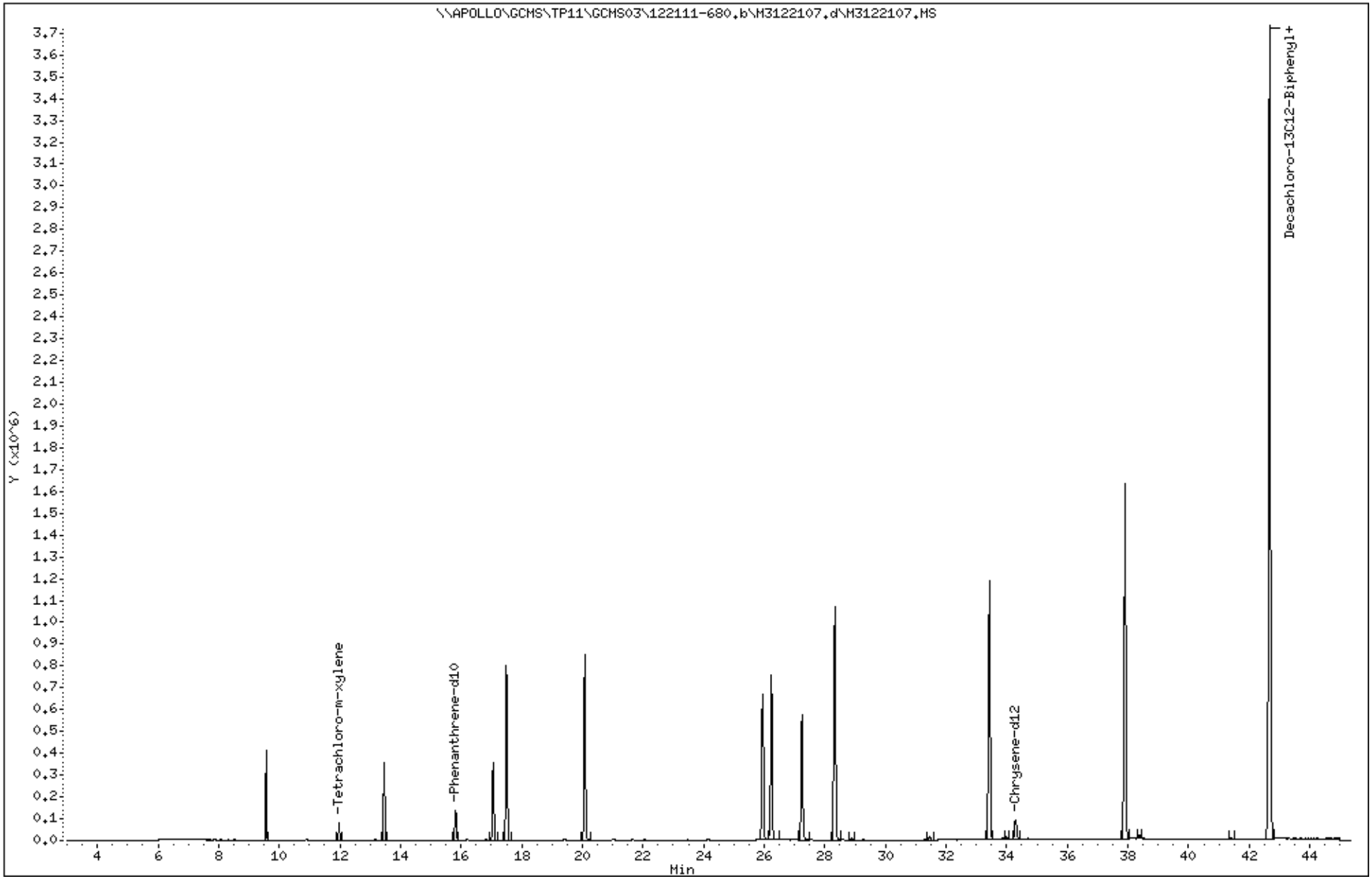
Sample Info: CCV3-1221B

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Form 1
PCB Homolog Report

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		SDG No.:	11120209
ELAP ID No.:	11078	Client ID:	CCV3-1221B
Matrix:	Standard	Lab Sample ID:	CCV3-1221B
Sample weight:	1	Date Received:	N/A
% Moisture	0 %	Date Extracted:	N/A
Method:	EPA 680 (GC/MS)	Date Analyzed:	12/21/2011
Dilution Factor:	1	Time Analyzed:	16:22

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
9.569	336849	9.570	113042	3.0	1.1199	0.00092	0.010	1.1	
				Mono Total:		0.00092	0.010	1.1	

Dichlorobiphenyls									
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
13.462	316080	13.462	212318	1.5	1.1027	0.00060	0.010	1.0	
				Di Total:		0.00060	0.010	1.0	

Trichlorobiphenyls									
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.057	271448	17.057	268702	1.0	0.9390	0.0012	0.010	1.0	
				Tri Total:		0.0012	0.010	1.0	

Tetrachlorobiphenyls									
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.498	421918	17.498	319878	1.3	0.7752	0.00068	0.020	1.9	
				Tetra Total:		0.00068	0.020	1.9	

Pentachlorobiphenyls									
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
25.949	432099	25.947	261620	1.7	0.7775	0.0012	0.020	1.9	
				Penta Total:		0.0012	0.020	1.9	

Hexachlorobiphenyls									
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
26.237	449302	26.238	370787	1.2	0.7961	0.0012	0.020	2.0	
				Hexa Total:		0.0012	0.020	2.0	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
28.328	772274	28.331	752523	1.0	0.9430	0.0019	0.030	2.9	
				Hepta Total:		0.0019	0.030	2.9	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
33.432	794307	33.428	694996	1.1	1.0205	0.0018	0.030	2.7	
				Octa Total:		0.0018	0.030	2.7	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
				Nona Total:		0.0042	0.050	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
42.682	1301300	42.680	1152435	1.1	1.0294	0.0042	0.050	4.4	
				Deca Total:		0.0042	0.050	4.4	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.975	55757	11.974	43531	1.3	0.2041		0.95	
				TCMX Total:			0.95	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.665	1382641	42.667	1163761	1.2	1.0171		4.8	
				Deca Total:			4.8	

TCMX Recovery %	95 %
Deca Recovery	95 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.286	228903	34.282	47376	4.8	1.0000		0.80	
				Chrysene-d_{12}:			0.80	

Monochlorobiphenyls							
"M3122107"		"M3122107"		"M3122107"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.569	336849	9.570	113042				
13.461	9909	15.816	3030				
15.819	223181						
16.201	2197						
17.058	46860						
21.021	1245						
27.251	1297						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3122107"		"M3122107"		"M3122107"						"M3122107"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.168	2177	13.169	1341							9.569	336849
13.462	316080	13.462	212318							13.461	9909
17.051	5003	17.046	1524							15.819	223181
17.064	4849	17.069	1304							16.201	2197
17.501	179590	17.496	31667							17.058	46860
20.086	7749	27.244	25838							21.021	1245
25.941	7588									27.251	1297
26.240	9857										
27.245	141645										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3122107"		"M3122107"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.057	271448	17.057	268702		
17.497	39709	17.491	34778		
20.082	206192	20.079	71739		
21.016	6703	21.018	6411		
21.653	4485	21.652	4509		
25.949	207004	25.945	69642		
26.236	9490	26.232	1323		
27.245	12097	27.237	5409		
28.332	30358	28.316	1329		
		28.336	2691		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3122107"		"M3122107"				"M3122107"		"M3122107"		"M3122107"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.057	271448	17.057	268702			9.569	336849	20.081	393197	20.082	630613
17.497	39709	17.491	34778			13.461	9909	25.947	261620	22.053	1238
20.082	206192	20.079	71739			15.819	223181	26.234	16235	25.949	432099
21.016	6703	21.018	6411			16.201	2197	28.331	284011	26.239	22997
21.653	4485	21.652	4509			17.058	46860	31.457	4210	28.331	189942
25.949	207004	25.945	69642			21.021	1245	33.432	13990	31.456	2810
26.236	9490	26.232	1323			27.251	1297	33.986	3020	33.399	2317
27.245	12097	27.237	5409					37.902	100796	33.424	2669
28.332	30358	28.316	1329							33.444	4339
		28.336	2691							33.984	1995
										37.901	35212

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3122107"		"M3122107"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.498	319878	17.498	421918				
				20.087	15107	20.079	14997				
				24.156	3295	24.160	4497				
				25.951	27921	25.951	31540				
				26.239	210655	26.237	108006				
				27.247	451859	27.246	608557				
				27.431	2027	27.422	1312				
				27.545	2593	27.459	1142				
				28.304	5082	27.569	2194				
				28.325	10294	28.333	6649				
				28.874	2737	28.878	1709				
				33.425	54128	33.426	12417				
				37.870	1430						
				37.907	2315						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3122107"		"M3122107"			"M3122107"		"M3122107"		"M3122107"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.498	421918	17.498	319878		13.168	2177	25.785	1133	26.238	370787	
20.079	14997	20.087	15107		13.462	316080	26.237	449302	27.567	1658	
24.160	4497	24.156	3295		17.051	5003	27.567	1848	28.312	4992	
25.951	31540	25.951	27921		17.064	4849	28.311	12694	28.336	5642	
26.237	108006	26.239	210655		17.501	179590	28.879	4843	28.878	4019	
27.246	608557	27.247	451859		20.086	7749	29.271	1774	29.259	1436	
27.422	1312	27.431	2027		25.941	7588	33.428	220992	33.431	102462	
27.459	1142	27.545	2593		26.240	9857	33.872	1347	37.896	2296	
27.569	2194	28.304	5082		27.245	141645	37.866	2010	37.923	1426	
28.333	6649	28.325	10294				37.895	3318	42.660	10966	
28.878	1709	28.874	2737				37.932	3406	42.696	9476	
33.426	12417	33.425	54128				42.660	20571			
		37.870	1430				42.679	19559			
		37.907	2315				42.706	16835			

Tetrachlorobiphenyls						
	"M3122107"		"M3122107"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.081	393197	20.082	630613		
	25.947	261620	22.053	1238		
	26.234	16235	25.949	432099		
	28.331	284011	26.239	22997		
	31.457	4210	28.331	189942		
	33.432	13990	31.456	2810		
	33.986	3020	33.399	2317		
	37.902	100796	33.424	2669		
			33.444	4339		
			33.984	1995		
			37.901	35212		

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3122107"		"M3122107"			"M3122107"		"M3122107"		"M3122107"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.082	630613	20.081	393197		17.057	271448	17.057	268702	
22.053	1238	25.947	261620		17.497	39709	17.491	34778	
25.949	432099	26.234	16235		20.082	206192	20.079	71739	
26.239	22997	28.331	284011		21.016	6703	21.018	6411	
28.331	189942	31.457	4210		21.653	4485	21.652	4509	
31.456	2810	33.432	13990		25.949	207004	25.945	69642	
33.399	2317	33.986	3020		26.236	9490	26.232	1323	
33.424	2669	37.902	100796		27.245	12097	27.237	5409	
33.444	4339				28.332	30358	28.316	1329	
33.984	1995						28.336	2691	
37.901	35212								

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3122107"		"M3122107"					"M3122107"		"M3122107"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.328	772274	28.331	752523				25.785	1133	26.238	370787	
28.485	1782	28.522	1205				26.237	449302	27.567	1658	
31.450	8064	31.456	7759				27.567	1848	28.312	4992	
33.424	8160	33.421	8347				28.311	12694	28.336	5642	
33.443	5784	33.459	3154				28.879	4843	28.878	4019	
37.903	296318	37.905	170769				29.271	1774	29.259	1436	
42.629	1826	38.372	1069				33.428	220992	33.431	102462	
42.656	2990	42.661	4558				33.872	1347	37.896	2296	
42.697	6445	42.698	4764				37.866	2010	37.923	1426	
							37.895	3318	42.660	10966	
							37.932	3406	42.696	9476	
							42.660	20571			
							42.679	19559			
							42.706	16835			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3122107"		"M3122107"			"M3122107"			"M3122107"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
25.785	1133	26.238	370787		17.498	319878		32.962	1164
26.237	449302	27.567	1658		20.087	15107		33.428	694996
27.567	1848	28.312	4992		24.156	3295		33.581	1442
28.311	12694	28.336	5642		25.951	27921		33.680	1216
28.879	4843	28.878	4019		26.239	210655		33.802	1045
29.271	1774	29.259	1436		27.247	451859		33.865	3905
33.428	220992	33.431	102462		27.431	2027		34.731	2909
33.872	1347	37.896	2296		27.545	2593		37.891	8379
37.866	2010	37.923	1426		28.304	5082		37.923	4430
37.895	3318	42.660	10966		28.325	10294		42.679	350681
37.932	3406	42.696	9476		28.874	2737			
42.660	20571				33.425	54128			
42.679	19559				37.870	1430			
42.706	16835				37.907	2315			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3122107"								"M3122107"		"M3122107"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
32.972	1453							28.328	772274	28.331	752523		
33.432	794307							28.485	1782	28.522	1205		
33.606	1240							31.450	8064	31.456	7759		
33.641	2039							33.424	8160	33.421	8347		
33.752	1531							33.443	5784	33.459	3154		
33.872	5228							37.903	296318	37.905	170769		
34.734	3711							42.629	1826	38.372	1069		
37.897	11250							42.656	2990	42.661	4558		
42.686	229165							42.697	6445	42.698	4764		
42.745	1563												

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3122107"		"M3122107"			"M3122107"		"M3122107"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.328	772274	28.331	752523		20.081	393197	20.082	630613	
28.485	1782	28.522	1205		25.947	261620	22.053	1238	
31.450	8064	31.456	7759		26.234	16235	25.949	432099	
33.424	8160	33.421	8347		28.331	284011	26.239	22997	
33.443	5784	33.459	3154		31.457	4210	28.331	189942	
37.903	296318	37.905	170769		33.432	13990	31.456	2810	
42.629	1826	38.372	1069		33.986	3020	33.399	2317	
42.656	2990	42.661	4558		37.902	100796	33.424	2669	
42.697	6445	42.698	4764				33.444	4339	
							33.984	1995	
							37.901	35212	

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3122107"		"M3122107"			"M3122107"		"M3122107"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.902	1042378	37.905	793537		32.962	1164	32.972	1453			
38.375	3932	38.241	1036		33.428	694996	33.432	794307			
38.391	3616	38.379	5788		33.581	1442	33.606	1240			
42.651	5482	41.373	1012		33.680	1216	33.641	2039			
42.698	4113	42.660	7121		33.802	1045	33.752	1531			
		42.678	5912		33.865	3905	33.872	5228			
		42.707	3026		34.731	2909	34.734	3711			
					37.891	8379	37.897	11250			
					37.923	4430	42.686	229165			
					42.679	350681	42.745	1563			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3122107"		"M3122107"				"M3122107"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
32.972	1453	32.962	1164				25.785	1133	
33.432	794307	33.428	694996				26.237	449302	
33.606	1240	33.581	1442				27.567	1848	
33.641	2039	33.680	1216				28.311	12694	
33.752	1531	33.802	1045				28.879	4843	
33.872	5228	33.865	3905				29.271	1774	
34.734	3711	34.731	2909				33.428	220992	
37.897	11250	37.891	8379				33.872	1347	
42.686	229165	37.923	4430				37.866	2010	
42.745	1563	42.679	350681				37.895	3318	
							37.932	3406	
							42.660	20571	
							42.679	19559	
							42.706	16835	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3122107"		"M3122107"		
m/z 464		m/z 466		m/z 425
37.902	1042378	37.905	793537	
38.375	3932	38.241	1036	
38.391	3616	38.379	5788	
42.651	5482	41.373	1012	
42.698	4113	42.660	7121	
		42.678	5912	
		42.707	3026	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3122107"		"M3122107"				"M3122107"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.902	1042378	37.905	793537			28.328	772274
38.375	3932	38.241	1036			28.485	1782
38.391	3616	38.379	5788			31.450	8064
42.651	5482	41.373	1012			33.424	8160
42.698	4113	42.660	7121			33.443	5784
		42.678	5912			37.903	296318
		42.707	3026			42.629	1826
						42.656	2990
						42.697	6445

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3122107"		"M3122107"				"M3122107"		"M3122107"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.682	1301300	42.680	1152435					32.962	1164	32.972	1453
42.891	1120							33.428	694996	33.432	794307
								33.581	1442	33.606	1240
								33.680	1216	33.641	2039
								33.802	1045	33.752	1531
								33.865	3905	33.872	5228
								34.731	2909	34.734	3711
								37.891	8379	37.897	11250
								37.923	4430	42.686	229165
								42.679	350681	42.745	1563

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3122107"		"M3122107"				"M3122107"		"M3122107"			"M3122107"		"M3122107"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
11.975	55757	11.974	43531	424	240	28.302	1894	11.976	3762	188	9.569	336849	9.571	48109
32.080	2131	28.298	1115	426	241	28.327	3822	28.305	1466	189	13.461	9909	13.462	9664
		28.326	1989	428		33.443	2916	33.413	3268		15.819	223181	15.820	36348
		33.441	1879	430		34.286	228903	33.434	4261		16.201	2197	17.061	6863
		34.285	5078	498		34.633	1565	34.282	47376		17.058	46860		
				500		37.884	2410	37.883	1350		21.021	1245		
						37.914	1869	37.926	1500		27.251	1297		

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.665	1382641	42.667	1163761
512	43.175	1047	42.816	1039

QC Sample Raw Data

Quality Control Results
Method Blank

Job Number: 11120209

NEA Laboratory, Division of Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: PACE ANALYTICAL SERVICES INC.
Project: VERIFICATION PUF
Client Sample ID: Method Blank (AO29474B)
Lab Sample ID: SBLK-37

Collection Date: N/A
Sample Matrix: POLYURETHANE FOAM
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-310-4	PCBs by EPA Method TO-4A/680	12/21/2011 13:55	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16767	EPA 3540C	12/20/2011 14:45	JLG	0.00m³	1.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00500	1.00	U	MS03-310-4
Dichlorobiphenyl	25512-42-9	ND	0.00500	1.00	U	MS03-310-4
Trichlorobiphenyl	25323-68-6	ND	0.00500	1.00	U	MS03-310-4
Tetrachlorobiphenyl	26914-33-0	ND	0.0100	1.00	U	MS03-310-4
Pentachlorobiphenyl	25429-29-2	ND	0.0100	1.00	U	MS03-310-4
Hexachlorobiphenyl	26601-64-9	ND	0.0100	1.00	U	MS03-310-4
Heptachlorobiphenyl	28655-71-2	ND	0.0150	1.00	U	MS03-310-4
Octachlorobiphenyl	55722-26-4	ND	0.0150	1.00	U	MS03-310-4
Nonachlorobiphenyl	53742-07-7	ND	0.0250	1.00	U	MS03-310-4
Decachlorobiphenyl	2051-24-3	ND	0.0250	1.00	U	MS03-310-4
Total PCB	1336-36-3	ND		1.00	U	MS03-310-4

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	62.8	42.5-134		MS03-310-4
Tetrachloro-meta-xylene	877-09-8	50.2	17.9-137		MS03-310-4

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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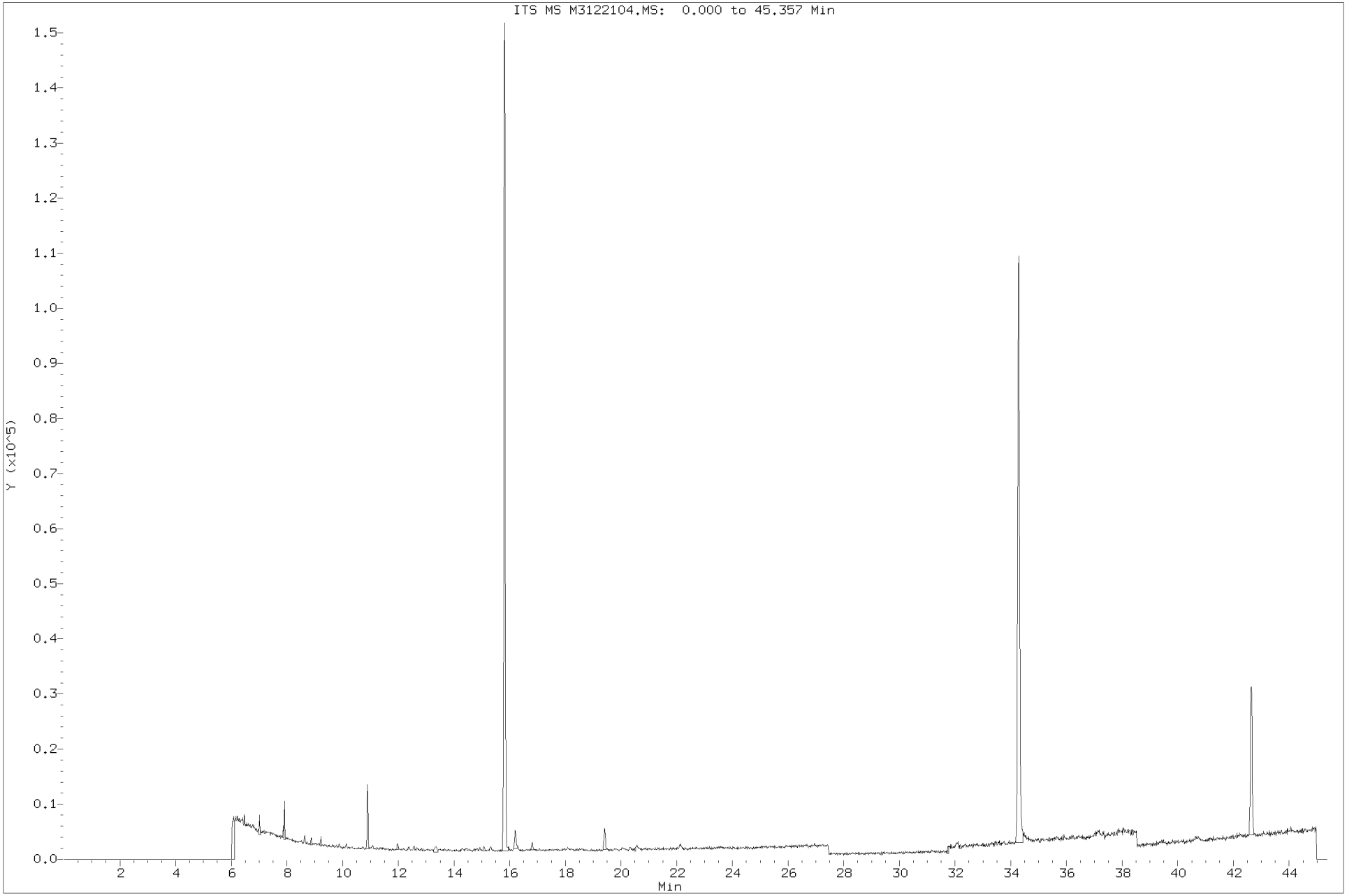
Data File: \\APOLLO\GCMS\TP11\GCMS03\122111-680.b\M3122104.d/M3122104.MS
Injection Date: 21-DEC-2011 13:55
Instrument: GCMS03.i
Client Sample ID: A029474BLANK



Form 1
PCB Homolog Report

Northeast Analytical Inc.

		SDG No.:	11120209
ELAP ID No.:	11078	Client ID:	Method Blank
Matrix:	TO-4A PUF	Lab Sample ID:	AO29474B
Sample weight:	NA	Date Received:	N/A
% Moisture	0 %	Date Extracted:	12/20/2011
Method:	EPA 680 (GC/MS)	Date Analyzed:	12/21/2011
Dilution Factor:	1	Time Analyzed:	13:55

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug	ug	ug	
					Mono Total:	0.00500	0.00500	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug	ug	ug	
					Di Total:	0.00500	0.00500	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug	ug	ug	
					Tri Total:	0.00500	0.00500	ND	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug	ug	ug	
					Tetra Total:	0.0100	0.0100	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug	ug	ug	
					Penta Total:	0.0100	0.0100	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug	ug	ug	
					Hexa Total:	0.0100	0.0100	ND	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug	ug	ug	
				Hepta Total:		0.0150	0.0150	ND	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug	ug	ug	
				Octa Total:		0.0150	0.0150	ND	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug	ug	ug	
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug	ug	ug	
				Deca Total:		0.0250	0.0250	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL	
11.974	662	11.977	517	1.3	0.2041		0.0100	
				TCMX Total:			0.0100	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.637	20635	42.641	16169	1.3	1.0171		0.0628	
				Deca Total:			0.0628	

TCMX Recovery %	50.2 %
Deca Recovery	62.8 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.277	258278	34.279	52698	4.9	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Monochlorobiphenyls							
"M3122104"		"M3122104"		"M3122104"		"M3122104"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.814	251918	15.818	3421				
16.192	2317						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3122104"		"M3122104"		"M3122104"		"M3122104"		"M3122104"		"M3122104"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
								15.819	26094	15.814	251918
								16.202	2180	16.192	2317

Dichlorobiphenyls					
"M3122104"		"M3122104"		"M3122104"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
				6.144	1521
				6.269	1408
				6.362	1093
				6.421	1083
				6.508	1414
				6.616	1116
				7.017	2329
				7.469	1026
				7.870	1978
				7.915	1570
				8.641	1741

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3122104"		"M3122104"		"M3122104"		"M3122104"		"M3122104"		"M3122104"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				15.819	26094	15.814	251918				
				16.202	2180	16.192	2317				

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3122104"		"M3122104"				"M3122104"		"M3122104"			"M3122104"		"M3122104"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.974	662	11.977	517	424	240	34.277	258278	34.279	52698	188	15.814	251918	15.811	39452
31.187	400	34.274	3206	426	241	34.502	1215			189	16.192	2317		
32.061	2419	34.296	2379	428										
				430										
				498										
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.637	20635	42.580	682
512			42.641	16169

Pace Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: 115058 KEITH MIDDLE SCHOOL
Sampling Date(s): December 29, 2011
Lab Report ID: 12010053
Client Service Contact: William Kotas (518) 346-4592 ext. 17

Analysis Included:
PCBs by GCMS

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report.This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Robert E. Wagner
Laboratory Director

Certifications: NYS (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

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Case Narrative

January 20, 2012

CASE NARRATIVE

This data package (SDG ID: 12010053) consists of 6 polyurethane foam (TO-10A) samples and 5 polyurethane foam with associated glass fiber filter (TO-4A) samples received on 01/05/2012. The samples are from Project Name: 115058 KEITH MIDDLE SCHOOL.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AP00226	VS-1-28	12/29/2011
AP00227	VS-4-28	12/29/2011
AP00228	VS-12-28	12/29/2011
AP00229	VS-8-28	12/29/2011
AP00230	VS-8-28-DUP	12/29/2011
AP00231	VS-BG-28	12/29/2011
AP00232	VS-TB-28	12/29/2011
AP00233	A-28	12/29/2011
AP00234	B-28	12/29/2011
AP00235	C-28	12/29/2011
AP00236	BG-28	12/29/2011
AP00237	BG-28-DUP	12/29/2011
AP00238	TB-28	12/29/2011

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via FEDEX delivery service on 01/05/2012.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) The following cooler temperature was recorded at sample receipt (Control limits are between 0-6 Degrees Celsius): 3.4 degrees Celsius. Please see Chain of Custody for details.

PCB Homolog Analysis (TO-10A)

Analysis for PCB Homolog Distribution was performed by EPA Method 680. Samples were extracted by Soxhlet Extraction Method (EPA - Method 3540C). The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for Decachloro[13C12]biphenyl surrogate was below quality acceptance limits for all samples (LAB ID: AP00226- AP00232) including the associated method blank sample (LAB ID: AP00226B). The alternate TCMX surrogate was within limits. Please see associated Form 2 for details.

(2.) The percent recoveries for the TCMX and Decachloro[13C12]biphenyl surrogates were below quality acceptance limits for the laboratory control spike sample (LAB ID: AP00226L) due to glassware malfunction during the extraction procedure causing sample volume loss. The sample was re-analyzed with similar results and the original data was reported. No additional sample material is available for a re-extraction. Please see associated Form 2 for details.

(3.) The percent recoveries for the laboratory control spike sample (LAB ID: AP00226L) were below quality acceptance limits due to glassware malfunction during the extraction procedure causing sample volume loss. The sample was re-analyzed with similar results and the original data was reported. No additional sample material is available for a re-extraction. Please see associated Form 3 for details.

(4.) The relative percent differences for between the laboratory control spike sample (LAB ID: AP00226L) and the laboratory control spike duplicate sample (LAB ID: AP00226S) were above quality acceptance limits. Please see associated Form 3 for details.

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PCB Homolog Analysis (TO-4A)

Analysis for PCB Homolog Distribution was performed by EPA Method 680. Samples were extracted by Soxhlet Extraction Method (EPA - Method 3540C). The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for TCMX surrogate was above quality acceptance limits for samples (LAB ID: AP00233, AP00234 and AP00235). The alternate Decachloro[13C12]biphenyl surrogate was within limits. Please see associated Form 2 for details.

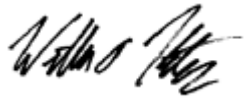
(2.) The TCMX surrogate ion ratio was below quality acceptance limits for samples (LAB ID: AP00233 and AP00236). The alternate Decachloro[13C12]biphenyl surrogate ion ratio was within limits. Please see associated Form 1 for details.

(3.) The percent recovery for the internal standard Phenanthrene-d10 was above quality acceptance limits for sample (LAB ID: AP00233). This I.S. was not used for quantitation. The alternate Chrysene d- 12 I.S. was within limits. Please see associated form 8 for details.

Qualifier Summary

(1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.
(2.) J-Denotes concentration result greater than the MDL but less than the RL.
(3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



William A. Kotas
Client Services Manager

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Sample Chain Of Custody

CHAIN OF CUSTODY RECORD

Temp: 3.4°C

<12010053P1>

120100531

Project Name: Keith Middle School
Project No.: 115058
Sampling Date(s): 12/29/11
Laboratory: Pace/NEA
Laboratory P.O.: 39600
Shipping Date(s): ~~01/03/12~~ 1/4/12
Shipper's Name: TRC

Sample Code	Sampled Date	Container Size	Container G/P	MATRIX	Description	ANALYSIS	Comments (volume m^3)
VS-1-28 AP00226	12/29/11		G	PUF	vent stack air	TO-10A	1.3
VS-4-28 AP00227	12/29/11		G	PUF	vent stack air	TO-10A	1.2
VS-12-28 AP00228	12/29/11		G	PUF	vent stack air	TO-10A	0.7
VS-8-28 AP00229	12/29/11		G	PUF	vent stack air	TO-10A	1.1
VS-8-28-DUP AP00230	12/29/11		G	PUF	vent stack air	TO-10A	1.1
VS-BG-28 AP00231	12/29/11		G	PUF	background	TO-10A	1.2
VS-TB-28 AP00232	12/29/11		G	PUF	trip blank	TO-10A	N/A
0 ~~AP00233~~ 1.5.12			G	0	0	0	
A-28 ~~AP00233~~ ~~AP00234~~ 1.5.12	12/29/11		G	PUF/filter	ambient air , Hallway rm169	TO-4A	379.9
B-28 ~~AP00234~~ ~~AP00235~~ 1.5.12	12/29/11		G	PUF/filter	ambient air , Auditorium	TO-4A	380.5
C-28 ~~AP00235~~ ~~AP00236~~ 1.5.12	12/29/11		G	PUF/filter	ambient air , Faculty Lounge	TO-4A	384.6
BG-28 AP00236	12/29/11		G	PUF/filter	background	TO-4A	367.3
BG-28-DUP AP00237	12/29/11		G	PUF/filter	background	TO-4A	378.3
TB-28 AP00238	12/29/11		G	PUF/filter	trip blank	TO-4A	N/A
0				0	0	0	
0				0	0	0	

Relinquished by: [signature] **Date/Time:** 1/4/12 1600 **Relinquished by:** VIA FedEX.

Received by: VIA FedEX **Date/Time:** **Received by:** [signature] / PACE 1.5.12 10:17

Remarks (*): **Please Send Data Disk to David Gill @ TRC Lowell Office**

TRC

Internal Sample Tracking Record

EXTRACTION LOG

Prep Date: 01/05/12 **Batch ID: 16874**

	Prep ID	LAB Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Final Ext. Vol (mL)	Date Conc (MM/DD)	Comments
1	161646	SBLK-60	AP00226B	PF10		E 680 A	SOX	N/A	1	16:15	08:15	NA	NA	1	01/06	Lot: 23318
2	161645	LCS-60	AP00226L	PF10		E 680 A	SOX	N/A	1	16:15	08:15	NA	NA	1	01/06	Lot: 23318
3	161644	LCSD-60	AP00226S	PF10		E 680 A	SOX	N/A	1	16:15	08:15	NA	NA	1	01/06	Lot: 23318
4	161637	12010053-01	AP00226	PF10		E 680 A	SOX	N/A	1300000	16:15	08:15	NA	NA	1	01/06	Lot: 23318(11040189)
5	161638	12010053-02	AP00227	PF10		E 680 A	SOX	N/A	1200000	16:15	08:15	NA	NA	1	01/06	Lot: 23318(11040189)
6	161639	12010053-03	AP00228	PF10		E 680 A	SOX	N/A	700000	16:15	08:15	NA	NA	1	01/06	Lot: 23318(11040189)
7	161640	12010053-04	AP00229	PF10		E 680 A	SOX	N/A	1100000	16:15	08:15	NA	NA	1	01/06	Lot: 23318(11040189)
8	161641	12010053-05	AP00230	PF10		E 680 A	SOX	N/A	1100000	16:15	08:15	NA	NA	1	01/06	Lot: 23318(11040189)
9	161642	12010053-06	AP00231	PF10		E 680 A	SOX	N/A	1200000	16:15	08:15	NA	NA	1	01/06	Lot: 23318(11040189)
10	161643	12010053-07	AP00232	PF10		E 680 A	SOX	N/A	1	16:15	08:15	NA	NA	1	01/06	Lot: 23318(11040189)

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	E49039	NA		p	p	p	p	¨	¨	¨
TCMX	031411P89A BX	100	0.20	p	p	p	p	¨	¨	¨
EPA 680 Spike Mix	042011P94A BX	100	5-25	¨	p	p	¨	¨	¨	¨
Mercury (CURRENT)	062111Hg	NA		p	p	p	p	¨	¨	¨
DCBP-C13	092111P118A BX	100	1.0	p	p	p	p	¨	¨	¨
Ethyl Ether	DE879	NA		p	p	p	p	¨	¨	¨
Hexane (Dewar) CURRENT!	DF262	NA		p	p	p	p	¨	¨	¨
10% Florisil (Water Lab) (Current)	120811F	NA		p	p	p	p	¨	¨	¨

Analyst Review: Stephanie Scribner

Peer Review: Jillian L Grygas

Print Date: 1/20/2012

Lims Version : 5.0.6.1

_EXT - LOGBOOK_GCMS-SV; Rev 03; 1.18.2010; EXTRACTION

EXTRACTION LOG

Prep Date: 01/05/12 **Batch ID: 16875**

	Prep ID	LAB Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Final Ext. Vol (mL)	Date Conc (MM/DD)	Comments
1	161655	SBLK-61	AP00233B	PF4		E 680 A	SOX	N/A	1	16:15	08:15	NA	NA	1	01/06	Lot: 121911-3
2	161654	LCS-61	AP00233L	PF4		E 680 A	SOX	N/A	1	16:15	08:15	NA	NA	1	01/06	Lot: 121911-3
3	161653	LCSD-61	AP00233S	PF4		E 680 A	SOX	N/A	1	16:15	08:15	NA	NA	1	01/06	Lot: 121911-3
4	161647	12010053-08	AP00233	PF4		E 680 A	SOX	N/A	379900000	16:15	08:15	NA	NA	1	01/06	Lot: 120811-1(11120177)
5	161648	12010053-09	AP00234	PF4		E 680 A	SOX	N/A	380500000	16:15	08:15	NA	NA	1	01/06	Lot: 120811-1(11120177)
6	161649	12010053-10	AP00235	PF4		E 680 A	SOX	N/A	384600000	16:15	08:15	NA	NA	1	01/06	Lot: 120811-1(11120177)
7	161650	12010053-11	AP00236	PF4		E 680 A	SOX	N/A	367300000	16:15	08:15	NA	NA	1	01/06	Lot: 120811-1(11120177)
8	161651	12010053-12	AP00237	PF4		E 680 A	SOX	N/A	378300000	16:15	08:15	NA	NA	1	01/06	Lot: 120811-1(11120177)
9	161652	12010053-13	AP00238	PF4		E 680 A	SOX	N/A	1	16:15	08:15	NA	NA	1	01/06	Lot: 120811-1(11120177)

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Water Lab)	**E49039**	**NA**		p	p	p	p	¨	¨	¨
TCMX	**031411P89A BX**	**100**	**0.20**	p	p	p	p	¨	¨	¨
EPA 680 Spike Mix	**042011P94A BX**	**100**	**5-25**	¨	p	p	¨	¨	¨	¨
Mercury (CURRENT)	**062111Hg**	**NA**		p	p	p	p	¨	¨	¨
DCBP-C13	**092111P118A BX**	**100**	**1.0**	p	p	p	p	¨	¨	¨
Ethyl Ether	**DE879**	**NA**		p	p	p	p	¨	¨	¨
Hexane (Dewar) CURRENT!	**DF262**	**NA**		p	p	p	p	¨	¨	¨
10% Florisil (Water Lab) (Current)	**120811F**	**NA**		p	p	p	p	¨	¨	¨

Analyst Review: Stephanie Scribner

Peer Review: Jillian L Grygas

Print Date: 1/20/2012

Lims Version : 5.0.6.1

_EXT - LOGBOOK_GCMS-SV; Rev 03; 1.18.2010; EXTRACTION

NORTHEAST ANALYTICAL, INC. GCMS 03 INJECTION LOG

TARGET QUANT. FILE: EPA680- 081611.b

	Method #	NEA Sample ID	Saturn File ID	Date Analyzed	Time Inj.	DIL	COMMENTS
1	dftp	DFTPP-1	M3081601	8-16-11	1026		
2	EPA680	WDM3-0816A	02		1055		
3		iCAL-7	03		1144		
4		iCAL-6	04		1233		
5		iCAL-5	05		1322		
6		iCAL-4	06		1411		
7		iCAL-3	07		1501		
8		iCAL-2	08		1550		
9		iCAL-1	09		1639		
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

8-16-11

CAL STD:	081611P113B BI	CCC STD:	081511P112B BI	WDM STD:	062811P105A BI
Tune STD:	081511P111B BI	Internal STD:	081511P113A BI		

STANDARD CODES REFER TO STANDARD PREP BOOK

BOOK: 22

PAGE: 73

S:\LOGBOOKS\SVOA\SVLOG-GCMS03.xls, rev. 00, 3/3/06, SVOA

Signal/Noise Report

Date : 18-Aug-2011 08:09
Data File : ITS MS M3081609.MS, Ion 241.00
Inj. Date : 16-AUG-2011 16:39

RMS Noise : 17.2394
RMS Noise time window: 32.140 to 34.140 min.
Number of peaks: 1

Time	Start Time	End Time	Area	Area%	Height	Height%	Peak Type	S/N
34.342	34.208	34.477	67235	100.00	15702	100.00	**	910.8

Signal/Noise Report

Date : 18-Aug-2011 08:10
Data File : ITS MS M3081609.MS, Ion 499.00
Inj. Date : 16-AUG-2011 16:39

RMS Noise : 5.70408
RMS Noise time window: 40.540 to 42.540 min.
Number of peaks: 1

Time	Start Time	End Time	Area	Area%	Height	Height%	Peak Type	S/N
42.741	42.643	42.804	1899	100.00	527	100.00	**	92.4

NORTHEAST ANALYTICAL, INC. GCMS 03 INJECTION LOG

TARGET QUANT. FILE: 011112-680.b

	Method #	NEA Sample ID	Saturn File ID	Date Analyzed	Time Inj.	DIL	COMMENTS
1	dftp	DFTPP-1	M3011101	1-11-12	0743		
2	EPA680	WDM3-0111A	02		0808		
3		CCV3-0111A	03		~~0947~~ R		0858
4		AP00226L	04		~~1037~~ R		0947
5		AP00226S	05		1037		
6		AP00226B	06		1126		
7		AP00226	07		1215		
8		AP00227	08		1305		
9		AP00228	09		1354		
10		AP00229	10		1443		
11		AP00230	11		1532		
12		AP00231	12		1621		
13		AP00232	13		1710		
14		CCV3-0111B	14		1800		
15							
16							
17							
18							
19							
20							

CAL STD:	081611P113B BX	CCC STD:	081511P112B BX	WDM STD:	011012P134B BX
Tune STD:	011012P134C BX	Internal STD:	081511P113A BX		

STANDARD CODES REFER TO STANDARD PREP BOOK

BOOK: 22
PAGE: 97

S:\LOGBOOKS\SVOA\SVLOG-GCMS03.xls, rev. 00, 3/3/06, SVOA

NORTHEAST ANALYTICAL, INC. GCMS 03 INJECTION LOG

TARGET QUANT. FILE: 011112-680b.b

	Method #	NEA Sample ID	Saturn File ID	Date Analyzed	Time Inj.	DIL	COMMENTS
1	dftpp	DFTPP-2	M3011115	1-11-12	1939		
2	EPA 8270	WDM3-0111B	16		2032		
3		CCV3-0111C	17		2121		
4		AP00233B	18		2210		
5		AP00233L	19		2259		
6		AP00233S	20		2348		
7		AP00233	21	1-12-12	0037	2	
8		AP00234	22		0127	2	
9		AP00235	23		0216	2	
10		AP00236	24		0305		
11		AP00237	25		0354		
12		AP00238	26		0444		
13		AP00226LRR1	27		0533		
14		CCV3-0111D	28		0622		
15							
16							
17							
18							
19							
20							

BE 1-12-12

CAL STD	081611P113B BE	CCC STD	081511P112B BE	WDM STD	011012P134B BE
Tune STD	011012P134C BE	Internal STD	081511P113A BE		

STANDARD CODES REFER TO STANDARD PREP BOOK

BOOK: 22
PAGE: 98

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Surrogate % Recovery Summary

2D-1
680 SURROGATE RECOVERY

Laboratory Name: Pace Analytical Services, Inc. SDG: 12010053

ELAP ID No: 11078

GC Column (1): Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): NA

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC	#	SURR 2 (Col 1) % REC	#	OTHER (1)	OTHER (2)	TOTAL OUT
SBLK-60	AP00226B	MS03-313-6	75.8		64.3	*			1
LCS-60	AP00226L	MS03-313-4	25.7	*	32.6	*			2
LCSD-60	AP00226S	MS03-313-5	65.8		75.9				0
12010053-01	AP00226	MS03-313-7	83.4		67.4	*			1
12010053-02	AP00227	MS03-313-8	76.5		68.1	*			1
12010053-03	AP00228	MS03-313-9	75.3		65.5	*			1
12010053-04	AP00229	MS03-313-10	75.4		67.5	*			1
12010053-05	AP00230	MS03-313-11	67.0		65.9	*			1
12010053-06	AP00231	MS03-313-12	62.1		68.7	*			1
12010053-07	AP00232	MS03-313-13	66.5		65.2	*			1

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

	Advisory QC Limits.
SURR1 = TETRACHLORO-META-XYLENE	(44.4-104)
SURR2 = DECACHLORO[13C12]BIPHENYL	(70.1-116)

Form II-CLP-680(NEA-PACE)

Print Date: 1/20/2012
Lims Version : 5.0.6.1

2D-1
680 SURROGATE RECOVERY

Laboratory Name: Pace Analytical Services, Inc. SDG: 12010053

ELAP ID No: 11078

GC Column (1): Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): NA

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC	#	SURR 2 (Col 1) % REC	#	OTHER (1)	OTHER (2)	TOTAL OUT
SBLK-61	AP00233B	MS03-314-18	64.0		64.0				0
LCS-61	AP00233L	MS03-314-19	73.7		83.8				0
LCSD-61	AP00233S	MS03-314-20	68.1		73.8				0
12010053-08	AP00233	MS03-314-21	138	*	84.0				1
12010053-09	AP00234	MS03-314-22	160	*	52.4				1
12010053-10	AP00235	MS03-314-23	150	*	73.1				1
12010053-11	AP00236	MS03-314-24	88.1		73.8				0
12010053-12	AP00237	MS03-314-25	72.6		69.0				0
12010053-13	AP00238	MS03-314-26	68.9		71.1				0

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

	Advisory QC Limits.
SURR1 = TETRACHLORO-META-XYLENE	(17.9-137)
SURR2 = DECACHLORO[13C12]BIPHENYL	(42.5-134)

Form II-CLP-680(NEA-PACE)

Print Date: 1/20/2012
Lims Version : 5.0.6.1

Laboratory Control Spike Summary

FORM 3
EPA 680 LAB CONTROL SAMPLE (LCS) / LAB CONTROL SAMPLE DUPLICATE (LCSD) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078 SDG No: 12010053

LCS LRF ID: LCS-61 LCSD LRF ID: LCSD-61

LCS Lab File ID: MS03-314-19 LCSD Lab File ID: MS03-314-20

LCS Sample Inj Date: 01/11/2012 22:59:00 LCSD Sample Inj Date: 01/11/2012 23:48:00

LCS Lab Sample ID: AP00233L LCSD Lab Sample ID: AP00233S

COMPOUND	SPIKE ADDED (ug)	LCS CONCENTRATION (ug)	LCS PERCENT RECOVERY #	QC LIMITS[1] PERCENT RECOVERY
2-Chlorobiphenyl	0.500	0.367	73.4	(28.7-78.9)
2,3-Dichlorobiphenyl	0.500	0.350	70.0	(30.8-82.6)
2,4,5-Trichlorobiphenyl	0.500	0.359	71.8	(34.4-86.8)
2,2',4,6-Tetrachlorobiphenyl	1.00	0.668	66.8	(34.6-86.9)
2,2'3,4,5'-Pentachlorobiphenyl	1.00	0.668	66.8	(37.8-91.9)
2,2'4,4',5,6'-Hexachlorobiphenyl	1.00	0.703	70.3	(40.9-94.8)
2,2',3,4',5,6,6'-Heptachlorobiphenyl	1.50	1.06	70.7	(41.7-98.0)
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	1.50	1.01	67.4	(43.2-102)
Decachlorobiphenyl	2.50	1.60	64.1	(46.4-102)

COMPOUND	SPIKE ADDED (ug)	LCSD CONCENTRATION (ug)	LCSD PERCENT RECOVERY #	RPD #	QC LIMITS[1] RPD	REC
2-Chlorobiphenyl	0.500	0.375	74.9	2.02	40	(28.7-78.9)
2,3-Dichlorobiphenyl	0.500	0.357	71.5	2.12	40	(30.8-82.6)
2,4,5-Trichlorobiphenyl	0.500	0.373	74.5	3.69	40	(34.4-86.8)
2,2',4,6-Tetrachlorobiphenyl	1.00	0.698	69.8	4.39	40	(34.6-86.9)
2,2'3,4,5'-Pentachlorobiphenyl	1.00	0.697	69.7	4.25	40	(37.8-91.9)
2,2'4,4',5,6'-Hexachlorobiphenyl	1.00	0.748	74.8	6.20	40	(40.9-94.8)
2,2',3,4',5,6,6'-Heptachlorobiphenyl	1.50	1.10	73.3	3.61	40	(41.7-98.0)
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	1.50	1.02	67.9	0.739	40	(43.2-102)
Decachlorobiphenyl	2.50	1.65	65.9	2.77	40	(46.4-102)

Column to be used to flag recovery values

* Values outside of QC limits

[1] QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 18 outside limits.

RPD: 0 out of 9 outside limits.

COMMENTS:

FORM 3
EPA 680 LAB CONTROL SAMPLE (LCS) / LAB CONTROL SAMPLE DUPLICATE (LCSD) RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078 SDG No: 12010053

LCS LRF ID: LCS-60 LCSD LRF ID: LCSD-60

LCS Lab File ID: MS03-313-4 LCSD Lab File ID: MS03-313-5

LCS Sample Inj Date: 01/11/2012 09:47:00 LCSD Sample Inj Date: 01/11/2012 10:37:00

LCS Lab Sample ID: AP00226L LCSD Lab Sample ID: AP00226S

COMPOUND	SPIKE ADDED (ug)	LCS CONCENTRATION (ug)	LCS PERCENT RECOVERY	#	QC LIMITS[1] PERCENT RECOVERY
2-Chlorobiphenyl	0.500	0.00	12.5	*	(28.7-78.9)
2,3-Dichlorobiphenyl	0.500	0.00	14.1	*	(30.8-82.6)
2,4,5-Trichlorobiphenyl	0.500	0.00	17.4	*	(34.4-86.8)
2,2',4,6-Tetrachlorobiphenyl	1.00	0.163	16.3	*	(34.6-86.9)
2,2'3,4,5'-Pentachlorobiphenyl	1.00	0.212	21.2	*	(37.8-91.9)
2,2'4,4',5,6'-Hexachlorobiphenyl	1.00	0.221	22.1	*	(40.9-94.8)
2,2',3,4',5,6,6'-Heptachlorobiphenyl	1.50	0.322	21.4	*	(41.7-98.0)
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	1.50	0.325	21.7	*	(43.2-102)
Decachlorobiphenyl	2.50	0.691	27.6	*	(46.4-102)

COMPOUND	SPIKE ADDED (ug)	LCSD CONCENTRATION (ug)	LCSD PERCENT RECOVERY	#	RPD	#	QC LIMITS[1] RPD	REC
2-Chlorobiphenyl	0.500	0.351	70.3		200	*	40	(28.7-78.9)
2,3-Dichlorobiphenyl	0.500	0.340	68.0		200	*	40	(30.8-82.6)
2,4,5-Trichlorobiphenyl	0.500	0.358	71.6		200	*	40	(34.4-86.8)
2,2',4,6-Tetrachlorobiphenyl	1.00	0.651	65.1		200	*	40	(34.6-86.9)
2,2'3,4,5'-Pentachlorobiphenyl	1.00	0.682	68.2		200	*	40	(37.8-91.9)
2,2'4,4',5,6'-Hexachlorobiphenyl	1.00	0.707	70.7		200	*	40	(40.9-94.8)
2,2',3,4',5,6,6'-Heptachlorobiphenyl	1.50	1.06	70.8		200	*	40	(41.7-98.0)
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	1.50	1.02	68.0		200	*	40	(43.2-102)
Decachlorobiphenyl	2.50	1.62	64.6		200	*	40	(46.4-102)

Column to be used to flag recovery values

* Values outside of QC limits

[1] QC Limits based upon laboratory defaults.

Spike Recovery: 9 out of 18 outside limits.

RPD: 9 out of 9 outside limits.

COMMENTS:

Method Blank Summary

FORM 4
EPA 680 METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12010053
ELAP ID No:	11078	Blank Sample ID:	SBLK-60
Matrix:	Polyurethane Foam (PF10)	Method Blank Nea ID No:	AP00226B
Instrument ID:	MS03	Lab File ID:	MS03-313-6
Extraction Type:	Soxhlet Method (3540C)	Date Extracted:	01/05/2012
GC Column (1):	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	01/11/2012
		Time Analyzed:	11:26:00

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-60(LAB CONTROL SPIKE)	AP00226L	MS03-313-4	01/11/2012 09:47:00
LCSD-60(LAB CONTROL SPIKE DUPLICATE)	AP00226S	MS03-313-5	01/11/2012 10:37:00
VS-1-28	AP00226	MS03-313-7	01/11/2012 12:15:00
VS-4-28	AP00227	MS03-313-8	01/11/2012 13:05:00
VS-12-28	AP00228	MS03-313-9	01/11/2012 13:54:00
VS-8-28	AP00229	MS03-313-10	01/11/2012 14:43:00
VS-8-28-DUP	AP00230	MS03-313-11	01/11/2012 15:32:00
VS-BG-28	AP00231	MS03-313-12	01/11/2012 16:21:00
VS-TB-28	AP00232	MS03-313-13	01/11/2012 17:10:00

FORM 4
EPA 680 METHOD BLANK SUMMARY

Laboratory Name:	Pace Analytical Services, Inc.	SDG No:	12010053
ELAP ID No:	11078	Blank Sample ID:	SBLK-61
Matrix:	Polyurethane Foam (PF4)	Method Blank Nea ID No:	AP00233B
Instrument ID:	MS03	Lab File ID:	MS03-314-18
Extraction Type:	Soxhlet Method (3540C)	Date Extracted:	01/05/2012
GC Column (1):	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm	Date Analyzed:	01/11/2012
		Time Analyzed:	22:10:00

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-61(LAB CONTROL SPIKE)	AP00233L	MS03-314-19	01/11/2012 22:59:00
LCSD-61(LAB CONTROL SPIKE DUPLICATE)	AP00233S	MS03-314-20	01/11/2012 23:48:00
A-28	AP00233	MS03-314-21	01/12/2012 00:37:00
B-28	AP00234	MS03-314-22	01/12/2012 01:27:00
C-28	AP00235	MS03-314-23	01/12/2012 02:16:00
BG-28	AP00236	MS03-314-24	01/12/2012 03:05:00
BG-28-DUP	AP00237	MS03-314-25	01/12/2012 03:54:00
TB-28	AP00238	MS03-314-26	01/12/2012 04:44:00

Instrument Performance Check

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE ANALYTICAL - NY LAB Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: EPA680-081611.B

Lab File ID: M3081601 DFTPP Injection Date: 08/16/11

Instrument ID: GCMS03 DFTPP Injection Time: 1026

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
127	40.0 - 60.0% of mass 198	50.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.1
275	10.0 - 30.0% of mass 198	15.8
365	Greater than 1.0% of mass 198	4.72
441	Present, but less than mass 443	14.1
442	40.0 - 110.0% of mass 198	88.8
443	17.0 - 23.0% of mass 442	20.0 (22.5)1

1-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WDM3-0816A	WDM3-0816A	M3081602	08/16/11	1055
02	ICAL-7	ICAL-7	M3081603	08/16/11	1144
03	ICAL-6	ICAL-6	M3081604	08/16/11	1233
04	ICAL-5	ICAL-5	M3081605	08/16/11	1322
05	ICAL-4	ICAL-4	M3081606	08/16/11	1411
06	ICAL-3	ICAL-3	M3081607	08/16/11	1501
07	ICAL-2	ICAL-2	M3081608	08/16/11	1550
08	ICAL-1	ICAL-1	M3081609	08/16/11	1639
09					
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page 1 of 1

FORM V SV

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081601.d Page 1

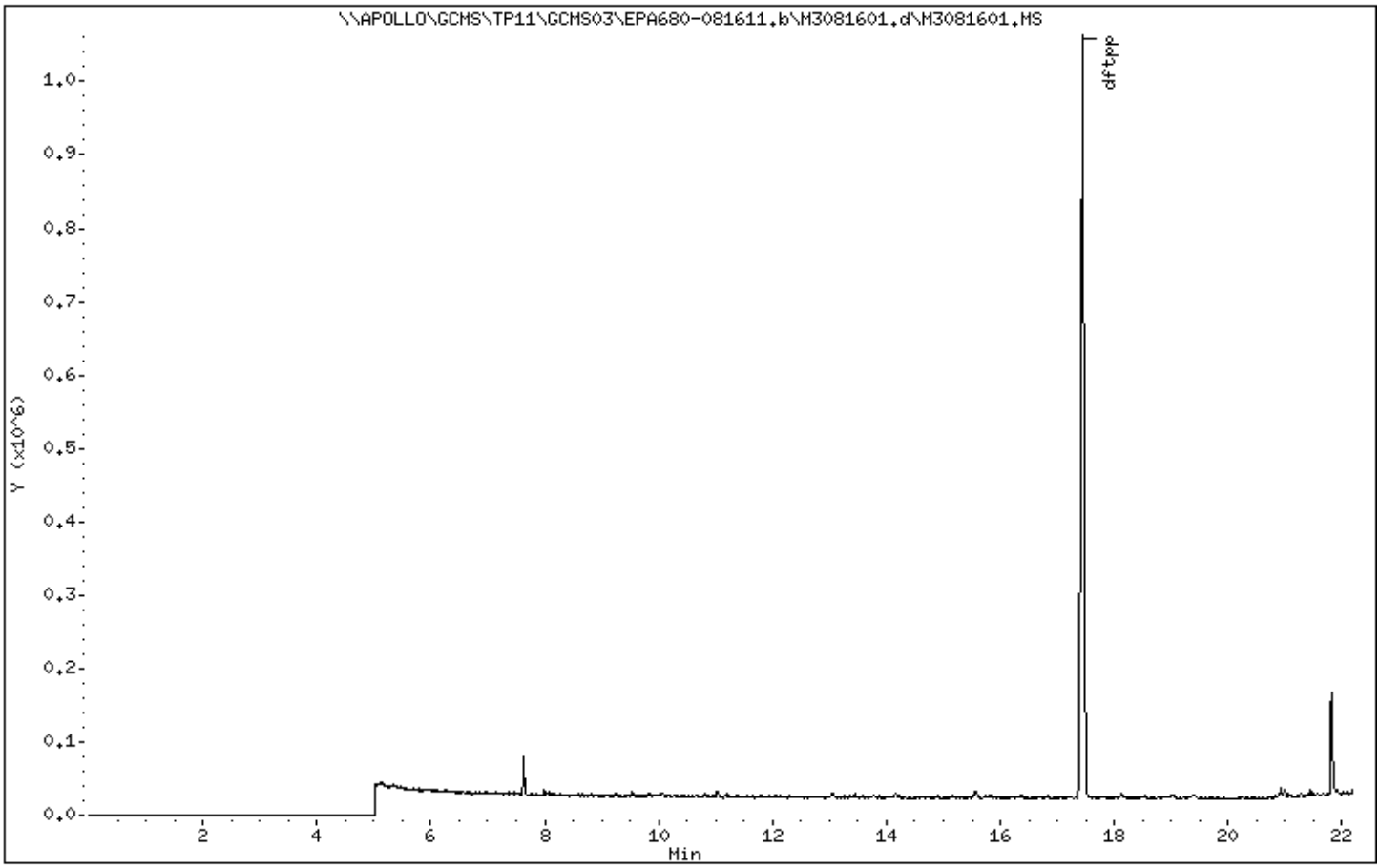
Date : 16-AUG-2011 10:26

Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25



Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081601.d

Date : 16-AUG-2011 10:26

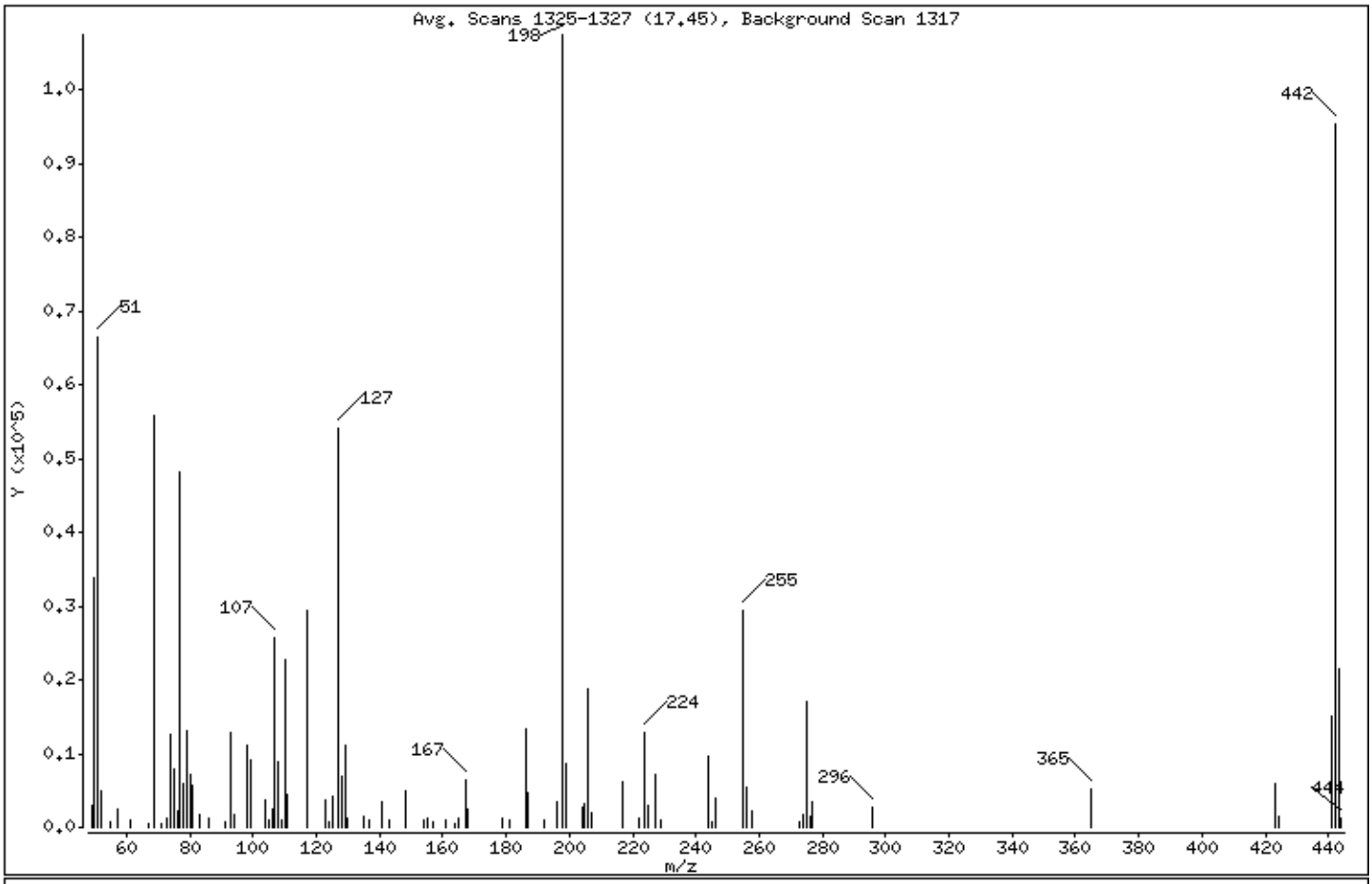
Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
127	40.00 - 60.00% of mass 198	50.23
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	8.14
275	10.00 - 30.00% of mass 198	15.77
365	Greater than 1.00% of mass 198	4.72
441	Present, but less than mass 443	14.05
442	40.00 - 110.00% of mass 198	88.85
443	17.00 - 23.00% of mass 442	19.97 (22.48)

Date : 16-AUG-2011 10:26

Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25

Data File: M3081601.d
Spectrum: Avg. Scans 1325-1327 (17.45), Background Scan 1317
Location of Maximum: 198.00
Number of points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
49.00	2888	98.00	10998	155.00	1229	229.00	980
50.00	33816	99.00	9120	157.00	857	244.00	9573
51.00	66480	104.00	3732	161.00	925	245.00	788
52.00	4928	105.00	921	164.00	563	246.00	3845
55.00	693	106.00	2397	165.00	1170	255.00	29472
57.00	2562	107.00	25776	167.00	6350	256.00	5390
61.00	881	108.00	8900	168.00	2558	258.00	2307
67.00	517	109.00	999	179.00	1225	273.00	735
69.00	55880	110.00	22800	181.00	900	274.00	1775
71.00	456	111.00	4517	186.00	13334	275.00	16944
73.00	1201	117.00	29320	187.00	4634	276.00	1470
74.00	12667	123.00	3794	192.00	1102	277.00	3393
75.00	7914	124.00	793	196.00	3434	296.00	2821
76.00	2333	125.00	4189	198.00	107472	365.00	5074
77.00	48280	127.00	53984	199.00	8744	423.00	5988
78.00	5970	128.00	6909	204.00	2699	424.00	1366
79.00	13006	129.00	11121	205.00	3167	441.00	15104
80.00	7098	130.00	1126	206.00	18696	442.00	95488
81.00	5773	135.00	1568	207.00	2090	443.00	21464
83.00	1794	137.00	1092	217.00	6142	444.00	1229
86.00	1272	141.00	3533	222.00	1348		
91.00	724	143.00	980	224.00	12766		
93.00	12731	148.00	4863	225.00	2914		
94.00	1720	154.00	1102	227.00	7270		

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE ANALYTICAL - NY LAB Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 12010053TRC-DS

Lab File ID: M3011101 DFTPP Injection Date: 01/11/12

Instrument ID: GCMS03 DFTPP Injection Time: 0743

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
127	40.0 - 60.0% of mass 198	45.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	16.8
365	Greater than 1.0% of mass 198	5.03
441	Present, but less than mass 443	12.4
442	40.0 - 110.0% of mass 198	65.4
443	17.0 - 23.0% of mass 442	14.4 (22.1)1

1-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WDM3-0111A	WDM3-0111A	M3011102	01/11/12	0808
02	CCV3-0111A	CCV3-0111A	M3011103	01/11/12	0858
03	AP00226LCS	AP00226L	M3011104	01/11/12	0947
04	AP00226S	AP00226S	M3011105	01/11/12	1037
05	AP00226BLANK	AP00226B	M3011106	01/11/12	1126
06	VS-1-28	AP00226	M3011107	01/11/12	1215
07	VS-4-28	AP00227	M3011108	01/11/12	1305
08	VS-12-28	AP00228	M3011109	01/11/12	1354
09	VS-8-28	AP00229	M3011110	01/11/12	1443
10	VS-8-28-DUP	AP00230	M3011111	01/11/12	1532
11	VS-BG-28	AP00231	M3011112	01/11/12	1621
12	VS-TB-28	AP00232	M3011113	01/11/12	1710
13	CCV3-0111B	CCV3-0111B	M3011114	01/11/12	1800
14					
15					
16					
17					
18					
19					
20					
21					
22					

page 1 of 1

FORM V SV

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011101.d Page 1

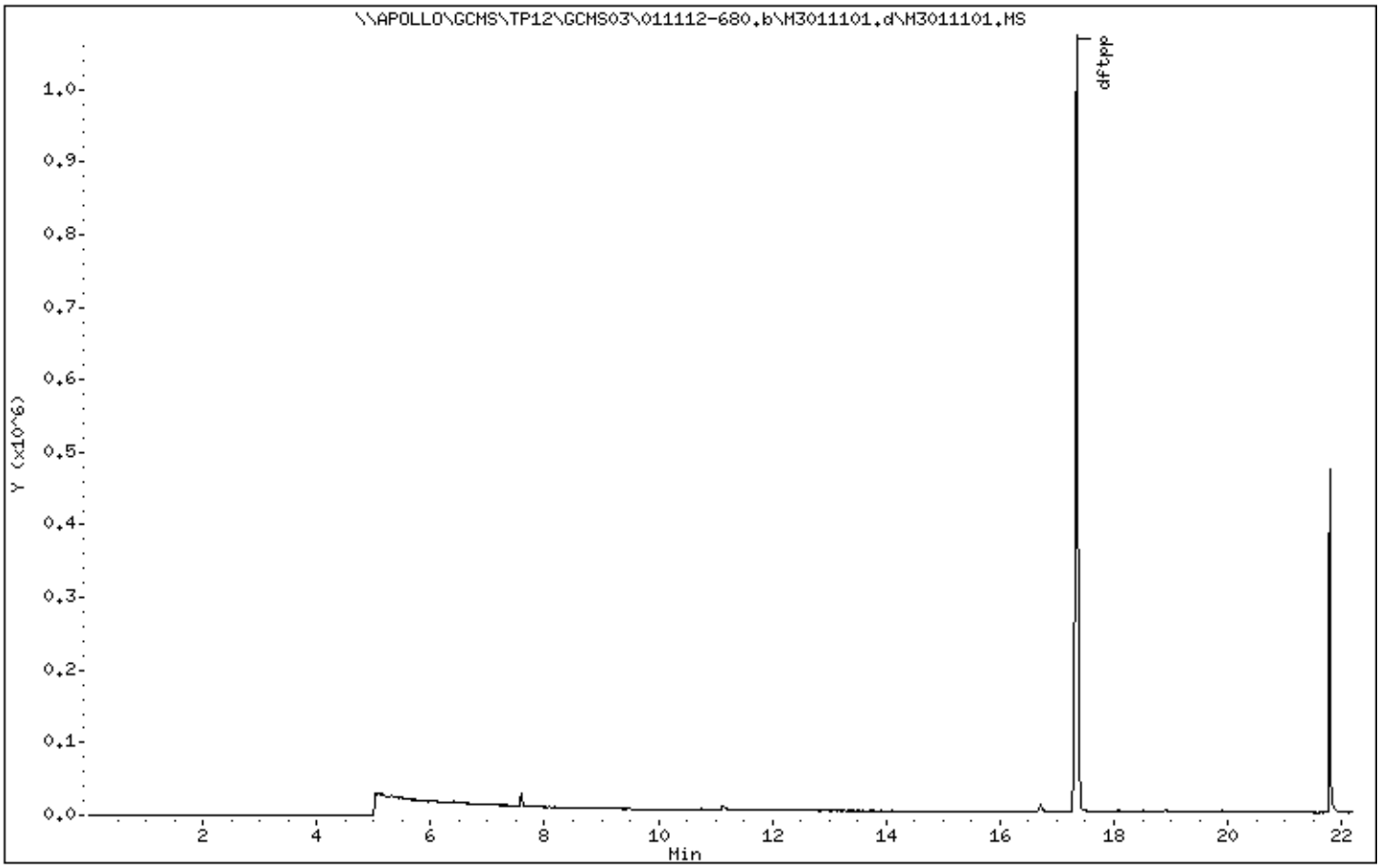
Date : 11-JAN-2012 07:43

Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25



Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011101.d

Date : 11-JAN-2012 07:43

Client ID: 20ng DFTPP-1

Instrument: GCMS03.i

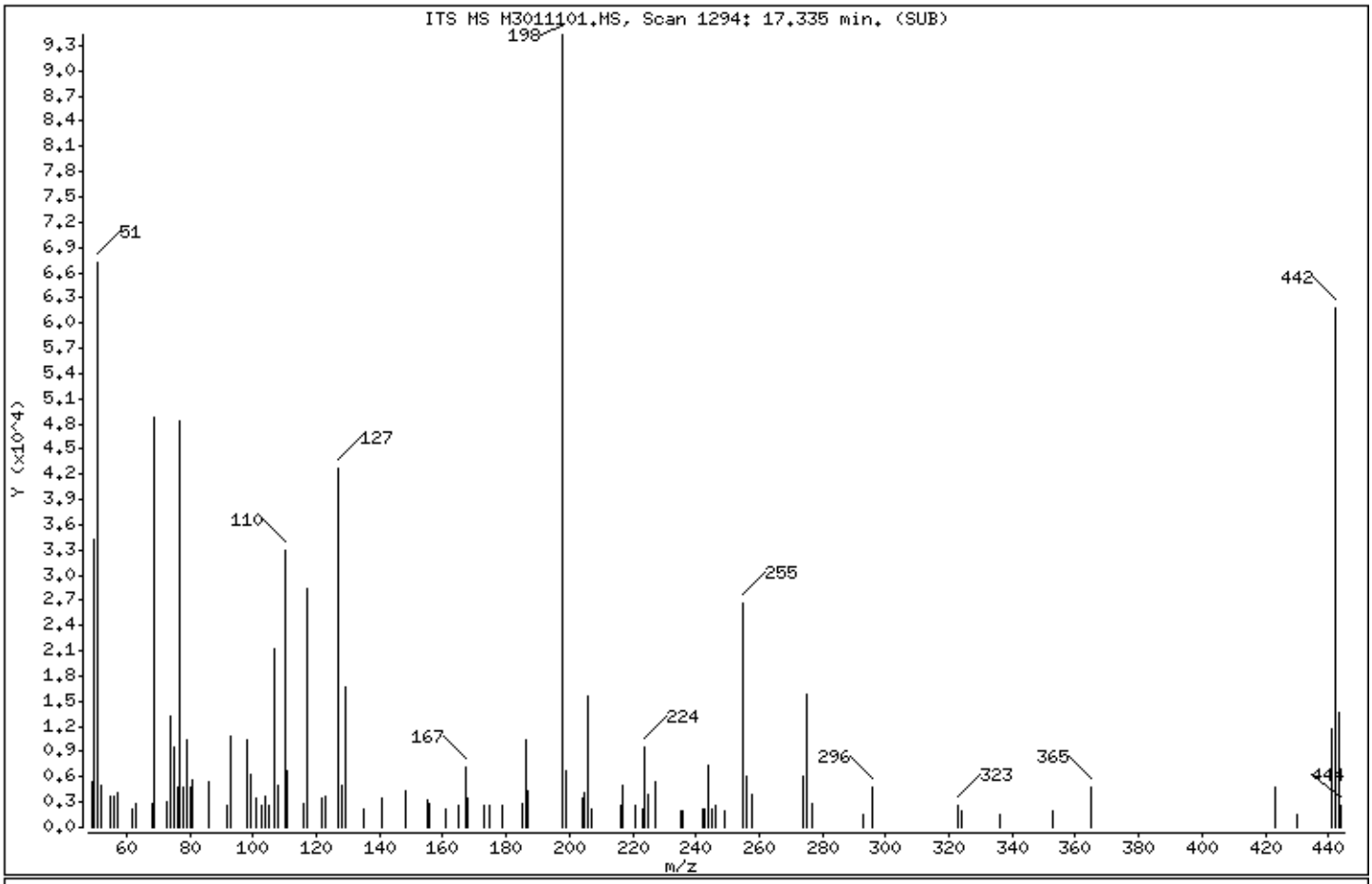
Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
127	40.00 - 60.00% of mass 198	45.30
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.05
275	10.00 - 30.00% of mass 198	16.78
365	Greater than 1.00% of mass 198	5.03
441	Present, but less than mass 443	12.42
442	40.00 - 110.00% of mass 198	65.42
443	17.00 - 23.00% of mass 442	14.43 (22.06)

Date : 11-JAN-2012 07:43

Client ID: 20ng DFTPP-1 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-1

Operator: RMS

Column phase: DBXLB Column diameter: 0.25

Data File: M3011101.d
Spectrum: ITS MS M3011101.MS, Scan 1294: 17.335 min. (SUB)
Location of Maximum: 198.00
Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
49.00	5504	99.00	6329	168.00	3481	244.00	7278
50.00	34344	101.00	3481	173.00	2531	245.00	2215
51.00	67280	103.00	2531	175.00	2531	246.00	2531
52.00	5022	104.00	3734	179.00	2531	249.00	1898
55.00	3696	105.00	2500	185.00	2848	255.00	26576
56.00	3579	107.00	21200	186.00	10443	256.00	6012
57.00	4178	108.00	5063	187.00	4430	258.00	3797
62.00	2190	110.00	32904	198.00	94296	274.00	6012
63.00	2848	111.00	6645	199.00	6645	275.00	15822
68.00	2792	116.00	2848	204.00	3481	277.00	2848
69.00	48752	117.00	28480	205.00	4113	293.00	1582
73.00	3120	122.00	3481	206.00	15506	296.00	4746
74.00	13291	123.00	3779	207.00	2149	323.00	2531
75.00	9462	127.00	42720	216.00	2531	324.00	1898
76.00	4712	128.00	5063	217.00	5063	336.00	1582
77.00	48368	129.00	16768	221.00	2531	353.00	1898
78.00	4746	135.00	2215	223.00	2215	365.00	4746
79.00	10402	141.00	3481	224.00	9493	423.00	4746
80.00	4746	148.00	4430	225.00	3797	430.00	1582
81.00	5696	155.00	3164	227.00	5379	441.00	11708
86.00	5316	156.00	2848	235.00	1898	442.00	61688
92.00	2531	161.00	2215	236.00	1898	443.00	13607
93.00	10731	165.00	2531	242.00	2215	444.00	2531
98.00	10421	167.00	7256	243.00	2215		

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE ANALYTICAL - NY LAB Contract:

Lab Code: 11078 Case No.: SAS No.: SDG No.: 12010053TRC-DS

Lab File ID: M3011115 DFTPP Injection Date: 01/11/12

Instrument ID: GCMS03 DFTPP Injection Time: 1939

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
127	40.0 - 60.0% of mass 198	45.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	16.4
365	Greater than 1.0% of mass 198	6.03
441	Present, but less than mass 443	12.7
442	40.0 - 110.0% of mass 198	63.1
443	17.0 - 23.0% of mass 442	13.6 (21.5)1

1-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WDM3-0111B	WDM3-0111B	M3011116	01/11/12	2032
02	CCV3-0111C	CCV3-0111C	M3011117	01/11/12	2121
03	AP00233BLANK	AP00233B	M3011118	01/11/12	2210
04	AP00233LCS	AP00233L	M3011119	01/11/12	2259
05	AP00233S	AP00233S	M3011120	01/11/12	2348
06	A-28	AP00233	M3011121	01/12/12	0037
07	B-28	AP00234	M3011122	01/12/12	0127
08	C-28	AP00235	M3011123	01/12/12	0216
09	BG-28	AP00236	M3011124	01/12/12	0305
10	BG-28-DUP	AP00237	M3011125	01/12/12	0354
11	TB-28	AP00238	M3011126	01/12/12	0444
12	CCV3-0111D	CCV3-0111D	M3011128	01/12/12	0622
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page 1 of 1

FORM V SV

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011115.d Page 1

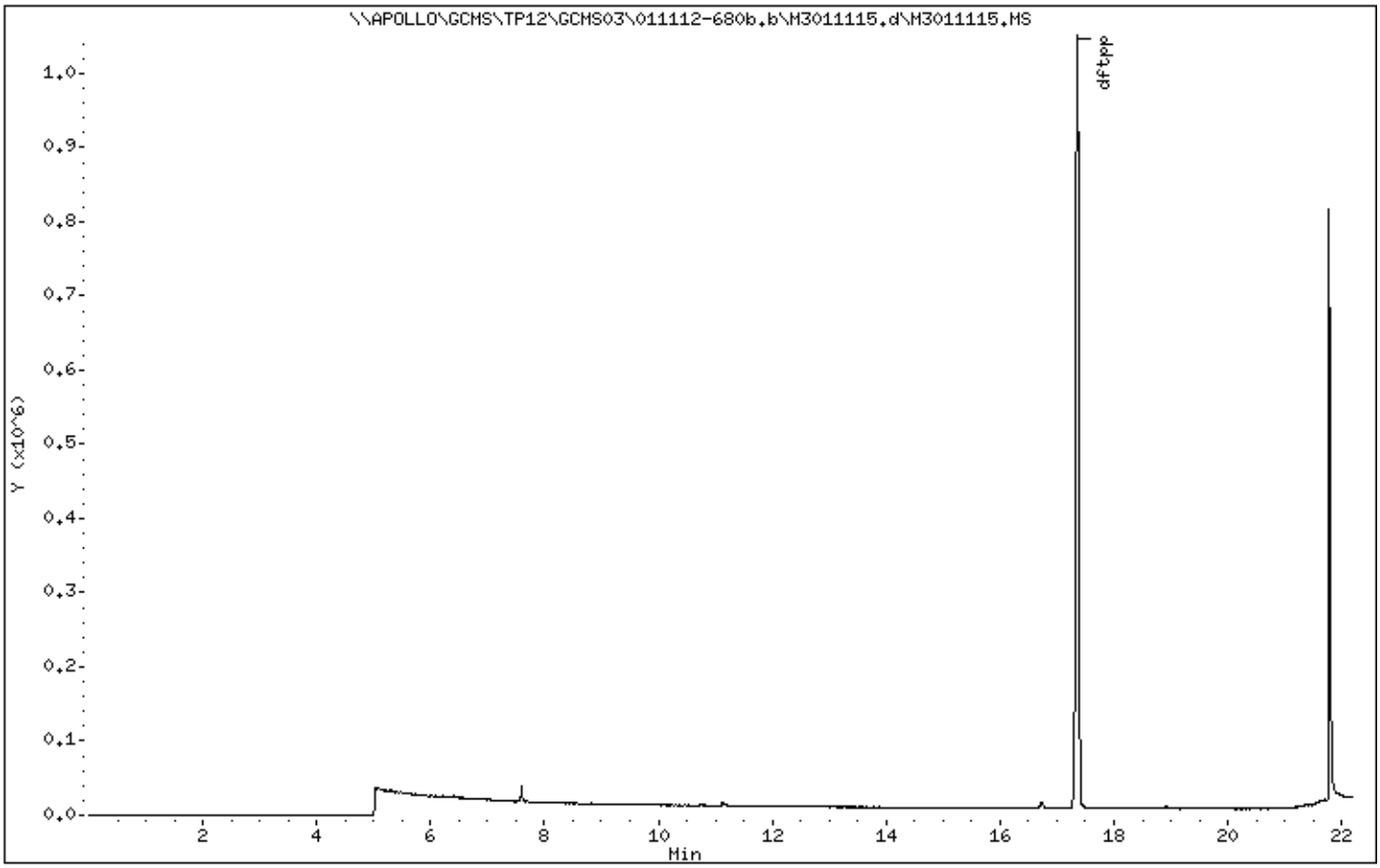
Date : 11-JAN-2012 19:39

Client ID: 20ng DFTPP-2 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-2

Operator: RMS

Column phase: DBXLB Column diameter: 0.25



Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011115.d

Date : 11-JAN-2012 19:39

Client ID: 20ng DFTPP-2

Instrument: GCMS03.i

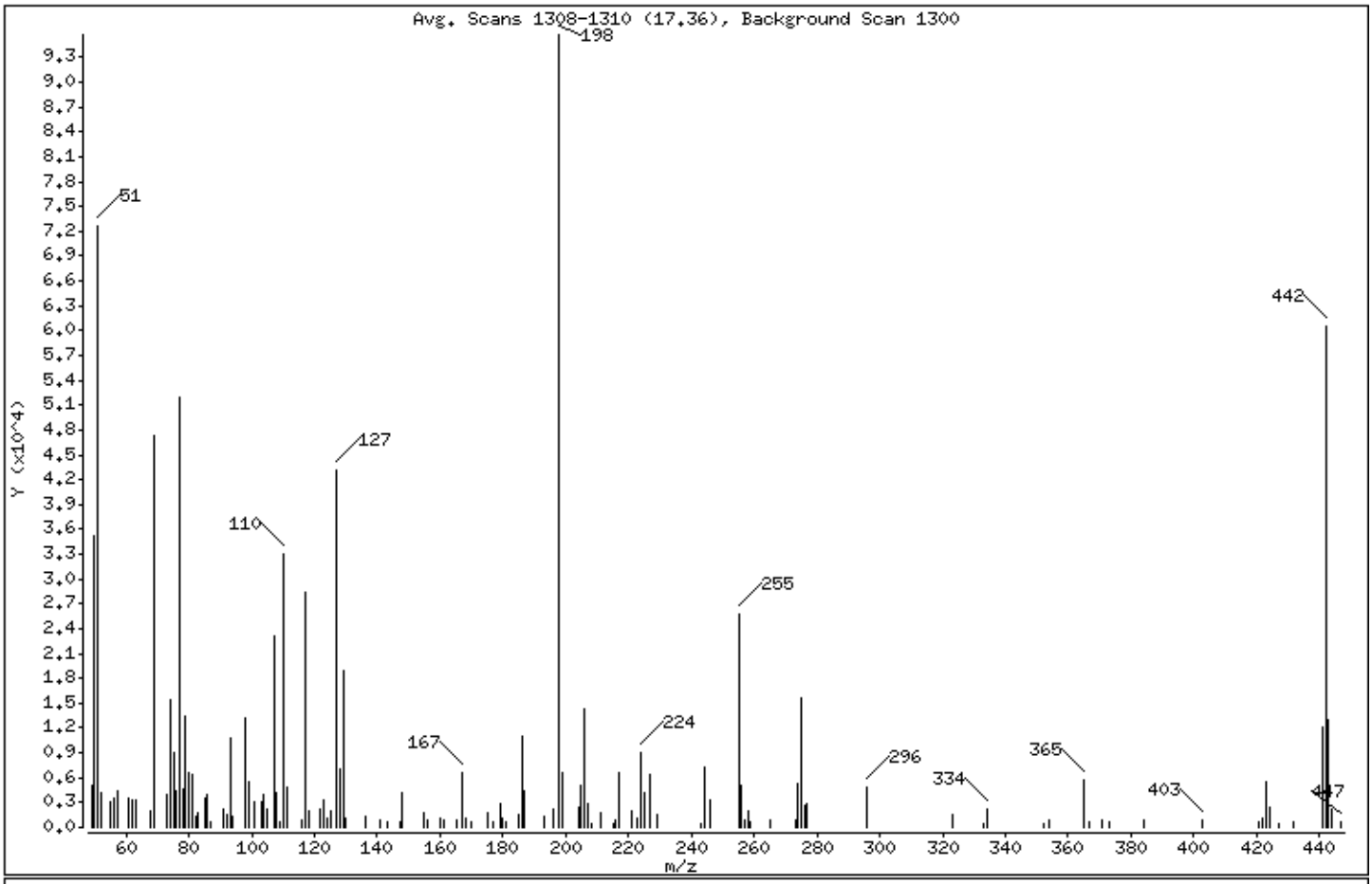
Sample Info: 20ng DFTPP-2

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
127	40.00 - 60.00% of mass 198	45.14
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.82
275	10.00 - 30.00% of mass 198	16.42
365	Greater than 1.00% of mass 198	6.03
441	Present, but less than mass 443	12.69
442	40.00 - 110.00% of mass 198	63.14
443	17.00 - 23.00% of mass 442	13.59 (21.52)

Date : 11-JAN-2012 19:39

Client ID: 20ng DFTPP-2 Instrument: GCMS03.i

Sample Info: 20ng DFTPP-2

Operator: RMS

Column phase: DBXLB Column diameter: 0.25

Data File: M3011115.d
Spectrum: Avg. Scans 1308-1310 (17.36), Background Scan 1300
Location of Maximum: 198.00
Number of points: 129

m/z	Y	m/z	Y	m/z	Y	m/z	Y
49.00	5101	103.00	3098	177.00	687	259.00	570
50.00	35264	104.00	3892	179.00	2938	265.00	845
51.00	72600	105.00	2187	180.00	1141	273.00	799
52.00	4125	107.00	23152	181.00	687	274.00	5367
55.00	3098	108.00	4220	185.00	1548	275.00	15722
56.00	3550	109.00	725	186.00	10901	276.00	2691
57.00	4323	110.00	32904	187.00	4370	277.00	2938
61.00	3417	111.00	4783	193.00	1360	296.00	4742
62.00	3247	116.00	845	196.00	2142	323.00	1486
63.00	3329	117.00	28328	198.00	95728	333.00	515
68.00	2002	118.00	2031	199.00	6525	334.00	2245
69.00	47232	122.00	2172	204.00	2400	352.00	515
73.00	3949	123.00	3291	205.00	5110	354.00	773
74.00	15395	124.00	1058	206.00	14281	365.00	5768
75.00	9109	125.00	1980	207.00	2898	367.00	724
76.00	4391	127.00	43208	208.00	389	371.00	845
77.00	51960	128.00	6953	211.00	1865	373.00	687
78.00	4621	129.00	19032	215.00	515	384.00	773
79.00	13365	130.00	1062	216.00	799	403.00	799
80.00	6645	136.00	1400	217.00	6525	421.00	724
81.00	6390	141.00	859	221.00	1945	422.00	1119
82.00	1306	143.00	601	223.00	1207	423.00	5469
83.00	1814	147.00	684	224.00	9075	424.00	2324
85.00	3458	148.00	4255	225.00	4084	427.00	429
86.00	3854	155.00	1688	227.00	6307	432.00	570
87.00	601	156.00	845	229.00	1481	441.00	12148
91.00	2173	160.00	1086	243.00	515	442.00	60440
92.00	1552	161.00	913	244.00	7363	443.00	13007
93.00	10710	165.00	966	246.00	3373	444.00	2152
94.00	1286	167.00	6664	255.00	25848	447.00	603
98.00	13210	168.00	1207	256.00	5146		
99.00	5536	170.00	684	257.00	966		
101.00	3094	175.00	1739	258.00	1999		

Sample Analysis Data

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: VS-1-28
Lab Sample ID: 12010053-01 (AP00226)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-313-7	PCBs by EPA Method TO-10A/680	01/11/2012 12:15	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16874	EPA 3540C	01/05/2012 15:30	HAG	1.30m³	1.00 mL	NA

Analyte	CAS No.	Result (ug/m³)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00385	1.00	U	MS03-313-7
Dichlorobiphenyl	25512-42-9	ND	0.00385	1.00	U	MS03-313-7
Trichlorobiphenyl	25323-68-6	ND	0.00385	1.00	U	MS03-313-7
Tetrachlorobiphenyl	26914-33-0	ND	0.00769	1.00	U	MS03-313-7
Pentachlorobiphenyl	25429-29-2	ND	0.00769	1.00	U	MS03-313-7
Hexachlorobiphenyl	26601-64-9	ND	0.00769	1.00	U	MS03-313-7
Heptachlorobiphenyl	28655-71-2	ND	0.0115	1.00	U	MS03-313-7
Octachlorobiphenyl	55722-26-4	ND	0.0115	1.00	U	MS03-313-7
Nonachlorobiphenyl	53742-07-7	ND	0.0192	1.00	U	MS03-313-7
Decachlorobiphenyl	2051-24-3	ND	0.0192	1.00	U	MS03-313-7
Total PCB	1336-36-3	ND		1.00	U	MS03-313-7

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	67.4	70.1-116	*	MS03-313-7
Tetrachloro-meta-xylene	877-09-8	83.4	44.4-104		MS03-313-7

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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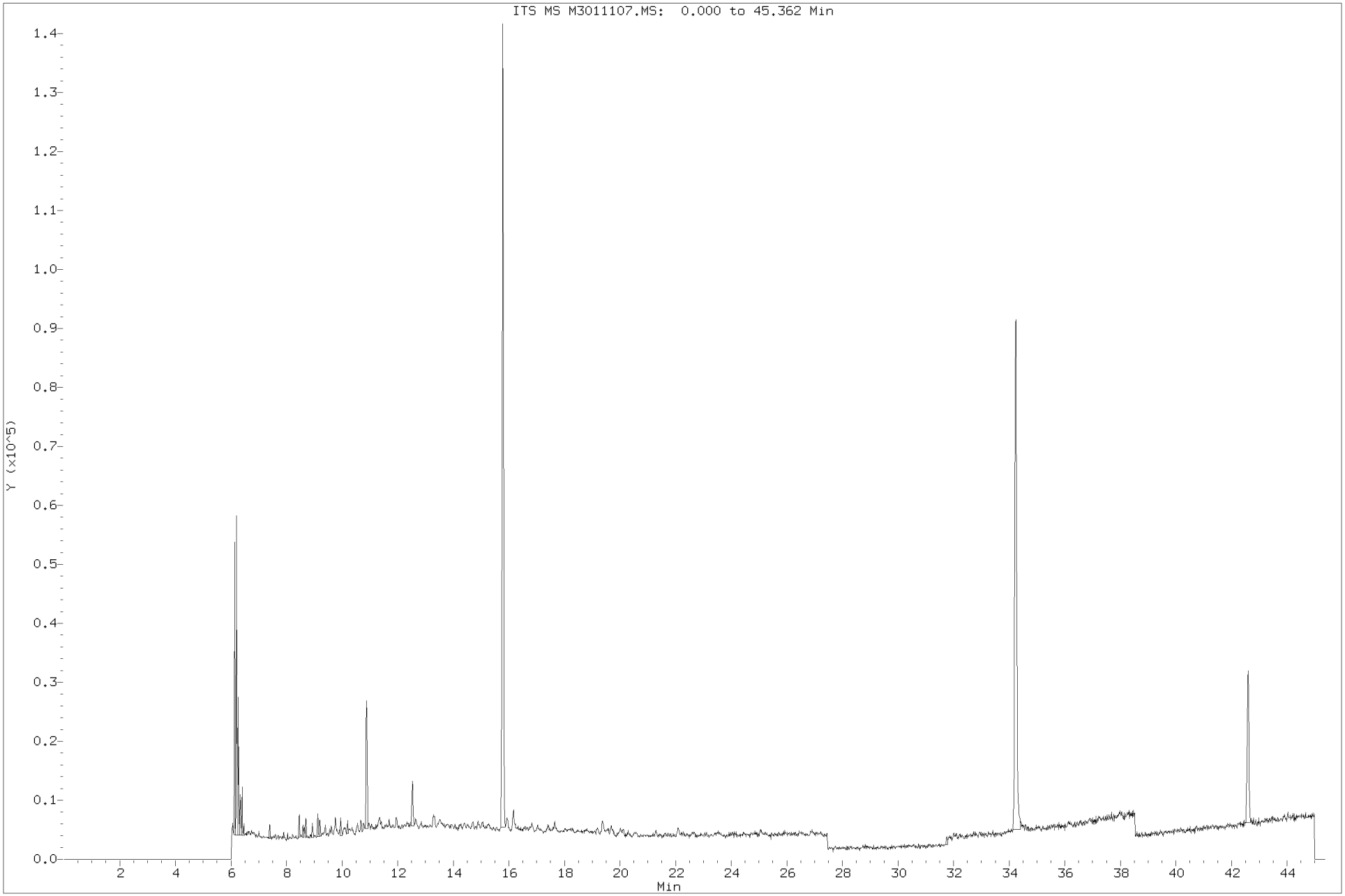
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011107.d/M3011107.MS
Injection Date: 11-JAN-2012 12:15
Instrument: GCMS03.i
Client Sample ID: VS-1-28



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	VS-1-28
Matrix:	TO-10A PUF	Lab Sample ID:	AP00226
Sample weight:	1.3 cubic m	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	12:15

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug/m^3	ug/m^3	ug/m^3	
				Mono Total:		0.00385	0.00385	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug/m^3	ug/m^3	ug/m^3	
				Di Total:		0.00385	0.00385	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Tri Total:		0.00385	0.00385	ND	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Tetra Total:		0.00769	0.00769	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug/m^3	ug/m^3	ug/m^3	
				Penta Total:		0.00769	0.00769	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug/m^3	ug/m^3	ug/m^3	
				Hexa Total:		0.00769	0.00769	ND	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Hepta Total:		0.0115	0.0115	ND	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Octa Total:		0.0115	0.0115	ND	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Nona Total:		0.0192	0.0192	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Deca Total:		0.0192	0.0192	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL	
11.945	946	11.949	744	1.3	0.2041		0.0167	
				TCMX Total:			0.0167	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.598	19057	42.591	16251	1.2	1.0171		0.0674	
				Deca Total:			0.0674	

TCMX Recovery %	83.4 %
Deca Recovery	67.4 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.232	222225	34.233	45174	4.9	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011107"		"M3011107"		"M3011107"		"M3011107"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.779	220216	15.776	3350	6.135	4526	9.391	1001
16.151	1107			6.203	8064	9.766	1013
16.166	1263			6.269	3094		
				6.404	1096		
				9.392	1135		
				9.611	1115		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011107"		"M3011107"		"M3011107"		"M3011107"		"M3011107"		"M3011107"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				6.135	4526	9.391	1001	15.788	23398	15.779	220216
				6.203	8064	9.766	1013	16.164	2121	16.151	1107
				6.269	3094					16.166	1263
				6.404	1096						
				9.392	1135						
				9.611	1115						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011107"		"M3011107"		"M3011107"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
				8.625	1009
				13.293	2451

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011107"		"M3011107"		"M3011107"		"M3011107"		"M3011107"		"M3011107"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				15.788	23398	15.779	220216				
				16.164	2121	16.151	1107				
						16.166	1263				

Extracted Ion Current Profiles

Tetrachlorobiphenyls					
"M3011107"	"M3011107"	"M3011107"	"M3011107"	"M3011107"	"M3011107"
m/z 292	m/z 290	m/z 220	m/z 222	m/z 360	m/z 362
		9.197 1777			

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011107"		"M3011107"				"M3011107"		"M3011107"			"M3011107"		"M3011107"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.945	946	11.949	744	424	240	34.232	222225	17.648	2043	188	15.779	220216	7.397	2906
12.358	463	13.196	319	426	241	34.409	2491	34.233	45174	189	16.151	1107	9.202	2087
17.037	409	17.442	291	428							16.166	1263	9.627	1130
26.482	636	17.645	658	430									9.836	1536
31.121	271	31.134	338	498									12.072	1060
32.022	1986	34.219	2051	500									15.780	36466
		34.241	2399										15.944	2110
													16.157	1205
													17.038	1217

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.598	19057	42.591	16251
512				

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: VS-4-28
Lab Sample ID: 12010053-02 (AP00227)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-313-8	PCBs by EPA Method TO-10A/680	01/11/2012 13:05	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16874	EPA 3540C	01/05/2012 15:30	HAG	1.20m³	1.00 mL	NA

Analyte	CAS No.	Result (ug/m³)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00417	1.00	U	MS03-313-8
Dichlorobiphenyl	25512-42-9	ND	0.00417	1.00	U	MS03-313-8
Trichlorobiphenyl	25323-68-6	ND	0.00417	1.00	U	MS03-313-8
Tetrachlorobiphenyl	26914-33-0	ND	0.00833	1.00	U	MS03-313-8
Pentachlorobiphenyl	25429-29-2	ND	0.00833	1.00	U	MS03-313-8
Hexachlorobiphenyl	26601-64-9	ND	0.00833	1.00	U	MS03-313-8
Heptachlorobiphenyl	28655-71-2	ND	0.0125	1.00	U	MS03-313-8
Octachlorobiphenyl	55722-26-4	ND	0.0125	1.00	U	MS03-313-8
Nonachlorobiphenyl	53742-07-7	ND	0.0208	1.00	U	MS03-313-8
Decachlorobiphenyl	2051-24-3	ND	0.0208	1.00	U	MS03-313-8
Total PCB	1336-36-3	ND		1.00	U	MS03-313-8

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	68.1	70.1-116	*	MS03-313-8
Tetrachloro-meta-xylene	877-09-8	76.5	44.4-104		MS03-313-8

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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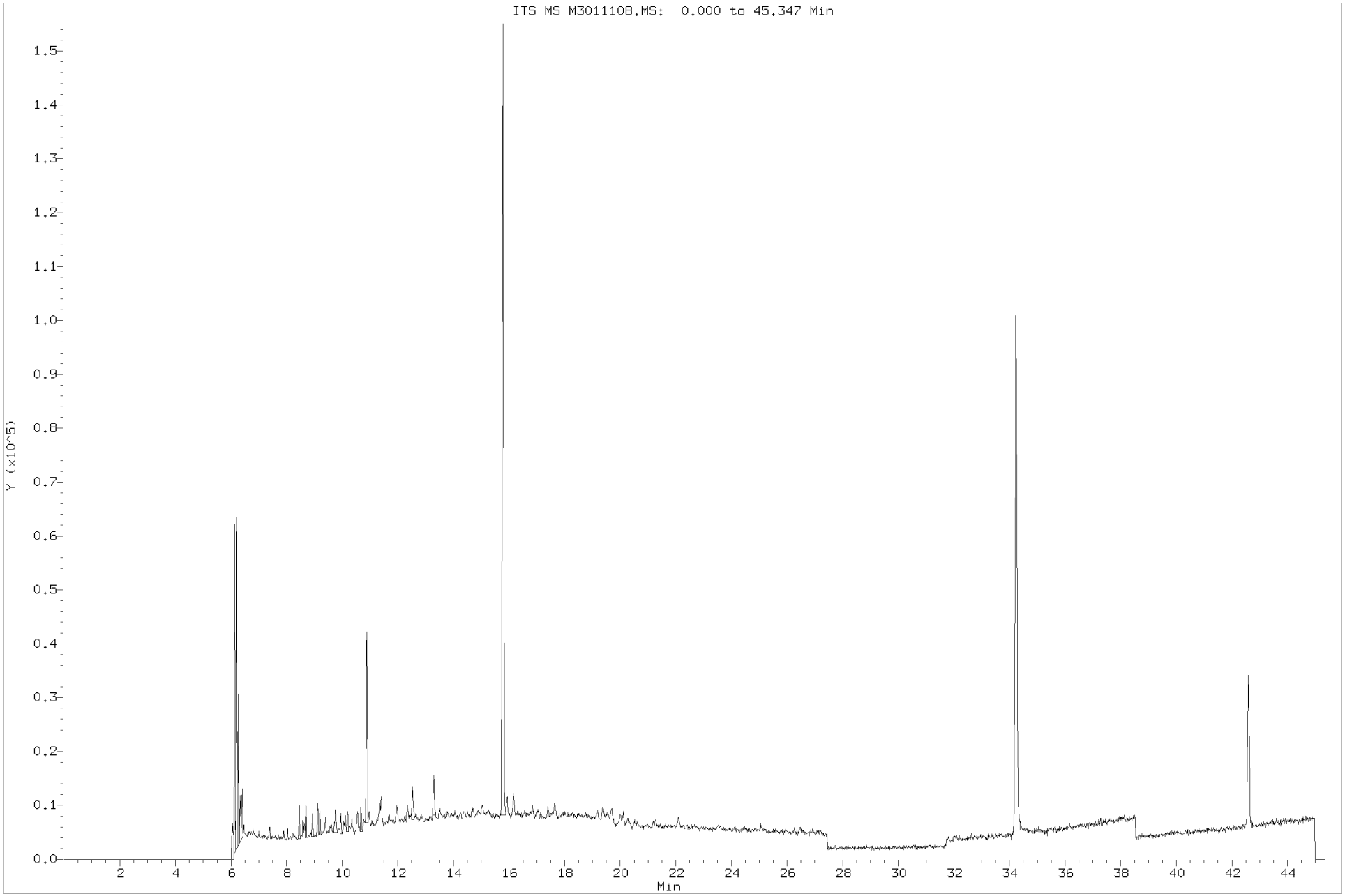
Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011108.d/M3011108.MS
Injection Date: 11-JAN-2012 13:05
Instrument: GCMS03.i
Client Sample ID: VS-4-28



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	VS-4-28
Matrix:	TO-10A PUF	Lab Sample ID:	AP00227
Sample weight:	1.2 cubic m	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	13:05

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug/m^3	ug/m^3	ug/m^3	
				Mono Total:		0.00417	0.00417	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug/m^3	ug/m^3	ug/m^3	
				Di Total:		0.00417	0.00417	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Tri Total:		0.00417	0.00417	ND	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Tetra Total:		0.00833	0.00833	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug/m^3	ug/m^3	ug/m^3	
				Penta Total:		0.00833	0.00833	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug/m^3	ug/m^3	ug/m^3	
				Hexa Total:		0.00833	0.00833	ND	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Hepta Total:		0.0125	0.0125	ND	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Octa Total:		0.0125	0.0125	ND	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Nona Total:		0.0208	0.0208	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Deca Total:		0.0208	0.0208	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL	
11.948	940	11.953	773	1.2	0.2041		0.0153	
				TCMX Total:			0.0153	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.601	20828	42.593	17418	1.2	1.0171		0.0681	
				Deca Total:			0.0681	

TCMX Recovery %	76.5 %
Deca Recovery	68.1 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.231	240666	34.230	49416	4.9	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011108"		"M3011108"		"M3011108"		"M3011108"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.949	1292	15.778	3698	6.133	5393	8.458	1033
15.777	240978			6.202	10286	8.696	1060
16.158	2911			6.268	3304	8.930	1192
				6.334	1108	9.393	1534
				6.402	1293	9.606	1444
				8.930	1168	9.764	1352
				9.392	1791	10.554	1380
				9.608	1655	10.680	1391
				10.559	1093	10.869	1216
				10.681	1094	10.966	1208
				10.869	1025	11.357	1535
				10.969	1054	11.974	1360
				11.351	1092	12.847	1563
				11.679	1289		
				11.976	1565		
				12.350	1326		
				15.921	1536		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011108"		"M3011108"		"M3011108"		"M3011108"		"M3011108"		"M3011108"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.297	2816			6.133	5393	8.458	1033	15.781	25203	9.949	1292
				6.202	10286	8.696	1060	16.162	2519	15.777	240978
				6.268	3304	8.930	1192			16.158	2911
				6.334	1108	9.393	1534				
				6.402	1293	9.606	1444				
				8.930	1168	9.764	1352				
				9.392	1791	10.554	1380				
				9.608	1655	10.680	1391				
				10.559	1093	10.869	1216				
				10.681	1094	10.966	1208				
				10.869	1025	11.357	1535				
				10.969	1054	11.974	1360				
				11.351	1092	12.847	1563				
				11.679	1289						
				11.976	1565						
				12.350	1326						
				15.921	1536						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011108"		"M3011108"		"M3011108"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
				7.006	1379
				8.626	1077
				13.296	13243
				15.952	1018

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011108"		"M3011108"		"M3011108"		"M3011108"		"M3011108"		"M3011108"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				15.781	25203	9.949	1292				
				16.162	2519	15.777	240978				
						16.158	2911				

Extracted Ion Current Profiles

Tetrachlorobiphenyls					
"M3011108"	"M3011108"	"M3011108"	"M3011108"	"M3011108"	"M3011108"
m/z 292	m/z 290	m/z 220	m/z 222	m/z 360	m/z 362
		9.199 2474	13.297 2816		

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011108"		"M3011108"				"M3011108"		"M3011108"			"M3011108"		"M3011108"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.948	940	11.953	773	424	240	34.231	240666	17.648	3737	188	9.949	1292	7.395	2653
12.365	635	13.194	439	426	241	34.395	3812	34.230	49416	189	15.777	240978	8.108	1085
13.113	338	13.523	307	428		34.515	1187				16.158	2911	8.350	1030
13.367	260	13.655	261	430									8.441	1036
13.969	319	13.945	348	498									9.201	2100
14.382	298	14.045	350	500									9.552	1088
14.859	257	14.168	296										10.028	1169
14.947	387	14.311	324										10.894	1002
15.007	251	14.511	268										11.080	1002
15.039	512	14.567	294										11.925	1057
15.392	300	14.638	337										12.084	1519
15.631	294	15.075	462										12.177	1003
16.242	411	15.285	303										12.467	1392
16.285	333	15.447	324										13.289	1078
16.492	278	15.616	313										13.726	1211
16.587	281	15.741	423										14.585	1199
16.677	304	15.941	366										15.345	1014
16.958	262	16.061	312										15.427	1108
17.055	518	16.124	257										15.774	39846
17.153	422	16.569	278										15.944	2528
17.234	329	16.752	354										16.145	1650
17.505	532	16.883	285										16.329	1019
17.779	254	16.988	257										17.040	2269
18.030	391	17.060	400										17.145	1071
18.273	254	17.108	315										17.267	1335
18.451	312	17.330	308										17.407	1199
18.576	306	17.570	293										17.582	1044
18.630	293	17.650	945										17.688	1186
18.816	322	17.836	366										18.782	1157
18.867	276	18.067	256										19.152	1157
19.662	251	18.268	333										19.573	1092
26.472	2091	18.360	251										20.233	1704
31.122	290	18.765	260										20.618	1242
32.034	2388	18.793	261										21.177	1831
38.124	255	19.536	338										24.456	1289
38.375	288	19.577	281											
		31.142	251											
		34.228	5325											

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.601	20828	42.593	17418
512				

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: VS-12-28
Lab Sample ID: 12010053-03 (AP00228)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-313-9	PCBs by EPA Method TO-10A/680	01/11/2012 13:54	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16874	EPA 3540C	01/05/2012 15:30	HAG	0.70m³	1.00 mL	NA

Analyte	CAS No.	Result (ug/m³)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00714	1.00	U	MS03-313-9
Dichlorobiphenyl	25512-42-9	ND	0.00714	1.00	U	MS03-313-9
Trichlorobiphenyl	25323-68-6	ND	0.00714	1.00	U	MS03-313-9
Tetrachlorobiphenyl	26914-33-0	ND	0.0143	1.00	U	MS03-313-9
Pentachlorobiphenyl	25429-29-2	ND	0.0143	1.00	U	MS03-313-9
Hexachlorobiphenyl	26601-64-9	ND	0.0143	1.00	U	MS03-313-9
Heptachlorobiphenyl	28655-71-2	ND	0.0214	1.00	U	MS03-313-9
Octachlorobiphenyl	55722-26-4	ND	0.0214	1.00	U	MS03-313-9
Nonachlorobiphenyl	53742-07-7	ND	0.0357	1.00	U	MS03-313-9
Decachlorobiphenyl	2051-24-3	ND	0.0357	1.00	U	MS03-313-9
Total PCB	1336-36-3	ND		1.00	U	MS03-313-9

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	65.5	70.1-116	*	MS03-313-9
Tetrachloro-meta-xylene	877-09-8	75.3	44.4-104		MS03-313-9

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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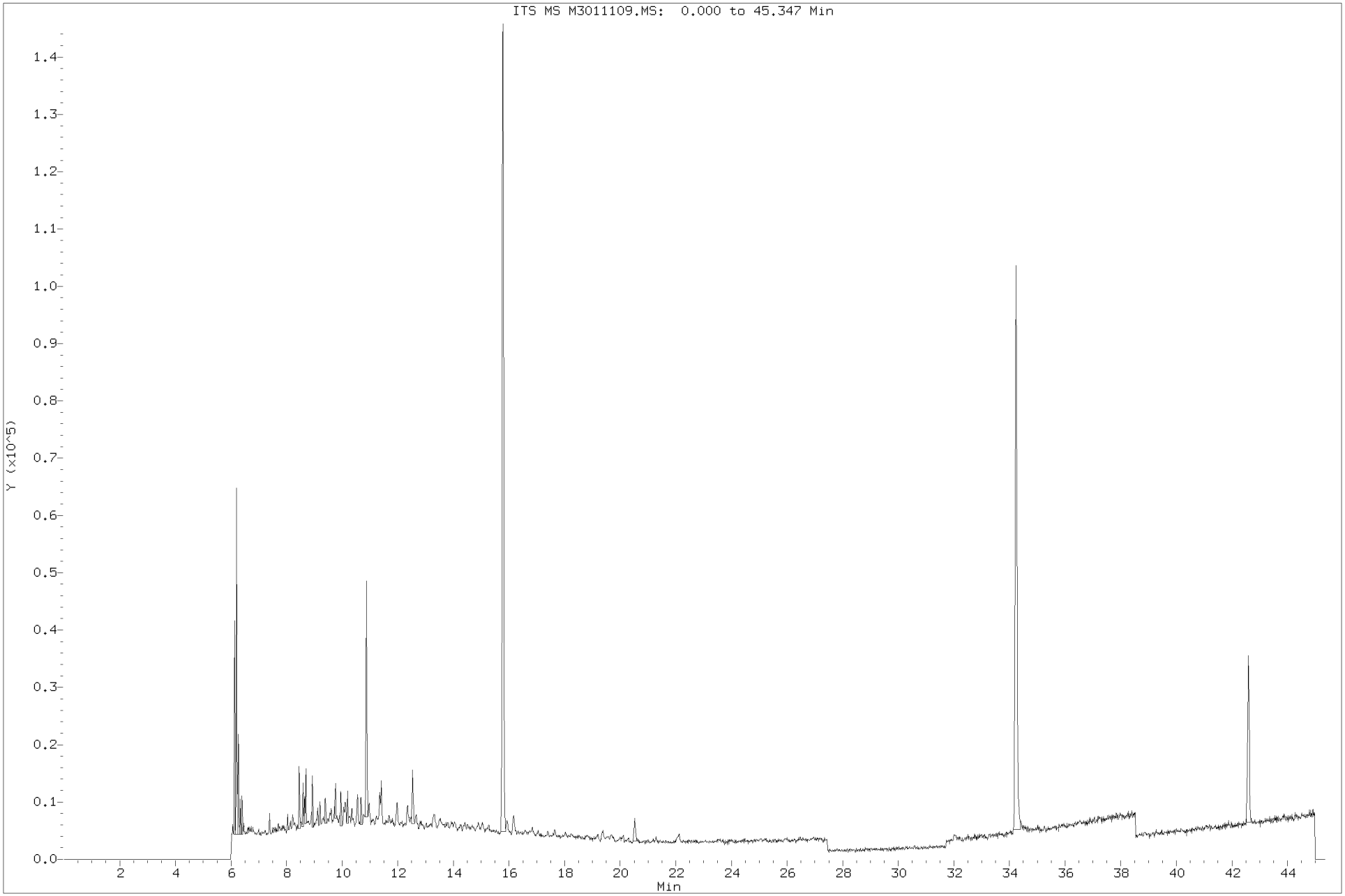
Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011109.d/M3011109.MS
Injection Date: 11-JAN-2012 13:54
Instrument: GCMS03.i
Client Sample ID: VS-12-28



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	VS-12-28
Matrix:	TO-10A PUF	Lab Sample ID:	AP00228
Sample weight:	0.7 cubic m	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	13:54

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug/m^3	ug/m^3	ug/m^3	
				Mono Total:		0.00714	0.00714	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug/m^3	ug/m^3	ug/m^3	
				Di Total:		0.00714	0.00714	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Tri Total:		0.00714	0.00714	ND	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Tetra Total:		0.0143	0.0143	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug/m^3	ug/m^3	ug/m^3	
				Penta Total:		0.0143	0.0143	ND	

Hexachlorobiphenyls									
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug/m^3	Reporting Limit ug/m^3	Report Amount ug/m^3	Flag
				Hexa Total:		0.0143	0.0143	ND	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug/m^3	Reporting Limit ug/m^3	Report Amount ug/m^3	Flag
				Hepta Total:		0.0214	0.0214	ND	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/m^3	Reporting Limit ug/m^3	Report Amount ug/m^3	Flag
				Octa Total:		0.0214	0.0214	ND	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/m^3	Reporting Limit ug/m^3	Report Amount ug/m^3	Flag
				Nona Total:		0.0357	0.0357	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/m^3	Reporting Limit ug/m^3	Report Amount ug/m^3	Flag
				Deca Total:		0.0357	0.0357	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.945	934	11.948	642	1.5	0.2041		0.0151	
				TCMX Total:			0.0151	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT m/z 510	Quant Ion Area	Confirm Ion RT m/z 512	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor		Solution Concentration ug/mL	Flag
42.592	20250	42.589	17617	1.1	1.0171		0.0655	
				Deca Total:			0.0655	

TCMX Recovery %	75.3 %
Deca Recovery	65.5 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.231	243000	34.229	50611	4.8	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011109"		"M3011109"		"M3011109"		"M3011109"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
8.392	1085	12.531	1288	6.132	4243	8.036	1230
8.796	1354	15.776	3345	6.200	7687	8.459	1915
8.906	1795			6.266	2697	8.589	1304
9.417	1413			6.401	1063	8.696	1573
9.725	1365			8.035	1230	8.929	1851
9.951	2618			8.234	1019	9.391	2303
15.779	239892			8.459	1713	9.606	2135
16.155	2566			8.589	1223	9.764	2011
				8.697	1345	9.931	1354
				8.927	1861	10.055	1474
				9.112	1226	10.194	1201
				9.392	2715	10.554	1832
				9.608	2352	10.680	1493
				9.762	1392	10.865	1236
				10.192	1079	10.972	1450
				10.555	1566	11.354	1839
				10.678	1194	11.573	1399
				10.871	1121	11.669	1002
				10.960	1309	12.847	1454
				11.359	1272		
				11.674	1245		
				11.979	1875		
				12.349	1350		
				14.396	1022		
				15.914	1497		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011109"		"M3011109"		"M3011109"		"M3011109"		"M3011109"		"M3011109"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				6.132	4243	8.036	1230	9.344	1306	8.392	1085
				6.200	7687	8.459	1915	9.684	1173	8.796	1354
				6.266	2697	8.589	1304	9.953	1033	8.906	1795
				6.401	1063	8.696	1573	15.784	24239	9.417	1413
				8.035	1230	8.929	1851	16.172	2092	9.725	1365
				8.234	1019	9.391	2303			9.951	2618
				8.459	1713	9.606	2135			15.779	239892
				8.589	1223	9.764	2011			16.155	2566
				8.697	1345	9.931	1354				
				8.927	1861	10.055	1474				
				9.112	1226	10.194	1201				
				9.392	2715	10.554	1832				
				9.608	2352	10.680	1493				
				9.762	1392	10.865	1236				
				10.192	1079	10.972	1450				
				10.555	1566	11.354	1839				
				10.678	1194	11.573	1399				
				10.871	1121	11.669	1002				
				10.960	1309	12.847	1454				
				11.359	1272						
				11.674	1245						
				11.979	1875						
				12.349	1350						
				14.396	1022						
				15.914	1497						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011109"		"M3011109"		"M3011109"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
20.517	4561			10.109	1042
				10.880	1074
				13.294	2891

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011109"		"M3011109"		"M3011109"		"M3011109"		"M3011109"		"M3011109"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
20.517	4561			9.344	1306	8.392	1085				
				9.684	1173	8.796	1354				
				9.953	1033	8.906	1795				
				15.784	24239	9.417	1413				
				16.172	2092	9.725	1365				
						9.951	2618				
						15.779	239892				
						16.155	2566				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011109"		"M3011109"		"M3011109"		"M3011109"		"M3011109"		"M3011109"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
										20.519	1065

Extracted Ion Current Profiles

Tetrachlorobiphenyls					
"M3011109"	"M3011109"	"M3011109"	"M3011109"	"M3011109"	"M3011109"
m/z 292	m/z 290	m/z 220	m/z 222	m/z 360	m/z 362

9.198 2027

Extracted Ion Current Profiles

Pentachlorobiphenyls					
"M3011109"	"M3011109"	"M3011109"	"M3011109"	"M3011109"	"M3011109"
m/z 326	m/z 324	m/z 254	m/z 256	m/z 258	m/z 392

20.517 4561

Extracted Ion Current Profiles

Hexachlorobiphenyls							
"M3011109"	"M3011109"	"M3011109"	"M3011109"	"M3011109"	"M3011109"	"M3011109"	"M3011109"
m/z 430	m/z 432	m/z 356	m/z 392	m/z 394	m/z 396	m/z 398	m/z 357

41.365 1016

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011109"		"M3011109"				"M3011109"		"M3011109"			"M3011109"		"M3011109"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.945	934	11.948	642	424	240	34.231	243000	17.647	1733	188	8.392	1085	7.394	3644
12.359	851	13.200	361	426	241			34.229	50611	189	8.796	1354	7.723	1007
15.018	388	34.235	4363	428							8.906	1795	7.857	1456
16.249	288			430							9.417	1413	8.111	1641
26.471	977			498							9.725	1365	8.348	1159
31.146	440			500							9.951	2618	8.446	1239
32.006	1151										15.779	239892	8.517	1383
32.030	1333										16.155	2566	8.624	1391
													8.794	1447
													9.199	2202
													9.369	1213
													9.429	1204
													9.534	1316
													9.624	1640
													9.717	1493
													9.830	1243
													9.958	1039
													10.259	1017
													10.890	1194
													11.816	1186
													12.498	1115
													15.777	38753
													15.934	1443
													16.160	1022
													17.049	1148

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.592	20250	42.589	17617
512				

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: VS-8-28
Lab Sample ID: 12010053-04 (AP00229)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-313-10	PCBs by EPA Method TO-10A/680	01/11/2012 14:43	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16874	EPA 3540C	01/05/2012 15:30	HAG	1.10m³	1.00 mL	NA

Analyte	CAS No.	Result (ug/m³)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00455	1.00	U	MS03-313-10
Dichlorobiphenyl	25512-42-9	ND	0.00455	1.00	U	MS03-313-10
Trichlorobiphenyl	25323-68-6	ND	0.00455	1.00	U	MS03-313-10
Tetrachlorobiphenyl	26914-33-0	ND	0.00909	1.00	U	MS03-313-10
Pentachlorobiphenyl	25429-29-2	ND	0.00909	1.00	U	MS03-313-10
Hexachlorobiphenyl	26601-64-9	ND	0.00909	1.00	U	MS03-313-10
Heptachlorobiphenyl	28655-71-2	ND	0.0136	1.00	U	MS03-313-10
Octachlorobiphenyl	55722-26-4	ND	0.0136	1.00	U	MS03-313-10
Nonachlorobiphenyl	53742-07-7	ND	0.0227	1.00	U	MS03-313-10
Decachlorobiphenyl	2051-24-3	ND	0.0227	1.00	U	MS03-313-10
Total PCB	1336-36-3	ND		1.00	U	MS03-313-10

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	67.5	70.1-116	*	MS03-313-10
Tetrachloro-meta-xylene	877-09-8	75.4	44.4-104		MS03-313-10

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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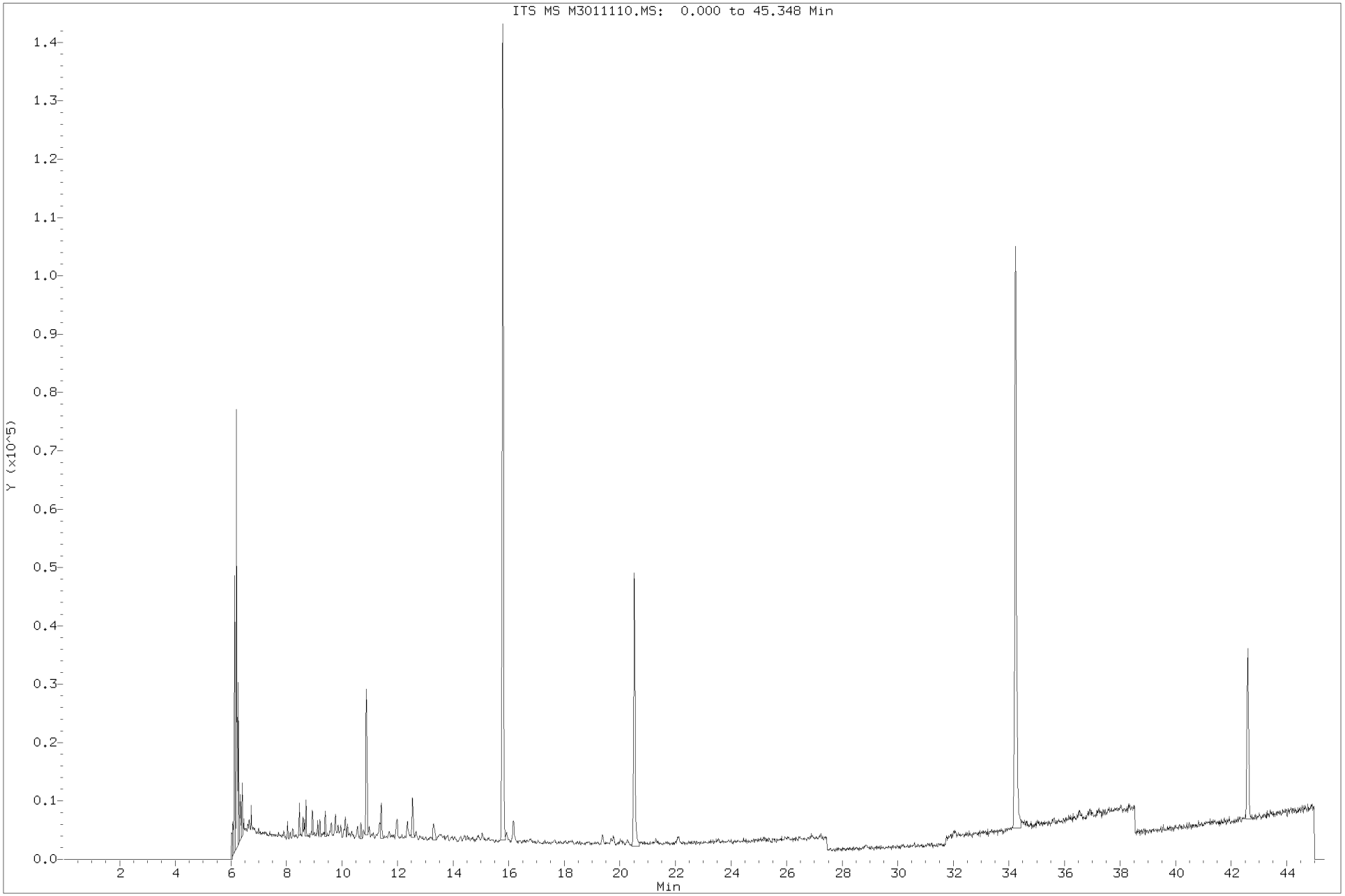
Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011110.d/M3011110.MS
Injection Date: 11-JAN-2012 14:43
Instrument: GCMS03.i
Client Sample ID: VS-8-28



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	VS-8-28
Matrix:	TO-10A PUF	Lab Sample ID:	AP00229
Sample weight:	1.1 cubic m	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	14:43

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug/m^3	ug/m^3	ug/m^3	
				Mono Total:		0.00455	0.00455	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug/m^3	ug/m^3	ug/m^3	
				Di Total:		0.00455	0.00455	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Tri Total:		0.00455	0.00455	ND	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Tetra Total:		0.00909	0.00909	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug/m^3	ug/m^3	ug/m^3	
				Penta Total:		0.00909	0.00909	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug/m^3	ug/m^3	ug/m^3	
				Hexa Total:		0.00909	0.00909	ND	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Hepta Total:		0.0136	0.0136	ND	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Octa Total:		0.0136	0.0136	ND	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Nona Total:		0.0227	0.0227	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Deca Total:		0.0227	0.0227	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL	
11.951	937	11.952	692	1.4	0.2041		0.0151	
				TCMX Total:			0.0151	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.593	20925	42.595	17413	1.2	1.0171		0.0675	
				Deca Total:			0.0675	

TCMX Recovery %	75.4 %
Deca Recovery	67.5 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.233	243678	34.233	47680	5.1	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011110"		"M3011110"		"M3011110"		"M3011110"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.957	1332	15.778	3854	6.138	4800	8.043	1283
15.782	238178			6.208	8696	8.467	1188
16.158	2618			6.273	3216	8.702	1099
				6.407	1146	8.936	1162
				8.042	1155	9.399	2079
				8.466	1095	9.613	1916
				8.937	1052	9.772	1221
				9.398	2360	11.360	1021
				9.613	1994		
				11.986	1271		
				15.926	1187		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011110"		"M3011110"		"M3011110"		"M3011110"		"M3011110"		"M3011110"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				6.138	4800	8.043	1283	15.790	24902	9.957	1332
				6.208	8696	8.467	1188	16.171	2032	15.782	238178
				6.273	3216	8.702	1099	20.524	1980	16.158	2618
				6.407	1146	8.936	1162				
				8.042	1155	9.399	2079				
				8.466	1095	9.613	1916				
				8.937	1052	9.772	1221				
				9.398	2360	11.360	1021				
				9.613	1994						
				11.986	1271						
				15.926	1187						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011110"		"M3011110"		"M3011110"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
20.519	48734	20.515	5069	6.275	1055
				7.010	1420
				13.298	3944
				20.517	1013

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011110"		"M3011110"		"M3011110"		"M3011110"		"M3011110"		"M3011110"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
20.519	48734	20.515	5069	15.790	24902	9.957	1332				
				16.171	2032	15.782	238178				
				20.524	1980	16.158	2618				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011110"		"M3011110"		"M3011110"		"M3011110"		"M3011110"		"M3011110"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
		20.515	3024							20.520	7988
										36.534	1252

Extracted Ion Current Profiles

Tetrachlorobiphenyls					
"M3011110"	"M3011110"	"M3011110"	"M3011110"	"M3011110"	"M3011110"
m/z 292	m/z 290	m/z 220	m/z 222	m/z 360	m/z 362
		9.201 1761			
		20.517 1103			

Extracted Ion Current Profiles

Pentachlorobiphenyls					
"M3011110"	"M3011110"	"M3011110"	"M3011110"	"M3011110"	"M3011110"
m/z 326	m/z 324	m/z 254	m/z 256	m/z 258	m/z 392
		20.515 3024	20.519 48734	20.515 5069	

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3011110"		"M3011110"				"M3011110"		"M3011110"			"M3011110"		"M3011110"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
11.951	937	11.952	692(M)	424	240	34.233	243678	34.233	47680	188	9.957	1332	9.205	1618
12.360	401	15.780	310	426	241	34.504	1138	34.344	1433	189	15.782	238178	15.784	37323
26.462	271	34.235	4854	428		34.584	1034				16.158	2618		
26.485	303			430										
31.121	342			498										
32.031	1997			500										
36.344	255													
36.450	283													
38.039	274													

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	34.223	386	42.595	17413
512	42.593	20925		

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: VS-8-28-DUP
Lab Sample ID: 12010053-05 (AP00230)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-313-11	PCBs by EPA Method TO-10A/680	01/11/2012 15:32	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16874	EPA 3540C	01/05/2012 15:30	HAG	1.10m³	1.00 mL	NA

Analyte	CAS No.	Result (ug/m³)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00455	1.00	U	MS03-313-11
Dichlorobiphenyl	25512-42-9	ND	0.00455	1.00	U	MS03-313-11
Trichlorobiphenyl	25323-68-6	ND	0.00455	1.00	U	MS03-313-11
Tetrachlorobiphenyl	26914-33-0	ND	0.00909	1.00	U	MS03-313-11
Pentachlorobiphenyl	25429-29-2	ND	0.00909	1.00	U	MS03-313-11
Hexachlorobiphenyl	26601-64-9	ND	0.00909	1.00	U	MS03-313-11
Heptachlorobiphenyl	28655-71-2	ND	0.0136	1.00	U	MS03-313-11
Octachlorobiphenyl	55722-26-4	ND	0.0136	1.00	U	MS03-313-11
Nonachlorobiphenyl	53742-07-7	ND	0.0227	1.00	U	MS03-313-11
Decachlorobiphenyl	2051-24-3	ND	0.0227	1.00	U	MS03-313-11
Total PCB	1336-36-3	ND		1.00	U	MS03-313-11

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	65.9	70.1-116	*	MS03-313-11
Tetrachloro-meta-xylene	877-09-8	67.0	44.4-104		MS03-313-11

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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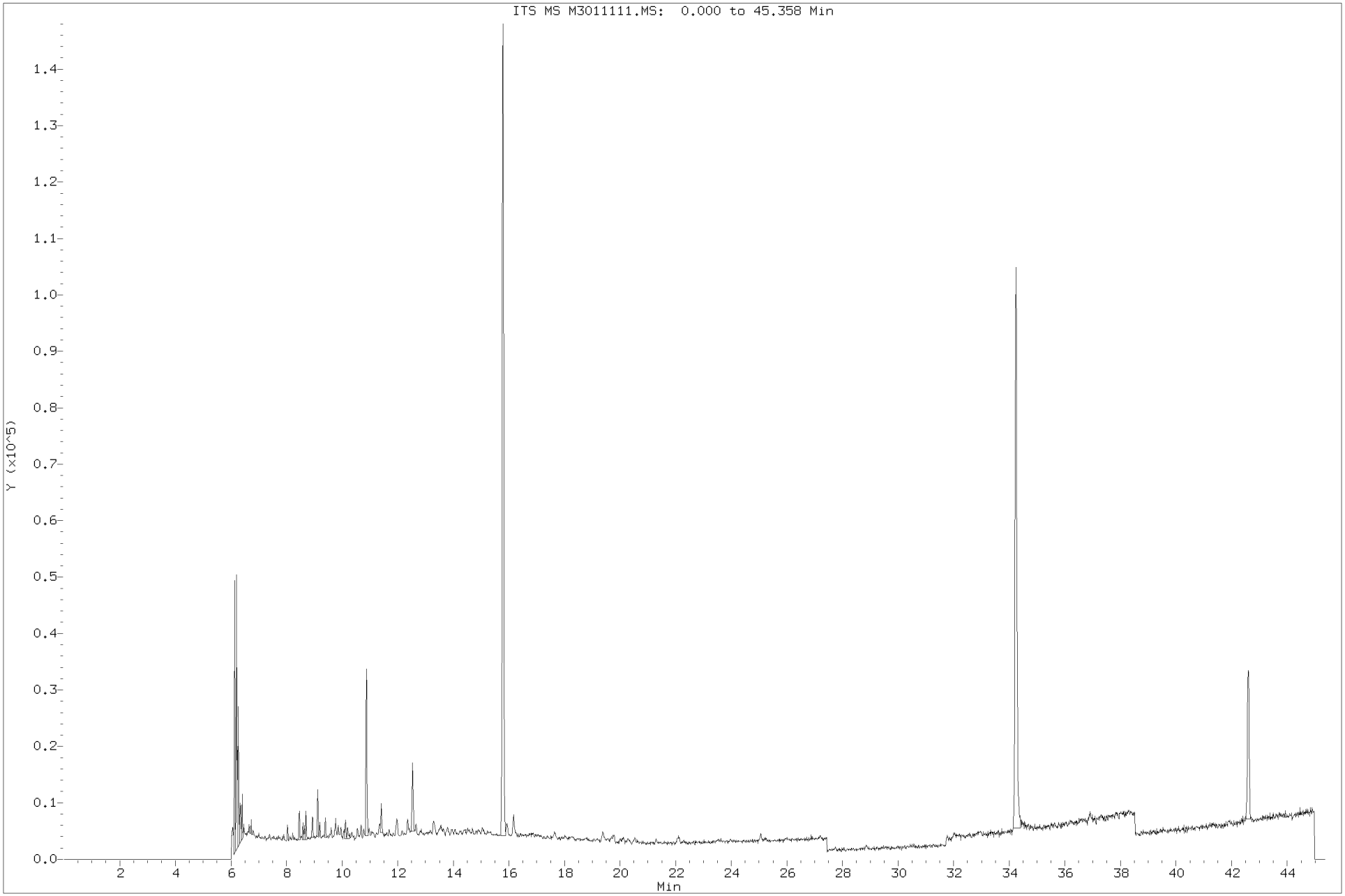
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011111.d/M3011111.MS
Injection Date: 11-JAN-2012 15:32
Instrument: GCMS03.i
Client Sample ID: VS-8-28-DUP



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	VS-8-28-DUP
Matrix:	TO-10A PUF	Lab Sample ID:	AP00230
Sample weight:	1.1 cubic m	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	15:32

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug/m^3	ug/m^3	ug/m^3	
				Mono Total:		0.00455	0.00455	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug/m^3	ug/m^3	ug/m^3	
				Di Total:		0.00455	0.00455	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Tri Total:		0.00455	0.00455	ND	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Tetra Total:		0.00909	0.00909	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug/m^3	ug/m^3	ug/m^3	
				Penta Total:		0.00909	0.00909	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug/m^3	ug/m^3	ug/m^3	
				Hexa Total:		0.00909	0.00909	ND	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Hepta Total:		0.0136	0.0136	ND	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Octa Total:		0.0136	0.0136	ND	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Nona Total:		0.0227	0.0227	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Deca Total:		0.0227	0.0227	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL	
11.954	833	11.949	639	1.3	0.2041		0.0134	
				TCMX Total:			0.0134	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.598	20441	42.600	17339	1.2	1.0171		0.0659	
				Deca Total:			0.0659	

TCMX Recovery %	67.0 %
Deca Recovery	65.9 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.238	243809	34.235	49969	4.9	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011111"		"M3011111"		"M3011111"		"M3011111"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.784	237332	15.778	3851	6.134	4853	8.038	1188
16.162	2655			6.204	7401	8.463	1007
				6.269	2795	8.933	1067
				8.040	1021	9.393	1450
				8.933	1251	9.607	1263
				9.394	1906	9.769	1153
				9.613	1422	12.847	1006
				11.981	1408		
				13.552	1126		
				15.917	1270		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011111"		"M3011111"		"M3011111"		"M3011111"		"M3011111"		"M3011111"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				6.134	4853	8.038	1188	15.790	24930	15.784	237332
				6.204	7401	8.463	1007	16.172	2294	16.162	2655
				6.269	2795	8.933	1067				
				8.040	1021	9.393	1450				
				8.933	1251	9.607	1263				
				9.394	1906	9.769	1153				
				9.613	1422	12.847	1006				
				11.981	1408						
				13.552	1126						
				15.917	1270						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011111"		"M3011111"		"M3011111"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
				13.300	3615

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011111"		"M3011111"		"M3011111"		"M3011111"		"M3011111"		"M3011111"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				15.790	24930	15.784	237332				
				16.172	2294	16.162	2655				

Extracted Ion Current Profiles

Tetrachlorobiphenyls					
"M3011111"	"M3011111"	"M3011111"	"M3011111"	"M3011111"	"M3011111"
m/z 292	m/z 290	m/z 220	m/z 222	m/z 360	m/z 362
		9.199 1561			

Extracted Ion Current Profiles

TCMX					Chrysene-d12					Phenanthrene-d10			
"M3011111"		"M3011111"				"M3011111"		"M3011111"			"M3011111"		"M3011111"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.954	833	11.949	639	424	240	34.238	243809	17.646	1551	188	15.784	237332	7.397	1072
12.357	400	17.658	490	426	241			34.235	49969	189	16.162	2655	9.200	1369
14.629	294	31.140	278	428									15.782	39337
32.034	2276	34.233	2626	430									15.935	1191
36.617	293	34.248	2599	498										
37.202	318			500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	34.231	314	42.600	17339
512	42.598	20441		

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: VS-BG-28
Lab Sample ID: 12010053-06 (AP00231)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-313-12	PCBs by EPA Method TO-10A/680	01/11/2012 16:21	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16874	EPA 3540C	01/05/2012 15:30	HAG	1.20m³	1.00 mL	NA

Analyte	CAS No.	Result (ug/m³)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00417	1.00	U	MS03-313-12
Dichlorobiphenyl	25512-42-9	ND	0.00417	1.00	U	MS03-313-12
Trichlorobiphenyl	25323-68-6	ND	0.00417	1.00	U	MS03-313-12
Tetrachlorobiphenyl	26914-33-0	ND	0.00833	1.00	U	MS03-313-12
Pentachlorobiphenyl	25429-29-2	ND	0.00833	1.00	U	MS03-313-12
Hexachlorobiphenyl	26601-64-9	ND	0.00833	1.00	U	MS03-313-12
Heptachlorobiphenyl	28655-71-2	ND	0.0125	1.00	U	MS03-313-12
Octachlorobiphenyl	55722-26-4	ND	0.0125	1.00	U	MS03-313-12
Nonachlorobiphenyl	53742-07-7	ND	0.0208	1.00	U	MS03-313-12
Decachlorobiphenyl	2051-24-3	ND	0.0208	1.00	U	MS03-313-12
Total PCB	1336-36-3	ND		1.00	U	MS03-313-12

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	68.7	70.1-116	*	MS03-313-12
Tetrachloro-meta-xylene	877-09-8	62.1	44.4-104		MS03-313-12

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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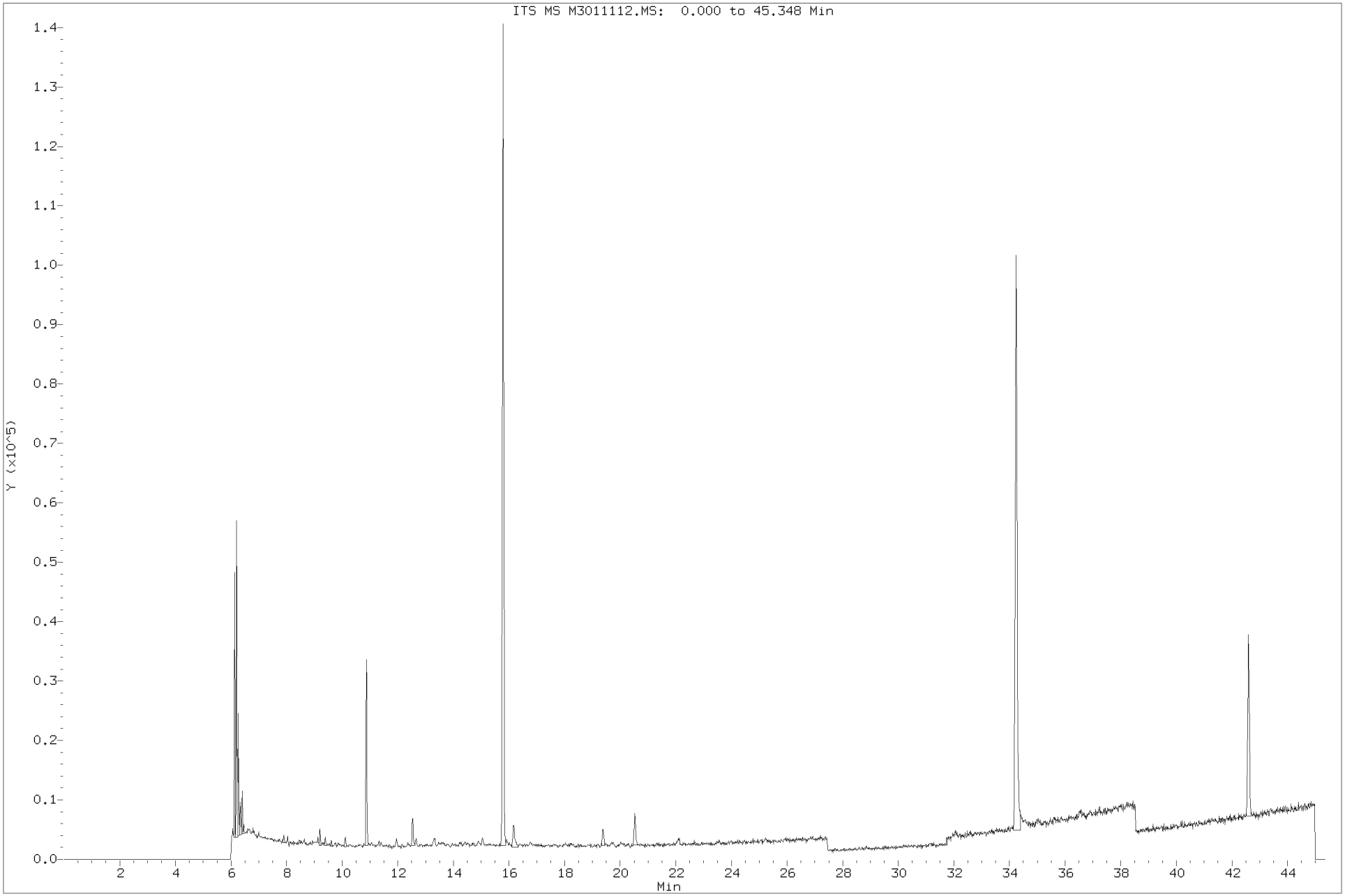
Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011112.d/M3011112.MS
Injection Date: 11-JAN-2012 16:21
Instrument: GCMS03.i
Client Sample ID: VS-BG-28



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	VS-BG-28
Matrix:	TO-10A PUF	Lab Sample ID:	AP00231
Sample weight:	1.2 cubic m	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	16:21

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug/m^3	ug/m^3	ug/m^3	
				Mono Total:		0.00417	0.00417	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug/m^3	ug/m^3	ug/m^3	
				Di Total:		0.00417	0.00417	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Tri Total:		0.00417	0.00417	ND	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Tetra Total:		0.00833	0.00833	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug/m^3	ug/m^3	ug/m^3	
				Penta Total:		0.00833	0.00833	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug/m^3	ug/m^3	ug/m^3	
				Hexa Total:		0.00833	0.00833	ND	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Hepta Total:		0.0125	0.0125	ND	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Octa Total:		0.0125	0.0125	ND	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Nona Total:		0.0208	0.0208	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Deca Total:		0.0208	0.0208	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL	
11.949	758	11.952	626	1.2	0.2041		0.0124	
				TCMX Total:			0.0124	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.597	20916	42.595	17688	1.2	1.0171		0.0687	
				Deca Total:			0.0687	

TCMX Recovery %	62.1 %
Deca Recovery	68.7 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.236	239364	34.235	47784	5.0	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011112"		"M3011112"		"M3011112"		"M3011112"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.782	234389	15.784	3594	6.133	4465		
16.162	2500			6.202	8072		
				6.268	2792		
				6.401	1011		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011112"		"M3011112"		"M3011112"		"M3011112"		"M3011112"		"M3011112"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				6.133	4465			15.788	23874	15.782	234389
				6.202	8072			16.174	2080	16.162	2500
				6.268	2792						
				6.401	1011						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011112"		"M3011112"		"M3011112"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
20.526	5452			7.856	1009
				8.627	1083
				13.299	1554

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011112"		"M3011112"		"M3011112"		"M3011112"		"M3011112"		"M3011112"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
20.526	5452			15.788	23874	15.782	234389				
				16.174	2080	16.162	2500				

Extracted Ion Current Profiles

Tetrachlorobiphenyls					
"M3011112"	"M3011112"	"M3011112"	"M3011112"	"M3011112"	"M3011112"
m/z 292	m/z 290	m/z 220	m/z 222	m/z 360	m/z 362

9.200 1443

Extracted Ion Current Profiles

Pentachlorobiphenyls					
"M3011112"	"M3011112"	"M3011112"	"M3011112"	"M3011112"	"M3011112"
m/z 326	m/z 324	m/z 254	m/z 256	m/z 258	m/z 392

20.526 5452

Extracted Ion Current Profiles

Hexachlorobiphenyls							
"M3011112"	"M3011112"	"M3011112"	"M3011112"	"M3011112"	"M3011112"	"M3011112"	"M3011112"
m/z 430	m/z 432	m/z 356	m/z 392	m/z 394	m/z 396	m/z 398	m/z 357

41.134 1021

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3011112"		"M3011112"				"M3011112"		"M3011112"			"M3011112"		"M3011112"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
11.949	758	11.952	626	424	240	34.236	239364	34.235	47784	188	15.782	234389	15.784	38586
31.137	287	31.138	259	426	241	34.407	2028	34.351	1019	189	16.162	2500		
32.023	1900	34.231	5246	428										
32.466	276			430										
				498										
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	34.229	353	42.595	17688
512	42.597	20916		

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: VS-TB-28
Lab Sample ID: 12010053-07 (AP00232)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-313-13	PCBs by EPA Method TO-10A/680	01/11/2012 17:10	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16874	EPA 3540C	01/05/2012 15:30	HAG	0.00m³	1.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00500	1.00	U	MS03-313-13
Dichlorobiphenyl	25512-42-9	ND	0.00500	1.00	U	MS03-313-13
Trichlorobiphenyl	25323-68-6	ND	0.00500	1.00	U	MS03-313-13
Tetrachlorobiphenyl	26914-33-0	ND	0.0100	1.00	U	MS03-313-13
Pentachlorobiphenyl	25429-29-2	ND	0.0100	1.00	U	MS03-313-13
Hexachlorobiphenyl	26601-64-9	ND	0.0100	1.00	U	MS03-313-13
Heptachlorobiphenyl	28655-71-2	ND	0.0150	1.00	U	MS03-313-13
Octachlorobiphenyl	55722-26-4	ND	0.0150	1.00	U	MS03-313-13
Nonachlorobiphenyl	53742-07-7	ND	0.0250	1.00	U	MS03-313-13
Decachlorobiphenyl	2051-24-3	ND	0.0250	1.00	U	MS03-313-13
Total PCB	1336-36-3	ND		1.00	U	MS03-313-13

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	65.2	70.1-116	*	MS03-313-13
Tetrachloro-meta-xylene	877-09-8	66.5	44.4-104		MS03-313-13

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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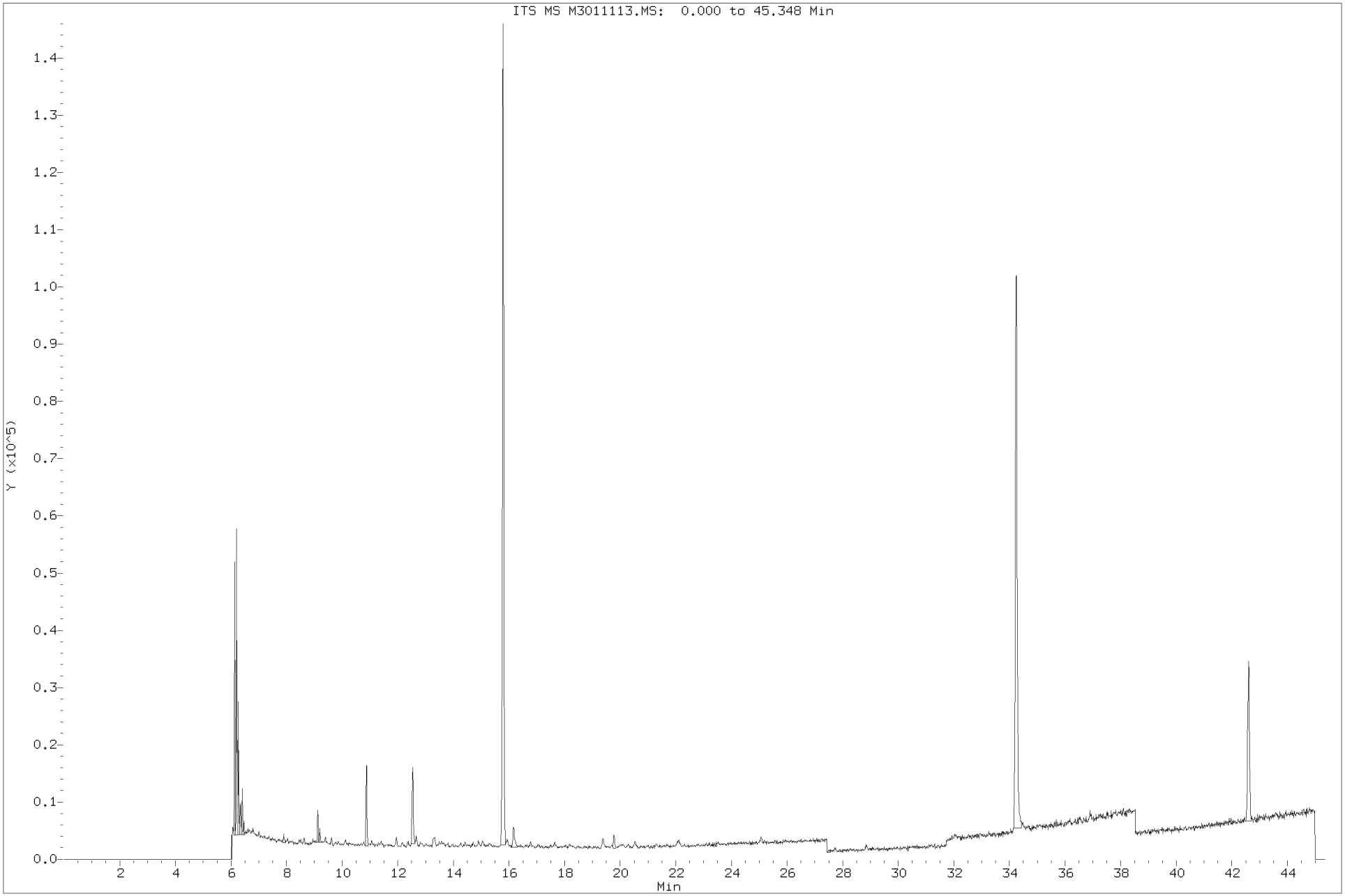
Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011113.d/M3011113.MS
Injection Date: 11-JAN-2012 17:10
Instrument: GCMS03.i
Client Sample ID: VS-TB-28



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	VS-TB-28
Matrix:	TO-10A PUF	Lab Sample ID:	AP00232
Sample weight:	N/A	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	17:10

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls								
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Mono Total:		0.00500	0.00500	ND	

Dichlorobiphenyls								
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Di Total:		0.00500	0.00500	ND	

Trichlorobiphenyls								
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Tri Total:		0.00500	0.00500	ND	

Tetrachlorobiphenyls								
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Tetra Total:		0.0100	0.0100	ND	

Pentachlorobiphenyls								
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Penta Total:		0.0100	0.0100	ND	

Hexachlorobiphenyls								
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Hexa Total:		0.0100	0.0100	ND	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Hepta Total:		0.0150	0.0150	ND	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Octa Total:		0.0150	0.0150	ND	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Deca Total:		0.0250	0.0250	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.956	839	11.953	660	1.3	0.2041		0.0133	
				TCMX Total:			0.0133	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT m/z 510	Quant Ion Area	Confirm Ion RT m/z 512	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor		Solution Concentration ug/mL	Flag
42.598	20480	42.601	17785	1.2	1.0171		0.0652	
				Deca Total:			0.0652	

TCMX Recovery %	66.5 %
Deca Recovery	65.2 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT m/z 240	Quant Ion Area	Confirm Ion RT m/z 241	Confirm Ion Area	Ratio 4.3 - 5.9	Response Factor		Solution Concentration ug/mL	Flag
34.240	247126	34.237	48524	5.1	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011113"		"M3011113"		"M3011113"		"M3011113"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.784	235443	15.789	3414	6.134	4019		
16.158	2619			6.204	8096		
				6.271	2685		
				6.404	1147		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011113"		"M3011113"		"M3011113"		"M3011113"		"M3011113"		"M3011113"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				6.134	4019			15.789	24565	15.784	235443
				6.204	8096			16.171	2154	16.158	2619
				6.271	2685						
				6.404	1147						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011113"		"M3011113"		"M3011113"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
				6.674	1415
				8.629	1095
				13.301	1535

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011113"		"M3011113"		"M3011113"		"M3011113"		"M3011113"		"M3011113"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				15.789	24565	15.784	235443				
				16.171	2154	16.158	2619				

Extracted Ion Current Profiles

Tetrachlorobiphenyls					
"M3011113"	"M3011113"	"M3011113"	"M3011113"	"M3011113"	"M3011113"
m/z 292	m/z 290	m/z 220	m/z 222	m/z 360	m/z 362
		9.198 1325			

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011113"		"M3011113"				"M3011113"		"M3011113"			"M3011113"		"M3011113"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.956	839	11.953	660	424	240	34.240	247126	34.237	48524	188	15.784	235443	9.201	1080
31.124	269	34.239	5557	426	241	34.515	1224			189	16.158	2619	15.783	39104
32.002	635			428										
32.032	1582			430										
34.238	261			498										
36.858	254			500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.598	20480	42.601	17785
512				

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: A-28
Lab Sample ID: 12010053-08 (AP00233)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-314-21	PCBs by EPA Method TO-4A/680	01/12/2012 00:37	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16875	EPA 3540C	01/05/2012 15:30	HAG	379.90m³	1.00 mL	NA

Analyte	CAS No.	Result (ug/m³)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.0000260	2.00	U	MS03-314-21
Dichlorobiphenyl	25512-42-9	ND	0.0000260	2.00	U	MS03-314-21
Trichlorobiphenyl	25323-68-6	**0.00358**	0.0000260	2.00		MS03-314-21
Tetrachlorobiphenyl	26914-33-0	ND	0.0000530	2.00	U	MS03-314-21
Pentachlorobiphenyl	25429-29-2	ND	0.0000530	2.00	U	MS03-314-21
Hexachlorobiphenyl	26601-64-9	ND	0.0000530	2.00	U	MS03-314-21
Heptachlorobiphenyl	28655-71-2	ND	0.0000790	2.00	U	MS03-314-21
Octachlorobiphenyl	55722-26-4	ND	0.0000790	2.00	U	MS03-314-21
Nonachlorobiphenyl	53742-07-7	ND	0.000132	2.00	U	MS03-314-21
Decachlorobiphenyl	2051-24-3	ND	0.000132	2.00	U	MS03-314-21
Total PCB	1336-36-3	**0.00358**		2.00		MS03-314-21

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	84.0	42.5-134		MS03-314-21
Tetrachloro-meta-xylene	877-09-8	138	17.9-137	*	MS03-314-21

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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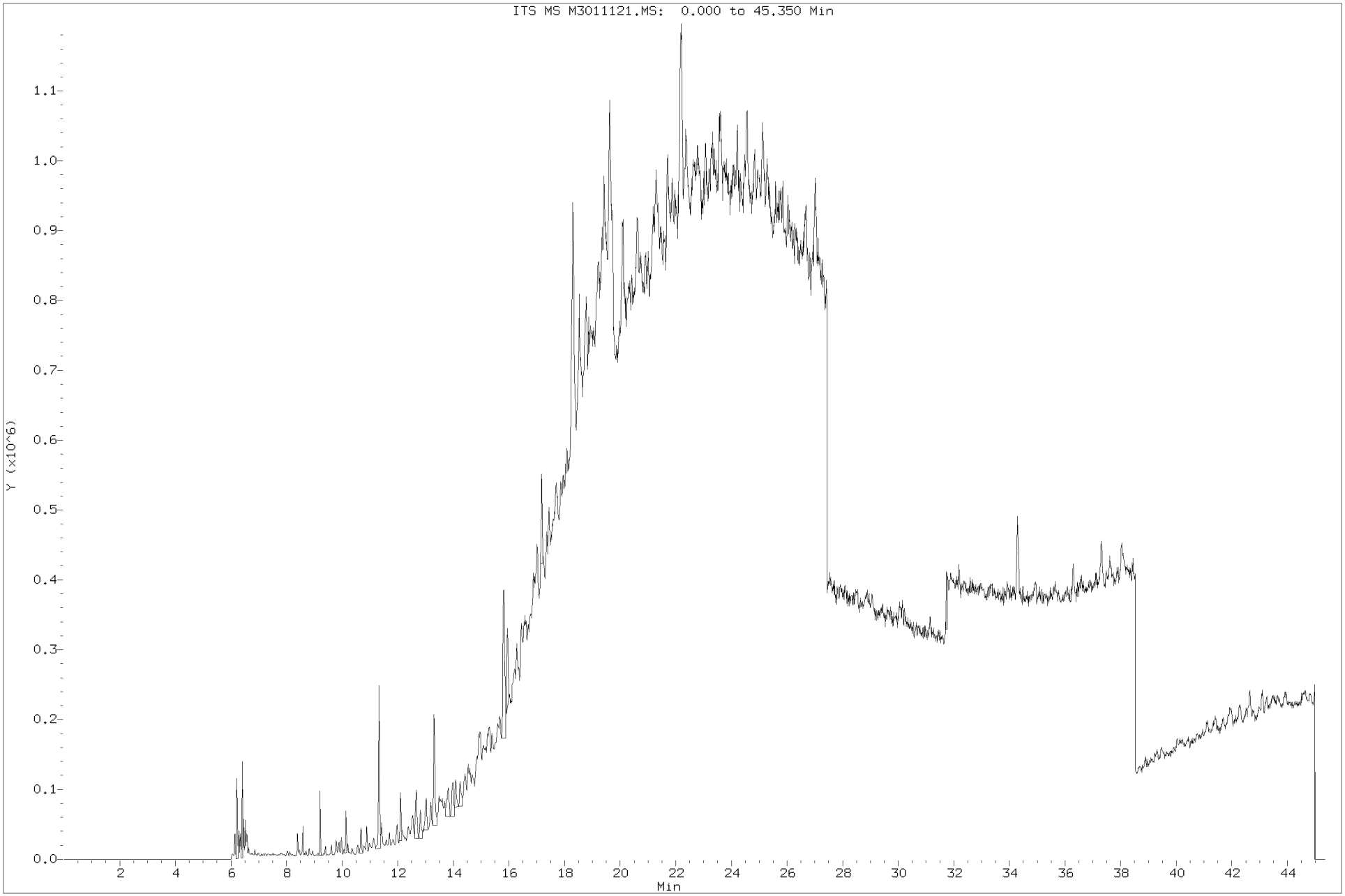
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011121.d/M3011121.MS
Injection Date: 12-JAN-2012 00:37
Instrument: GCMS03.i
Client Sample ID: A-28



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	A-28
Matrix:	TO-4A PUF	Lab Sample ID:	AP00233
Sample weight:	379.9 cubic m	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/12/2012
Dilution Factor:	2	Time Analyzed:	0:37

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug/m^3	ug/m^3	ug/m^3	
				Mono Total:		0.0000263	0.0000263	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug/m^3	ug/m^3	ug/m^3	
				Di Total:		0.0000263	0.0000263	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug/m^3	ug/m^3	ug/m^3	
16.153	3176	16.165	2919	1.1	0.9390	0.0000263	0.0000263	0.0000566	
16.530	5647	16.534	5484	1.0	0.9390	0.0000263	0.0000263	0.000101	
16.567	4009	16.569	4221	0.9	0.9390	0.0000263	0.0000263	0.0000714	
16.729	6056	16.719	5333	1.1	0.9390	0.0000263	0.0000263	0.000108	
16.775	8343	16.772	7606	1.1	0.9390	0.0000263	0.0000263	0.000149	
16.808	5635	16.822	6149	0.9	0.9390	0.0000263	0.0000263	0.000100	
16.932	8631	16.947	7460	1.2	0.9390	0.0000263	0.0000263	0.000154	
17.321	6298	17.316	5447	1.2	0.9390	0.0000263	0.0000263	0.000112	
17.488	5938	17.475	5776	1.0	0.9390	0.0000263	0.0000263	0.000106	
17.924	15410	17.904	18001	0.9	0.9390	0.0000263	0.0000263	0.000274	
18.550	11143	18.553	12906	0.9	0.9390	0.0000263	0.0000263	0.000170	
18.640	23534	18.621	29114	0.8	0.9390	0.0000263	0.0000263	0.000343	
19.800	30130	19.783	25225	1.2	0.9390	0.0000263	0.0000263	0.000424	
20.232	21724	20.218	22247	1.0	0.9390	0.0000263	0.0000263	0.000217	
20.906	22036	20.917	21513	1.0	0.9390	0.0000263	0.0000263	0.000283	
21.202	22578	21.182	21684	1.0	0.9390	0.0000263	0.0000263	0.000345	
21.312	24169	21.301	28677	0.8	0.9390	0.0000263	0.0000263	0.000338	
21.538	21552	21.547	20258	1.1	0.9390	0.0000263	0.0000263	0.000229	
				Tri Total:		0.0000263	0.0000263	0.00358	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Tetra Total:		0.0000526	0.0000526	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug/m^3	ug/m^3	ug/m^3	
				Penta Total:		0.0000526	0.0000526	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug/m^3	ug/m^3	ug/m^3	
				Hexa Total:		0.0000526	0.0000526	ND	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Hepta Total:		0.0000790	0.0000790	ND	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Octa Total:		0.0000790	0.0000790	ND	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Nona Total:		0.000132	0.000132	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Deca Total:		0.000132	0.000132	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL	
11.961	888	11.967	1064	0.8	0.2041		0.0138	
				TCMX Total:			0.0138	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.630	13442	42.630	12911	1.0	1.0171		0.0420	
				Deca Total:			0.0420	

TCMX Recovery % 138 %

Deca Recovery 84.0 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.289	251809	34.285	47413	5.3	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.605	2532	9.206	3926	6.138	4117	8.589	3452
10.267	2844	12.651	2711	6.208	8771	9.400	6033
11.324	12448	13.310	6191	6.290	5910	9.614	5334
12.092	3330	14.330	3244	6.339	3653	9.774	4642
12.543	2870	14.422	2604	6.408	12436	9.972	3324
13.731	3605	14.530	3549	6.520	4383	10.137	4359
14.169	3129	14.644	4288	6.567	4091	10.204	3628
14.512	3535	14.764	3879	9.400	7547	10.565	3688
14.541	2548	14.840	3203	9.617	6170	10.689	5249
14.644	3777	14.909	4442	9.776	2552	10.823	2950
14.804	2794	14.945	2646	9.884	6056	10.878	2929
14.912	3123	15.194	3866	9.975	9559	10.972	3967
14.976	3757	15.220	2685	10.137	18218	11.131	3219
15.040	3424	15.294	4558	10.565	2737	11.328	13460
15.089	2834	15.367	5366	10.689	3917	11.425	3666
15.134	2793	15.401	3598	10.783	4392	11.584	12301
15.167	2915	15.449	3712	10.972	2932	11.698	6475
15.225	2804	15.497	3677	11.131	9820	11.793	2885
15.280	2913	15.542	4090	11.273	2602	11.873	3070
15.366	3212	15.598	4559	11.321	7554	11.979	5666
15.392	4667	15.647	3336	11.425	7723	12.101	4623
15.488	5948	15.682	3481	11.583	7991	12.270	4043
15.515	2620	15.697	2699	11.690	7972	12.382	4834
15.547	2633	15.799	11649	11.818	5108	12.521	9820
15.601	4103	15.824	4058	11.873	2973	12.673	7186
15.659	4138	15.876	3726	11.974	10879	12.727	2803
15.806	291763	15.939	9576	12.051	2736	12.815	3931
15.960	5960	16.004	7269	12.114	3073	12.865	6484
15.998	5726	16.063	3456	12.222	2973	13.014	9112
16.052	4537	16.091	3938	12.278	2873	13.171	6764
16.077	3120	16.138	3893	12.360	7038	13.297	8663
16.103	2859	16.157	4290	12.438	5692	13.350	5901
16.134	4659	16.192	6251	12.505	11755	13.389	4490
16.177	5762	16.250	5379	12.656	8826	13.518	10764
16.202	3593	16.291	3813	12.710	6004	13.596	12356
16.235	4860	16.327	5337	12.815	10375	13.689	7958
16.283	10286	16.360	8268	12.964	5011	13.800	8324
16.347	2847	16.390	2949	13.018	4894	13.830	7373
16.361	3047	16.440	9725	13.196	13777	13.986	12955
16.417	6395	16.513	4455	13.305	8711	14.103	6517
16.469	8853	16.551	4255	13.339	11303	14.157	3099

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.025	7958	13.645	4371	6.138	4117	8.589	3452	8.398	4932	9.605	2532
13.311	46686	13.971	9348	6.208	8771	9.400	6033	8.584	7139	10.267	2844
14.829	3005	14.313	2832	6.290	5910	9.614	5334	11.325	11277	11.324	12448
14.860	4483	14.462	3782	6.339	3653	9.774	4642	11.492	2521	12.092	3330
14.954	2777	14.911	12849	6.408	12436	9.972	3324	12.094	3075	12.543	2870
15.086	3575	14.966	13848	6.520	4383	10.137	4359	12.160	2669	13.731	3605
15.175	2524	15.090	2778	6.567	4091	10.204	3628	12.509	2519	14.169	3129
15.280	27923	15.112	2677	9.400	7547	10.565	3688	12.626	3207	14.512	3535
15.472	4780	15.277	24850	9.617	6170	10.689	5249	12.825	2824	14.541	2548
15.497	3795	15.362	2987	9.776	2552	10.823	2950	13.094	6899	14.644	3777
15.593	8381	15.410	7231	9.884	6056	10.878	2929	13.304	6259	14.804	2794
15.678	5693	15.475	2753	9.975	9559	10.972	3967	13.381	3097	14.912	3123
15.802	4827	15.610	9054	10.137	18218	11.131	3219	13.489	3795	14.976	3757
15.900	10929	15.702	13069	10.565	2737	11.328	13460	13.535	8038	15.040	3424
15.969	13549	15.770	3436	10.689	3917	11.425	3666	13.695	5265	15.089	2834
16.126	8878	15.843	4680	10.783	4392	11.584	12301	13.848	4060	15.134	2793
16.175	8754	15.860	5047	10.972	2932	11.698	6475	13.935	20303	15.167	2915
16.263	4160	15.951	11393	11.131	9820	11.793	2885	14.072	2644	15.225	2804
16.307	4041	16.152	6824	11.273	2602	11.873	3070	14.116	6151	15.280	2913
16.336	3928	16.201	13914	11.321	7554	11.979	5666	14.155	3052	15.366	3212
16.404	8125	16.290	4282	11.425	7723	12.101	4623	14.272	6899	15.392	4667
16.438	11751	16.326	7372	11.583	7991	12.270	4043	14.363	6985	15.488	5948
16.538	10230	16.440	16496	11.690	7972	12.382	4834	14.416	3234	15.515	2620
16.587	9610	16.479	3076	11.818	5108	12.521	9820	14.480	5693	15.547	2633
16.634	3059	16.580	13005	11.873	2973	12.673	7186	14.574	3294	15.601	4103
16.687	4656	16.696	10145	11.974	10879	12.727	2803	14.648	3698	15.659	4138
16.714	2589	16.772	8633	12.051	2736	12.815	3931	14.682	4096	15.806	291763
16.766	5226	16.809	17384	12.114	3073	12.865	6484	14.728	2684	15.960	5960
16.796	5099	16.959	17592	12.222	2973	13.014	9112	14.867	4471	15.998	5726
16.848	6452	16.989	10488	12.278	2873	13.171	6764	14.957	5291	16.052	4537
16.878	5953	17.005	22270	12.360	7038	13.297	8663	14.989	2695	16.077	3120
16.919	3796	17.083	2874	12.438	5692	13.350	5901	15.014	2917	16.103	2859
16.954	3953	17.137	3110	12.505	11755	13.389	4490	15.038	4309	16.134	4659
16.992	9801	17.163	5139	12.656	8826	13.518	10764	15.087	4305	16.177	5762
17.040	7555	17.271	26724	12.710	6004	13.596	12356	15.123	4261	16.202	3593
17.122	19533	17.311	5217	12.815	10375	13.689	7958	15.163	4830	16.235	4860
17.189	5995	17.361	23783	12.964	5011	13.800	8324	15.231	22027	16.283	10286
17.227	5883	17.427	22807	13.018	4894	13.830	7373	15.305	5319	16.347	2847
17.245	9886	17.503	9901	13.196	13777	13.986	12955	15.338	3287	16.361	3047
17.378	7252	17.551	3063	13.305	8711	14.103	6517	15.377	5018	16.417	6395
17.453	4884	17.576	4105	13.339	11303	14.157	3099	15.399	5054	16.469	8853

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011121"		"M3011121"		"M3011121"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
15.222	2684	12.098	3030	9.206	7606
15.298	3071	13.477	9366	10.116	2945
15.387	2520	15.253	2997	11.062	2524
15.800	2894	15.650	3758	11.408	4042
15.898	4210	15.762	2857	12.792	2764
15.977	2982	15.792	3477	13.025	21718
16.024	2776	15.927	3349	13.313	243226
16.115	2974	16.021	4280	14.138	5379
16.153	3176	16.064	3433	14.282	5454
16.194	3897	16.115	6528	14.426	8673
16.213	3013	16.165	2919	14.719	3724
16.248	3829	16.219	5639	14.847	20327
16.280	2540	16.294	5515	14.964	16686
16.305	2538	16.358	5560	15.065	4392
16.330	2870	16.380	5356	15.098	6400
16.362	7803	16.426	4980	15.174	4536
16.417	2697	16.458	5318	15.247	10222
16.445	3066	16.493	4853	15.301	7500
16.477	4813	16.534	5484	15.379	4106
16.510	3119	16.569	4221	15.446	9547
16.530	5647	16.596	4020	15.507	2649
16.567	4009	16.614	4062	15.623	6845
16.594	3768	16.663	9571	15.666	5682
16.626	6409	16.719	5333	15.700	3829
16.656	3728	16.742	4128	15.797	15314
16.694	5854	16.772	7606	15.835	4887
16.729	6056	16.822	6149	15.872	3434
16.775	8343	16.879	9475	15.976	44429
16.808	5635	16.907	4858	16.133	19004
16.845	3949	16.947	7460	16.193	21912
16.882	6184	16.977	8146	16.272	6561
16.932	8631	17.006	5162	16.327	9806
16.957	5093	17.033	4570	16.347	12812
16.996	7849	17.092	13735	16.443	37268
17.020	5772	17.124	5119	16.551	28505
17.047	5875	17.156	7816	16.636	13880
17.072	5390	17.200	8556	16.730	9515
17.096	5546	17.221	10765	16.767	16057
17.133	8488	17.283	7646	16.884	19151
17.173	11785	17.316	5447	16.920	18233
17.236	12980	17.335	7010	17.025	28494

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
15.222	2684	12.098	3030	8.398	4932	9.605	2532	22.373	7058	22.112	2604
15.298	3071	13.477	9366	8.584	7139	10.267	2844	23.441	2608	22.893	2637
15.387	2520	15.253	2997	11.325	11277	11.324	12448	23.835	3969	23.211	3413
15.800	2894	15.650	3758	11.492	2521	12.092	3330	23.882	3695	23.359	2855
15.898	4210	15.762	2857	12.094	3075	12.543	2870	23.917	2603	23.530	2791
15.977	2982	15.792	3477	12.160	2669	13.731	3605	24.188	2501	23.849	3011
16.024	2776	15.927	3349	12.509	2519	14.169	3129	24.338	2909	23.928	2775
16.115	2974	16.021	4280	12.626	3207	14.512	3535	24.397	3308	24.024	2581
16.153	3176	16.064	3433	12.825	2824	14.541	2548	24.434	3267	24.051	3397
16.194	3897	16.115	6528	13.094	6899	14.644	3777	24.562	5422	24.092	2673
16.213	3013	16.165	2919	13.304	6259	14.804	2794	24.598	2791	24.240	3213
16.248	3829	16.219	5639	13.381	3097	14.912	3123	24.760	3946	24.275	2516
16.280	2540	16.294	5515	13.489	3795	14.976	3757	24.870	6423	24.477	4593
16.305	2538	16.358	5560	13.535	8038	15.040	3424	24.933	2930	24.596	3071
16.330	2870	16.380	5356	13.695	5265	15.089	2834	25.003	5144	24.641	3939
16.362	7803	16.426	4980	13.848	4060	15.134	2793	25.083	8624	24.701	2861
16.417	2697	16.458	5318	13.935	20303	15.167	2915	25.183	3917	24.741	4553
16.445	3066	16.493	4853	14.072	2644	15.225	2804	25.246	2816	24.761	3404
16.477	4813	16.534	5484	14.116	6151	15.280	2913	25.281	4784	24.796	3968
16.510	3119	16.569	4221	14.155	3052	15.366	3212	25.305	3127	24.828	3614
16.530	5647	16.596	4020	14.272	6899	15.392	4667	25.368	5499	24.871	4313
16.567	4009	16.614	4062	14.363	6985	15.488	5948	25.431	5153	24.899	2528
16.594	3768	16.663	9571	14.416	3234	15.515	2620	25.482	4058	24.926	4261
16.626	6409	16.719	5333	14.480	5693	15.547	2633	25.516	4246	24.963	6733
16.656	3728	16.742	4128	14.574	3294	15.601	4103	25.551	3992	25.051	4418
16.694	5854	16.772	7606	14.648	3698	15.659	4138	25.603	5959	25.122	5702
16.729	6056	16.822	6149	14.682	4096	15.806	291763	25.637	3401	25.145	3256
16.775	8343	16.879	9475	14.728	2684	15.960	5960	25.668	6045	25.198	4304
16.808	5635	16.907	4858	14.867	4471	15.998	5726	25.713	3157	25.287	7758
16.845	3949	16.947	7460	14.957	5291	16.052	4537	25.738	4173	25.333	3200
16.882	6184	16.977	8146	14.989	2695	16.077	3120	25.790	3391	25.355	3368
16.932	8631	17.006	5162	15.014	2917	16.103	2859	25.809	3346	25.386	5220
16.957	5093	17.033	4570	15.038	4309	16.134	4659	25.849	3333	25.416	2551
16.996	7849	17.092	13735	15.087	4305	16.177	5762	25.872	3029	25.461	11053
17.020	5772	17.124	5119	15.123	4261	16.202	3593	25.908	4361	25.589	4616
17.047	5875	17.156	7816	15.163	4830	16.235	4860	25.970	8584	25.613	4132
17.072	5390	17.200	8556	15.231	22027	16.283	10286	26.030	8915	25.654	2736
17.096	5546	17.221	10765	15.305	5319	16.347	2847	26.107	3767	25.675	3187
17.133	8488	17.283	7646	15.338	3287	16.361	3047	26.131	3428	25.701	4468
17.173	11785	17.316	5447	15.377	5018	16.417	6395	26.175	5860	25.741	3883
17.236	12980	17.335	7010	15.399	5054	16.469	8853	26.210	5694	25.777	3113

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
20.602	2652	16.242	2701	18.529	2819	18.421	2519	19.289	3301	15.083	8814
22.815	2554	16.399	4115	18.598	3703	18.448	2549	20.040	2701	15.589	2968
22.947	3097	16.433	3287	18.693	4613	18.565	4512	20.814	2915	15.815	2949
23.160	3523	16.552	4157	18.785	2991	18.644	4004	20.894	4105	16.096	3577
23.236	3806	16.593	6314	19.022	4501	18.683	3660	20.940	2829	16.169	3177
23.321	3030	16.678	4287	19.082	3493	18.781	3247	21.004	2770	16.207	4301
23.371	4948	16.729	3343	19.116	3278	18.859	5622	21.177	3246	16.270	3489
23.464	3257	16.793	6662	19.223	3630	18.918	4654	21.232	3233	16.338	3227
23.531	3188	16.844	4238	19.297	4594	18.987	3623	21.275	3920	16.402	2615
23.674	3557	16.880	6184	19.347	5963	19.033	3220	21.359	3904	16.459	3944
23.785	3102	16.917	3569	19.418	2695	19.061	2752	21.404	4496	16.520	4135
23.836	2802	16.988	2672	19.498	3287	19.082	2577	21.522	3835	16.540	5285
23.866	3826	17.010	4485	19.577	3706	19.143	4522	21.550	6240	16.619	5362
23.919	2545	17.049	3867	19.632	5254	19.185	3220	21.605	3369	16.671	2635
23.982	2680	17.092	5593	19.654	3929	19.237	3947	21.651	4098	16.695	2977
24.042	3712	17.136	3998	19.723	5005	19.305	2793	21.757	6219	16.720	5133
24.134	3866	17.176	5000	19.759	4020	19.338	3344	21.781	4331	16.767	8490
24.250	4280	17.212	3366	19.798	5702	19.407	3381	21.818	2960	16.806	3157
24.331	4804	17.236	3109	19.844	2599	19.460	4702	21.845	6596	16.832	2942
24.439	4078	17.274	7088	19.871	2682	19.504	4372	21.914	6160	16.872	5981
24.501	3191	17.317	6632	19.896	4644	19.585	4314	21.964	9537	16.909	3244
24.556	6278	17.375	5958	19.930	3402	19.639	3882	22.002	4477	16.932	3431
24.621	9911	17.400	3810	19.958	2551	19.669	3100	22.055	3662	16.958	3355
24.710	4739	17.436	6964	19.981	2714	19.747	2658	22.078	3301	17.002	8010
24.750	3804	17.480	3285	20.033	3233	19.785	4426	22.119	6331	17.035	6151
24.789	2948	17.502	4609	20.055	3087	19.808	3064	22.152	4772	17.087	6550
24.986	2882	17.525	7342	20.090	7763	19.833	3214	22.207	3375	17.104	4759
25.026	4665	17.565	7386	20.142	3526	19.879	4211	22.254	3725	17.137	7907
25.047	3398	17.601	6124	20.187	3130	19.907	3053	22.293	6988	17.168	4865
25.069	3413	17.640	4203	20.231	5843	19.933	2526	22.323	2883	17.222	8699
25.106	4920	17.689	9078	20.267	2693	19.966	4733	22.358	5479	17.250	4666
25.133	4453	17.711	4783	20.291	3473	19.994	3304	22.410	6735	17.270	4963
25.177	2902	17.744	6550	20.314	4950	20.028	4505	22.453	5355	17.301	7235
25.209	2979	17.778	12850	20.352	5302	20.055	2556	22.495	4508	17.343	7469
25.232	2531	17.844	5200	20.416	4400	20.080	3057	22.530	7000	17.377	7163
25.269	4197	17.870	5369	20.449	3691	20.107	5363	22.580	6860	17.433	10054
25.293	2932	17.887	5688	20.475	3518	20.154	2871	22.620	3632	17.464	5811
25.344	6862	17.917	5301	20.505	3168	20.179	4532	22.645	4184	17.492	6107
25.382	5433	17.940	5231	20.524	2931	20.216	6075	22.675	4131	17.519	9126
25.455	4290	17.971	10322	20.551	2915	20.277	4498	22.703	8052	17.558	10244
25.501	4093	18.034	8821	20.586	6709	20.312	4994	22.744	5605	17.593	9074

Extracted Ion Current Profiles

17.260	10419	17.361	6262	15.440	4299	16.508	7503	26.276	2842	25.798	3719
17.297	6834	17.414	11481	15.487	4599	16.576	7861	26.356	6129	25.834	5399
17.321	6298	17.437	10737	15.517	3252	16.622	7494	26.403	3306	25.864	6145
17.371	16794	17.475	5776	15.538	3605	16.657	5159	26.431	4376	25.926	4669
17.413	6563	17.501	5849	15.566	6432	16.714	6761	26.469	3257	25.946	7054
17.445	13793	17.525	6189	15.610	12180	16.749	3464	26.484	2725	25.996	3037
17.488	5938	17.564	10162	15.675	8085	16.794	8613	26.549	4685	26.022	3426
17.529	9870	17.589	7041	15.814	56601	16.819	4362	26.575	4304	26.053	5517
17.571	15350	17.613	6510	15.924	7403	16.866	8413	26.617	4625	26.082	3593
17.611	17594	17.662	14748	15.979	10628	16.895	5717	26.660	6049	26.120	5098
17.648	7337	17.693	17469	16.014	7986	16.940	5186	26.686	3980	26.155	6042
17.676	8238	17.747	10610	16.089	12286	16.973	3795	26.717	5018	26.181	3367
17.717	26635	17.781	7279	16.126	4941	17.018	8692	26.754	4403	26.205	3960
17.800	17931	17.803	9353	16.154	5048	17.061	8892	26.810	7977	26.233	4267
17.855	18841	17.828	8679	16.191	12888	17.112	9867	26.854	5537	26.253	6117
17.888	16030	17.854	10558	16.241	10492	17.148	7722	26.886	3302	26.297	6141
17.924	15410	17.904	18001	16.271	12359	17.185	5611	26.913	3448	26.339	6469
17.956	14955	17.957	14746	16.303	16640	17.212	7626	26.944	5785	26.368	4213
18.007	14935	18.006	8115	16.388	14820	17.246	5072	26.977	7902	26.390	4074
18.041	15948	18.036	12566	16.444	5275	17.273	4414	27.025	6205	26.444	7937
18.070	11792	18.088	23388	16.508	16196	17.323	9254	27.058	3335	26.464	6909
18.093	17124	18.133	18309	16.553	16395	17.348	4944	27.103	10356	26.501	4722
18.144	23086	18.184	9579	16.580	15248	17.375	4921	27.143	4871	26.539	3244
18.181	11640	18.221	13656	16.636	6220	17.405	4558	27.176	9645	26.602	3863
18.223	22516	18.247	15326	16.661	6678	17.435	7289	27.218	3033	26.636	6468
18.266	19476	18.284	10598	16.678	12857	17.462	5231	27.263	7791	26.681	8980
18.299	12560	18.309	9831	16.733	5459	17.490	4855	27.297	6467	26.721	3563
18.328	19181	18.337	14421	16.755	11089	17.517	5106	27.338	6496	26.760	5434
18.397	40485	18.377	9476	16.808	5797	17.555	19543	27.374	5372	26.785	5725
18.461	40398	18.408	19633	16.858	22632	17.612	5940	27.405	2786	26.822	4369
18.523	20200	18.449	14086	16.923	5471	17.640	6113	27.441	10232	26.876	5187
18.550	11143	18.486	8743	16.960	10547	17.663	5355	27.501	5284	26.896	5844
18.587	20439	18.512	7946	16.997	20991	17.689	4849	27.526	4216	26.937	5194
18.616	14723	18.553	12906	17.064	6099	17.721	8487	27.549	5976	26.971	5520
18.640	23534	18.578	10691	17.169	105696	17.770	9556	27.584	3516	27.015	6906
18.709	46601	18.621	29114	17.316	33236	17.824	11047	27.612	4129	27.068	4662
18.757	19887	18.664	11222	17.351	30777	17.868	14373	27.637	4172	27.095	4000
18.823	37774	18.693	16844	17.422	8493	17.917	4461	27.658	3766	27.118	4160
18.868	26787	18.729	11293	17.449	7788	17.963	12832	27.689	5790	27.152	5799
18.892	18085	18.750	10873	17.477	12177	18.016	7532	27.756	12451	27.181	4098
18.951	59881	18.777	10500	17.512	7844	18.047	5184	27.794	4008	27.204	3776
19.017	30536	18.805	9744	17.595	37951	18.073	8898	27.814	4046	27.248	7800
19.066	24440	18.832	11754	17.683	37913	18.106	6527	27.846	6127	27.281	2845
19.103	25912	18.851	12104	17.734	15533	18.148	16976	27.877	3497	27.304	3587
19.147	26254	18.891	27347	17.764	8552	18.215	8654	27.923	7692	27.345	8719
19.178	28310	18.963	21233	17.797	11669	18.248	9634	27.972	8212	27.389	6820

Extracted Ion Current Profiles

25.532	4417	18.058	6661	20.624	4027	20.349	5056	22.785	6070	17.638	13484
25.594	3657	18.082	10172	20.645	5493	20.395	5259	22.816	6854	17.699	18540
25.630	5801	18.156	20390	20.706	10294	20.438	4455	22.877	4678	17.740	6608
25.675	2866	18.201	12828	20.759	8852	20.478	2828	22.957	12752	17.765	9971
25.699	3204	18.286	16946	20.807	5245	20.501	4607	22.990	3651	17.805	10668
25.724	3628	18.308	9276	20.854	8456	20.592	6430	23.029	7275	17.841	7013
25.773	6267	18.334	8044	20.896	3283	20.634	6797	23.072	7100	17.888	13844
25.800	5055	18.381	16213	20.919	5392	20.673	3740	23.110	6684	17.927	11987
25.837	3177	18.414	13235	20.966	4873	20.707	8507	23.138	4694	17.959	11245
25.863	5397	18.445	8597	21.002	8005	20.762	4425	23.173	6721	18.020	24310
25.900	3353	18.473	6782	21.065	8651	20.812	8240	23.198	4312	18.074	7460
25.920	3650	18.504	18684	21.091	6226	20.871	3278	23.222	4416	18.102	13170
25.950	3125	18.568	8362	21.135	7011	20.893	3283	23.272	7553	18.146	18921
25.970	3571	18.586	8819	21.176	9198	20.918	3628	23.320	10855	18.183	10201
26.002	4812	18.613	8644	21.232	5802	20.952	4140	23.346	4878	18.218	19968
26.036	5897	18.638	12914	21.256	8265	20.981	4661	23.378	9353	18.272	26854
26.097	6360	18.681	12696	21.302	4027	21.029	5540	23.424	9445	18.336	16057
26.133	3607	18.747	26928	21.325	3666	21.100	7222	23.465	4470	18.376	28004
26.169	8972	18.790	8584	21.363	5694	21.139	3034	23.506	9177	18.429	11878
26.221	5305	18.816	9322	21.391	6966	21.168	4332	23.550	6990	18.446	12907
26.255	3348	18.857	20301	21.445	9126	21.212	6968	23.593	7111	18.493	31706
26.275	2578	18.913	20923	21.487	7300	21.273	9014	23.617	4786	18.542	11887
26.342	6306	18.958	15780	21.508	9430	21.336	10141	23.643	7660	18.564	20314
26.365	4477	18.996	24395	21.560	6456	21.375	4312	23.678	5603	18.637	31817
26.390	3468	19.034	24378	21.611	8432	21.417	11669	23.704	5708	18.675	25909
26.417	5291	19.084	12438	21.647	6453	21.482	7122	23.738	8951	18.728	17186
26.453	4031	19.121	19132	21.693	8148	21.522	3626	23.768	7441	18.763	20175
26.475	4178	19.146	17198	21.732	3537	21.548	3172	23.804	8476	18.788	14083
26.515	8335	19.199	15936	21.761	4796	21.572	3276	23.850	9783	18.828	21049
26.550	5797	19.226	18982	21.779	5300	21.598	3271	23.889	5985	18.877	36808
26.594	3158	19.274	16522	21.806	4317	21.621	4141	23.933	14290	18.931	21122
26.623	6186	19.301	12317	21.846	7326	21.645	2887	23.989	13821	18.966	23682
26.649	3924	19.353	27227	21.864	7271	21.694	5984	24.034	5284	19.003	23261
26.675	7212	19.372	14067	21.908	3650	21.719	2952	24.063	10394	19.033	15126
26.717	6949	19.431	28558	21.927	3800	21.754	4651	24.117	16239	19.055	16036
26.750	6560	19.463	31346	21.955	5052	21.808	7770	24.175	6127	19.083	23519
26.799	4096	19.526	27956	21.978	7067	21.826	4269	24.207	9621	19.137	22828
26.820	4278	19.554	13294	22.024	7740	21.889	8938	24.239	5914	19.158	16583
26.861	7078	19.590	22467	22.080	11646	21.917	2633	24.261	12489	19.184	15297
26.905	6647	19.628	23916	22.148	12827	21.944	4452	24.307	6937	19.223	33969
26.933	5110	19.669	22553	22.188	7314	21.981	5083	24.344	7674	19.279	36300
26.978	6576	19.699	24137	22.213	7407	22.039	5314	24.373	9575	19.323	28126
27.018	6102	19.732	15423	22.251	4090	22.068	5008	24.406	5867	19.350	27170
27.064	9767	19.767	20475	22.293	9165	22.126	8587	24.439	9618	19.402	35416
27.094	3613	19.796	13857	22.323	5571	22.156	7639	24.477	9809	19.438	17091
27.117	4596	19.825	20857	22.360	3737	22.219	8604	24.505	8410	19.466	19532

Extracted Ion Current Profiles

19.212	18295	19.012	18453	17.832	7544	18.284	7064	27.998	5261	27.414	4180
19.233	18210	19.029	12822	17.853	7507	18.312	6495	28.040	6637	27.439	6526
19.264	18167	19.057	12231	17.880	8530	18.344	11158	28.093	12345	27.490	9814
19.285	18565	19.092	17486	17.907	8983	18.373	6914	28.133	4258	27.541	6579
19.319	26547	19.132	17276	17.941	14419	18.397	6195	28.159	4303	27.573	3765
19.360	26077	19.166	18449	17.990	18548	18.426	6821	28.179	3987	27.609	9103
19.423	58697	19.209	27114	18.027	14381	18.460	11588	28.211	8837	27.647	6316
19.463	19513	19.247	13413	18.071	14217	18.486	7321	28.251	4473	27.684	6855
19.491	19505	19.277	20515	18.092	9723	18.514	11678	28.290	8061	27.719	4045
19.519	30686	19.314	13752	18.118	9892	18.550	6780	28.328	5520	27.747	6173
19.553	28937	19.337	17967	18.171	20242	18.588	11190	28.353	6396	27.779	3999
19.594	20380	19.379	17488	18.223	28780	18.614	7409	28.397	5870	27.822	6987
19.622	34725	19.421	21162	18.299	72683	18.648	12286	28.431	4222	27.865	6675
19.656	20173	19.491	55196	18.317	58878	18.678	12805	28.447	4468	27.901	6549
19.708	48050	19.567	18296	18.399	28062	18.713	8125	28.473	4089	27.925	4659
19.745	38624	19.607	27199	18.476	19558	18.741	10653	28.516	11417	27.951	4444
19.800	30130	19.654	25591	18.524	63602	18.781	8996	28.567	13276	27.989	6768
19.833	21135	19.712	25673	18.602	30267	18.803	9084	28.635	5791	28.012	4637
19.862	42586	19.744	14592	18.681	17737	18.830	8042	28.680	6397	28.039	4347
19.907	19022	19.783	25225	18.706	12495	18.851	7892	28.705	4568	28.059	4519
19.943	32865	19.825	11622	18.783	70946	18.882	10673	28.729	5088	28.083	5200
19.977	30551	19.843	12330	18.859	16599	18.918	8122	28.758	5130	28.111	7005
20.030	65388	19.870	10668	18.897	12316	18.949	13063	28.776	7708	28.165	9236
20.100	44680	19.896	11391	18.929	19320	18.988	8160	28.839	9013	28.207	5224
20.130	41953	19.945	23222	18.960	12518	19.016	12870	28.863	6138	28.231	4423
20.201	43976	19.980	19385	18.978	12526	19.044	8301	28.900	4922	28.262	8360
20.232	21724	20.007	18747	19.029	31986	19.070	10786	28.935	6917	28.307	6315
20.253	44359	20.044	11022	19.070	13853	19.145	26974	28.960	4315	28.341	3711
20.313	31238	20.069	12293	19.096	19936	19.210	16174	28.986	7393	28.407	13096
20.357	32128	20.092	17843	19.185	47684	19.267	11055	29.060	14338	28.434	4632
20.385	43516	20.131	13564	19.217	34290	19.282	9360	29.097	7074	28.462	3931
20.434	28399	20.169	36967	19.261	20609	19.331	12976	29.145	8505	28.489	10314
20.467	28675	20.218	22247	19.350	71187	19.364	8365	29.181	4702	28.548	6397
20.511	32982	20.252	13500	19.398	31457	19.388	8279	29.203	4411	28.571	4372
20.562	50200	20.277	12915	19.423	20373	19.419	12675	29.231	7617	28.595	3540
20.595	53286	20.313	20327	19.456	26159	19.452	9247	29.268	7367	28.643	9286
20.622	62163	20.342	13842	19.512	34204	19.483	15540	29.315	12309	28.674	4766
20.671	57601	20.362	14762	19.553	24898	19.539	34160	29.365	4585	28.691	5187
20.738	19994	20.407	32748	19.604	46722	19.621	11308	29.384	5140	28.716	4547
20.763	34640	20.449	11641	19.630	33620	19.643	8478	29.410	5042	28.747	7376
20.795	31614	20.474	11137	19.668	36803	19.672	8245	29.439	7344	28.784	6302
20.832	21527	20.502	10665	19.746	29554	19.697	9435	29.471	6986	28.829	6558
20.862	21699	20.521	11278	19.797	38713	19.718	9948	29.507	7642	28.853	11338
20.880	22701	20.563	25531	19.837	22031	19.758	15202	29.569	12707	28.914	4616
20.906	22036	20.597	21127	19.881	23200	19.798	14232	29.604	5313	28.938	5172
20.931	33105	20.635	12238	19.908	23771	19.820	9655	29.631	7026	28.966	11438

Extracted Ion Current Profiles

27.144	8314	19.862	15349	22.387	4946	22.272	7452	24.545	14078	19.502	39846
27.203	5728	19.881	16568	22.412	7668	22.299	7997	24.593	9343	19.541	19349
27.232	6467	19.907	14586	22.444	4807	22.389	5770	24.628	9607	19.567	27321
27.270	10593	19.968	40229	22.475	8637	22.438	5240	24.669	7987	19.610	17745
27.327	3897	19.991	17302	22.516	8180	22.480	6816	24.713	9488	19.642	30556
27.354	4059	20.029	39118	22.546	6489	22.541	6052	24.751	10823	19.669	19238
27.381	7039	20.094	33333	22.581	10695	22.572	4185	24.776	9664	19.701	27885
27.429	9826	20.139	23675	22.629	8313	22.615	3880	24.837	24748	19.734	21807
27.470	8905	20.176	24273	22.672	7099	22.646	3529	24.906	10756	19.759	28944
27.524	3000	20.215	24719	22.706	9102	22.668	5231	24.939	9664	19.808	47064
27.573	7544	20.241	16353	22.758	3627	22.709	4493	24.975	10293	19.867	29366
27.600	8505	20.270	38520	22.803	10433	22.730	5341	25.014	14732	19.895	18050
27.648	4179	20.350	56443	22.841	4506	22.791	14829	25.059	6263	19.921	39539
27.670	4213	20.386	19441	22.865	3641	22.882	6711	25.085	6863	19.971	19495
27.695	4099	20.415	19348	22.891	3937	22.914	4158	25.109	7565	19.992	20115
27.718	5307	20.441	37403	22.936	10246	22.952	6479	25.149	11375	20.030	30338
27.781	7149	20.486	17507	22.964	5129	22.976	5392	25.170	8273	20.075	43347
27.802	3586	20.517	28791	23.005	10354	23.015	4725	25.205	13393	20.117	39224
27.843	10063	20.547	19641	23.039	5783	23.076	8744	25.231	7306	20.156	21888
27.894	3634	20.586	39923	23.063	7503	23.112	4024	25.256	6394	20.190	43348
27.937	10931	20.629	28347	23.104	4589	23.138	6145	25.282	6273	20.268	70627
27.988	8894	20.670	32359	23.125	8655	23.187	5954	25.308	19906	20.301	31089
28.030	9022	20.697	46654	23.161	4119	23.211	5781	25.366	7451	20.344	43605
28.071	6655	20.744	41026	23.190	4292	23.260	5839	25.391	7415	20.388	21074
28.109	3516	20.821	57179	23.209	4763	23.284	3520	25.420	10829	20.424	32894
28.137	4295	20.870	18552	23.236	4699	23.345	9973	25.470	14415	20.454	45164
28.155	6691	20.898	33267	23.262	14436	23.371	3516	25.506	15112	20.510	46570
28.198	4151	20.930	22754	23.333	9793	23.406	4995	25.567	15485	20.566	51962
28.228	6979	20.982	56373	23.375	8819	23.450	5975	25.601	6873	20.594	27147
28.255	4872	21.049	58775	23.414	7367	23.495	2765	25.659	18708	20.623	40965
28.281	6747	21.078	20900	23.442	4450	23.522	3972	25.688	6508	20.662	23323
28.326	8473	21.121	30718	23.480	6977	23.549	6519	25.712	5502	20.708	51135
28.367	3807	21.152	33677	23.507	5240	23.583	5676	25.774	28044	20.743	48851
28.393	9234	21.177	32570	23.531	4550	23.638	8500	25.823	7494	20.782	34174
28.441	8628	21.247	53271	23.568	7313	23.667	4042	25.848	7890	20.819	21823
28.497	6120	21.282	23608	23.603	7556	23.701	7360	25.873	8549	20.846	36646
28.548	8945	21.315	76340	23.630	5544	23.738	3583	25.901	8205	20.882	26963
28.590	13983	21.382	35925	23.654	7489	23.817	3344	25.925	9052	20.919	45511
28.631	7136	21.426	46405	23.690	4162	23.844	3627	25.946	8743	20.943	28889
28.679	15119	21.471	36181	23.716	5740	23.863	4968	25.971	7271	20.970	51065
28.743	6594	21.500	44722	23.752	7287	23.905	3776	25.995	11001	21.024	49597
28.779	6461	21.553	22681	23.789	6385	23.950	9407	26.035	7002	21.067	32139
28.816	7352	21.582	51155	23.813	5160	23.974	9268	26.072	19295	21.103	34620
28.853	4170	21.621	33691	23.867	9467	24.032	2887	26.121	7945	21.141	36256
28.883	6778	21.682	41819	23.887	8183	24.088	8113	26.144	7519	21.180	23581
28.914	4632	21.706	23055	23.927	5186	24.105	4459	26.179	11464	21.225	50602

Extracted Ion Current Profiles

20.967	22321	20.659	11164	19.944	20979	19.872	32169	29.667	4612	29.023	9746
20.992	21148	20.685	16049	19.983	20094	19.931	9479	29.690	7761	29.058	5317
21.021	23053	20.733	16670	20.022	20236	19.968	23722	29.726	4829	29.106	9831
21.041	22292	20.759	15387	20.060	16909	20.039	24513	29.776	12279	29.130	4742
21.081	53103	20.795	9421	20.096	53216	20.081	9099	29.813	4624	29.168	9217
21.135	28830	20.829	19164	20.156	15935	20.105	9972	29.846	10331	29.224	9262
21.177	31812	20.856	10959	20.179	17208	20.131	14268	29.905	12857	29.261	7383
21.202	22578	20.885	10042	20.203	17448	20.182	19751	29.959	10357	29.297	8755
21.226	19802	20.917	21513	20.229	17066	20.230	21104	30.000	4707	29.347	7299
21.262	30323	20.953	9639	20.255	27336	20.288	21816	30.022	7005	29.374	4409
21.293	21731	20.992	16453	20.335	51537	20.316	24334	30.054	4689	29.400	5215
21.312	24169	21.017	11359	20.370	23539	20.377	9083	30.112	12506	29.423	8417
21.339	34820	21.067	24684	20.407	28839	20.416	26838	30.139	5803	29.460	8330
21.380	40465	21.091	12190	20.454	20342	20.462	9965	30.164	4802	29.501	7189
21.437	40830	21.116	12238	20.507	28216	20.495	14338	30.203	6692	29.546	9156
21.481	30497	21.140	15218	20.538	12822	20.535	17787	30.234	7810	29.588	6995
21.511	19592	21.182	21684	20.561	12934	20.589	19451	30.267	4612	29.623	10010
21.538	21552	21.223	10506	20.609	48670	20.620	9507	30.289	7735	29.668	4870
21.558	23285	21.253	10264	20.671	13115	20.663	14603	30.318	5092	29.693	10344
21.595	35672	21.301	28677	20.723	29763	20.685	16696	30.350	8517	29.755	11884
21.617	23554	21.353	20199	20.756	35089	20.723	9921	30.399	4051	29.825	11680
21.647	31237	21.389	11612	20.805	28403	20.744	23149	30.421	4691	29.861	5618
21.692	34006	21.411	18292	20.871	32038	20.832	20968	30.440	5040	29.885	7542
21.734	30147	21.451	19589	20.907	15049	20.856	15448	30.471	7411	29.933	10053
21.768	54690	21.485	11345	20.931	13833	20.895	10325	30.516	17235	29.968	5017
21.819	29534	21.523	15031	20.957	20071	20.919	10263	30.589	7348	30.003	6963
21.881	40527	21.547	20258	20.994	26775	20.949	14685	30.612	7503	30.044	10268
21.905	32646	21.606	14833	21.041	11776	20.982	9767	30.647	5081	30.087	7331
21.960	42240	21.634	9439	21.084	25523	21.008	18647	30.694	10225	30.116	5086
21.991	20035	21.660	14522	21.115	21733	21.086	25784	30.728	7374	30.156	11297
22.021	19144	21.700	13820	21.155	14456	21.115	9408	30.782	9663	30.191	4631
22.051	37940	21.744	21586	21.177	20876	21.164	19766	30.815	7958	30.227	11430
22.091	19523	21.796	17394	21.228	27381	21.195	17298	30.849	7708	30.261	9624
22.114	18597	21.849	11723	21.316	56062	21.230	21436	30.884	5550	30.321	10251
22.139	17162	21.878	8188	21.350	16713	21.285	15041	30.913	9267	30.363	10732
22.168	17079	21.917	15730	21.384	24872	21.326	22488	30.953	7668	30.411	5502
22.189	18505	21.954	11828	21.413	14531	21.362	10403	30.981	5725	30.429	8818
22.210	18192	21.990	10302	21.441	25197	21.387	11781	30.999	5556	30.468	8712
22.237	17790	22.104	65840	21.473	13810	21.411	11064	31.029	5371	30.500	4805
22.263	20138	22.126	50227	21.497	14281	21.437	17401	31.049	8059	30.529	4005
22.314	44832	22.188	10071	21.526	21298	21.474	21058	31.096	7995	30.557	10774
22.338	37752	22.211	10056	21.559	13427	21.527	10169	31.132	10407	30.601	7982
22.373	20952	22.239	14940	21.584	12526	21.547	12022	31.186	7805	30.646	7818
22.405	26938	22.273	8900	21.619	19769	21.571	14648	31.217	8258	30.686	8201
22.481	61592	22.312	15864	21.693	53905	21.616	15419	31.246	4618	30.710	8143
22.535	34953	22.337	24053	21.732	13639	21.649	10363	31.269	8307	30.747	4980

Extracted Ion Current Profiles

28.942	6818	21.737	44948	23.958	8704	24.137	4219	26.229	16058	21.264	37021
28.979	10386	21.808	71515	24.013	12966	24.170	7844	26.254	13253	21.298	38395
29.021	4356	21.853	24292	24.049	4967	24.217	7063	26.293	17061	21.327	25130
29.056	11434	21.891	45369	24.075	4951	24.274	9566	26.352	12680	21.351	25002
29.108	4209	21.954	46089	24.097	5262	24.319	3429	26.381	16776	21.399	81352
29.139	6414	21.985	36139	24.123	10401	24.345	4203	26.428	11776	21.454	42053
29.171	4894	22.017	37014	24.172	8038	24.378	7407	26.468	12165	21.482	27452
29.188	6529	22.052	22164	24.211	10637	24.420	4097	26.505	12314	21.520	64488
29.227	3422	22.077	21459	24.246	5338	24.454	6069	26.539	12961	21.576	67602
29.267	6752	22.113	32978	24.280	8615	24.479	5840	26.577	16572	21.633	25769
29.286	4862	22.144	32775	24.307	4580	24.531	7144	26.629	13541	21.677	56377
29.327	7275	22.178	24097	24.333	10118	24.566	3908	26.666	8854	21.708	27277
29.350	9901	22.214	79363	24.397	8862	24.591	4566	26.685	9811	21.732	35430
29.397	4741	22.274	23119	24.437	6163	24.620	3998	26.711	8258	21.770	25558
29.438	12416	22.314	39607	24.480	10134	24.637	4269	26.738	8379	21.793	24405
29.486	5727	22.345	45764	24.516	5469	24.667	6113	26.760	8186	21.822	37838
29.523	4926	22.373	41497	24.542	4718	24.711	5545	26.787	7694	21.868	39936
29.544	6884	22.409	36820	24.576	8935	24.739	3337	26.809	8672	21.891	28152
29.582	4417	22.446	23987	24.603	4762	24.789	8047	26.838	7962	21.917	27261
29.602	4694	22.472	44409	24.648	10342	24.813	4463	26.857	8217	21.941	24513
29.640	7181	22.545	44861	24.698	12944	24.837	5322	26.894	17539	21.970	40620
29.668	9107	22.571	23493	24.754	12559	24.863	4597	26.933	8482	22.004	24704
29.717	4510	22.605	47188	24.812	11707	24.896	6732	26.957	8259	22.028	37885
29.740	6955	22.656	33733	24.871	7839	24.924	4141	26.986	8361	22.068	36008
29.798	12166	22.686	50225	24.899	4578	24.958	5912	27.008	13665	22.108	51650
29.849	7258	22.730	23305	24.936	6820	24.996	6883	27.049	14765	22.152	25077
29.873	5273	22.767	31205	24.963	9474	25.023	6999	27.081	7502	22.185	51306
29.931	11807	22.793	21474	25.009	4538	25.058	6809	27.118	11486	22.233	38594
29.968	7654	22.840	50962	25.038	8760	25.095	3864	27.148	8042	22.265	37651
30.008	7167	22.865	25326	25.095	9840	25.123	7532	27.170	8080	22.336	69743
30.030	5021	22.900	59795	25.135	4922	25.161	7229	27.198	12112	22.365	83718
30.053	5360	22.986	57293	25.158	6945	25.204	6027	27.230	9005	22.426	58328
30.080	4997	23.012	25777	25.216	9051	25.256	10751	27.261	13599	22.469	28392
30.103	4445	23.038	23530	25.248	7015	25.297	4133	27.294	9077	22.521	54047
30.136	7773	23.063	37918	25.292	7940	25.315	4300	27.313	10029	22.544	27528
30.164	4242	23.102	35236	25.318	3809	25.342	3791	27.343	13085	22.592	58582
30.193	4085	23.139	22843	25.342	4797	25.393	7966	27.381	17194	22.619	38904
30.220	7613	23.161	35110	25.385	8388	25.418	5458	27.426	8180	22.665	67936
30.254	6983	23.211	49488	25.418	3867	25.441	7741	27.479	16208	22.728	39258
30.293	6680	23.270	50797	25.444	7879	25.477	5576	27.498	8842	22.757	25792
30.321	4446	23.304	37264	25.475	5086	25.505	4409	27.523	8888	22.788	42091
30.357	9746	23.335	23883	25.517	10498	25.528	7516	27.549	8431	22.829	69601
30.394	5078	23.371	51428	25.567	8231	25.586	9113	27.603	23789	22.878	25758
30.421	7476	23.408	23220	25.614	6117	25.637	8855	27.658	20981	22.913	39187
30.469	6466	23.433	34099	25.640	6297	25.684	17247	27.716	12426	22.942	26363
30.513	9399	23.473	24596	25.675	3322	25.749	5036	27.745	8878	22.964	25666

Extracted Ion Current Profiles

22.571	19508	22.385	14732	21.764	19721	21.672	17617	31.307	5153	30.771	4575
22.653	79082	22.438	12621	21.797	13243	21.712	12237	31.332	10253	30.799	4594
22.696	37366	22.465	19081	21.837	36036	21.732	18202	31.382	7361	30.830	9604
22.781	56983	22.520	16623	21.883	19430	21.790	25098	31.425	11985	30.870	8226
22.804	46808	22.567	16716	21.916	14004	21.840	21946	31.483	7454	30.903	5366
22.859	28288	22.607	8415	21.954	27597	21.881	37834	31.526	12493	30.931	10295
22.899	28779	22.647	19764	21.991	18874	21.955	17477	31.586	15450	30.989	7297
22.937	28402	22.707	15316	22.027	13342	21.996	18015	31.644	5355	31.026	7051
22.964	18130	22.747	10472	22.073	24992	22.039	23808	31.683	9968	31.050	4958

Extracted Ion Current Profiles

30.545	4888	23.506	63890	25.726	7661	25.774	4681	27.768	9292	22.988	26020
30.586	9639	23.559	27373	25.759	6869	25.799	7013	27.816	28917	23.032	51902
30.623	6996	23.580	49406	25.786	4860	25.834	4199	27.877	7377	23.063	26787
30.650	4686	23.629	35184	25.846	10382	25.881	9380	27.918	21623	23.087	26343
30.685	6682	23.669	20264	25.876	10298	25.921	6810	27.962	15200	23.116	77950
30.718	10015	23.689	29792	25.922	4326	25.949	6910	28.013	8202	23.197	39294
30.759	5202	23.754	40003	25.951	6472	25.988	6055	28.040	17073	23.221	26082
30.792	7010	23.788	32792	25.987	9386	26.040	9027	28.093	16173	23.251	25887
30.833	10035	23.814	32496	26.037	3914	26.070	6064	28.131	7613	23.272	25698

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 292		m/z 290		m/z 220		m/z 222		m/z 360		m/z 362	
18.421	2519	18.529	2819	9.207	43149	13.025	7958	30.181	2630	33.244	2776
18.448	2549	18.598	3703	10.656	2553	13.311	46686	30.642	3327	33.938	3234
18.565	4512	18.693	4613	11.509	3586	14.829	3005	31.471	2686	34.054	3090
18.644	4004	18.785	2991	12.048	3678	14.860	4483	31.891	2624	34.104	4409
18.683	3660	19.022	4501	13.312	5265	14.954	2777	31.967	3417	34.167	2681
18.781	3247	19.082	3493	15.576	2963	15.086	3575	32.034	2904	34.200	4321
18.859	5622	19.116	3278	15.622	4115	15.175	2524	32.244	2932	34.267	4607
18.918	4654	19.223	3630	15.701	2860	15.280	27923	32.317	3379	34.346	3658
18.987	3623	19.297	4594	15.771	2863	15.472	4780	32.378	4987	34.467	2523
19.033	3220	19.347	5963	15.812	4143	15.497	3795	32.532	4921	34.500	2698
19.061	2752	19.418	2695	15.875	2666	15.593	8381	32.659	2649	34.540	3893
19.082	2577	19.498	3287	15.910	3813	15.678	5693	32.741	3724	34.642	2797
19.143	4522	19.577	3706	15.979	4725	15.802	4827	32.939	3376	34.705	4160
19.185	3220	19.632	5254	16.022	2683	15.900	10929	33.017	2626	34.802	2513
19.237	3947	19.654	3929	16.119	2872	15.969	13549	33.058	3904	34.956	3000
19.305	2793	19.723	5005	16.187	2744	16.126	8878	33.114	2710	35.067	2824
19.338	3344	19.759	4020	16.216	2953	16.175	8754	33.171	6015	35.128	2997
19.407	3381	19.798	5702	16.266	2534	16.263	4160	33.262	2731	35.255	3011
19.460	4702	19.844	2599	16.295	2749	16.307	4041	33.368	4063	35.301	3906
19.504	4372	19.871	2682	16.372	2827	16.336	3928	33.430	3489	35.473	2792
19.585	4314	19.896	4644	16.420	10246	16.404	8125	33.544	3847	35.642	4975
19.639	3882	19.930	3402	16.497	4579	16.438	11751	33.621	2827	35.683	2809
19.669	3100	19.958	2551	16.606	5486	16.538	10230	33.721	3479	35.728	3193
19.747	2658	19.981	2714	16.633	3545	16.587	9610	33.799	4349	35.768	3534
19.785	4426	20.033	3233	16.713	7630	16.634	3059	33.866	2516	35.805	2511
19.808	3064	20.055	3087	16.780	3026	16.687	4656	33.919	3342	35.845	3202
19.833	3214	20.090	7763	16.817	3579	16.714	2589	33.943	2912	35.907	4522
19.879	4211	20.142	3526	16.877	4061	16.766	5226	34.106	3418	35.943	2626
19.907	3053	20.187	3130	16.912	6818	16.796	5099	34.352	6515	35.987	3078
19.933	2526	20.231	5843	17.010	11648	16.848	6452	34.410	3734	36.018	3295
19.966	4733	20.267	2693	17.046	4686	16.878	5953	34.454	3732	36.055	3385
19.994	3304	20.291	3473	17.104	5609	16.919	3796	34.568	2569	36.155	3331
20.028	4505	20.314	4950	17.132	2770	16.954	3953	34.696	2919	36.181	2743
20.055	2556	20.352	5302	17.168	3124	16.992	9801	34.762	2588	36.229	4222
20.080	3057	20.416	4400	17.212	5719	17.040	7555	34.825	4768	36.262	2777
20.107	5363	20.449	3691	17.250	2682	17.122	19533	34.891	5810	36.322	5776
20.154	2871	20.475	3518	17.272	3043	17.189	5995	35.022	4336	36.379	5186
20.179	4532	20.505	3168	17.348	4924	17.227	5883	35.102	4031	36.480	2881
20.216	6075	20.524	2931	17.416	9907	17.245	9886	35.133	4375	36.518	4007
20.277	4498	20.551	2915	17.453	8826	17.378	7252	35.282	2828	36.554	2521
20.312	4994	20.586	6709	17.501	5602	17.453	4884	35.317	4029	36.621	4247
20.349	5056	20.624	4027	17.555	4222	17.518	16121	35.404	5870	36.668	4445

Tetrachlorobiphenyls									
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 288		m/z 324		m/z 326		m/z 328		m/z 289	
17.414	3174	22.373	7058	22.112	2604	20.602	2652	18.376	3703
17.586	2790	23.441	2608	22.893	2637	22.815	2554	18.556	2935
18.051	3255	23.835	3969	23.211	3413	22.947	3097	18.642	2831
18.085	2775	23.882	3695	23.359	2855	23.160	3523	18.719	3007
18.201	3268	23.917	2603	23.530	2791	23.236	3806	18.930	7296
18.257	3045	24.188	2501	23.849	3011	23.321	3030	19.027	2814
18.284	3149	24.338	2909	23.928	2775	23.371	4948	19.098	4181
18.339	3275	24.397	3308	24.024	2581	23.464	3257	19.158	2752
18.394	4122	24.434	3267	24.051	3397	23.531	3188	19.192	2592
18.455	2784	24.562	5422	24.092	2673	23.674	3557	19.227	3140
18.523	5063	24.598	2791	24.240	3213	23.785	3102	19.299	3583
18.573	5101	24.760	3946	24.275	2516	23.836	2802	19.323	3137
18.618	4928	24.870	6423	24.477	4593	23.866	3826	19.361	3981
18.664	2508	24.933	2930	24.596	3071	23.919	2545	19.403	6442
18.752	3121	25.003	5144	24.641	3939	23.982	2680	19.461	2787
18.778	2824	25.083	8624	24.701	2861	24.042	3712	19.502	3253
18.803	2628	25.183	3917	24.741	4553	24.134	3866	19.526	2563
18.842	5749	25.246	2816	24.761	3404	24.250	4280	19.593	4343
18.880	3166	25.281	4784	24.796	3968	24.331	4804	19.618	3177
18.911	2864	25.305	3127	24.828	3614	24.439	4078	19.641	3103
18.929	2939	25.368	5499	24.871	4313	24.501	3191	19.666	3051
18.957	5861	25.431	5153	24.899	2528	24.556	6278	19.745	5009
19.019	3660	25.482	4058	24.926	4261	24.621	9911	19.771	2640
19.044	3190	25.516	4246	24.963	6733	24.710	4739	19.822	4572
19.101	7176	25.551	3992	25.051	4418	24.750	3804	19.878	6847
19.210	15651	25.603	5959	25.122	5702	24.789	2948	19.908	2632
19.247	3767	25.637	3401	25.145	3256	24.986	2882	19.961	11944
19.274	3394	25.668	6045	25.198	4304	25.026	4665	20.018	3470
19.304	7156	25.713	3157	25.287	7758	25.047	3398	20.043	2661
19.375	7197	25.738	4173	25.333	3200	25.069	3413	20.068	3449
19.401	2807	25.790	3391	25.355	3368	25.106	4920	20.103	4546
19.448	9833	25.809	3346	25.386	5220	25.133	4453	20.140	5458
19.503	4570	25.849	3333	25.416	2551	25.177	2902	20.186	7406
19.543	3676	25.872	3029	25.461	11053	25.209	2979	20.228	7487
19.567	5105	25.908	4361	25.589	4616	25.232	2531	20.270	2898
19.608	2723	25.970	8584	25.613	4132	25.269	4197	20.293	7811
19.631	3072	26.030	8915	25.654	2736	25.293	2932	20.340	3710
19.658	6944	26.107	3767	25.675	3187	25.344	6862	20.373	6320
19.699	5826	26.131	3428	25.701	4468	25.382	5433	20.400	4026
19.736	8582	26.175	5860	25.741	3883	25.455	4290	20.430	3533
19.794	11783	26.210	5694	25.777	3113	25.501	4093	20.449	4542
19.821	12913	26.276	2842	25.798	3719	25.532	4417	20.476	6686

Extracted Ion Current Profiles

20.395	5259	20.645	5493	17.590	2516	17.582	4872	35.481	3122	36.739	3748
20.438	4455	20.706	10294	17.617	5650	17.622	3711	35.569	2987	36.768	3169
20.478	2828	20.759	8852	17.688	5410	17.647	3005	35.679	6182	36.805	3251
20.501	4607	20.807	5245	17.727	5223	17.686	4688	35.720	3619	36.858	3012
20.592	6430	20.854	8456	17.753	4472	17.706	4884	35.768	3721	36.917	2594
20.634	6797	20.896	3283	17.802	4510	17.747	5789	35.860	3895	36.967	3173
20.673	3740	20.919	5392	17.827	3103	17.796	4854	35.909	3284	37.002	3201
20.707	8507	20.966	4873	17.856	2767	17.896	14504	35.954	5013	37.029	2605
20.762	4425	21.002	8005	17.890	5339	17.943	7047	36.017	3968	37.056	2570
20.812	8240	21.065	8651	17.928	8706	18.019	7534	36.102	6815	37.124	7163
20.871	3278	21.091	6226	17.982	3164	18.052	6768	36.273	4648	37.180	4957
20.893	3283	21.135	7011	18.005	4910	18.095	7702	36.335	6801	37.229	4867
20.918	3628	21.176	9198	18.089	13960	18.161	24346	36.397	3950	37.279	5957
20.952	4140	21.232	5802	18.144	5704	18.217	3733	36.456	3321	37.336	4241
20.981	4661	21.256	8265	18.191	9044	18.272	11677	36.581	5518	37.368	2545
21.029	5540	21.302	4027	18.262	6888	18.339	25533	36.606	2973	37.406	4964
21.100	7222	21.325	3666	18.284	6633	18.403	7544	36.761	2954	37.462	3965
21.139	3034	21.363	5694	18.322	6628	18.442	7246	36.800	4546	37.505	4771
21.168	4332	21.391	6966	18.358	4026	18.473	11872	36.864	3378	37.542	4829
21.212	6968	21.445	9126	18.387	3688	18.532	4772	36.939	3635	37.606	2620
21.273	9014	21.487	7300	18.418	7026	18.583	11653	37.024	6068	37.642	5946
21.336	10141	21.508	9430	18.448	4006	18.626	7117	37.080	3365	37.726	5608
21.375	4312	21.560	6456	18.480	6071	18.741	28708	37.140	5776	37.754	3251
21.417	11669	21.611	8432	18.524	10941	18.786	16602	37.205	2762	37.816	9252
21.482	7122	21.647	6453	18.574	8324	18.882	9381	37.314	3460	37.879	6609
21.522	3626	21.693	8148	18.636	15398	18.943	8970	37.357	3288	37.955	4281
21.548	3172	21.732	3537	18.698	11880	18.982	8534	37.390	3790	38.006	2985
21.572	3276	21.761	4796	18.760	9866	19.046	31079	37.427	3366	38.040	5647
21.598	3271	21.779	5300	18.801	9546	19.115	7078	37.491	3149	38.091	3892
21.621	4141	21.806	4317	18.843	6795	19.143	9298	37.596	2988	38.117	3503
21.645	2887	21.846	7326	18.916	11875	19.183	7463	37.618	2656	38.143	2882
21.694	5984	21.864	7271	18.954	7175	19.219	4632	37.668	5297	38.182	3864
21.719	2952	21.908	3650	18.999	6379	19.253	7875	37.709	3018	38.230	6076
21.754	4651	21.927	3800	19.018	7446	19.306	18122	37.758	5201	38.290	4115
21.808	7770	21.955	5052	19.077	9920	19.341	23041	37.818	5815	38.318	4970
21.826	4269	21.978	7067	19.133	10185	19.409	22853	37.890	2902	38.378	4844
21.889	8938	22.024	7740	19.159	5084	19.485	27057	37.941	2738	38.408	2608
21.917	2633	22.080	11646	19.209	12171	19.550	6331	37.987	3838	38.429	3511
21.944	4452	22.148	12827	19.250	19110	19.579	9958	38.054	5938	38.455	4049
21.981	5083	22.188	7314	19.335	11353	19.624	9932	38.116	7589	38.492	2974
22.039	5314	22.213	7407	19.363	5507	19.694	29260	38.194	3026	38.530	4650
22.068	5008	22.251	4090	19.399	10686	19.769	5891	38.225	3189	38.566	3939
22.126	8587	22.293	9165	19.453	7792	19.824	39755	38.269	2515	38.602	6501
22.156	7639	22.323	5571	19.479	13913	19.909	6566	38.304	3255	38.646	4713
22.219	8604	22.360	3737	19.544	10795	19.940	10521	38.332	3366	38.677	3175
22.272	7452	22.387	4946	19.568	12683	19.990	11920	38.375	3581	38.705	4112

Extracted Ion Current Profiles

19.885	4251	26.356	6129	25.834	5399	25.594	3657	20.513	4617
19.906	6194	26.403	3306	25.864	6145	25.630	5801	20.545	7631
19.945	4627	26.431	4376	25.926	4669	25.675	2866	20.589	9238
19.977	7105	26.469	3257	25.946	7054	25.699	3204	20.621	4630
20.006	4277	26.484	2725	25.996	3037	25.724	3628	20.658	5851
20.033	4848	26.549	4685	26.022	3426	25.773	6267	20.695	10096
20.057	10513	26.575	4304	26.053	5517	25.800	5055	20.733	4764
20.114	7478	26.617	4625	26.082	3593	25.837	3177	20.772	12493
20.157	10847	26.660	6049	26.120	5098	25.863	5397	20.831	12773
20.208	7369	26.686	3980	26.155	6042	25.900	3353	20.886	8878
20.247	7272	26.717	5018	26.181	3367	25.920	3650	20.920	5439
20.278	4852	26.754	4403	26.205	3960	25.950	3125	20.951	11256
20.305	12255	26.810	7977	26.233	4267	25.970	3571	21.000	8464
20.358	9450	26.854	5537	26.253	6117	26.002	4812	21.040	9550
20.410	11898	26.886	3302	26.297	6141	26.036	5897	21.077	5125
20.437	6037	26.913	3448	26.339	6469	26.097	6360	21.108	6855
20.473	8279	26.944	5785	26.368	4213	26.133	3607	21.140	5766
20.500	7803	26.977	7902	26.390	4074	26.169	8972	21.165	6523
20.537	5995	27.025	6205	26.444	7937	26.221	5305	21.189	5428
20.561	5274	27.058	3335	26.464	6909	26.255	3348	21.216	5739
20.584	6322	27.103	10356	26.501	4722	26.275	2578	21.241	9434
20.614	5031	27.143	4871	26.539	3244	26.342	6306	21.276	5478
20.636	5755	27.176	9645	26.602	3863	26.365	4477	21.301	6787
20.662	6550	27.218	3033	26.636	6468	26.390	3468	21.361	19246
20.695	14521	27.263	7791	26.681	8980	26.417	5291	21.396	8164
20.741	10043	27.297	6467	26.721	3563	26.453	4031	21.445	9515
20.771	7340	27.338	6496	26.760	5434	26.475	4178	21.474	5926
20.795	7366	27.374	5372	26.785	5725	26.515	8335	21.510	11728
20.820	6703	27.405	2786	26.822	4369	26.550	5797	21.548	8482
20.844	7316	27.441	10232	26.876	5187	26.594	3158	21.586	6027
20.870	7968	27.501	5284	26.896	5844	26.623	6186	21.610	12104
20.894	12030	27.526	4216	26.937	5194	26.649	3924	21.671	10199
20.935	6978	27.549	5976	26.971	5520	26.675	7212	21.709	9058
20.966	11109	27.584	3516	27.015	6906	26.717	6949	21.757	10442
20.991	13372	27.612	4129	27.068	4662	26.750	6560	21.793	11254
21.045	15980	27.637	4172	27.095	4000	26.799	4096	21.818	6900
21.091	5288	27.658	3766	27.118	4160	26.820	4278	21.852	10651
21.118	6228	27.689	5790	27.152	5799	26.861	7078	21.890	9906
21.149	8913	27.756	12451	27.181	4098	26.905	6647	21.923	9253
21.184	10492	27.794	4008	27.204	3776	26.933	5110	21.969	13525
21.216	9629	27.814	4046	27.248	7800	26.978	6576	22.003	6402
21.283	17843	27.846	6127	27.281	2845	27.018	6102	22.028	7506
21.313	7017	27.877	3497	27.304	3587	27.064	9767	22.065	5402
21.349	10061	27.923	7692	27.345	8719	27.094	3613	22.124	19957
21.393	14199	27.972	8212	27.389	6820	27.117	4596	22.165	7169
21.446	15224	27.998	5261	27.414	4180	27.144	8314	22.188	10957

Extracted Ion Current Profiles

22.299	7997	22.412	7668	19.606	18428	20.027	7953	38.407	3440	38.749	4362
22.389	5770	22.444	4807	19.684	17981	20.064	17951	38.443	2849	38.780	2734
22.438	5240	22.475	8637	19.744	5616	20.101	9475	38.493	2600	38.800	3485
22.480	6816	22.516	8180	19.781	8816	20.139	5511	38.542	6042	38.829	4358
22.541	6052	22.546	6489	19.809	5093	20.181	18493	38.593	5006	38.864	3954
22.572	4185	22.581	10695	19.843	10250	20.222	20978	38.631	3528	38.888	4399
22.615	3880	22.629	8313	19.880	10211	20.309	14271	38.673	4155	38.924	3928
22.646	3529	22.672	7099	19.909	6710	20.349	14034	38.703	2804	38.948	3623
22.668	5231	22.706	9102	19.932	9393	20.417	16868	38.729	2691	38.973	3936
22.709	4493	22.758	3627	19.972	9064	20.517	30189	38.782	2654	39.008	4881
22.730	5341	22.803	10433	20.016	9445	20.548	19784	38.826	5618	39.041	4343
22.791	14829	22.841	4506	20.065	14970	20.584	5908	38.863	3958	39.073	5423
22.882	6711	22.865	3641	20.102	5994	20.598	10917	38.888	2708	39.106	4567
22.914	4158	22.891	3937	20.129	6011	20.629	11367	38.918	3926	39.156	6640
22.952	6479	22.936	10246	20.170	12354	20.667	11394	38.989	8226	39.196	4052
22.976	5392	22.964	5129	20.207	6215	20.707	7786	39.047	5402	39.253	8235
23.015	4725	23.005	10354	20.228	7087	20.733	9813	39.082	4040	39.282	2838
23.076	8744	23.039	5783	20.251	7052	20.784	12230	39.121	3830	39.331	8541
23.112	4024	23.063	7503	20.279	7274	20.808	11784	39.183	6614	39.372	4664
23.138	6145	23.104	4589	20.302	9660	20.852	7058	39.232	6845	39.404	7352
23.187	5954	23.125	8655	20.350	13645	20.939	39292	39.278	5197	39.454	6971
23.211	5781	23.161	4119	20.402	7230	20.999	8526	39.321	5380	39.504	3678
23.260	5839	23.190	4292	20.431	12064	21.053	19192	39.388	5292	39.527	4770
23.284	3520	23.209	4763	20.486	9648	21.104	11725	39.443	6548	39.553	3828
23.345	9973	23.236	4699	20.521	13478	21.191	56688	39.492	4123	39.588	5736
23.371	3516	23.262	14436	20.562	7211	21.210	45393	39.515	2953	39.639	5830
23.406	4995	23.333	9793	20.585	7439	21.324	23207	39.546	5343	39.655	2577
23.450	5975	23.375	8819	20.612	9338	21.366	23746	39.599	6494	39.695	5247
23.495	2765	23.414	7367	20.634	9021	21.411	5372	39.673	5725	39.736	7218
23.522	3972	23.442	4450	20.659	7407	21.453	28803	39.707	4281	39.822	11800
23.549	6519	23.480	6977	20.694	15293	21.519	8231	39.743	4202	39.885	9218
23.583	5676	23.507	5240	20.736	13796	21.578	37691	39.799	6991	39.908	5146
23.638	8500	23.531	4550	20.796	9256	21.659	19605	39.837	3143	39.934	2699
23.667	4042	23.568	7313	20.826	9590	21.721	18470	39.860	3035	39.959	4726
23.701	7360	23.603	7556	20.859	5533	21.767	22283	39.895	4546	39.983	4034
23.738	3583	23.630	5544	20.894	13888	21.803	6740	39.953	7561	40.020	7579
23.817	3344	23.654	7489	20.933	9526	21.850	26345	40.050	12221	40.079	8117
23.844	3627	23.690	4162	20.990	12853	21.883	20757	40.089	2776	40.114	3086
23.863	4968	23.716	5740	21.017	6200	21.963	22831	40.111	4834	40.130	4553
23.905	3776	23.752	7287	21.056	9622	22.027	19052	40.205	10731	40.161	4712
23.950	9407	23.789	6385	21.093	18856	22.063	25573	40.232	4451	40.174	6179
23.974	9268	23.813	5160	21.139	7215	22.130	20302	40.313	8025	40.231	5691
24.032	2887	23.867	9467	21.167	10368	22.184	25298	40.354	4277	40.267	4958
24.088	8113	23.887	8183	21.205	6689	22.221	10752	40.381	4765	40.292	7217
24.105	4459	23.927	5186	21.226	10590	22.243	12716	40.428	9362	40.364	8262
24.137	4219	23.958	8704	21.287	13827	22.274	12351	40.505	6411	40.390	5708

Extracted Ion Current Profiles

21.495	21322	28.040	6637	27.439	6526	27.203	5728	22.226	11394
21.529	14665	28.093	12345	27.490	9814	27.232	6467	22.271	11507
21.559	9234	28.133	4258	27.541	6579	27.270	10593	22.300	13156
21.584	18612	28.159	4303	27.573	3765	27.327	3897	22.356	11390
21.645	7282	28.179	3987	27.609	9103	27.354	4059	22.385	5698
21.670	6564	28.211	8837	27.647	6316	27.381	7039	22.415	13346
21.697	6804	28.251	4473	27.684	6855	27.429	9826	22.457	6139
21.754	17976	28.290	8061	27.719	4045	27.470	8905	22.506	21273
21.786	21353	28.328	5520	27.747	6173	27.524	3000	22.560	10928
21.851	12130	28.353	6396	27.779	3999	27.573	7544	22.602	11224
21.893	14858	28.397	5870	27.822	6987	27.600	8505	22.635	14131
21.930	8341	28.431	4222	27.865	6675	27.648	4179	22.704	21676
21.955	14130	28.447	4468	27.901	6549	27.670	4213	22.758	7703
21.994	9387	28.473	4089	27.925	4659	27.695	4099	22.776	7920
22.013	9889	28.516	11417	27.951	4444	27.718	5307	22.808	7384
22.040	8424	28.567	13276	27.989	6768	27.781	7149	22.838	16241
22.064	7234	28.635	5791	28.012	4637	27.802	3586	22.890	15318
22.092	9054	28.680	6397	28.039	4347	27.843	10063	22.927	10827
22.114	13344	28.705	4568	28.059	4519	27.894	3634	22.963	9999
22.161	13756	28.729	5088	28.083	5200	27.937	10931	23.010	10723
22.200	19520	28.758	5130	28.111	7005	27.988	8894	23.038	6975
22.239	15746	28.776	7708	28.165	9236	28.030	9022	23.063	6827
22.301	16096	28.839	9013	28.207	5224	28.071	6655	23.087	8001
22.336	7842	28.863	6138	28.231	4423	28.109	3516	23.123	10366
22.363	10426	28.900	4922	28.262	8360	28.137	4295	23.151	7319
22.403	14252	28.935	6917	28.307	6315	28.155	6691	23.187	12750
22.435	9382	28.960	4315	28.341	3711	28.198	4151	23.235	18313
22.460	18145	28.986	7393	28.407	13096	28.228	6979	23.260	8927
22.507	9363	29.060	14338	28.434	4632	28.255	4872	23.289	9764
22.539	9639	29.097	7074	28.462	3931	28.281	6747	23.309	13074
22.554	10580	29.145	8505	28.489	10314	28.326	8473	23.372	20126
22.596	13924	29.181	4702	28.548	6397	28.367	3807	23.420	8148
22.627	16134	29.203	4411	28.571	4372	28.393	9234	23.446	8310
22.693	31161	29.231	7617	28.595	3540	28.441	8628	23.472	11349
22.758	12022	29.268	7367	28.643	9286	28.497	6120	23.508	7743
22.781	14070	29.315	12309	28.674	4766	28.548	8945	23.543	18490
22.839	21412	29.365	4585	28.691	5187	28.590	13983	23.598	10912
22.878	9210	29.384	5140	28.716	4547	28.631	7136	23.634	7897
22.908	15431	29.410	5042	28.747	7376	28.679	15119	23.657	12135
22.952	16622	29.439	7344	28.784	6302	28.743	6594	23.695	5460
22.976	10173	29.471	6986	28.829	6558	28.779	6461	23.727	20582
23.009	16920	29.507	7642	28.853	11338	28.816	7352	23.789	15116
23.050	8676	29.569	12707	28.914	4616	28.853	4170	23.832	11365
23.075	14158	29.604	5313	28.938	5172	28.883	6778	23.869	7712
23.135	16467	29.631	7026	28.966	11438	28.914	4632	23.887	12317
23.184	14998	29.667	4612	29.023	9746	28.942	6818	23.925	7826

Extracted Ion Current Profiles

24.170	7844	24.013	12966	21.313	7289	22.310	14061	40.540	3042	40.427	5911
24.217	7063	24.049	4967	21.337	8413	22.359	22304	40.561	2660	40.474	7005
24.274	9566	24.075	4951	21.379	16308	22.465	19967	40.593	3024	40.513	4972
24.319	3429	24.097	5262	21.412	16258	22.499	36097	40.612	3249	40.561	7084
24.345	4203	24.123	10401	21.466	11830	22.619	89127	40.640	6284	40.598	5683
24.378	7407	24.172	8038	21.501	18245	22.795	56012	40.698	4734	40.628	6465
24.420	4097	24.211	10637	21.560	9571	22.891	68810	40.727	4852	40.661	10059
24.454	6069	24.246	5338	21.598	5870	22.998	11910	40.764	4931	40.722	5071
24.479	5840	24.280	8615	21.624	9584	23.066	46583	40.796	3241	40.771	7280
24.531	7144	24.307	4580	21.663	9344	23.165	26337	40.831	4663	40.800	7332
24.566	3908	24.333	10118	21.698	6605	23.217	11283	40.881	6759	40.858	7382
24.591	4566	24.397	8862	21.733	16269	23.293	89916	40.915	5014	40.901	7412
24.620	3998	24.437	6163	21.796	21241	23.405	13301	40.958	4550	40.931	4738
24.637	4269	24.480	10134	21.877	32562	23.458	20564	40.994	4440	40.969	5643
24.667	6113	24.516	5469	21.930	7043	23.512	8239	41.023	3283	40.996	5305
24.711	5545	24.542	4718	21.956	14663	23.541	14905	41.042	3060	41.020	5883
24.739	3337	24.576	8935	22.002	6152	23.585	10682	41.089	6308	41.061	5592
24.789	8047	24.603	4762	22.031	9816	23.672	58149	41.139	6431	41.076	2586
24.813	4463	24.648	10342	22.064	6778	23.753	11679	41.171	3005	41.106	7651
24.837	5322	24.698	12944	22.090	6661	23.776	9809	41.193	3069	41.154	6262
24.863	4597	24.754	12559	22.114	6185	23.834	13635	41.227	5052	41.190	5810
24.896	6732	24.812	11707	22.143	7526	23.886	27261	41.266	6673	41.217	6095
24.924	4141	24.871	7839	22.166	13194	23.973	13219	41.305	3598	41.264	6118
24.958	5912	24.899	4578	22.222	16156	24.027	10705	41.329	3240	41.300	7065
24.996	6883	24.936	6820	22.250	8245	24.057	9734	41.354	3590	41.350	8350
25.023	6999	24.963	9474	22.271	8077	24.079	16934	41.382	5428	41.378	3544
25.058	6809	25.009	4538	22.299	7482	24.179	36087	41.425	4831	41.436	11796
25.095	3864	25.038	8760	22.340	10971	24.234	15155	41.477	6209	41.479	4382
25.123	7532	25.095	9840	22.375	12940	24.274	9889	41.548	10552	41.501	4712
25.161	7229	25.135	4922	22.397	17235	24.299	16295	41.576	3318	41.535	7890
25.204	6027	25.158	6945	22.448	13971	24.349	12927	41.618	8780	41.561	5866
25.256	10751	25.216	9051	22.511	12294	24.402	6394	41.692	12153	41.601	6795
25.297	4133	25.248	7015	22.533	13206	24.429	7441	41.746	3367	41.638	7842
25.315	4300	25.292	7940	22.572	8076	24.467	6264	41.778	4980	41.694	8872
25.342	3791	25.318	3809	22.594	7479	24.494	10689	41.814	2979	41.751	8564
25.393	7966	25.342	4797	22.620	7665	24.517	9843	41.867	9368	41.785	4199
25.418	5458	25.385	8388	22.665	15439	24.565	9635	41.906	5081	41.808	4788
25.441	7741	25.418	3867	22.693	6813	24.596	15401	41.943	5154	41.857	12833
25.477	5576	25.444	7879	22.718	6468	24.620	2852	41.970	3751	41.923	5929
25.505	4409	25.475	5086	22.761	15646	24.653	14330	41.995	6295	41.946	8347
25.528	7516	25.517	10498	22.792	7980	24.683	8614	42.075	8349	42.012	9722
25.586	9113	25.567	8231	22.827	11414	24.750	15794	42.117	7050	42.045	5711
25.637	8855	25.614	6117	22.853	7308	24.780	15136	42.155	3526	42.091	8767
25.684	17247	25.640	6297	22.884	7114	24.807	28722	42.194	5572	42.129	5124
25.749	5036	25.675	3322	22.908	7629	24.879	9865	42.218	4040	42.157	6464
25.774	4681	25.726	7661	22.928	11621	24.939	62542	42.253	7623	42.203	9266

Extracted Ion Current Profiles

23.223	6625	29.690	7761	29.058	5317	28.979	10386	23.949	8001
23.257	13365	29.726	4829	29.106	9831	29.021	4356	23.978	15166
23.284	7846	29.776	12279	29.130	4742	29.056	11434	24.026	8188
23.309	12506	29.813	4624	29.168	9217	29.108	4209	24.048	8434
23.368	17403	29.846	10331	29.224	9262	29.139	6414	24.079	12281
23.411	20638	29.905	12857	29.261	7383	29.171	4894	24.110	7324
23.458	8468	29.959	10357	29.297	8755	29.188	6529	24.139	17691
23.488	7964	30.000	4707	29.347	7299	29.227	3422	24.186	9214
23.511	13310	30.022	7005	29.374	4409	29.267	6752	24.208	9742
23.544	8488	30.054	4689	29.400	5215	29.286	4862	24.237	9217
23.570	8329	30.112	12506	29.423	8417	29.327	7275	24.257	18117
23.606	19046	30.139	5803	29.460	8330	29.350	9901	24.313	7197
23.662	15194	30.164	4802	29.501	7189	29.397	4741	24.356	18577
23.693	8992	30.203	6692	29.546	9156	29.438	12416	24.381	8460
23.716	8675	30.234	7810	29.588	6995	29.486	5727	24.406	8336
23.757	20503	30.267	4612	29.623	10010	29.523	4926	24.442	12874
23.790	9382	30.289	7735	29.668	4870	29.544	6884	24.466	8963
23.818	7210	30.318	5092	29.693	10344	29.582	4417	24.492	9375
23.850	12621	30.350	8517	29.755	11884	29.602	4694	24.517	8711
23.886	16616	30.399	4051	29.825	11680	29.640	7181	24.541	8955
23.925	7110	30.421	4691	29.861	5618	29.668	9107	24.599	22504
23.961	17460	30.440	5040	29.885	7542	29.717	4510	24.627	8856
24.024	19527	30.471	7411	29.933	10053	29.740	6955	24.661	11250
24.058	24089	30.516	17235	29.968	5017	29.798	12166	24.704	21069
24.112	9365	30.589	7348	30.003	6963	29.849	7258	24.786	23687
24.138	14381	30.612	7503	30.044	10268	29.873	5273	24.813	8472
24.170	9194	30.647	5081	30.087	7331	29.931	11807	24.837	7770
24.203	12808	30.694	10225	30.116	5086	29.968	7654	24.863	7233
24.234	7716	30.728	7374	30.156	11297	30.008	7167	24.924	23609
24.272	23847	30.782	9663	30.191	4631	30.030	5021	24.973	11855
24.316	7619	30.815	7958	30.227	11430	30.053	5360	24.996	8658
24.346	9356	30.849	7708	30.261	9624	30.080	4997	25.022	7797
24.371	13017	30.884	5550	30.321	10251	30.103	4445	25.071	15075
24.421	20375	30.913	9267	30.363	10732	30.136	7773	25.097	17791
24.508	31874	30.953	7668	30.411	5502	30.164	4242	25.162	17853
24.565	28792	30.981	5725	30.429	8818	30.193	4085	25.192	13371
24.590	18035	30.999	5556	30.468	8712	30.220	7613	25.241	11741
24.638	11270	31.029	5371	30.500	4805	30.254	6983	25.292	16901
24.675	10010	31.049	8059	30.529	4005	30.293	6680	25.324	12696
24.715	11432	31.096	7995	30.557	10774	30.321	4446	25.391	21565
24.739	8840	31.132	10407	30.601	7982	30.357	9746	25.416	8975
24.763	8029	31.186	7805	30.646	7818	30.394	5078	25.453	11241
24.791	11425	31.217	8258	30.686	8201	30.421	7476	25.480	12047
24.825	13080	31.246	4618	30.710	8143	30.469	6466	25.521	7011
24.882	13667	31.269	8307	30.747	4980	30.513	9399	25.570	29290
24.916	10474	31.307	5153	30.771	4575	30.545	4888	25.623	11412

Extracted Ion Current Profiles

25.799	7013	25.759	6869	22.967	12464	25.093	11369	42.302	5846	42.240	4362
25.834	4199	25.786	4860	23.003	15400	25.114	17949	42.353	12528	42.277	6845
25.881	9380	25.846	10382	23.053	7650	25.172	9574	42.411	5449	42.315	7565
25.921	6810	25.876	10298	23.075	8793	25.200	8700	42.451	5438	42.351	6480
25.949	6910	25.922	4326	23.117	15563	25.262	20966	42.497	7904	42.378	7585
25.988	6055	25.951	6472	23.137	11475	25.294	9701	42.526	3391	42.427	5893
26.040	9027	25.987	9386	23.168	12772	25.343	12355	42.602	13947	42.463	8333
26.070	6064	26.037	3914	23.200	8348	25.384	7478	42.650	3502	42.500	5886
26.108	6710	26.053	3832	23.223	8303	25.430	15978	42.711	9551	42.526	5959
26.144	7299	26.082	3570	23.282	24171	25.460	7829	42.735	3756	42.566	7162
26.201	10100	26.107	5659	23.309	9512	25.490	5527	42.797	8332	42.599	4004
26.233	4356	26.149	7081	23.334	8088	25.518	13551	42.830	5745	42.625	5554
26.253	5157	26.219	10644	23.360	8637	25.595	10100	42.862	3670	42.650	4092
26.280	5120	26.239	4763	23.386	12697	25.630	7567	42.884	3791	42.686	10398
26.311	8848	26.291	8763	23.444	16831	25.686	11702	42.910	3787	42.736	5271
26.342	4377	26.316	4512	23.471	11867	25.717	8418	42.933	4214	42.771	10533
26.366	4602	26.353	8510	23.503	7301	25.761	13438	42.964	3518	42.829	10030
26.392	6601	26.391	4411	23.558	15145	25.802	8449	43.004	7850	42.886	7383
26.433	4502	26.415	4755	23.590	13639	25.839	10288	43.032	5818	42.908	5519
26.459	7804	26.448	6650	23.617	16432	25.854	6696	43.084	7151	42.954	9172
26.490	4765	26.486	7254	23.667	7619	25.886	7277	43.133	7648	42.981	4808
26.512	4969	26.543	3615	23.697	14151	25.920	3452	43.185	9605	43.029	8412
26.549	7038	26.573	5953	23.733	8984	25.943	6697	43.241	6093	43.058	4199
26.577	7639	26.621	12402	23.749	9200	26.004	18057	43.269	9254	43.080	5185
26.615	6022	26.674	3100	23.787	17319	26.054	20006	43.334	6007	43.106	4663
26.637	7311	26.721	8855	23.838	10946	26.089	17540	43.366	5125	43.155	10291
26.684	6085	26.748	4525	23.865	11794	26.176	16412	43.437	11576	43.181	6762
26.713	7374	26.781	6996	23.901	9830	26.214	7713	43.488	6003	43.217	4160
26.749	7062	26.818	10655	23.925	8789	26.250	6155	43.517	3776	43.252	8504
26.786	6396	26.877	3261	23.950	7609	26.312	11768	43.540	4174	43.280	2961
26.834	8343	26.893	3619	23.977	7767	26.350	13396	43.564	3916	43.304	5277
26.859	6745	26.932	5163	24.009	11980	26.427	13582	43.639	10922	43.338	7927
26.903	6397	26.966	5029	24.036	7315	26.465	7448	43.664	3645	43.377	6144
26.935	4988	26.995	3329	24.065	12518	26.503	10350	43.694	5751	43.410	9332
26.966	7836	27.025	6293	24.100	12430	26.538	4735	43.736	5923	43.453	5383
26.996	5094	27.056	3646	24.134	9038	26.576	9635	43.775	5069	43.478	5182
27.026	8020	27.096	11702	24.159	8616	26.628	10825	43.838	9527	43.500	7219
27.062	3990	27.167	6564	24.208	27542	26.678	15411	43.886	9816	43.527	5296
27.096	10591	27.192	3883	24.257	11523	26.726	12721	43.948	9787	43.564	4931
27.130	4455	27.216	3565	24.343	24581	26.803	14983	43.986	7778	43.592	8237
27.160	9187	27.240	3967	24.397	21946	26.845	10930	44.034	3693	43.650	9416
27.195	11829	27.276	7518	24.465	18722	26.901	13548	44.087	9774	43.676	3565
27.240	5225	27.316	3758	24.492	8351	26.967	21722	44.131	7797	43.699	5944
27.272	5088	27.355	10954	24.539	19902	26.998	12604	44.168	6917	43.759	11993
27.318	16739	27.404	8644	24.566	14377	27.050	13420	44.256	12480	43.799	6239
27.403	12350	27.451	4077	24.602	9537	27.095	9619	44.312	6095	43.824	6478

Extracted Ion Current Profiles

24.952	12072	31.332	10253	30.799	4594	30.586	9639	25.673	15338
24.985	13023	31.382	7361	30.830	9604	30.623	6996	25.703	7446
25.023	7952	31.425	11985	30.870	8226	30.650	4686	25.728	13762
25.048	12176	31.483	7454	30.903	5366	30.685	6682	25.804	12890
25.086	10957	31.526	12493	30.931	10295	30.718	10015	25.823	8827
25.122	8406	31.586	15450	30.989	7297	30.759	5202	25.849	9079
25.155	12158	31.644	5355	31.026	7051	30.792	7010	25.872	7929
25.185	6394	31.683	9968	31.050	4958	30.833	10035	25.912	14724
25.208	6856	31.723	11155	31.098	11343	30.877	7043	25.959	12958
25.242	10920	31.771	5417	31.123	7570	30.905	8202	25.999	16256
25.268	7174	31.794	4913	31.158	4089	30.956	4189	26.033	7264
25.297	6922	31.832	10660	31.197	12450	30.976	5423	26.057	6307
25.315	7120	31.869	5662	31.248	5907	31.009	6934	26.098	15213
25.348	7853	31.895	6597	31.268	6239	31.041	4160	26.156	17222
25.378	17324	31.928	9059	31.326	14087	31.074	9267	26.190	6186
25.418	8919	31.953	5949	31.355	4567	31.136	8565	26.218	6318
25.439	9144	31.987	5302	31.381	13812	31.170	8078	26.247	11999
25.478	18474	32.018	11134	31.453	15149	31.197	6430	26.314	24203
25.526	17016	32.071	8202	31.511	8765	31.252	9071	26.341	8260
25.575	11689	32.095	8472	31.541	16718	31.297	9563	26.365	7318
25.604	12453	32.133	4759	31.622	5035	31.329	4726	26.402	11389
25.637	8351	32.182	14405	31.646	10221	31.362	6884	26.427	10310
25.675	11505	32.218	5725	31.694	7327	31.394	9563	26.474	10970
25.700	7761	32.243	7415	31.744	7637	31.450	8941	26.505	10307
25.724	7271	32.280	5269	31.782	17282	31.507	8592	26.560	14394
25.749	6126	32.309	5984	31.845	6089	31.538	4015	26.602	15079
25.780	13632	32.331	5903	31.874	5782	31.559	4141	26.653	9962
25.849	14715	32.367	11001	31.902	8826	31.584	6336	26.672	7479
25.869	10534	32.412	8922	31.945	7129	31.623	4232	26.699	7589
25.932	15590	32.445	5652	31.977	8089	31.644	4425	26.725	9575
25.994	12406	32.475	11656	32.030	11592	31.669	3954	26.775	10494
26.043	15087	32.535	11492	32.067	9835	31.693	4292	26.795	14146
26.072	6467	32.568	6528	32.114	12884	31.716	3874	26.846	9228
26.094	6058	32.593	5662	32.155	9151	31.779	11031	26.942	25038
26.121	10196	32.618	5518	32.186	5606	31.817	6070	26.993	18178
26.158	6784	32.649	9386	32.207	8835	31.852	6809	27.049	16210
26.181	9264	32.680	8119	32.246	5180	31.881	5743	27.083	14132
26.222	12318	32.721	5230	32.270	8228	31.920	4060	27.142	10838
26.268	6147	32.745	11792	32.307	5978	31.950	10291	27.167	10050
26.295	10400	32.793	10778	32.331	5684	31.995	6298	27.204	6143
26.331	10030	32.844	10907	32.369	9012	32.057	8866	27.230	5282
26.378	10911	32.921	14025	32.401	9149	32.081	4885	27.284	21858
26.411	10929	32.956	5300	32.435	8981	32.106	4421	27.335	19304
26.440	6199	32.994	8046	32.481	8825	32.148	8851	27.387	6685
26.465	5452	33.017	5704	32.517	9057	32.181	3535	27.414	6828
26.505	14774	33.043	5067	32.547	6356	32.211	6062	27.440	6491

Extracted Ion Current Profiles

27.426	8517	27.476	4240	24.631	12024	27.132	9197	44.356	9328	43.860	4671
27.464	5122	27.513	3506	24.686	17570	27.173	7531	44.432	7532	43.894	7304
27.523	11910	27.536	3873	24.714	8629	27.230	13429	44.477	8321	43.922	5442
27.550	5525	27.571	4444	24.745	8320	27.281	14426	44.504	3820	43.956	10570
27.573	5454	27.623	10301	24.765	12638	27.311	5150	44.529	3517	44.009	5424
27.621	11320	27.654	4050	24.800	7294	27.365	14061	44.588	9927	44.046	8901

Extracted Ion Current Profiles

26.538	9743	33.080	11338	32.564	8463	32.253	8267	27.464	8718
26.591	8829	33.123	14442	32.609	8472	32.322	10505	27.515	8798
26.611	9155	33.181	5720	32.650	9150	32.364	6592	27.535	7161
26.650	6024	33.218	8231	32.681	5139	32.398	4210	27.564	9227
26.678	18415	33.244	5727	32.706	4523	32.426	8581	27.594	9474
26.751	5670	33.266	5600	32.735	5583	32.477	12314	27.634	12398

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 326		m/z 324		m/z 254		m/z 256		m/z 258		m/z 392	
22.112	2604	22.373	7058	16.242	2701	15.222	2684	12.098	3030	36.503	2505
22.893	2637	23.441	2608	16.399	4115	15.298	3071	13.477	9366	36.936	3127
23.211	3413	23.835	3969	16.433	3287	15.387	2520	15.253	2997	38.360	3097
23.359	2855	23.882	3695	16.552	4157	15.800	2894	15.650	3758	38.431	2663
23.530	2791	23.917	2603	16.593	6314	15.898	4210	15.762	2857	38.494	2545
23.849	3011	24.188	2501	16.678	4287	15.977	2982	15.792	3477	38.543	2730
23.928	2775	24.338	2909	16.729	3343	16.024	2776	15.927	3349	38.779	2908
24.024	2581	24.397	3308	16.793	6662	16.115	2974	16.021	4280	38.868	3674
24.051	3397	24.434	3267	16.844	4238	16.153	3176	16.064	3433	38.935	2879
24.092	2673	24.562	5422	16.880	6184	16.194	3897	16.115	6528	39.210	2745
24.240	3213	24.598	2791	16.917	3569	16.213	3013	16.165	2919	39.256	2984
24.275	2516	24.760	3946	16.988	2672	16.248	3829	16.219	5639	39.394	5079
24.477	4593	24.870	6423	17.010	4485	16.280	2540	16.294	5515	39.455	2989
24.596	3071	24.933	2930	17.049	3867	16.305	2538	16.358	5560	39.510	4073
24.641	3939	25.003	5144	17.092	5593	16.330	2870	16.380	5356	39.544	3081
24.701	2861	25.083	8624	17.136	3998	16.362	7803	16.426	4980	39.602	5433
24.741	4553	25.183	3917	17.176	5000	16.417	2697	16.458	5318	39.653	3090
24.761	3404	25.246	2816	17.212	3366	16.445	3066	16.493	4853	39.697	3381
24.796	3968	25.281	4784	17.236	3109	16.477	4813	16.534	5484	39.752	3541
24.828	3614	25.305	3127	17.274	7088	16.510	3119	16.569	4221	39.847	4125
24.871	4313	25.368	5499	17.317	6632	16.530	5647	16.596	4020	39.921	3575
24.899	2528	25.431	5153	17.375	5958	16.567	4009	16.614	4062	40.032	2788
24.926	4261	25.482	4058	17.400	3810	16.594	3768	16.663	9571	40.071	3778
24.963	6733	25.516	4246	17.436	6964	16.626	6409	16.719	5333	40.117	3548
25.051	4418	25.551	3992	17.480	3285	16.656	3728	16.742	4128	40.167	4471
25.122	5702	25.603	5959	17.502	4609	16.694	5854	16.772	7606	40.193	3343
25.145	3256	25.637	3401	17.525	7342	16.729	6056	16.822	6149	40.255	3492
25.198	4304	25.668	6045	17.565	7386	16.775	8343	16.879	9475	40.288	6075
25.287	7758	25.713	3157	17.601	6124	16.808	5635	16.907	4858	40.356	3614
25.333	3200	25.738	4173	17.640	4203	16.845	3949	16.947	7460	40.417	4981
25.355	3368	25.790	3391	17.689	9078	16.882	6184	16.977	8146	40.439	3319
25.386	5220	25.809	3346	17.711	4783	16.932	8631	17.006	5162	40.477	3637
25.416	2551	25.849	3333	17.744	6550	16.957	5093	17.033	4570	40.515	2942
25.461	11053	25.872	3029	17.778	12850	16.996	7849	17.092	13735	40.548	3639
25.589	4616	25.908	4361	17.844	5200	17.020	5772	17.124	5119	40.582	2823
25.613	4132	25.970	8584	17.870	5369	17.047	5875	17.156	7816	40.641	5111
25.654	2736	26.030	8915	17.887	5688	17.072	5390	17.200	8556	40.700	2735
25.675	3187	26.107	3767	17.917	5301	17.096	5546	17.221	10765	40.786	4252
25.701	4468	26.131	3428	17.940	5231	17.133	8488	17.283	7646	40.860	3722
25.741	3883	26.175	5860	17.971	10322	17.173	11785	17.316	5447	40.898	3692
25.777	3113	26.210	5694	18.034	8821	17.236	12980	17.335	7010	40.935	3887
25.798	3719	26.276	2842	18.058	6661	17.260	10419	17.361	6262	40.968	2679

Extracted Ion Current Profiles

Pentachlorobiphenyls													
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 394		m/z 396		m/z 398		m/z 322		m/z 360		m/z 362		m/z 323	
36.791	2550	35.037	3341	35.013	2525	25.183	4008	30.181	2630	33.244	2776	22.414	3225
37.301	3350	35.868	4298	36.244	3293	25.446	3010	30.642	3327	33.938	3234	22.720	4575
37.523	3712	37.131	2694	36.456	2596	25.675	5549	31.471	2686	34.054	3090	23.819	2545
37.593	4158	37.221	2554	36.884	2807	25.740	3249	31.891	2624	34.104	4409	23.863	8356
37.696	3055	37.332	5106	37.160	2736	25.779	2519	31.967	3417	34.167	2681	23.888	5338
37.831	2760	37.433	4463	37.213	3571	25.845	4338	32.034	2904	34.200	4321	24.229	4585
37.917	3484	37.472	3878	37.380	3084	25.910	2630	32.244	2932	34.267	4607	25.181	5692
37.949	2614	37.533	3560	37.555	2783	25.962	3623	32.317	3379	34.346	3658	25.215	2956
37.993	2822	37.619	4884	37.629	4262	25.997	3027	32.378	4987	34.467	2523	25.267	2650
38.093	2772	37.837	4503	37.667	3490	26.079	3913	32.532	4921	34.500	2698	25.330	3112
38.223	2667	37.874	3322	37.759	3613	26.111	3477	32.659	2649	34.540	3893	25.392	3071
38.456	2777	37.969	4029	37.903	3321	26.143	2708	32.741	3724	34.642	2797	25.636	3974
38.511	3454	38.018	3289	37.982	3201	26.167	3707	32.939	3376	34.705	4160	25.664	2551
38.577	2988	38.095	2859	38.030	2747	26.253	2604	33.017	2626	34.802	2513	25.701	6368
38.734	3462	38.269	4237	38.081	3884	26.281	3053	33.058	3904	34.956	3000	25.783	2684
38.789	3134	38.330	4619	38.212	2555	26.354	5941	33.114	2710	35.067	2824	25.858	2544
38.836	3530	38.356	5349	38.298	4738	26.377	4063	33.171	6015	35.128	2997	25.933	4468
38.886	3011	38.549	2611	38.407	2594	26.454	2912	33.262	2731	35.255	3011	26.018	3857
39.090	5895	38.644	3122	38.475	3978	26.510	3535	33.368	4063	35.301	3906	26.110	3081
39.189	2567	38.783	2990	38.519	2713	26.562	4620	33.430	3489	35.473	2792	26.181	4416
39.386	2804	38.905	2997	38.568	3673	26.615	4004	33.544	3847	35.642	4975	26.310	3636
39.499	4596	39.034	4192	38.596	3479	26.724	5323	33.621	2827	35.683	2809	26.363	5103
39.569	3120	39.061	4311	38.641	3583	26.747	2954	33.721	3479	35.728	3193	26.411	6235
39.694	4688	39.119	2767	38.676	3479	26.785	5626	33.799	4349	35.768	3534	26.491	5083
39.866	4936	39.275	2887	38.713	2950	26.888	5702	33.866	2516	35.805	2511	26.531	6287
39.982	2888	39.323	2633	38.777	6095	26.933	4252	33.919	3342	35.845	3202	26.605	4111
40.030	2982	39.376	2924	38.829	4739	26.967	4855	33.943	2912	35.907	4522	26.655	3660
40.091	3080	39.462	2518	38.871	3887	27.004	4056	34.106	3418	35.943	2626	26.692	4179
40.145	2745	39.524	3369	38.906	3362	27.037	6209	34.352	6515	35.987	3078	26.724	4098
40.441	2828	40.428	3235	38.981	8705	27.118	6699	34.410	3734	36.018	3295	26.764	3040
40.551	3006	40.576	3758	39.031	3759	27.139	2560	34.454	3732	36.055	3385	26.803	5753
40.627	3524	40.686	2932	39.086	4957	27.190	6185	34.568	2569	36.155	3331	26.887	4980
40.833	4917	40.814	3962	39.110	2538	27.229	3233	34.696	2919	36.181	2743	26.914	6023
40.860	3203	40.878	3106	39.146	6875	27.263	4276	34.762	2588	36.229	4222	26.983	4663
41.783	3070	40.941	4602	39.240	3502	27.296	4021	34.825	4768	36.262	2777	27.030	4538
41.908	5135	40.998	3521	39.273	3908	27.341	8598	34.891	5810	36.322	5776	27.090	11564
42.084	4599	41.048	2557	39.331	6552	27.392	5177	35.022	4336	36.379	5186	27.164	7739
42.106	3900	41.078	3765	39.403	8067	27.425	3450	35.102	4031	36.480	2881	27.247	8759
42.180	2601	41.117	3307	39.451	4140	27.458	3813	35.133	4375	36.518	4007	27.303	5786
42.233	3037	41.157	3126	39.505	2739	27.488	4824	35.282	2828	36.554	2521	27.341	3061
42.253	2656	41.187	3238	39.552	6708	27.523	3840	35.317	4029	36.621	4247	27.389	3641
42.311	3517	41.224	3709	39.599	3521	27.566	9104	35.404	5870	36.668	4445	27.415	4908

Extracted Ion Current Profiles

25.834	5399	26.356	6129	18.082	10172	17.297	6834	17.414	11481	40.998	3584
25.864	6145	26.403	3306	18.156	20390	17.321	6298	17.437	10737	41.030	3503
25.926	4669	26.431	4376	18.201	12828	17.371	16794	17.475	5776	41.081	5332
25.946	7054	26.469	3257	18.286	16946	17.413	6563	17.501	5849	41.118	6898
25.996	3037	26.484	2725	18.308	9276	17.445	13793	17.525	6189	41.180	3973
26.022	3426	26.549	4685	18.334	8044	17.488	5938	17.564	10162	41.205	2833
26.053	5517	26.575	4304	18.381	16213	17.529	9870	17.589	7041	41.243	5174
26.082	3593	26.617	4625	18.414	13235	17.571	15350	17.613	6510	41.275	4666
26.120	5098	26.660	6049	18.445	8597	17.611	17594	17.662	14748	41.304	3228
26.155	6042	26.686	3980	18.473	6782	17.648	7337	17.693	17469	41.338	3998
26.181	3367	26.717	5018	18.504	18684	17.676	8238	17.747	10610	41.374	5696
26.205	3960	26.754	4403	18.568	8362	17.717	26635	17.781	7279	41.414	4808
26.233	4267	26.810	7977	18.586	8819	17.800	17931	17.803	9353	41.449	3762
26.253	6117	26.854	5537	18.613	8644	17.855	18841	17.828	8679	41.478	2531
26.297	6141	26.886	3302	18.638	12914	17.888	16030	17.854	10558	41.512	5313
26.339	6469	26.913	3448	18.681	12696	17.924	15410	17.904	18001	41.551	3729
26.368	4213	26.944	5785	18.747	26928	17.956	14955	17.957	14746	41.581	3976
26.390	4074	26.977	7902	18.790	8584	18.007	14935	18.006	8115	41.617	3080
26.444	7937	27.025	6205	18.816	9322	18.041	15948	18.036	12566	41.636	3829
26.464	6909	27.058	3335	18.857	20301	18.070	11792	18.088	23388	41.697	9147
26.501	4722	27.103	10356	18.913	20923	18.093	17124	18.133	18309	41.737	3938
26.539	3244	27.143	4871	18.958	15780	18.144	23086	18.184	9579	41.771	3961
26.602	3863	27.176	9645	18.996	24395	18.181	11640	18.221	13656	41.795	3948
26.636	6468	27.218	3033	19.034	24378	18.223	22516	18.247	15326	41.844	5383
26.681	8980	27.263	7791	19.084	12438	18.266	19476	18.284	10598	41.884	4559
26.721	3563	27.297	6467	19.121	19132	18.299	12560	18.309	9831	41.924	4026
26.760	5434	27.338	6496	19.146	17198	18.328	19181	18.337	14421	41.948	4989
26.785	5725	27.374	5372	19.199	15936	18.397	40485	18.377	9476	41.971	4749
26.822	4369	27.405	2786	19.226	18982	18.461	40398	18.408	19633	42.019	8529
26.876	5187	27.441	10232	19.274	16522	18.523	20200	18.449	14086	42.077	5498
26.896	5844	27.501	5284	19.301	12317	18.550	11143	18.486	8743	42.131	7230
26.937	5194	27.526	4216	19.353	27227	18.587	20439	18.512	7946	42.164	4965
26.971	5520	27.549	5976	19.372	14067	18.616	14723	18.553	12906	42.192	3489
27.015	6906	27.584	3516	19.431	28558	18.640	23534	18.578	10691	42.230	7298
27.068	4662	27.612	4129	19.463	31346	18.709	46601	18.621	29114	42.276	4442
27.095	4000	27.637	4172	19.526	27956	18.757	19887	18.664	11222	42.315	8106
27.118	4160	27.658	3766	19.554	13294	18.823	37774	18.693	16844	42.404	12222
27.152	5799	27.689	5790	19.590	22467	18.868	26787	18.729	11293	42.463	4327
27.181	4098	27.756	12451	19.628	23916	18.892	18085	18.750	10873	42.491	4597
27.204	3776	27.794	4008	19.669	22553	18.951	59881	18.777	10500	42.528	3958
27.248	7800	27.814	4046	19.699	24137	19.017	30536	18.805	9744	42.571	8250
27.281	2845	27.846	6127	19.732	15423	19.066	24440	18.832	11754	42.616	2955
27.304	3587	27.877	3497	19.767	20475	19.103	25912	18.851	12104	42.637	4814
27.345	8719	27.923	7692	19.796	13857	19.147	26254	18.891	27347	42.661	3456
27.389	6820	27.972	8212	19.825	20857	19.178	28310	18.963	21233	42.691	4642
27.414	4180	27.998	5261	19.862	15349	19.212	18295	19.012	18453	42.723	4580

Extracted Ion Current Profiles

42.365	4286	41.277	3062	39.640	5319	27.631	4097	35.481	3122	36.739	3748	27.480	5186
42.427	3584	41.311	3746	39.677	2915	27.671	4109	35.569	2987	36.768	3169	27.597	5966
42.459	3799	41.344	5139	39.713	5533	27.698	5233	35.679	6182	36.805	3251	27.633	2895
42.487	3126	41.401	6468	39.749	2559	27.731	3419	35.720	3619	36.858	3012	27.658	2590
42.538	3660	41.533	4152	39.776	3033	27.762	3172	35.768	3721	36.917	2594	27.692	4546
42.564	2746	41.563	3690	39.811	4308	27.778	2991	35.860	3895	36.967	3173	27.724	5024
42.599	6875	41.638	3879	39.836	4520	27.832	4264	35.909	3284	37.002	3201	27.828	5241
42.725	9527	41.668	4486	39.908	7177	27.871	4636	35.954	5013	37.029	2605	27.902	4317
42.760	2630	41.714	2655	39.935	3240	27.901	3003	36.017	3968	37.056	2570	27.932	3340
42.791	2562	41.756	9250	39.960	2888	27.938	6177	36.102	6815	37.124	7163	27.970	6381
42.811	3370	41.811	2664	39.990	2925	27.976	5161	36.273	4648	37.180	4957	27.998	2632
42.851	4959	41.854	6178	40.019	4442	28.012	2819	36.335	6801	37.229	4867	28.050	2935
42.900	2869	41.885	2718	40.046	2718	28.045	3747	36.397	3950	37.279	5957	28.071	2882
42.919	3228	41.922	5803	40.082	4283	28.087	4933	36.456	3321	37.336	4241	28.108	5384
42.945	3279	41.974	6002	40.124	4484	28.105	3272	36.581	5518	37.368	2545	28.180	5564
42.977	5053	42.014	3373	40.143	3448	28.148	9026	36.606	2973	37.406	4964	28.230	3920
43.030	4332	42.032	3886	40.175	3160	28.212	4720	36.761	2954	37.462	3965	28.258	4291
43.076	5340	42.103	11781	40.191	2950	28.248	4415	36.800	4546	37.505	4771	28.353	3487
43.105	2807	42.142	4934	40.219	2961	28.289	4496	36.864	3378	37.542	4829	28.375	2709
43.171	9913	42.178	4813	40.260	7563	28.328	6810	36.939	3635	37.606	2620	28.409	4094
43.211	7644	42.220	4639	40.306	4730	28.373	5210	37.024	6068	37.642	5946	28.440	2931
43.258	3321	42.245	6833	40.348	4790	28.406	4909	37.080	3365	37.726	5608	28.471	4809
43.280	4000	42.317	9003	40.387	6773	28.436	3252	37.140	5776	37.754	3251	28.500	2890
43.304	5720	42.368	3368	40.447	7110	28.467	4570	37.205	2762	37.816	9252	28.528	5482
43.347	3533	42.399	5378	40.498	6669	28.500	3160	37.314	3460	37.879	6609	28.596	5912
43.363	3687	42.427	3393	40.553	6186	28.528	3184	37.357	3288	37.955	4281	28.656	4350
43.389	3345	42.477	6631	40.582	4732	28.562	7254	37.390	3790	38.006	2985	28.686	3676
43.416	6283	42.502	4088	40.614	3005	28.622	7007	37.427	3366	38.040	5647	28.727	3213
43.475	7623	42.532	7862	40.640	5291	28.643	5818	37.491	3149	38.091	3892	28.767	4026
43.519	5146	42.573	3336	40.683	4679	28.684	5452	37.596	2988	38.117	3503	28.792	6048
43.556	3547	42.627	12947	40.739	3148	28.750	10126	37.618	2656	38.143	2882	28.852	4203
43.585	7476	42.692	5329	40.761	3410	28.787	5722	37.668	5297	38.182	3864	28.875	2579
43.648	7010	42.724	3369	40.795	4871	28.815	3907	37.709	3018	38.230	6076	28.911	4834
43.676	2814	42.765	8866	40.827	7299	28.839	3446	37.758	5201	38.290	4115	28.938	4830
43.701	3456	42.824	4926	40.872	3322	28.864	4632	37.818	5815	38.318	4970	29.007	7900
43.736	5406	42.856	5655	40.901	4960	28.902	5423	37.890	2902	38.378	4844	29.046	6047
43.764	5852	42.890	5369	40.957	9308	28.939	5779	37.941	2738	38.408	2608	29.083	3223
43.802	3876	42.927	3403	41.006	5953	28.972	5618	37.987	3838	38.429	3511	29.106	3124
43.823	4156	42.946	3488	41.035	4008	29.009	3474	38.054	5938	38.455	4049	29.130	2931
43.850	5629	42.979	5765	41.060	4239	29.037	7072	38.116	7589	38.492	2974	29.158	3276
43.889	7824	43.005	3916	41.082	6030	29.085	3653	38.194	3026	38.530	4650	29.192	6796
43.942	3696	43.035	3925	41.121	12173	29.106	3864	38.225	3189	38.566	3939	29.234	4356
43.984	7797	43.071	7597	41.201	8044	29.142	7533	38.269	2515	38.602	6501	29.270	4123
44.009	4083	43.107	4777	41.245	5708	29.193	7992	38.304	3255	38.646	4713	29.305	6414
44.065	11602	43.147	4811	41.290	5475	29.233	5273	38.332	3366	38.677	3175	29.423	4806
44.110	3993	43.184	5861	41.336	7495	29.267	3636	38.375	3581	38.705	4112	29.447	2917

Extracted Ion Current Profiles

27.439	6526	28.040	6637	19.881	16568	19.233	18210	19.029	12822	42.781	7894
27.490	9814	28.093	12345	19.907	14586	19.264	18167	19.057	12231	42.810	3846
27.541	6579	28.133	4258	19.968	40229	19.285	18565	19.092	17486	42.835	4245
27.573	3765	28.159	4303	19.991	17302	19.319	26547	19.132	17276	42.859	4370
27.609	9103	28.179	3987	20.029	39118	19.360	26077	19.166	18449	42.908	5904
27.647	6316	28.211	8837	20.094	33333	19.423	58697	19.209	27114	42.934	4045
27.684	6855	28.251	4473	20.139	23675	19.463	19513	19.247	13413	42.968	6890
27.719	4045	28.290	8061	20.176	24273	19.491	19505	19.277	20515	43.001	2541
27.747	6173	28.328	5520	20.215	24719	19.519	30686	19.314	13752	43.023	5727
27.779	3999	28.353	6396	20.241	16353	19.553	28937	19.337	17967	43.059	4176
27.822	6987	28.397	5870	20.270	38520	19.594	20380	19.379	17488	43.086	3316
27.865	6675	28.431	4222	20.350	56443	19.622	34725	19.421	21162	43.104	5811
27.901	6549	28.447	4468	20.386	19441	19.656	20173	19.491	55196	43.156	6996
27.925	4659	28.473	4089	20.415	19348	19.708	48050	19.567	18296	43.203	6213
27.951	4444	28.516	11417	20.441	37403	19.745	38624	19.607	27199	43.235	3061
27.989	6768	28.567	13276	20.486	17507	19.800	30130	19.654	25591	43.259	4063
28.012	4637	28.635	5791	20.517	28791	19.833	21135	19.712	25673	43.278	7536
28.039	4347	28.680	6397	20.547	19641	19.862	42586	19.744	14592	43.333	6241
28.059	4519	28.705	4568	20.586	39923	19.907	19022	19.783	25225	43.367	3313
28.083	5200	28.729	5088	20.629	28347	19.943	32865	19.825	11622	43.391	4328
28.111	7005	28.758	5130	20.670	32359	19.977	30551	19.843	12330	43.416	3567
28.165	9236	28.776	7708	20.697	46654	20.030	65388	19.870	10668	43.442	3758
28.207	5224	28.839	9013	20.744	41026	20.100	44680	19.896	11391	43.476	8301
28.231	4423	28.863	6138	20.821	57179	20.130	41953	19.945	23222	43.529	8991
28.262	8360	28.900	4922	20.870	18552	20.201	43976	19.980	19385	43.587	4796
28.307	6315	28.935	6917	20.898	33267	20.232	21724	20.007	18747	43.617	4685
28.341	3711	28.960	4315	20.930	22754	20.253	44359	20.044	11022	43.639	5260
28.407	13096	28.986	7393	20.982	56373	20.313	31238	20.069	12293	43.677	6386
28.434	4632	29.060	14338	21.049	58775	20.357	32128	20.092	17843	43.748	11357
28.462	3931	29.097	7074	21.078	20900	20.385	43516	20.131	13564	43.792	7333
28.489	10314	29.145	8505	21.121	30718	20.434	28399	20.169	36967	43.845	7381
28.548	6397	29.181	4702	21.152	33677	20.467	28675	20.218	22247	43.874	4120
28.571	4372	29.203	4411	21.177	32570	20.511	32982	20.252	13500	43.899	5490
28.595	3540	29.231	7617	21.247	53271	20.562	50200	20.277	12915	43.937	3649
28.643	9286	29.268	7367	21.282	23608	20.595	53286	20.313	20327	43.964	7085
28.674	4766	29.315	12309	21.315	76340	20.622	62163	20.342	13842	44.008	7055
28.691	5187	29.365	4585	21.382	35925	20.671	57601	20.362	14762	44.034	3771
28.716	4547	29.384	5140	21.426	46405	20.738	19994	20.407	32748	44.076	7982
28.747	7376	29.410	5042	21.471	36181	20.763	34640	20.449	11641	44.112	2792
28.784	6302	29.439	7344	21.500	44722	20.795	31614	20.474	11137	44.131	5909
28.829	6558	29.471	6986	21.553	22681	20.832	21527	20.502	10665	44.187	9686
28.853	11338	29.507	7642	21.582	51155	20.862	21699	20.521	11278	44.246	4273
28.914	4616	29.569	12707	21.621	33691	20.880	22701	20.563	25531	44.277	6492
28.938	5172	29.604	5313	21.682	41819	20.906	22036	20.597	21127	44.306	5109
28.966	11438	29.631	7026	21.706	23055	20.931	33105	20.635	12238	44.347	10020
29.023	9746	29.667	4612	21.737	44948	20.967	22321	20.659	11164	44.392	3952

Extracted Ion Current Profiles

44.158	9910	43.225	5999	41.386	7647	29.309	7639	38.407	3440	38.749	4362	29.473	2877
44.198	8556	43.252	3702	41.423	5521	29.351	6157	38.443	2849	38.780	2734	29.495	3823
44.255	6542	43.282	3915	41.453	3884	29.373	4292	38.493	2600	38.800	3485	29.545	3940
44.298	8930	43.306	4450	41.479	7379	29.430	10488	38.542	6042	38.829	4358	29.572	2928
44.343	6426	43.351	12827	41.532	5907	29.474	5603	38.593	5006	38.864	3954	29.596	5971
44.387	10711	43.400	4619	41.585	7974	29.492	4133	38.631	3528	38.888	4399	29.641	3853
44.451	9534	43.443	6103	41.646	10527	29.519	3651	38.673	4155	38.924	3928	29.682	3969
44.506	11349	43.484	8044	41.676	5757	29.551	4559	38.703	2804	38.948	3623	29.717	3262
44.543	4454	43.529	3643	41.712	3760	29.579	2986	38.729	2691	38.973	3936	29.734	3077
44.592	12266	43.550	3593	41.747	6211	29.635	9322	38.782	2654	39.008	4881	29.774	3665
44.640	12356	43.581	6126	41.773	3969	29.675	7350	38.826	5618	39.041	4343	29.809	4009
44.695	7870	43.614	5732	41.797	4237	29.727	6150	38.863	3958	39.073	5423	29.839	4595
44.727	5051	43.668	8020	41.845	7782	29.750	3979	38.888	2708	39.106	4567	29.873	2541
44.755	4923	43.701	8662	41.875	5879	29.787	6314	38.918	3926	39.156	6640	29.918	5579
44.774	7180	43.773	8747	41.918	6398	29.831	8502	38.989	8226	39.196	4052	29.945	2817
44.810	4594	43.806	9119	41.967	8483	29.870	5825	39.047	5402	39.253	8235	29.971	5969
44.850	7082	43.861	6123	42.000	6438	29.903	5580	39.082	4040	39.282	2838	30.022	4874
44.897	11577	43.913	13248	42.035	7887	29.933	3600	39.121	3830	39.331	8541	30.054	3310
44.941	4464	43.967	8213	42.081	4192	29.956	3459	39.183	6614	39.372	4664	30.090	4465
44.974	8819	44.014	3979	42.112	8292	30.002	7065	39.232	6845	39.404	7352	30.120	4687
		44.031	3836	42.165	6137	30.039	6336	39.278	5197	39.454	6971	30.150	3743
		44.060	3953	42.196	4129	30.089	8990	39.321	5380	39.504	3678	30.182	3041
		44.090	6747	42.224	6631	30.121	8157	39.388	5292	39.527	4770	30.205	3318
		44.127	4133	42.269	6086	30.188	10079	39.443	6548	39.553	3828	30.227	5624
		44.216	17736	42.304	8781	30.222	4437	39.492	4123	39.588	5736	30.260	3382
		44.248	6674	42.376	10297	30.251	4592	39.515	2953	39.639	5830	30.304	5564
		44.291	6937	42.415	6023	30.294	14286	39.546	5343	39.655	2577	30.337	6074
		44.331	6246	42.460	10650	30.344	4218	39.599	6494	39.695	5247	30.385	2945
		44.368	6508	42.522	9011	30.372	4271	39.673	5725	39.736	7218	30.404	3067
		44.403	11304	42.555	6121	30.405	8544	39.707	4281	39.822	11800	30.434	3447
		44.477	8841	42.591	7800	30.444	3851	39.743	4202	39.885	9218	30.456	3263
		44.510	10320	42.642	3949	30.482	12029	39.799	6991	39.908	5146	30.479	4145
		44.569	4169	42.666	4330	30.542	4707	39.837	3143	39.934	2699	30.525	7398
		44.606	9469	42.689	9103	30.566	4802	39.860	3035	39.959	4726	30.574	2534
		44.643	7145	42.737	6495	30.594	7174	39.895	4546	39.983	4034	30.605	4203
		44.681	4242	42.779	6259	30.634	8479	39.953	7561	40.020	7579	30.637	3024
		44.700	4775	42.835	9166	30.678	3987	40.050	12221	40.079	8117	30.671	4280
		44.727	4356	42.873	3959	30.697	4488	40.089	2776	40.114	3086	30.698	4361
		44.751	4467	42.905	5439	30.735	8856	40.111	4834	40.130	4553	30.736	3060
		44.799	8596	42.937	3734	30.785	5922	40.205	10731	40.161	4712	30.781	6403
		44.836	8912	42.960	6112	30.817	6524	40.232	4451	40.174	6179	30.806	3433
		44.891	7994	42.995	3385	30.858	7032	40.313	8025	40.231	5691	30.842	7542
		44.939	6356	43.030	6298	30.879	4823	40.354	4277	40.267	4958	30.925	7130
		44.968	8212	43.058	6151	30.904	5678	40.381	4765	40.292	7217	30.955	5179
				43.096	5713	30.942	7546	40.428	9362	40.364	8262	31.000	4936
				43.136	7843	30.980	6497	40.505	6411	40.390	5708	31.035	6825

Extracted Ion Current Profiles

29.058	5317	29.690	7761	21.808	71515	20.992	21148	20.685	16049	44.417	5009
29.106	9831	29.726	4829	21.853	24292	21.021	23053	20.733	16670	44.442	4066
29.130	4742	29.776	12279	21.891	45369	21.041	22292	20.759	15387	44.477	7760
29.168	9217	29.813	4624	21.954	46089	21.081	53103	20.795	9421	44.516	5001
29.224	9262	29.846	10331	21.985	36139	21.135	28830	20.829	19164	44.543	4505
29.261	7383	29.905	12857	22.017	37014	21.177	31812	20.856	10959	44.572	5131
29.297	8755	29.959	10357	22.052	22164	21.202	22578	20.885	10042	44.590	3848
29.347	7299	30.000	4707	22.077	21459	21.226	19802	20.917	21513	44.614	6467
29.374	4409	30.022	7005	22.113	32978	21.262	30323	20.953	9639	44.668	8298
29.400	5215	30.054	4689	22.144	32775	21.293	21731	20.992	16453	44.711	5256
29.423	8417	30.112	12506	22.178	24097	21.312	24169	21.017	11359	44.739	4668
29.460	8330	30.139	5803	22.214	79363	21.339	34820	21.067	24684	44.767	3539
29.501	7189	30.164	4802	22.274	23119	21.380	40465	21.091	12190	44.789	7183
29.546	9156	30.203	6692	22.314	39607	21.437	40830	21.116	12238	44.826	2986
29.588	6995	30.234	7810	22.345	45764	21.481	30497	21.140	15218	44.849	5064
29.623	10010	30.267	4612	22.373	41497	21.511	19592	21.182	21684	44.876	4804
29.668	4870	30.289	7735	22.409	36820	21.538	21552	21.223	10506	44.916	6896
29.693	10344	30.318	5092	22.446	23987	21.558	23285	21.253	10264	44.951	5448
29.755	11884	30.350	8517	22.472	44409	21.595	35672	21.301	28677	44.982	3967
29.825	11680	30.399	4051	22.545	44861	21.617	23554	21.353	20199		
29.861	5618	30.421	4691	22.571	23493	21.647	31237	21.389	11612		
29.885	7542	30.440	5040	22.605	47188	21.692	34006	21.411	18292		
29.933	10053	30.471	7411	22.656	33733	21.734	30147	21.451	19589		
29.968	5017	30.516	17235	22.686	50225	21.768	54690	21.485	11345		
30.003	6963	30.589	7348	22.730	23305	21.819	29534	21.523	15031		
30.044	10268	30.612	7503	22.767	31205	21.881	40527	21.547	20258		
30.087	7331	30.647	5081	22.793	21474	21.905	32646	21.606	14833		
30.116	5086	30.694	10225	22.840	50962	21.960	42240	21.634	9439		
30.156	11297	30.728	7374	22.865	25326	21.991	20035	21.660	14522		
30.191	4631	30.782	9663	22.900	59795	22.021	19144	21.700	13820		
30.227	11430	30.815	7958	22.986	57293	22.051	37940	21.744	21586		
30.261	9624	30.849	7708	23.012	25777	22.091	19523	21.796	17394		
30.321	10251	30.884	5550	23.038	23530	22.114	18597	21.849	11723		
30.363	10732	30.913	9267	23.063	37918	22.139	17162	21.878	8188		
30.411	5502	30.953	7668	23.102	35236	22.168	17079	21.917	15730		
30.429	8818	30.981	5725	23.139	22843	22.189	18505	21.954	11828		
30.468	8712	30.999	5556	23.161	35110	22.210	18192	21.990	10302		
30.500	4805	31.029	5371	23.211	49488	22.237	17790	22.104	65840		
30.529	4005	31.049	8059	23.270	50797	22.263	20138	22.126	50227		
30.557	10774	31.096	7995	23.304	37264	22.314	44832	22.188	10071		
30.601	7982	31.132	10407	23.335	23883	22.338	37752	22.211	10056		
30.646	7818	31.186	7805	23.371	51428	22.373	20952	22.239	14940		
30.686	8201	31.217	8258	23.408	23220	22.405	26938	22.273	8900		
30.710	8143	31.246	4618	23.433	34099	22.481	61592	22.312	15864		
30.747	4980	31.269	8307	23.473	24596	22.535	34953	22.337	24053		
30.771	4575	31.307	5153	23.506	63890	22.571	19508	22.385	14732		

Extracted Ion Current Profiles

43.185	3816	31.016	4534	40.540	3042	40.427	5911	31.072	3575
43.203	3981	31.043	4719	40.561	2660	40.474	7005	31.098	3553
43.235	6831	31.061	4915	40.593	3024	40.513	4972	31.125	4309
43.300	10138	31.108	10610	40.612	3249	40.561	7084	31.160	3228
43.331	4138	31.149	4227	40.640	6284	40.598	5683	31.206	7867
43.356	5986	31.172	4483	40.698	4734	40.628	6465	31.246	2828
43.391	3620	31.263	18826	40.727	4852	40.661	10059	31.266	3117
43.415	4147	31.310	6209	40.764	4931	40.722	5071	31.317	8145
43.452	5464	31.327	6715	40.796	3241	40.771	7280	31.365	5927
43.484	3719	31.368	4144	40.831	4663	40.800	7332	31.401	2986
43.503	4218	31.388	4569	40.881	6759	40.858	7382	31.442	8230
43.540	8170	31.449	10764	40.915	5014	40.901	7412	31.493	4999
43.596	7865	31.487	7224	40.958	4550	40.931	4738	31.528	5235
43.642	5244	31.511	4847	40.994	4440	40.969	5643	31.560	5169
43.671	6239	31.535	8958	41.023	3283	40.996	5305	31.599	3039
43.701	4044	31.588	9127	41.042	3060	41.020	5883	31.630	7267
43.746	8967	31.639	6234	41.089	6308	41.061	5592	31.683	3850
43.792	5849	31.679	6967	41.139	6431	41.076	2586	31.722	3117
43.822	3917	31.710	4402	41.171	3005	41.106	7651	31.755	5398
43.885	9579	31.768	11918	41.193	3069	41.154	6262	31.789	7457
43.912	4126	31.818	9244	41.227	5052	41.190	5810	31.836	3028
43.942	4418	31.868	11156	41.266	6673	41.217	6095	31.860	5686
43.961	4241	31.918	6769	41.305	3598	41.264	6118	31.916	6758
43.998	8970	31.955	7079	41.329	3240	41.300	7065	31.968	6063
44.048	7915	31.982	5053	41.354	3590	41.350	8350	31.994	2644
44.085	3751	32.006	4699	41.382	5428	41.378	3544	32.033	4121
44.118	5837	32.035	7203	41.425	4831	41.436	11796	32.057	3828
44.146	4083	32.069	5094	41.477	6209	41.479	4382	32.083	5939
44.170	4266	32.095	6728	41.548	10552	41.501	4712	32.137	9499
44.198	5973	32.130	4551	41.576	3318	41.535	7890	32.191	6697
44.240	5967	32.182	12513	41.618	8780	41.561	5866	32.218	3805
44.279	8031	32.217	5150	41.692	12153	41.601	6795	32.257	6907
44.335	3273	32.265	9536	41.746	3367	41.638	7842	32.292	4864
44.355	5211	32.309	9584	41.778	4980	41.694	8872	32.354	7836
44.393	3717	32.346	5069	41.814	2979	41.751	8564	32.394	5319
44.417	3201	32.372	10781	41.867	9368	41.785	4199	32.429	2963
44.444	3335	32.425	4478	41.906	5081	41.808	4788	32.461	2998
44.482	7357	32.450	7644	41.943	5154	41.857	12833	32.484	9662
44.529	4831	32.493	7047	41.970	3751	41.923	5929	32.560	2741
44.575	7430	32.521	5034	41.995	6295	41.946	8347	32.582	5467
44.609	5686	32.544	8039	42.075	8349	42.012	9722	32.616	3289
44.647	6342	32.582	5570	42.117	7050	42.045	5711	32.649	2972
44.698	9977	32.606	7391	42.155	3526	42.091	8767	32.665	3279
44.740	3372	32.644	5247	42.194	5572	42.129	5124	32.706	6315
44.763	3792	32.691	10844	42.218	4040	42.157	6464	32.747	4486
44.792	5412	32.718	4463	42.253	7623	42.203	9266	32.784	5787

Extracted Ion Current Profiles

30.799	4594	31.332	10253	23.559	27373	22.653	79082	22.438	12621
30.830	9604	31.382	7361	23.580	49406	22.696	37366	22.465	19081
30.870	8226	31.425	11985	23.629	35184	22.781	56983	22.520	16623
30.903	5366	31.483	7454	23.669	20264	22.804	46808	22.567	16716
30.931	10295	31.526	12493	23.689	29792	22.859	28288	22.607	8415
30.989	7297	31.586	15450	23.754	40003	22.899	28779	22.647	19764
31.026	7051	31.644	5355	23.788	32792	22.937	28402	22.707	15316
31.050	4958	31.683	9968	23.814	32496	22.964	18130	22.747	10472
31.098	11343	31.723	11155	23.849	20829	22.993	30157	22.787	18315
31.123	7570	31.771	5417	23.877	38166	23.037	32558	22.841	8273
31.158	4089	31.794	4913	23.931	33947	23.069	57936	22.875	10513
31.197	12450	31.832	10660	23.983	36428	23.161	53346	22.903	12211
31.248	5907	31.869	5662	24.024	16781	23.211	15157	22.948	12771
31.268	6239	31.895	6597	24.049	17793	23.263	32784	22.984	10316
31.326	14087	31.928	9059	24.076	18351	23.284	25969	23.013	11117
31.355	4567	31.953	5949	24.094	18154	23.324	17207	23.055	12808
31.381	13812	31.987	5302	24.145	38849	23.346	26222	23.087	7783
31.453	15149	32.018	11134	24.177	40947	23.384	17874	23.123	12908
31.511	8765	32.071	8202	24.231	32150	23.407	26332	23.159	10458
31.541	16718	32.095	8472	24.258	34685	23.451	21801	23.191	13602
31.622	5035	32.133	4759	24.318	41884	23.522	36415	23.223	7612
31.646	10221	32.182	14405	24.358	17796	23.551	31665	23.264	19820
31.694	7327	32.218	5725	24.381	32484	23.605	21180	23.324	16215
31.744	7637	32.243	7415	24.436	17154	23.629	21240	23.371	20481
31.782	17282	32.280	5269	24.459	30375	23.665	20585	23.445	17009
31.845	6089	32.309	5984	24.492	18548	23.708	12928	23.486	5479
31.874	5782	32.331	5903	24.524	24789	23.733	27786	23.511	7259
31.902	8826	32.367	11001	24.555	17600	23.775	12114	23.551	17677
31.945	7129	32.412	8922	24.579	21134	23.840	43816	23.604	22736
31.977	8089	32.445	5652	24.606	20477	23.883	22452	23.642	6262
32.030	11592	32.475	11656	24.639	43731	23.913	34855	23.693	20966
32.067	9835	32.535	11492	24.687	44205	24.010	27162	23.753	15389
32.114	12884	32.568	6528	24.739	16658	24.036	13950	23.788	7940
32.155	9151	32.593	5662	24.799	47406	24.064	20563	23.858	24534
32.186	5606	32.618	5518	24.836	45314	24.100	20854	23.888	7649
32.207	8835	32.649	9386	24.875	47496	24.131	13014	23.916	12715
32.246	5180	32.680	8119	24.950	47056	24.176	16620	23.963	5740
32.270	8228	32.721	5230	24.996	18939	24.206	19861	23.987	10748
32.307	5978	32.745	11792	25.022	17957	24.255	36793	24.029	7392
32.331	5684	32.793	10778	25.050	27871	24.308	11587	24.052	9020
32.369	9012	32.844	10907	25.094	28874	24.333	10954	24.072	9811
32.401	9149	32.921	14025	25.121	35930	24.365	16940	24.098	12623
32.435	8981	32.956	5300	25.172	19279	24.394	10670	24.145	9184
32.481	8825	32.994	8046	25.194	34797	24.430	23690	24.174	7240
32.517	9057	33.017	5704	25.244	14768	24.468	12221	24.196	7433
32.547	6356	33.043	5067	25.268	14106	24.494	12629	24.219	10342

Extracted Ion Current Profiles

44.824	3634	32.755	14909	42.302	5846	42.240	4362	32.843	6693
44.863	5258	32.830	6997	42.353	12528	42.277	6845	32.880	5195
44.886	5447	32.857	7912	42.411	5449	42.315	7565	32.929	7383
44.931	8268	32.895	5043	42.451	5438	42.351	6480	32.961	8103
44.973	4274	32.918	4742	42.497	7904	42.378	7585	33.006	3702
		32.949	8314	42.526	3391	42.427	5893	33.039	6580
		33.008	9423	42.602	13947	42.463	8333	33.080	2936
		33.030	5347	42.650	3502	42.500	5886	33.118	8067
		33.073	13829	42.711	9551	42.526	5959	33.154	3685
		33.148	13814	42.735	3756	42.566	7162	33.186	5989
		33.187	5239	42.797	8332	42.599	4004	33.218	3185
		33.207	8914	42.830	5745	42.625	5554	33.251	3505
		33.243	5034	42.862	3670	42.650	4092	33.295	7478
		33.292	13730	42.884	3791	42.686	10398	33.344	6956
		33.331	5143	42.910	3787	42.736	5271	33.403	6142
		33.368	10535	42.933	4214	42.771	10533	33.432	3337
		33.411	5048	42.964	3518	42.829	10030	33.479	6639
		33.435	5558	43.004	7850	42.886	7383	33.506	3059
		33.455	6134	43.032	5818	42.908	5519	33.545	8823
		33.488	7934	43.084	7151	42.954	9172	33.592	4084
		33.539	8978	43.133	7648	42.981	4808	33.679	14190
		33.578	10150	43.185	9605	43.029	8412	33.725	5027
		33.629	7607	43.241	6093	43.058	4199	33.768	5686
		33.665	10503	43.269	9254	43.080	5185	33.808	11145
		33.706	7325	43.334	6007	43.106	4663	33.905	6682
		33.750	4355	43.366	5125	43.155	10291	33.932	7647
		33.780	7404	43.437	11576	43.181	6762	33.982	3086
		33.806	4696	43.488	6003	43.217	4160	34.006	2987
		33.830	4577	43.517	3776	43.252	8504	34.028	5017
		33.878	9819	43.540	4174	43.280	2961	34.124	9585
		33.907	5345	43.564	3916	43.304	5277	34.173	2974
		33.930	5635	43.639	10922	43.338	7927	34.193	3019
		33.957	5864	43.664	3645	43.377	6144	34.235	5609
		33.987	8061	43.694	5751	43.410	9332	34.283	4938
		34.022	11798	43.736	5923	43.453	5383	34.317	8429
		34.068	4659	43.775	5069	43.478	5182	34.367	3648
		34.143	15981	43.838	9527	43.500	7219	34.408	2768
		34.167	5898	43.886	9816	43.527	5296	34.455	5694
		34.192	5703	43.948	9787	43.564	4931	34.481	2951
		34.221	8002	43.986	7778	43.592	8237	34.517	5036
		34.284	13508	44.034	3693	43.650	9416	34.566	7240
		34.315	5356	44.087	9774	43.676	3565	34.593	5278
		34.345	7361	44.131	7797	43.699	5944	34.631	2733
		34.380	4624	44.168	6917	43.759	11993	34.673	6718
		34.418	12765	44.256	12480	43.799	6239	34.706	2840
		34.472	5019	44.312	6095	43.824	6478	34.743	6414

Extracted Ion Current Profiles

32.564	8463	33.080	11338	25.297	34606	24.520	14428	24.260	10507
32.609	8472	33.123	14442	25.342	13863	24.543	16993	24.310	17522
32.650	9150	33.181	5720	25.389	34261	24.566	23924	24.368	10454
32.681	5139	33.218	8231	25.430	14275	24.602	15203	24.390	8998
32.706	4523	33.244	5727	25.452	20592	24.635	19864	24.443	9142
32.735	5583	33.266	5600	25.492	18356	24.679	22396	24.496	17908
32.756	8540	33.304	11026	25.542	19807	24.714	15271	24.530	7429
32.797	6219	33.353	9222	25.564	14004	24.750	10100	24.551	7463
32.821	6521	33.382	8915	25.589	22603	24.783	16113	24.579	6852
32.839	6437	33.419	6642	25.659	21846	24.836	21584	24.603	6089
32.868	7918	33.443	8752	25.688	11826	24.867	11249	24.643	6477
32.913	8094	33.485	5407	25.714	12313	24.888	13791	24.667	8964
32.951	9495	33.502	5494	25.750	26380	24.916	21108	24.706	8784
32.992	10460	33.534	8308	25.790	12546	24.948	12446	24.750	9418
33.067	14489	33.567	5704	25.811	18143	24.973	22805	24.776	6172
33.093	8200	33.618	13002	25.851	51877	25.018	10304	24.813	11731
33.130	5289	33.691	26047	25.978	25573	25.057	12894	24.850	5115
33.158	4816	33.770	4763	26.031	21666	25.085	11229	24.877	12540
33.179	5367	33.805	8002	26.057	10276	25.108	11559	24.956	20949
33.209	4896	33.853	10351	26.085	15115	25.145	34655	25.001	11341
33.231	7162	33.904	11724	26.120	10193	25.216	14521	25.034	5849
33.272	7663	33.933	5572	26.152	16546	25.257	14425	25.060	5155
33.309	5704	33.956	5687	26.181	9659	25.286	11172	25.087	6727
33.331	5703	33.981	8972	26.221	21470	25.317	17848	25.117	12084
33.368	11795	34.021	6084	26.253	16603	25.344	12769	25.158	9660
33.413	8525	34.041	6059	26.296	27467	25.367	26887	25.184	12557
33.443	7429	34.082	8511	26.353	9638	25.441	12418	25.260	13097
33.483	7539	34.114	8994	26.381	24233	25.478	16230	25.281	7712
33.519	7615	34.143	5862	26.439	9644	25.538	17830	25.305	8993
33.557	4612	34.181	7689	26.477	31539	25.579	7769	25.342	5503
33.596	10161	34.205	5021	26.538	9982	25.604	12359	25.396	9968
33.647	15959	34.232	5640	26.574	20247	25.662	20968	25.418	9277
33.707	5392	34.260	5480	26.617	15532	25.740	30211	25.457	4713
33.734	7097	34.284	9732	26.649	9547	25.798	10373	25.481	9215
33.769	4539	34.320	11742	26.709	28243	25.856	11821	25.523	9508
33.793	4662	34.371	5304	26.746	27950	25.906	11347	25.554	6175
33.820	5405	34.391	7304	26.797	18803	25.932	6567	25.583	6073
33.855	8105	34.436	5184	26.822	11797	25.972	13047	25.601	6592
33.884	8768	34.459	5864	26.849	16065	26.015	10366	25.636	13346
33.918	4918	34.483	9664	26.883	9992	26.059	11196	25.674	7995
33.948	8208	34.518	8176	26.940	27231	26.097	12888	25.713	4374
33.999	6984	34.568	6999	26.970	12896	26.154	8708	25.739	4918
34.037	7621	34.597	14194	27.009	7842	26.185	9620	25.767	5734
34.076	6853	34.667	11140	27.032	8519	26.218	7678	25.796	12726
34.108	7230	34.708	5288	27.055	8864	26.242	7522	25.840	4961
34.148	9540	34.766	14080	27.081	7804	26.271	11627	25.885	11160

Extracted Ion Current Profiles

34.493	4992	44.356	9328	43.860	4671	34.780	3141
34.523	5210	44.432	7532	43.894	7304	34.808	3420
34.541	5469	44.477	8321	43.922	5442	34.830	3609
34.568	5172	44.504	3820	43.956	10570	34.860	6233
34.602	7508	44.529	3517	44.009	5424	34.934	7956
34.633	4985	44.588	9927	44.046	8901	34.975	3180
34.670	16788	44.615	3686	44.081	5082	35.010	7177
34.763	13820	44.656	12564	44.109	4805	35.054	5004
34.797	8469	44.727	9195	44.143	9361	35.086	4912
34.841	9322	44.802	9847	44.181	7035	35.121	3281
34.892	8463	44.838	3794	44.217	7778	35.167	7943
34.931	8481	44.875	5753	44.244	4330	35.222	6957
34.956	10347	44.912	5526	44.281	5825	35.256	3342
35.006	4298	44.966	10681	44.305	6921	35.292	4316
35.035	5421			44.367	11881	35.324	5331
35.060	9906			44.405	4276	35.359	4624
35.093	6813			44.429	5501	35.407	4246
35.118	5610			44.463	8292	35.431	2939
35.143	5618			44.514	10955	35.478	5305
35.175	5533			44.566	5216	35.524	5383
35.202	8151			44.588	4409	35.565	4952
35.244	8090			44.615	5043	35.603	5105
35.278	8636			44.642	7754	35.653	4879
35.309	8407			44.678	4457	35.687	3941
35.376	16433			44.699	5599	35.734	3333
35.427	7693			44.735	8409	35.760	6553
35.477	10873			44.791	9746	35.806	3379
35.519	9423			44.823	7396	35.863	6255
35.557	4988			44.884	9072	35.896	4150
35.596	11239			44.918	5546	35.983	5997
35.638	7544			44.959	6469	36.057	5168
35.706	11752			44.982	3637	36.117	5052
35.750	10637					36.164	6449
35.793	10980					36.257	3990
35.840	8153					36.292	4431
35.870	9914					36.317	3086
35.953	16050					36.362	6530
35.992	6024					36.405	4935
36.020	10477					36.444	3045
36.081	8355					36.498	7305
36.105	10442					36.556	3983
36.178	10404					36.629	6292
36.208	5455					36.655	3892
36.231	5382					36.708	8385
36.260	8097					36.779	4075
36.294	5042					36.832	4629

Extracted Ion Current Profiles

34.207	11627	34.814	10790	27.108	9603	26.324	19895	25.916	8106
34.268	12259	34.843	5630	27.130	9204	26.373	12890	25.946	5814
34.341	12850	34.868	5311	27.155	8326	26.449	18231	25.990	13775
34.388	7523	34.897	8668	27.180	9511	26.496	13001	26.055	9481
34.419	5195	34.946	13643	27.223	28644	26.546	7591	26.088	10939
34.464	9243	34.993	5059	27.282	9271	26.603	10906	26.131	5237
34.493	3883	35.020	5276	27.302	13789	26.623	7045	26.170	6955
34.532	6423	35.056	8514	27.343	16431	26.649	9105	26.193	4694
34.555	6681	35.081	5660	27.392	12472	26.692	9022	26.239	13426
34.594	5983	35.119	8610	27.426	7481	26.725	11425	26.291	8219
34.632	4653	35.141	7784	27.471	18399	26.781	8593	26.322	5598
34.656	5468	35.181	4589	27.506	20091	26.819	7549	26.339	6056
34.699	5866	35.207	4833	27.563	13953	26.846	4056	26.367	11290

Extracted Ion Current Profiles

36.334	10684	36.871	4867
36.369	4854	36.907	2567
36.420	11401	36.938	3830
36.492	15197	36.975	3226
36.533	5353	37.006	2618
36.554	5590	37.045	4895
36.587	5152	37.090	5199
36.637	13324	37.136	3987
36.673	7948	37.151	2698
36.706	5360	37.187	3591
36.733	7537	37.278	3905
36.771	6992	37.353	2904
36.826	10397	37.396	4371

Extracted Ion Current Profiles

Hexachlorobiphenyls											
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 360		m/z 362		m/z 288		m/z 290		m/z 426		m/z 428	
30.181	2630	33.244	2776	17.414	3174	18.529	2819	39.876	2615	41.543	2771
30.642	3327	33.938	3234	17.586	2790	18.598	3703	40.389	2786	41.818	3145
31.471	2686	34.054	3090	18.051	3255	18.693	4613	41.070	4540	41.899	3374
31.891	2624	34.104	4409	18.085	2775	18.785	2991	41.264	3852	42.199	3024
31.967	3417	34.167	2681	18.201	3268	19.022	4501	41.314	2532	42.273	2587
32.034	2904	34.200	4321	18.257	3045	19.082	3493	41.416	3637	42.453	3522
32.244	2932	34.267	4607	18.284	3149	19.116	3278	41.473	3301	42.624	2962
32.317	3379	34.346	3658	18.339	3275	19.223	3630	41.557	2727	42.817	2595
32.378	4987	34.467	2523	18.394	4122	19.297	4594	41.684	4351	42.860	3829
32.532	4921	34.500	2698	18.455	2784	19.347	5963	41.870	3259	42.910	2668
32.659	2649	34.540	3893	18.523	5063	19.418	2695	41.929	4041	42.964	2919
32.741	3724	34.642	2797	18.573	5101	19.498	3287	41.997	3022	43.086	3395
32.939	3376	34.705	4160	18.618	4928	19.577	3706	42.082	2912	43.159	2696
33.017	2626	34.802	2513	18.664	2508	19.632	5254	42.164	2812	43.205	3604
33.058	3904	34.956	3000	18.752	3121	19.654	3929	42.434	2738	43.300	4437
33.114	2710	35.067	2824	18.778	2824	19.723	5005	42.470	2912	43.341	4231
33.171	6015	35.128	2997	18.803	2628	19.759	4020	42.538	2797	43.381	3130
33.262	2731	35.255	3011	18.842	5749	19.798	5702	42.588	2654	43.516	4130
33.368	4063	35.301	3906	18.880	3166	19.844	2599	42.628	5278	43.610	3332
33.430	3489	35.473	2792	18.911	2864	19.871	2682	42.728	5141	43.714	3338
33.544	3847	35.642	4975	18.929	2939	19.896	4644	42.820	6350	43.782	4577
33.621	2827	35.683	2809	18.957	5861	19.930	3402	42.865	3096	43.847	3828
33.721	3479	35.728	3193	19.019	3660	19.958	2551	42.906	3740	43.919	4174
33.799	4349	35.768	3534	19.044	3190	19.981	2714	42.933	3475	44.055	5308
33.866	2516	35.805	2511	19.101	7176	20.033	3233	42.998	3532	44.107	6153
33.919	3342	35.845	3202	19.210	15651	20.055	3087	43.092	3141	44.178	3770
33.943	2912	35.907	4522	19.247	3767	20.090	7763	43.143	4646	44.221	5358
34.106	3418	35.943	2626	19.274	3394	20.142	3526	43.175	2580	44.283	5141
34.352	6515	35.987	3078	19.304	7156	20.187	3130	43.210	6563	44.344	5995
34.410	3734	36.018	3295	19.375	7197	20.231	5843	43.308	6135	44.384	2648
34.454	3732	36.055	3385	19.401	2807	20.267	2693	43.370	3937	44.416	5610
34.568	2569	36.155	3331	19.448	9833	20.291	3473	43.503	3467	44.460	4411
34.696	2919	36.181	2743	19.503	4570	20.314	4950	43.546	3783	44.498	2772
34.762	2588	36.229	4222	19.543	3676	20.352	5302	43.579	4036	44.514	2772
34.825	4768	36.262	2777	19.567	5105	20.416	4400	43.622	3604	44.543	2537
34.891	5810	36.322	5776	19.608	2723	20.449	3691	43.654	3998	44.572	4660
35.022	4336	36.379	5186	19.631	3072	20.475	3518	43.692	3198	44.603	2866
35.102	4031	36.480	2881	19.658	6944	20.505	3168	43.725	2533	44.636	3827
35.133	4375	36.518	4007	19.699	5826	20.524	2931	43.780	6570	44.665	2586
35.282	2828	36.554	2521	19.736	8582	20.551	2915	43.881	8649	44.691	2861
35.317	4029	36.621	4247	19.794	11783	20.586	6709	43.919	4061	44.714	2630
35.404	5870	36.668	4445	19.821	12913	20.624	4027	43.958	4699	44.764	5089

Extracted Ion Current Profiles

Hexachlorobiphenyls															
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
40.614	2762	42.435	2543	20.074	29552	36.503	2505	36.791	2550	35.037	3341	35.013	2525	20.080	15977
41.146	2943	42.788	3089	20.616	6213	36.936	3127	37.301	3350	35.868	4298	36.244	3293	20.623	2879
41.476	2790	43.067	3248	20.659	2802	38.360	3097	37.523	3712	37.131	2694	36.456	2596	23.587	3289
41.837	2993	43.117	3490	23.606	6175	38.431	2663	37.593	4158	37.221	2554	36.884	2807	29.448	2712
41.991	2797	43.275	2808	26.992	2872	38.494	2545	37.696	3055	37.332	5106	37.160	2736	29.683	2554
42.131	2627	43.469	2976	28.159	2837	38.543	2730	37.831	2760	37.433	4463	37.213	3571	30.652	2751
42.199	3515	43.802	2776	28.571	2567	38.779	2908	37.917	3484	37.472	3878	37.380	3084	30.889	4041
42.578	4034	43.874	3245	28.881	3221	38.868	3674	37.949	2614	37.533	3560	37.555	2783	30.944	2903
42.646	3341	44.015	3543	29.118	2573	38.935	2879	37.993	2822	37.619	4884	37.629	4262	31.866	4709
42.892	2817	44.192	2908	29.445	4089	39.210	2745	38.093	2772	37.837	4503	37.667	3490	32.115	4982
43.112	4209	44.264	3343	29.641	4587	39.256	2984	38.223	2667	37.874	3322	37.759	3613	32.295	4414
43.329	3082	44.382	3784	29.713	2917	39.394	5079	38.456	2777	37.969	4029	37.903	3321	32.356	3188
43.456	5498	44.454	2764	29.788	3993	39.455	2989	38.511	3454	38.018	3289	37.982	3201	32.397	3162
43.555	3717	44.527	2977	29.945	4241	39.510	4073	38.577	2988	38.095	2859	38.030	2747	32.503	4438
43.666	3638	44.579	3103	30.041	2867	39.544	3081	38.734	3462	38.269	4237	38.081	3884	32.578	4557
43.712	3141	44.622	3647	30.091	2975	39.602	5433	38.789	3134	38.330	4619	38.212	2555	32.633	3194
43.773	3706	44.720	4406	30.240	4317	39.653	3090	38.836	3530	38.356	5349	38.298	4738	32.689	5771
43.854	2791	44.926	2730	30.302	2930	39.697	3381	38.886	3011	38.549	2611	38.407	2594	32.776	3746
43.946	2752	44.964	3156	30.347	3562	39.752	3541	39.090	5895	38.644	3122	38.475	3978	32.865	6222
44.049	4038			30.458	2758	39.847	4125	39.189	2567	38.783	2990	38.519	2713	32.908	3778
44.098	3048			30.800	3416	39.921	3575	39.386	2804	38.905	2997	38.568	3673	32.955	2502
44.147	2517			30.831	5301	40.032	2788	39.499	4596	39.034	4192	38.596	3479	33.017	2906
44.225	2915			30.893	3110	40.071	3778	39.569	3120	39.061	4311	38.641	3583	33.086	4313
44.321	3358			30.978	3661	40.117	3548	39.694	4688	39.119	2767	38.676	3479	33.237	4040
44.429	3254			31.019	3304	40.167	4471	39.866	4936	39.275	2887	38.713	2950	33.317	4318
44.500	2905			31.086	3674	40.193	3343	39.982	2888	39.323	2633	38.777	6095	33.368	4131
44.562	3849			31.181	4277	40.255	3492	40.030	2982	39.376	2924	38.829	4739	33.427	2995
44.593	3079			31.228	3497	40.288	6075	40.091	3080	39.462	2518	38.871	3887	33.467	2851
44.642	2609			31.305	4504	40.356	3614	40.145	2745	39.524	3369	38.906	3362	33.499	3810
44.786	3645			31.384	5197	40.417	4981	40.441	2828	40.428	3235	38.981	8705	33.554	3373
44.883	4852			31.476	5992	40.439	3319	40.551	3006	40.576	3758	39.031	3759	33.606	3074
44.954	3925			31.547	4060	40.477	3637	40.627	3524	40.686	2932	39.086	4957	33.730	3092
				31.656	2905	40.515	2942	40.833	4917	40.814	3962	39.110	2538	33.765	3715
				31.684	3737	40.548	3639	40.860	3203	40.878	3106	39.146	6875	33.834	4369
				31.758	5121	40.582	2823	41.783	3070	40.941	4602	39.240	3502	33.921	2799
				31.833	3705	40.641	5111	41.908	5135	40.998	3521	39.273	3908	33.978	3346
				31.913	4042	40.700	2735	42.084	4599	41.048	2557	39.331	6552	34.006	3244
				31.946	3199	40.786	4252	42.106	3900	41.078	3765	39.403	8067	34.108	4446
				31.986	3652	40.860	3722	42.180	2601	41.117	3307	39.451	4140	34.191	4864
				32.033	2755	40.898	3692	42.233	3037	41.157	3126	39.505	2739	34.230	3440
				32.168	5488	40.935	3887	42.253	2656	41.187	3238	39.552	6708	34.309	6568
				32.210	4840	40.968	2679	42.311	3517	41.224	3709	39.599	3521	34.345	3166

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"
m/z 394		m/z 396		m/z 322		m/z 324		m/z 326		m/z 462
36.791	2550	35.037	3341	25.183	4008	22.373	7058	22.112	2604	
37.301	3350	35.868	4298	25.446	3010	23.441	2608	22.893	2637	
37.523	3712	37.131	2694	25.675	5549	23.835	3969	23.211	3413	
37.593	4158	37.221	2554	25.740	3249	23.882	3695	23.359	2855	
37.696	3055	37.332	5106	25.779	2519	23.917	2603	23.530	2791	
37.831	2760	37.433	4463	25.845	4338	24.188	2501	23.849	3011	
37.917	3484	37.472	3878	25.910	2630	24.338	2909	23.928	2775	
37.949	2614	37.533	3560	25.962	3623	24.397	3308	24.024	2581	
37.993	2822	37.619	4884	25.997	3027	24.434	3267	24.051	3397	
38.093	2772	37.837	4503	26.079	3913	24.562	5422	24.092	2673	
38.223	2667	37.874	3322	26.111	3477	24.598	2791	24.240	3213	
38.456	2777	37.969	4029	26.143	2708	24.760	3946	24.275	2516	
38.511	3454	38.018	3289	26.167	3707	24.870	6423	24.477	4593	
38.577	2988	38.095	2859	26.253	2604	24.933	2930	24.596	3071	
38.734	3462	38.269	4237	26.281	3053	25.003	5144	24.641	3939	
38.789	3134	38.330	4619	26.354	5941	25.083	8624	24.701	2861	
38.836	3530	38.356	5349	26.377	4063	25.183	3917	24.741	4553	
38.886	3011	38.549	2611	26.454	2912	25.246	2816	24.761	3404	
39.090	5895	38.644	3122	26.510	3535	25.281	4784	24.796	3968	
39.189	2567	38.783	2990	26.562	4620	25.305	3127	24.828	3614	
39.386	2804	38.905	2997	26.615	4004	25.368	5499	24.871	4313	
39.499	4596	39.034	4192	26.724	5323	25.431	5153	24.899	2528	
39.569	3120	39.061	4311	26.747	2954	25.482	4058	24.926	4261	
39.694	4688	39.119	2767	26.785	5626	25.516	4246	24.963	6733	
39.866	4936	39.275	2887	26.888	5702	25.551	3992	25.051	4418	
39.982	2888	39.323	2633	26.933	4252	25.603	5959	25.122	5702	
40.030	2982	39.376	2924	26.967	4855	25.637	3401	25.145	3256	
40.091	3080	39.462	2518	27.004	4056	25.668	6045	25.198	4304	
40.145	2745	39.524	3369	27.037	6209	25.713	3157	25.287	7758	
40.441	2828	40.428	3235	27.118	6699	25.738	4173	25.333	3200	
40.551	3006	40.576	3758	27.139	2560	25.790	3391	25.355	3368	
40.627	3524	40.686	2932	27.190	6185	25.809	3346	25.386	5220	
40.833	4917	40.814	3962	27.229	3233	25.849	3333	25.416	2551	
40.860	3203	40.878	3106	27.263	4276	25.872	3029	25.461	11053	
41.783	3070	40.941	4602	27.296	4021	25.908	4361	25.589	4616	
41.908	5135	40.998	3521	27.341	8598	25.970	8584	25.613	4132	
42.084	4599	41.048	2557	27.392	5177	26.030	8915	25.654	2736	
42.106	3900	41.078	3765	27.425	3450	26.107	3767	25.675	3187	
42.180	2601	41.117	3307	27.458	3813	26.131	3428	25.701	4468	
42.233	3037	41.157	3126	27.488	4824	26.175	5860	25.741	3883	
42.253	2656	41.187	3238	27.523	3840	26.210	5694	25.777	3113	
42.311	3517	41.224	3709	27.566	9104	26.276	2842	25.798	3719	

Extracted Ion Current Profiles

Heptachlorobiphenyls													
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 464		m/z 466		m/z 390		m/z 428		m/z 430		m/z 432		m/z 391	
37.879	2641			36.438	3717	41.543	2771	40.614	2762	42.435	2543	35.595	2623
				36.696	2769	41.818	3145	41.146	2943	42.788	3089	37.782	2631
				36.956	3228	41.899	3374	41.476	2790	43.067	3248	38.644	3180
				37.354	3210	42.199	3024	41.837	2993	43.117	3490	38.694	2632
				37.490	2572	42.273	2587	41.991	2797	43.275	2808	38.985	3098
				37.608	4079	42.453	3522	42.131	2627	43.469	2976	39.532	2563
				37.768	3512	42.624	2962	42.199	3515	43.802	2776	39.691	2818
				37.991	2575	42.817	2595	42.578	4034	43.874	3245	40.020	2705
				38.057	3166	42.860	3829	42.646	3341	44.015	3543	40.190	3247
				38.199	2799	42.910	2668	42.892	2817	44.192	2908	40.376	3088
				38.295	3404	42.964	2919	43.112	4209	44.264	3343	40.589	3561
				38.456	4605	43.086	3395	43.329	3082	44.382	3784	41.775	2554
				38.541	3677	43.159	2696	43.456	5498	44.454	2764	41.931	4020
				38.578	3136	43.205	3604	43.555	3717	44.527	2977	43.279	2695
				38.621	2966	43.300	4437	43.666	3638	44.579	3103	43.383	2942
				38.679	3693	43.341	4231	43.712	3141	44.622	3647	43.421	4057
				38.788	4711	43.381	3130	43.773	3706	44.720	4406	43.521	2773
				38.907	2901	43.516	4130	43.854	2791	44.926	2730	43.657	4575
				39.011	4382	43.610	3332	43.946	2752	44.964	3156	43.705	2723
				39.075	2564	43.714	3338	44.049	4038			43.748	2978
				39.206	3668	43.782	4577	44.098	3048			43.839	4291
				39.695	2591	43.847	3828	44.147	2517			43.984	8898
				39.811	2975	43.919	4174	44.225	2915			44.049	3684
				40.131	2708	44.055	5308	44.321	3358			44.098	4464
				42.652	3297	44.107	6153	44.429	3254			44.146	2794
				43.055	3023	44.178	3770	44.500	2905			44.183	3571
				43.208	3694	44.221	5358	44.562	3849			44.207	3363
				43.248	4699	44.283	5141	44.593	3079			44.247	4409
				43.331	2521	44.344	5995	44.642	2609			44.305	3436
				43.405	3917	44.384	2648	44.786	3645			44.345	4732
				43.454	2972	44.416	5610	44.883	4852			44.389	3864
				43.499	5162	44.460	4411	44.954	3925			44.418	2874
				43.561	3983	44.498	2772					44.466	6623
				43.632	2575	44.514	2772					44.502	2817
				43.657	5635	44.543	2537					44.531	5527
				43.725	2798	44.572	4660					44.588	4380
				43.799	7173	44.603	2866					44.619	2985
				43.834	4126	44.636	3827					44.664	6118
				43.866	6102	44.665	2586					44.697	4982
				43.911	2687	44.691	2861					44.727	3326
				43.951	7014	44.714	2630					44.754	4631
				44.010	4686	44.764	5089					44.798	4867

Extracted Ion Current Profiles

Octachlorobiphenyls										
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
40.614	2762	41.543	2771	20.074	29552	20.074	3340	30.181	2630	
41.146	2943	41.818	3145	20.616	6213	29.001	3212	30.642	3327	
41.476	2790	41.899	3374	20.659	2802	29.348	3065	31.471	2686	
41.837	2993	42.199	3024	23.606	6175	32.584	2859	31.891	2624	
41.991	2797	42.273	2587	26.992	2872	32.693	2811	31.967	3417	
42.131	2627	42.453	3522	28.159	2837	33.010	3660	32.034	2904	
42.199	3515	42.624	2962	28.571	2567	33.040	2535	32.244	2932	
42.578	4034	42.817	2595	28.881	3221	33.145	3711	32.317	3379	
42.646	3341	42.860	3829	29.118	2573	33.304	2817	32.378	4987	
42.892	2817	42.910	2668	29.445	4089	33.378	3025	32.532	4921	
43.112	4209	42.964	2919	29.641	4587	33.472	6211	32.659	2649	
43.329	3082	43.086	3395	29.713	2917	33.708	2655	32.741	3724	
43.456	5498	43.159	2696	29.788	3993	33.811	3768	32.939	3376	
43.555	3717	43.205	3604	29.945	4241	34.092	3589	33.017	2626	
43.666	3638	43.300	4437	30.041	2867	34.134	2559	33.058	3904	
43.712	3141	43.341	4231	30.091	2975	34.310	3574	33.114	2710	
43.773	3706	43.381	3130	30.240	4317	34.543	3224	33.171	6015	
43.854	2791	43.516	4130	30.302	2930	34.620	3053	33.262	2731	
43.946	2752	43.610	3332	30.347	3562	34.841	4418	33.368	4063	
44.049	4038	43.714	3338	30.458	2758	34.900	3416	33.430	3489	
44.098	3048	43.782	4577	30.800	3416	34.960	2539	33.544	3847	
44.147	2517	43.847	3828	30.831	5301	35.029	2987	33.621	2827	
44.225	2915	43.919	4174	30.893	3110	35.295	2674	33.721	3479	
44.321	3358	44.055	5308	30.978	3661	35.379	3126	33.799	4349	
44.429	3254	44.107	6153	31.019	3304	35.431	2506	33.866	2516	
44.500	2905	44.178	3770	31.086	3674	35.482	3249	33.919	3342	
44.562	3849	44.221	5358	31.181	4277	35.546	2913	33.943	2912	
44.593	3079	44.283	5141	31.228	3497	35.581	3311	34.106	3418	
44.642	2609	44.344	5995	31.305	4504	35.706	3371	34.352	6515	
44.786	3645	44.384	2648	31.384	5197	35.755	3284	34.410	3734	
44.883	4852	44.416	5610	31.476	5992	35.842	4559	34.454	3732	
44.954	3925	44.460	4411	31.547	4060	35.868	3003	34.568	2569	
		44.498	2772	31.656	2905	35.931	2536	34.696	2919	
		44.514	2772	31.684	3737	36.032	6641	34.762	2588	
		44.543	2537	31.758	5121	36.152	2960	34.825	4768	
		44.572	4660	31.833	3705	36.263	3815	34.891	5810	
		44.603	2866	31.913	4042	36.319	4018	35.022	4336	
		44.636	3827	31.946	3199	36.433	3841	35.102	4031	
		44.665	2586	31.986	3652	36.488	3229	35.133	4375	
		44.691	2861	32.033	2755	36.618	2896	35.282	2828	
		44.714	2630	32.168	5488	37.019	5366	35.317	4029	
		44.764	5089	32.210	4840	37.047	5839	35.404	5870	

Extracted Ion Current Profiles

Octachlorobiphenyls					
"M3011121"		"M3011121"		"M3011121"	
m/z 464		m/z 466		m/z 425	
37.879	2641			43.672	3627
				43.984	3290
				44.133	2543
				44.172	3616
				44.208	2654
				44.270	3009
				44.313	2897
				44.364	2884
				44.392	2915
				44.431	2721
				44.489	4141
				44.547	5570
				44.658	3004
				44.710	5065
				44.765	2530
				44.794	2501
				44.818	3786
				44.853	2585
				44.875	3647
				44.965	4187

Extracted Ion Current Profiles

Nonachlorobiphenyls									
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 464		m/z 466		m/z 390		m/z 392		m/z 394	
37.879	2641			36.438	3717	36.503	2505	36.791	2550
				36.696	2769	36.936	3127	37.301	3350
				36.956	3228	38.360	3097	37.523	3712
				37.354	3210	38.431	2663	37.593	4158
				37.490	2572	38.494	2545	37.696	3055
				37.608	4079	38.543	2730	37.831	2760
				37.768	3512	38.779	2908	37.917	3484
				37.991	2575	38.868	3674	37.949	2614
				38.057	3166	38.935	2879	37.993	2822
				38.199	2799	39.210	2745	38.093	2772
				38.295	3404	39.256	2984	38.223	2667
				38.456	4605	39.394	5079	38.456	2777
				38.541	3677	39.455	2989	38.511	3454
				38.578	3136	39.510	4073	38.577	2988
				38.621	2966	39.544	3081	38.734	3462
				38.679	3693	39.602	5433	38.789	3134
				38.788	4711	39.653	3090	38.836	3530
				38.907	2901	39.697	3381	38.886	3011
				39.011	4382	39.752	3541	39.090	5895
				39.075	2564	39.847	4125	39.189	2567
				39.206	3668	39.921	3575	39.386	2804
				39.695	2591	40.032	2788	39.499	4596
				39.811	2975	40.071	3778	39.569	3120
				40.131	2708	40.117	3548	39.694	4688
				42.652	3297	40.167	4471	39.866	4936
				43.055	3023	40.193	3343	39.982	2888
				43.208	3694	40.255	3492	40.030	2982
				43.248	4699	40.288	6075	40.091	3080
				43.331	2521	40.356	3614	40.145	2745
				43.405	3917	40.417	4981	40.441	2828
				43.454	2972	40.439	3319	40.551	3006
				43.499	5162	40.477	3637	40.627	3524
				43.561	3983	40.515	2942	40.833	4917
				43.632	2575	40.548	3639	40.860	3203
				43.657	5635	40.582	2823	41.783	3070
				43.725	2798	40.641	5111	41.908	5135
				43.799	7173	40.700	2735	42.084	4599
				43.834	4126	40.786	4252	42.106	3900
				43.866	6102	40.860	3722	42.180	2601
				43.911	2687	40.898	3692	42.233	3037
				43.951	7014	40.935	3887	42.253	2656
				44.010	4686	40.968	2679	42.311	3517

Extracted Ion Current Profiles

Decachlorobiphenyl											
"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"		"M3011121"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
		42.660	7302	41.169	2501	39.876	2615	41.543	2771	40.614	2762
				41.714	2655	40.389	2786	41.818	3145	41.146	2943
				41.815	3139	41.070	4540	41.899	3374	41.476	2790
				41.870	2576	41.264	3852	42.199	3024	41.837	2993
				41.908	4384	41.314	2532	42.273	2587	41.991	2797
				41.969	2703	41.416	3637	42.453	3522	42.131	2627
				42.106	2529	41.473	3301	42.624	2962	42.199	3515
				42.134	2701	41.557	2727	42.817	2595	42.578	4034
				42.205	2766	41.684	4351	42.860	3829	42.646	3341
				42.299	2805	41.870	3259	42.910	2668	42.892	2817
				42.356	2780	41.929	4041	42.964	2919	43.112	4209
				42.403	3572	41.997	3022	43.086	3395	43.329	3082
				42.478	3314	42.082	2912	43.159	2696	43.456	5498
				42.523	2598	42.164	2812	43.205	3604	43.555	3717
				42.554	3028	42.434	2738	43.300	4437	43.666	3638
				42.596	3059	42.470	2912	43.341	4231	43.712	3141
				42.638	2816	42.538	2797	43.381	3130	43.773	3706
				42.685	4249	42.588	2654	43.516	4130	43.854	2791
				43.007	2586	42.628	5278	43.610	3332	43.946	2752
				43.068	3043	42.728	5141	43.714	3338	44.049	4038
				43.116	4645	42.820	6350	43.782	4577	44.098	3048
				43.158	3096	42.865	3096	43.847	3828	44.147	2517
				43.204	3282	42.906	3740	43.919	4174	44.225	2915
				43.243	3143	42.933	3475	44.055	5308	44.321	3358
				43.291	4293	42.998	3532	44.107	6153	44.429	3254
				43.356	3649	43.092	3141	44.178	3770	44.500	2905
				43.401	3717	43.143	4646	44.221	5358	44.562	3849
				43.457	4701	43.175	2580	44.283	5141	44.593	3079
				43.514	3452	43.210	6563	44.344	5995	44.642	2609
				43.553	3813	43.308	6135	44.384	2648	44.786	3645
				43.586	4065	43.370	3937	44.416	5610	44.883	4852
				43.637	5092	43.503	3467	44.460	4411	44.954	3925
				43.663	2772	43.546	3783	44.498	2772		
				43.693	2602	43.579	4036	44.514	2772		
				43.714	3867	43.622	3604	44.543	2537		
				43.783	4302	43.654	3998	44.572	4660		
				43.833	5337	43.692	3198	44.603	2866		
				43.861	2607	43.725	2533	44.636	3827		
				43.887	2614	43.780	6570	44.665	2586		
				43.949	4474	43.881	8649	44.691	2861		
				43.973	3974	43.919	4061	44.714	2630		
				44.011	2721	43.958	4699	44.764	5089		

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011121"		"M3011121"				"M3011121"		"M3011121"			"M3011121"		"M3011121"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.318	7431	11.967	1064	424	240	18.057	40003	16.908	41503	188	9.605	2532	7.791	4848
11.961	888	12.104	869	426	241	18.733	37977	17.699	77886	189	10.267	2844	8.031	2715
12.098	19234	12.126	1641	428		19.283	78389	17.916	58549		11.324	12448	8.117	9601
12.371	1475	12.536	1801	430		19.656	48687	18.086	53098		12.092	3330	8.300	3210
12.667	2454	13.057	1385	498		19.709	46927	18.194	48913		12.543	2870	8.395	10725
12.800	623	13.130	550	500		30.230	36739	18.497	32835		13.731	3605	8.441	3267
12.857	560	13.193	786			34.289	251809(M)	18.580	83923		14.169	3129	8.518	6399
12.984	798	13.260	823					18.613	32751		14.512	3535	8.663	2510
13.044	4554	13.365	642					18.744	32743		14.541	2548	8.814	6625
13.140	1681	13.498	1088					18.789	36074		14.644	3777	9.208	23448
13.195	716	13.538	513					18.915	50959		14.804	2794	11.326	2947
13.315	977	13.638	552					18.950	64329		14.912	3123	12.351	3502
13.383	535	13.677	539					19.042	35572		14.976	3757	12.643	5818
13.425	701	13.724	3639					19.104	38456		15.040	3424	12.905	3746
13.465	1208	13.799	1029					19.160	56712		15.089	2834	12.992	2625
13.500	575	13.821	627					19.238	40828		15.134	2793	13.024	5343
13.548	1111	13.895	1311					19.274	56249		15.167	2915	13.201	10268
13.577	589	13.919	674					19.403	67461		15.225	2804	13.303	9940
13.624	1612	13.949	931					19.470	44118		15.280	2913	13.412	5424
13.661	835	14.006	1472					19.506	53416		15.366	3212	13.598	5860
13.745	1788	14.037	1412					19.579	53451		15.392	4667	13.680	4165
13.771	584	14.083	936					19.653	66626		15.488	5948	13.752	5509
13.811	1071	14.105	823					19.681	33777		15.515	2620	13.808	6257
13.830	811	14.145	1899					34.285	47413(M)		15.547	2633	13.989	6974
13.896	1947	14.204	935								15.601	4103	14.058	6316
13.933	698	14.242	1100								15.659	4138	14.118	2866
13.977	2250	14.266	992								15.806	291763	14.154	3081
14.021	1715	14.295	1761								15.960	5960	14.220	4369
14.072	1146	14.346	2396								15.998	5726	14.250	3991
14.107	2768	14.396	1369								16.052	4537	14.279	4256
14.145	1217	14.423	2130								16.077	3120	14.398	10199
14.167	1964	14.464	2557								16.103	2859	14.440	6443
14.216	889	14.514	2284								16.134	4659	14.524	5474
14.285	2734	14.549	2425								16.177	5762	14.547	2825
14.338	4977	14.575	1565								16.202	3593	14.613	4711
14.428	1819	14.604	1239								16.235	4860	14.651	6810
14.457	2530	14.633	2016								16.283	10286	14.729	6589
14.502	1424	14.664	1571								16.347	2847	14.782	3416
14.528	1727	14.700	2099								16.361	3047	14.840	7167
14.580	2696	14.730	2309								16.417	6395	14.886	8026
14.614	3731	14.761	1547								16.469	8853	14.970	10452
14.702	3980	14.800	2690								16.508	7503	15.047	12195

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.630	13442	42.630	12911
512				

Extracted Ion Current Profiles

14.728	4858	14.840	3725
14.790	2871	14.882	2860
14.835	2665	14.924	2530
14.872	2870	14.949	1661
14.917	4192	15.013	4899
14.956	7663	15.050	4634
15.050	7281	15.088	3405
15.088	2577	15.136	3885
15.143	9131	15.163	2362
15.222	4285	15.214	5975
15.254	4011	15.250	2709
15.295	4039	15.275	2645
15.363	11532	15.299	2639
15.425	2356	15.327	2769
15.451	2527	15.362	4024
15.480	5081	15.389	2934
15.510	3448	15.425	5292
15.544	3441	15.468	5491
15.562	3467	15.500	3503
15.594	6037	15.549	6648
15.637	6334	15.601	7244
15.669	5785	15.625	3472
15.722	6231	15.672	8419
15.750	3074	15.716	5413
15.779	3243	15.777	14563
15.801	3870	15.839	3558

16.576	7861	15.101	4672
16.622	7494	15.189	12535
16.657	5159	15.221	3893
16.714	6761	15.257	7515
16.749	3464	15.294	3306
16.794	8613	15.321	6247
16.819	4362	15.387	23761
16.866	8413	15.474	12681
16.895	5717	15.546	10026
16.940	5186	15.600	11322
16.973	3795	15.667	9533
17.018	8692	15.726	5769
17.061	8892	15.809	74665
17.112	9867	15.916	13024
17.148	7722	15.960	13993
17.185	5611	16.023	12423
17.212	7626	16.049	4493
17.246	5072	16.127	16870
17.273	4414	16.163	11768
17.323	9254	16.198	8751
17.348	4944	16.234	13145
17.375	4921	16.284	9929
17.405	4558	16.327	8816
17.435	7289	16.367	18343
17.462	5231	16.428	12411
17.490	4855	16.461	13143

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: B-28
Lab Sample ID: 12010053-09 (AP00234)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-314-22	PCBs by EPA Method TO-4A/680	01/12/2012 01:27	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16875	EPA 3540C	01/05/2012 15:30	HAG	380.50m³	1.00 mL	NA

Analyte	CAS No.	Result (ug/m³)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.0000260	2.00	U	MS03-314-22
Dichlorobiphenyl	25512-42-9	ND	0.0000260	2.00	U	MS03-314-22
Trichlorobiphenyl	25323-68-6	**0.00571**	0.0000260	2.00		MS03-314-22
Tetrachlorobiphenyl	26914-33-0	ND	0.0000530	2.00	U	MS03-314-22
Pentachlorobiphenyl	25429-29-2	ND	0.0000530	2.00	U	MS03-314-22
Hexachlorobiphenyl	26601-64-9	ND	0.0000530	2.00	U	MS03-314-22
Heptachlorobiphenyl	28655-71-2	ND	0.0000790	2.00	U	MS03-314-22
Octachlorobiphenyl	55722-26-4	ND	0.0000790	2.00	U	MS03-314-22
Nonachlorobiphenyl	53742-07-7	ND	0.000131	2.00	U	MS03-314-22
Decachlorobiphenyl	2051-24-3	ND	0.000131	2.00	U	MS03-314-22
Total PCB	1336-36-3	**0.00571**		2.00		MS03-314-22

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	52.4	42.5-134		MS03-314-22
Tetrachloro-meta-xylene	877-09-8	160	17.9-137	*	MS03-314-22

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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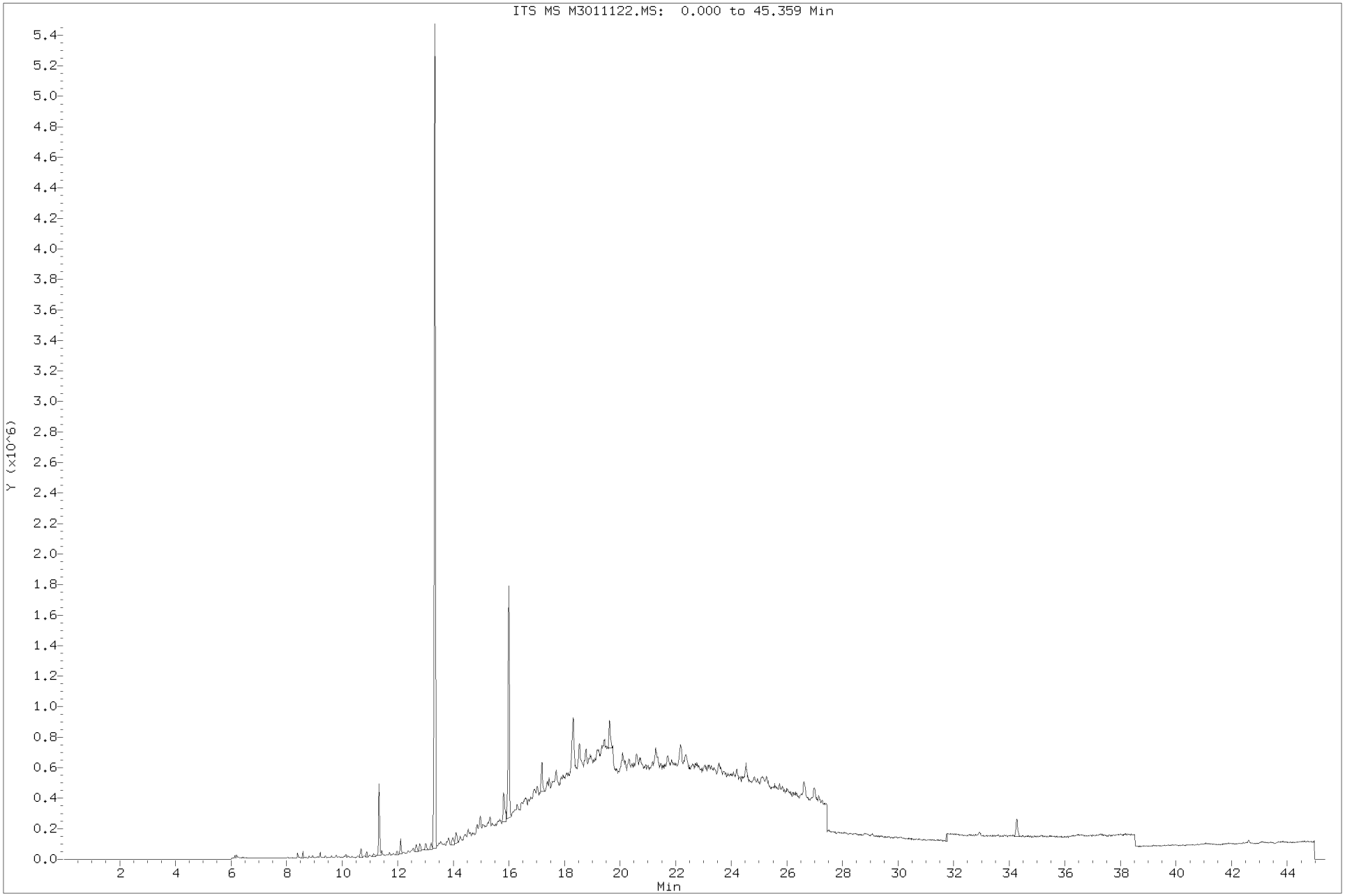
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011122.d/M3011122.MS
Injection Date: 12-JAN-2012 01:27
Instrument: GCMS03.i
Client Sample ID: B-28



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	B-28
Matrix:	TO-4A PUF	Lab Sample ID:	AP00234
Sample weight:	380.5 cubic m	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/12/2012
Dilution Factor:	2	Time Analyzed:	1:27

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug/m^3	ug/m^3	ug/m^3	
				Mono Total:		0.0000263	0.0000263	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug/m^3	ug/m^3	ug/m^3	
				Di Total:		0.0000263	0.0000263	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug/m^3	ug/m^3	ug/m^3	
15.743	5603	15.771	5458	1.0	0.9390	0.0000263	0.0000263	0.0000934	
15.806	6068	15.815	6596	0.9	0.9390	0.0000263	0.0000263	0.000101	
16.002	7040	16.000	8527	0.8	0.9390	0.0000263	0.0000263	0.000117	
16.078	5289	16.066	5726	0.9	0.9390	0.0000263	0.0000263	0.0000882	
16.457	5267	16.440	4671	1.1	0.9390	0.0000263	0.0000263	0.0000878	
16.701	7623	16.688	7972	1.0	0.9390	0.0000263	0.0000263	0.000127	
16.907	5813	16.885	5754	1.0	0.9390	0.0000263	0.0000263	0.0000969	
17.026	9224	17.060	10510	0.9	0.9390	0.0000263	0.0000263	0.000154	
17.535	11730	17.543	10064	1.2	0.9390	0.0000263	0.0000263	0.000196	
17.805	8983	17.775	10101	0.9	0.9390	0.0000263	0.0000263	0.000150	
18.146	20414	18.137	21635	0.9	0.9390	0.0000263	0.0000263	0.000311	
18.561	26420	18.542	23254	1.1	0.9390	0.0000263	0.0000263	0.000392	
19.003	12741	18.993	11685	1.1	0.9390	0.0000263	0.0000263	0.000173	
19.229	22649	19.244	19151	1.2	0.9390	0.0000263	0.0000263	0.000314	
19.339	36842	19.299	41825	0.9	0.9390	0.0000263	0.0000263	0.000531	
19.472	15359	19.479	16861	0.9	0.9390	0.0000263	0.0000263	0.000212	
19.525	25861	19.523	22903	1.1	0.9390	0.0000263	0.0000263	0.000332	
19.748	23043	19.757	21562	1.1	0.9390	0.0000263	0.0000263	0.000327	
19.814	15697	19.805	15204	1.0	0.9390	0.0000263	0.0000263	0.000196	
20.184	24621	20.166	27637	0.9	0.9390	0.0000263	0.0000263	0.000370	
20.238	32791	20.231	29521	1.1	0.9390	0.0000263	0.0000263	0.000517	
20.276	22836	20.267	21972	1.0	0.9390	0.0000263	0.0000263	0.000324	
20.345	15458	20.331	19302	0.8	0.9390	0.0000263	0.0000263	0.000180	
21.038	23451	21.041	27545	0.9	0.9390	0.0000263	0.0000263	0.000325	
				Tri Total:		0.0000263	0.0000263	0.00571	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Tetra Total:		0.0000526	0.0000526	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug/m^3	ug/m^3	ug/m^3	
				Penta Total:		0.0000526	0.0000526	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug/m^3	ug/m^3	ug/m^3	
				Hexa Total:		0.0000526	0.0000526	ND	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Hepta Total:		0.0000788	0.0000788	ND	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Octa Total:		0.0000788	0.0000788	ND	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Nona Total:		0.000131	0.000131	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Deca Total:		0.000131	0.000131	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL	
11.969	1097	11.961	944	1.2	0.2041		0.0160	
				TCMX Total:			0.0160	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.616	8955	42.616	9882	0.9	1.0171		0.0262	
				Deca Total:			0.0262	

TCMX Recovery % 160 %

Deca Recovery 52.4 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.269	268679	34.272	47504	5.7	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Monochlorobiphenyls							
"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.911	2968	11.334	2565	6.210	3174	8.592	3226
10.270	3173	12.565	3533	8.594	3036	9.404	5924
11.330	23271	13.021	6422	8.935	4717	9.618	5218
12.102	6449	13.209	4108	9.405	7476	9.778	4116
12.548	3536	13.338	127767	9.620	6089	10.208	3138
12.616	3147	13.873	2798	9.778	2722	10.361	2707
13.070	2784	14.042	4863	9.891	3059	10.568	3900
13.201	4696	14.091	2757	9.979	2793	10.693	5782
13.333	32188	14.150	3483	10.142	4237	10.823	2889
13.493	3121	14.239	2951	10.567	3094	10.881	3161
13.623	2955	14.278	4044	10.691	4573	10.978	3895
13.745	4876	14.353	2940	10.789	4773	11.133	4094
13.822	4672	14.402	3465	10.980	2824	11.329	19874
13.850	4426	14.431	3817	11.138	11378	11.590	10141
13.921	2943	14.544	4926	11.330	15821	11.702	7033
14.008	3848	14.617	3419	11.425	8078	11.806	3627
14.077	3749	14.707	3714	11.591	6962	11.870	3148
14.145	2647	14.739	4277	11.700	8233	11.977	6582
14.183	3677	14.838	7096	11.835	5385	12.108	5633
14.271	3109	14.927	4775	11.875	3163	12.244	6251
14.333	3724	14.959	3842	11.977	12532	12.386	6301
14.356	2900	14.994	4108	12.114	4111	12.493	9623
14.422	5255	15.059	5706	12.214	3028	12.675	7686
14.497	4706	15.115	2786	12.292	2552	12.748	3238
14.533	3893	15.176	6653	12.367	6638	12.814	3117
14.662	6277	15.226	3621	12.432	5674	12.864	8726
14.712	3913	15.263	4595	12.510	12047	12.921	3057
14.744	6937	15.318	5433	12.569	4056	13.014	5829
14.870	5207	15.368	2894	12.657	8750	13.085	2622
14.951	6513	15.411	9915	12.713	6166	13.194	10293
14.984	4260	15.471	4475	12.816	10829	13.341	53509
15.062	6686	15.502	2769	12.863	3724	13.404	3469
15.140	6044	15.544	3839	12.999	8872	13.432	3024
15.207	7007	15.630	7130	13.096	2521	13.503	8024
15.256	4199	15.689	4144	13.196	9369	13.549	5391
15.296	3176	15.716	3323	13.224	5918	13.596	12557
15.348	6679	15.770	6527	13.338	131284	13.691	8003
15.393	7502	15.806	8629	13.389	2724	13.818	12663
15.468	6589	15.834	5459	13.484	12607	13.857	3279
15.551	7154	15.894	4413	13.540	5156	13.994	17790
15.584	3451	16.001	50065	13.569	5114	14.092	7048

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
12.786	13144	13.005	3134	6.210	3174	8.592	3226	8.401	5099	9.911	2968
13.003	24876	13.296	2529	8.594	3036	9.404	5924	8.588	7752	10.270	3173
13.338	1963535	13.354	9865	8.935	4717	9.618	5218	9.219	2829	11.330	23271
13.834	2820	13.655	4942	9.405	7476	9.778	4116	10.668	3053	12.102	6449
14.141	2796	13.749	4801	9.620	6089	10.208	3138	11.329	21639	12.548	3536
14.430	4564	13.980	7787	9.778	2722	10.361	2707	11.499	3227	12.616	3147
14.861	17026	14.114	6638	9.891	3059	10.568	3900	11.723	3560	13.070	2784
14.968	6790	14.320	3614	9.979	2793	10.693	5782	12.106	4934	13.201	4696
15.048	3005	14.383	3480	10.142	4237	10.823	2889	12.501	2729	13.333	32188
15.102	2795	14.494	10252	10.567	3094	10.881	3161	12.631	3187	13.493	3121
15.193	5832	14.576	5044	10.691	4573	10.978	3895	13.102	9812	13.623	2955
15.285	24447	14.675	3555	10.789	4773	11.133	4094	13.187	3232	13.745	4876
15.459	4744	14.746	11037	10.980	2824	11.329	19874	13.322	26703	13.822	4672
15.483	6994	14.880	3197	11.138	11378	11.590	10141	13.409	4392	13.850	4426
15.601	4715	14.972	45289	11.330	15821	11.702	7033	13.490	4000	13.921	2943
15.629	5692	15.082	2711	11.425	8078	11.806	3627	13.553	13263	14.008	3848
15.683	7095	15.114	4666	11.591	6962	11.870	3148	13.697	8591	14.077	3749
15.781	2795	15.162	2734	11.700	8233	11.977	6582	13.777	2920	14.145	2647
15.813	5405	15.292	28006	11.835	5385	12.108	5633	13.842	8032	14.183	3677
15.998	361523	15.405	3608	11.875	3163	12.244	6251	13.943	29880	14.271	3109
16.116	4606	15.430	3231	11.977	12532	12.386	6301	14.127	15637	14.333	3724
16.144	5953	15.539	4877	12.114	4111	12.493	9623	14.192	7917	14.356	2900
16.173	4118	15.587	6708	12.214	3028	12.675	7686	14.260	11309	14.422	5255
16.219	3549	15.712	10543	12.292	2552	12.748	3238	14.371	13751	14.497	4706
16.309	6114	15.767	4443	12.367	6638	12.814	3117	14.438	3398	14.533	3893
16.342	3587	15.863	12132	12.432	5674	12.864	8726	14.499	9903	14.662	6277
16.393	7903	15.987	20994	12.510	12047	12.921	3057	14.536	10261	14.712	3913
16.433	8946	16.116	5331	12.569	4056	13.014	5829	14.613	4018	14.744	6937
16.475	2517	16.151	4280	12.657	8750	13.085	2622	14.654	4034	14.870	5207
16.546	15496	16.209	8537	12.713	6166	13.194	10293	14.686	5889	14.951	6513
16.597	4501	16.270	3582	12.816	10829	13.341	53509	14.718	4006	14.984	4260
16.643	3719	16.312	5125	12.863	3724	13.404	3469	14.775	3393	15.062	6686
16.699	6259	16.346	7944	12.999	8872	13.432	3024	14.816	3546	15.140	6044
16.789	8312	16.452	22114	13.096	2521	13.503	8024	14.851	10055	15.207	7007
16.811	5521	16.597	11656	13.196	9369	13.549	5391	14.970	14058	15.256	4199
16.891	13915	16.655	3963	13.224	5918	13.596	12557	15.051	16514	15.296	3176
16.955	3592	16.690	4564	13.338	131284	13.691	8003	15.115	6811	15.348	6679
17.009	11785	16.717	5961	13.389	2724	13.818	12663	15.176	9803	15.393	7502
17.042	4609	16.800	16121	13.484	12607	13.857	3279	15.245	25222	15.468	6589
17.126	13659	16.823	10302	13.540	5156	13.994	17790	15.322	12645	15.551	7154
17.143	6549	17.012	44121	13.569	5114	14.092	7048	15.366	6927	15.584	3451

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011122"		"M3011122"		"M3011122"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
15.107	2961	12.110	4059	9.211	4056
15.292	3236	13.486	9633	10.121	3186
15.508	2983	14.566	3980	12.784	62446
15.585	3330	14.814	2818	13.028	20267
15.614	3281	14.964	3211	13.339	10605346
15.650	5000	15.083	2741	13.390	6346
15.743	5603	15.110	2975	13.492	3494
15.806	6068	15.218	3280	13.602	2859
15.857	4949	15.280	4768	14.149	12958
15.922	5150	15.404	3056	14.273	3411
15.956	4502	15.430	2604	14.430	15621
16.002	7040	15.479	4517	14.578	2633
16.048	2544	15.532	2942	14.629	3482
16.078	5289	15.574	4701	14.859	60154
16.127	2733	15.656	4538	14.972	15771
16.150	2820	15.696	2988	15.066	7146
16.189	5711	15.771	5458	15.111	9508
16.228	2506	15.815	6596	15.196	7294
16.270	9740	15.921	4295	15.278	13616
16.329	4740	15.956	4347	15.325	15544
16.365	4967	16.000	8527	15.464	26800
16.418	6825	16.066	5726	15.518	2891
16.457	5267	16.115	6872	15.616	7837
16.500	6032	16.198	8496	15.656	5577
16.527	4135	16.236	3625	15.676	9398
16.551	4730	16.275	7185	15.807	17972
16.578	4684	16.317	6405	15.854	4472
16.610	7286	16.394	8707	15.999	1855647
16.647	9179	16.419	3187	16.144	23536
16.701	7623	16.440	4671	16.198	9302
16.729	5118	16.477	6559	16.223	10237
16.766	8166	16.521	8495	16.358	20410
16.791	10619	16.566	5837	16.454	32773
16.838	5085	16.597	5355	16.549	20278
16.876	8536	16.637	8500	16.633	9612
16.907	5813	16.688	7972	16.673	10491
16.939	13805	16.744	7474	16.772	17872
16.998	5505	16.776	6093	16.831	10342
17.026	9224	16.816	3921	16.909	19074
17.073	12702	16.840	9678	16.943	7596
17.124	16046	16.885	5754	17.003	11252

Extracted Ion Current Profiles

17.199	7577	17.113	6425	13.606	7384	14.121	9489	15.403	12605	15.612	4402
17.241	4735	17.185	6272	13.660	6317	14.247	12309	15.498	8767	15.663	3389
17.266	6337	17.291	24260	13.714	3158	14.316	5759	15.544	10668	15.683	3987
17.331	8469	17.374	18507	13.816	12875	14.404	17161	15.589	7230	15.812	272011
17.390	3790	17.397	9771	13.835	10021	14.453	3743	15.610	8000	15.931	10996
17.415	3288	17.453	6590	13.988	26772	14.535	16500	15.645	9665	15.998	18980
17.505	13283	17.505	11721	14.106	23178	14.584	10410	15.705	5506	16.055	6916
17.545	8282	17.557	6480	14.241	7696	14.690	15488	15.737	6339	16.096	5346
17.606	4831	17.622	4985	14.262	6614	14.749	2945	15.819	54044	16.174	10340
17.640	6330	17.669	8990	14.317	9679	14.845	26295	15.878	20547	16.212	10865
17.694	5406	17.708	12315	14.410	29906	14.915	5623	15.976	9398	16.290	8636
17.729	6219	17.823	13933	14.552	34415	14.953	7768	16.003	16887	16.319	13511
17.780	3064	17.866	8530	14.617	5290	14.982	12376	16.106	28421	16.407	2988
17.822	6512	17.891	12921	14.650	5725	15.031	4065	16.226	26663	16.445	6758
17.877	3600	17.939	4218	14.690	9148	15.089	21473	16.283	47820	16.486	8101
17.910	8884	17.965	5220	14.743	10454	15.143	3327	16.382	10911	16.522	4746
17.957	4310	17.997	2938	14.848	37252	15.177	6749	16.442	8939	16.535	4299
17.991	3079	18.092	28939	14.930	5303	15.217	5471	16.513	23780	16.562	2985
18.026	9895	18.178	6282	14.973	14363	15.263	12784	16.592	43687	16.592	3745
18.086	5984	18.229	3575	14.987	12108	15.304	7516	16.673	26651	16.636	9850
18.123	4840	18.312	24388	15.054	5613	15.339	6937	16.752	13486	16.686	7895
18.170	19136	18.374	4797	15.103	16915	15.394	17998	16.790	6422	16.722	5597
18.237	4388	18.415	12228	15.161	20216	15.540	15716	16.863	21628	16.762	5271
18.332	30169	18.483	14222	15.208	7290	15.605	14150	16.880	9495	16.789	4366
18.389	8536	18.543	11719	15.288	35465	15.641	7030	16.916	8362	16.827	8787
18.463	4692	18.589	27476	15.390	15113	15.682	11722	16.949	11935	16.899	8659
18.493	6858	18.621	33172	15.442	10323	15.749	10068	16.970	9743	16.928	7966
18.528	7814	18.701	8149	15.501	12195	15.806	12235	17.015	12368	17.003	8559
18.570	7608	18.765	14449	15.535	6865	15.822	3666	17.029	14923	17.038	5690
18.634	9172	18.806	14376	15.600	19448	15.854	12725	17.105	11750	17.078	9808
18.665	4289	18.839	17208	15.669	9426	15.911	8350	17.187	130580	17.142	14991
18.738	14832	18.944	13367	15.690	15882	15.996	57944	17.314	10432	17.197	11507
18.770	6760	18.977	8591	15.777	15231	16.095	5968	17.344	14813	17.253	7762
18.800	8119	18.999	4542	15.836	15535	16.132	12927	17.367	36315	17.287	8557
18.877	10026	19.021	5576	15.953	102296	16.195	12878	17.446	7073	17.333	6082
18.922	6357	19.082	11025	16.006	41069	16.240	10645	17.465	16589	17.366	9290
18.949	3408	19.108	2846	16.101	12209	16.293	22328	17.525	15759	17.406	3458
18.986	8311	19.244	31313	16.149	16052	16.355	19768	17.588	44973	17.437	11083
19.049	20270	19.289	15838	16.202	16893	16.437	7419	17.711	51266	17.495	6918
19.123	4596	19.352	6183	16.273	19356	16.480	17025	17.780	18593	17.519	7869
19.166	8743	19.389	12346	16.302	15272	16.529	17999	17.814	10856	17.574	18004
19.189	4941	19.451	17897	16.325	14134	16.556	2956	17.911	31886	17.628	10466
19.248	7409	19.520	11539	16.385	16535	16.592	14289	17.934	7141	17.667	8657
19.325	17066	19.572	11599	16.445	12195	16.651	20989	17.979	20940	17.682	8109
19.343	5757	19.599	24487	16.492	18692	16.700	10960	18.041	18192	17.760	19234
19.387	8871	19.728	69416	16.525	12332	16.729	7340	18.079	21383	17.831	9436

17.168	6073	16.939	9557	17.027	14820
17.210	14552	16.955	4649	17.102	6096
17.249	6507	16.990	13085	17.157	14717
17.272	7521	17.060	10510	17.190	5591
17.297	11490	17.093	6914	17.230	11573
17.344	12655	17.129	10116	17.274	24613
17.382	22304	17.153	3239	17.356	5615
17.480	19037	17.192	9040	17.395	8271
17.512	8007	17.224	7285	17.452	17209
17.535	11730	17.256	8907	17.470	6627
17.574	7848	17.292	6170	17.511	15964
17.599	10874	17.341	17477	17.568	8451
17.650	11449	17.377	10555	17.605	4497
17.678	9029	17.426	8862	17.636	9270
17.712	18600	17.454	8032	17.664	10290
17.751	18844	17.477	8846	17.698	5291
17.805	8983	17.512	7877	17.763	45362
17.823	8873	17.543	10064	17.864	11758
17.854	13401	17.611	15539	17.936	14025
17.893	16182	17.631	8259	17.981	11860
17.929	16163	17.670	15837	18.049	29597
17.965	14416	17.708	12158	18.138	7876
18.008	9550	17.737	8597	18.168	16340
18.038	15241	17.775	10101	18.246	13759
18.082	27811	17.840	26783	18.309	13891
18.146	20414	17.957	21881	18.393	26046
18.180	16520	18.009	20028	18.421	11900
18.216	10231	18.073	20280	18.503	16924
18.242	9861	18.104	5559	18.559	14740
18.269	15202	18.137	21635	18.605	23570
18.320	18121	18.200	12260	18.656	8054
18.345	12636	18.241	14681	18.721	10747
18.372	12063	18.282	14395	18.739	10595
18.393	13276	18.333	26456	18.789	22977
18.444	26791	18.392	24858	18.869	16936
18.483	20912	18.447	8828	18.919	14148
18.518	21250	18.486	16908	18.951	12383
18.561	26420	18.542	23254	18.996	12483
18.598	13289	18.595	8146	19.021	10548
18.624	14096	18.632	29818	19.061	14830
18.650	23441	18.706	16405	19.097	11943
18.698	27436	18.738	10211	19.142	15946
18.737	13435	18.770	15051	19.187	15444
18.773	33410	18.808	13472	19.230	13293
18.840	20395	18.846	13676	19.257	15957
18.885	31011	18.899	17008	19.325	7596

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
15.107	2961	12.110	4059	8.401	5099	9.911	2968	22.369	3912	13.348	3578
15.292	3236	13.486	9633	8.588	7752	10.270	3173	25.029	3106	23.590	2708
15.508	2983	14.566	3980	9.219	2829	11.330	23271	25.314	2766	23.654	2778
15.585	3330	14.814	2818	10.668	3053	12.102	6449	25.576	3018	24.125	2798
15.614	3281	14.964	3211	11.329	21639	12.548	3536	25.672	4748	24.319	2591
15.650	5000	15.083	2741	11.499	3227	12.616	3147	26.152	3066	24.412	3195
15.743	5603	15.110	2975	11.723	3560	13.070	2784	26.315	3649	24.465	4067
15.806	6068	15.218	3280	12.106	4934	13.201	4696	26.519	2783	24.606	2688
15.857	4949	15.280	4768	12.501	2729	13.333	32188	26.614	4832	24.743	3024
15.922	5150	15.404	3056	12.631	3187	13.493	3121	26.912	3400	24.921	2685
15.956	4502	15.430	2604	13.102	9812	13.623	2955	26.990	3031	24.991	3355
16.002	7040	15.479	4517	13.187	3232	13.745	4876	27.030	2746	25.137	4067
16.048	2544	15.532	2942	13.322	26703	13.822	4672	27.317	2603	25.250	3182
16.078	5289	15.574	4701	13.409	4392	13.850	4426	27.373	2881	25.518	5860
16.127	2733	15.656	4538	13.490	4000	13.921	2943	27.409	2858	25.610	3346
16.150	2820	15.696	2988	13.553	13263	14.008	3848	27.446	2795	25.895	3116
16.189	5711	15.771	5458	13.697	8591	14.077	3749	27.483	2921	25.996	3751
16.228	2506	15.815	6596	13.777	2920	14.145	2647	27.568	5145	26.104	3208
16.270	9740	15.921	4295	13.842	8032	14.183	3677	27.635	2826	26.196	3384
16.329	4740	15.956	4347	13.943	29880	14.271	3109	27.701	2936	26.268	2937
16.365	4967	16.000	8527	14.127	15637	14.333	3724	27.744	2860	26.343	4952
16.418	6825	16.066	5726	14.192	7917	14.356	2900	27.819	3298	26.516	6983
16.457	5267	16.115	6872	14.260	11309	14.422	5255	27.904	2974	26.695	3142
16.500	6032	16.198	8496	14.371	13751	14.497	4706	27.962	3240	26.748	2688
16.527	4135	16.236	3625	14.438	3398	14.533	3893	27.998	2597	26.791	4823
16.551	4730	16.275	7185	14.499	9903	14.662	6277	28.026	2863	26.841	3404
16.578	4684	16.317	6405	14.536	10261	14.712	3913	28.195	2973	26.927	2773
16.610	7286	16.394	8707	14.613	4018	14.744	6937	28.308	2617	27.055	3110
16.647	9179	16.419	3187	14.654	4034	14.870	5207	28.344	2540	27.146	3409
16.701	7623	16.440	4671	14.686	5889	14.951	6513	28.437	2522	27.233	4024
16.729	5118	16.477	6559	14.718	4006	14.984	4260	28.472	3082	27.275	3059
16.766	8166	16.521	8495	14.775	3393	15.062	6686	28.583	2993	27.317	2613
16.791	10619	16.566	5837	14.816	3546	15.140	6044	28.654	5292	27.496	5547
16.838	5085	16.597	5355	14.851	10055	15.207	7007	28.692	2530	27.540	2592
16.876	8536	16.637	8500	14.970	14058	15.256	4199	28.734	2624	27.602	3200
16.907	5813	16.688	7972	15.051	16514	15.296	3176	28.875	2510	27.692	5970
16.939	13805	16.744	7474	15.115	6811	15.348	6679	28.904	2516	27.809	3807
16.998	5505	16.776	6093	15.176	9803	15.393	7502	28.961	4021	27.940	4020
17.026	9224	16.816	3921	15.245	25222	15.468	6589	29.067	3891	27.989	4077
17.073	12702	16.840	9678	15.322	12645	15.551	7154	29.268	3513	28.075	2685
17.124	16046	16.885	5754	15.366	6927	15.584	3451	29.442	3341	28.121	2997

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
22.900	2868	16.002	4004	18.344	3672	13.331	5271	13.348	2982	13.351	4175
23.251	2513	16.037	3216	18.511	2730	18.350	2815	20.079	2900	15.099	4990
23.813	3937	16.121	2863	18.554	2887	18.413	3060	21.194	2556	15.382	3857
23.913	3969	16.258	4166	18.617	5425	18.526	4429	21.789	2673	15.463	2699
24.484	5119	16.316	3569	18.832	2764	18.582	3236	21.938	3319	15.591	3637
24.935	3520	16.395	4825	18.908	3214	18.636	2571	22.076	3021	15.679	3214
25.011	3848	16.437	3237	18.954	3193	18.947	2619	22.134	2682	15.805	2845
25.088	2523	16.489	3218	19.005	3689	19.078	3370	22.211	6268	15.848	2728
25.260	2848	16.532	3263	19.140	3841	19.103	3671	22.356	3267	15.914	2952
25.384	2730	16.565	2956	19.259	3943	19.178	3793	22.396	2800	15.966	4078
25.414	3248	16.591	4489	19.302	2747	19.236	2766	22.475	3350	16.002	2864
25.522	3101	16.644	6735	19.363	5089	19.296	3095	22.547	2643	16.051	4296
25.569	3249	16.694	5542	19.435	3425	19.412	3720	22.573	3658	16.105	3496
25.636	2758	16.766	2758	19.523	2749	19.651	8969	22.614	3272	16.170	3979
25.678	3028	16.806	4159	19.578	2578	19.804	3485	22.691	4432	16.219	7596
25.723	4502	16.830	4778	19.683	3398	19.850	3700	22.902	2882	16.275	2868
25.905	4996	16.879	5547	19.767	2814	20.043	3365	22.929	3032	16.309	2943
25.991	3212	16.904	3161	19.788	2531	20.109	3324	22.975	2749	16.347	3386
26.066	2702	16.933	3672	19.848	6399	20.170	4902	23.009	2628	16.381	6010
26.104	3084	16.956	5526	19.878	5192	20.215	3366	23.037	2604	16.448	5226
26.150	3647	17.006	5599	20.052	6675	20.284	5139	23.099	4446	16.479	3201
26.224	2673	17.042	6888	20.121	4811	20.318	2591	23.202	3832	16.536	6313
26.360	6659	17.082	2951	20.159	5970	20.362	4797	23.235	4022	16.623	10271
26.424	4148	17.113	5401	20.218	2590	20.393	2565	23.274	3550	16.662	4428
26.462	3026	17.146	3596	20.255	3527	20.537	3546	23.344	4056	16.685	10165
26.524	8339	17.169	3671	20.284	3675	20.583	3488	23.399	2898	16.776	5960
26.624	3870	17.195	3294	20.327	3187	20.669	6000	23.468	3557	16.794	4673
26.686	3025	17.223	5152	20.393	4235	20.749	6090	23.526	6379	16.854	10186
26.741	6230	17.258	5847	20.420	3777	20.787	4100	23.610	4356	16.892	5116
26.849	4951	17.296	3936	20.487	4834	20.822	3118	23.636	4116	16.921	9546
26.941	4708	17.320	3673	20.553	4358	20.853	3007	23.754	4922	16.995	9339
27.021	3374	17.351	6326	20.579	2504	20.904	2673	23.829	3473	17.036	10987
27.046	3074	17.398	11741	20.617	6669	20.935	5139	23.928	2795	17.079	4912
27.092	3075	17.454	6036	20.673	5662	20.974	2613	23.969	3478	17.112	6762
27.230	3309	17.512	8575	20.751	5013	21.037	3402	24.000	2602	17.144	7063
27.280	2598	17.547	8447	20.788	2619	21.073	3950	24.026	2723	17.173	7387
27.314	3252	17.574	5068	20.864	8949	21.133	3210	24.052	2573	17.224	8673
27.343	3140	17.598	4881	20.901	3168	21.168	4829	24.075	4908	17.256	8200
27.425	3033	17.632	6685	20.952	7208	21.222	2852	24.140	4006	17.311	11307
27.470	2676	17.675	7941	21.000	3619	21.289	5171	24.169	4545	17.349	7357
27.593	2787	17.700	5479	21.053	5949	21.329	4720	24.223	4586	17.395	12365

Extracted Ion Current Profiles

17.168	6073	16.939	9557	15.403	12605	15.612	4402	29.470	2682	28.147	2659
17.210	14552	16.955	4649	15.498	8767	15.663	3389	29.522	3329	28.233	2501
17.249	6507	16.990	13085	15.544	10668	15.683	3987	29.563	5036	28.419	4560
17.272	7521	17.060	10510	15.589	7230	15.812	272011	29.699	2502	28.473	2647
17.297	11490	17.093	6914	15.610	8000	15.931	10996	29.765	3259	28.537	2502
17.344	12655	17.129	10116	15.645	9665	15.998	18980	29.857	3877	28.604	3910
17.382	22304	17.153	3239	15.705	5506	16.055	6916	29.939	3006	28.640	2630
17.480	19037	17.192	9040	15.737	6339	16.096	5346	29.986	2536	28.688	3545
17.512	8007	17.224	7285	15.819	54044	16.174	10340	30.047	4718	28.752	3162
17.535	11730	17.256	8907	15.878	20547	16.212	10865	30.293	2770	28.809	3535
17.574	7848	17.292	6170	15.976	9398	16.290	8636	30.411	3036	28.839	3012
17.599	10874	17.341	17477	16.003	16887	16.319	13511	30.495	3191	28.895	3470
17.650	11449	17.377	10555	16.106	28421	16.407	2988	30.553	2827	28.941	4510
17.678	9029	17.426	8862	16.226	26663	16.445	6758	30.610	2678	29.052	2916
17.712	18600	17.454	8032	16.283	47820	16.486	8101	30.669	4637	29.245	6219
17.751	18844	17.477	8846	16.382	10911	16.522	4746	30.763	2951	29.404	3473
17.805	8983	17.512	7877	16.442	8939	16.535	4299	30.928	2533	29.467	2922
17.823	8873	17.543	10064	16.513	23780	16.562	2985	30.973	3168	29.518	3435
17.854	13401	17.611	15539	16.592	43687	16.592	3745	31.268	2695	29.574	4013
17.893	16182	17.631	8259	16.673	26651	16.636	9850	31.323	2841	29.751	2502
17.929	16163	17.670	15837	16.752	13486	16.686	7895	31.597	2695	29.844	4117
17.965	14416	17.708	12158	16.790	6422	16.722	5597	31.881	2529	29.872	2678
18.008	9550	17.737	8597	16.863	21628	16.762	5271	31.925	3015	29.956	3431
18.038	15241	17.775	10101	16.880	9495	16.789	4366	32.369	2646	29.979	3703
18.082	27811	17.840	26783	16.916	8362	16.827	8787	32.478	4151	30.125	3049
18.146	20414	17.957	21881	16.949	11935	16.899	8659	32.577	2556	30.187	4213
18.180	16520	18.009	20028	16.970	9743	16.928	7966	32.772	2771	30.320	4429
18.216	10231	18.073	20280	17.015	12368	17.003	8559	33.228	2957	30.362	3255
18.242	9861	18.104	5559	17.029	14923	17.038	5690	33.556	2828	30.426	3013
18.269	15202	18.137	21635	17.105	11750	17.078	9808	33.839	3075	30.554	3039
18.320	18121	18.200	12260	17.187	130580	17.142	14991	34.199	2777	30.682	2563
18.345	12636	18.241	14681	17.314	10432	17.197	11507	34.624	2570	30.739	2620
18.372	12063	18.282	14395	17.344	14813	17.253	7762	34.767	2599	30.773	3583
18.393	13276	18.333	26456	17.367	36315	17.287	8557	35.706	2680	30.870	3036
18.444	26791	18.392	24858	17.446	7073	17.333	6082	36.216	2560	30.941	3087
18.483	20912	18.447	8828	17.465	16589	17.366	9290			31.165	4322
18.518	21250	18.486	16908	17.525	15759	17.406	3458			31.233	3053
18.561	26420	18.542	23254	17.588	44973	17.437	11083			31.411	3087
18.598	13289	18.595	8146	17.711	51266	17.495	6918			31.585	3036
18.624	14096	18.632	29818	17.780	18593	17.519	7869			31.761	2869
18.650	23441	18.706	16405	17.814	10856	17.574	18004			31.827	2656
18.698	27436	18.738	10211	17.911	31886	17.628	10466			31.930	2714
18.737	13435	18.770	15051	17.934	7141	17.667	8657			32.258	2860
18.773	33410	18.808	13472	17.979	20940	17.682	8109			32.560	3066
18.840	20395	18.846	13676	18.041	18192	17.760	19234			32.663	3209
18.885	31011	18.899	17008	18.079	21383	17.831	9436			33.460	2982

Extracted Ion Current Profiles

27.633	3472	17.741	7250	21.104	5882	21.388	4896	24.281	5657	17.436	7422
27.745	2783	17.764	5668	21.168	7594	21.428	3374	24.347	5465	17.486	9728
27.822	4062	17.789	5720	21.252	6541	21.507	4486	24.410	4250	17.545	20961
27.892	3985	17.812	5595	21.288	4749	21.582	3751	24.434	4699	17.614	9232
27.926	2516	17.838	7601	21.320	2554	21.618	3740	24.469	4147	17.647	6267
27.965	3689	17.890	6280	21.346	2651	21.658	3203	24.515	3962	17.677	11818
28.000	2605	17.916	4603	21.370	2635	21.722	4600	24.544	2556	17.720	8822
28.101	4002	17.952	8883	21.399	5339	21.757	3959	24.572	5182	17.763	14292
28.147	4479	17.979	11729	21.455	5662	21.787	2665	24.657	4976	17.827	19434
28.200	2534	18.029	8145	21.488	7275	21.815	2824	24.754	8196	17.883	10537
28.244	2569	18.094	19313	21.539	4363	21.838	3296	24.793	4317	17.918	6944
28.289	4147	18.145	5696	21.594	4036	21.915	5892	24.838	5333	17.951	10938
28.353	3684	18.173	21886	21.633	5085	22.002	3490	24.889	5475	17.964	15916
28.434	2666	18.284	17208	21.667	3185	22.051	5168	24.959	8284	18.038	9689
28.463	2925	18.322	8009	21.690	2799	22.104	3283	24.992	2970	18.074	9753
28.573	5170	18.344	7990	21.730	5310	22.149	5134	25.016	4464	18.102	17539
28.666	4335	18.370	6989	21.752	3863	22.191	2525	25.077	8486	18.147	13223
28.751	6314	18.394	7045	21.777	3246	22.284	5623	25.128	2895	18.178	16966
28.808	2712	18.422	7734	21.807	4520	22.319	2669	25.151	3133	18.233	15668
28.888	2627	18.445	7707	21.856	5084	22.490	3703	25.176	3257	18.284	25472
28.929	2662	18.489	11763	21.872	4025	22.583	3237	25.200	3093	18.361	24799
28.976	3828	18.504	10875	21.900	3385	22.618	2872	25.229	4565	18.380	8588
29.005	2578	18.565	14538	21.938	6942	22.668	2729	25.267	3295	18.418	18132
29.057	3524	18.612	17287	21.977	4110	22.692	4382	25.288	9113	18.487	23037
29.132	2512	18.659	19178	22.036	6048	22.739	5547	25.348	3151	18.525	20331
29.184	2767	18.726	11515	22.061	3143	22.786	3657	25.374	2879	18.572	21567
29.246	3733	18.751	8193	22.087	2999	22.865	3855	25.419	6338	18.627	37087
29.297	3578	18.775	10490	22.112	4837	22.889	3127	25.451	6638	18.706	17419
29.358	4514	18.800	8902	22.156	7114	22.992	5365	25.509	5356	18.754	26913
29.419	4546	18.826	7391	22.209	4383	23.054	6171	25.535	3264	18.808	15575
29.481	2671	18.856	17921	22.245	5664	23.119	3172	25.560	3307	18.848	21333
29.697	4754	18.904	9984	22.274	5437	23.193	5039	25.585	2764	18.894	22242
29.723	2709	18.927	21912	22.311	3459	23.224	3040	25.613	4336	18.913	13429
29.762	2823	18.994	13251	22.330	3647	23.280	4643	25.670	5290	18.967	23388
29.849	3904	19.026	9381	22.358	3070	23.332	4012	25.716	9849	19.002	17609
29.900	3800	19.056	8941	22.387	5750	23.414	3749	25.782	4847	19.039	18986
29.938	2501	19.084	14958	22.454	5024	23.510	3612	25.808	3462	19.083	20947
29.977	2623	19.116	10251	22.481	3042	23.553	3393	25.832	4053	19.102	9884
30.005	2613	19.143	10291	22.507	3328	23.680	2993	25.870	4302	19.140	13086
30.042	3489	19.190	22398	22.538	5095	23.792	4234	25.896	8283	19.176	39408
30.113	4422	19.218	19914	22.568	3041	23.874	3748	25.961	4727	19.257	28164
30.262	2622	19.269	9210	22.593	4366	23.940	4374	26.028	9521	19.304	28533
30.382	3979	19.308	20859	22.639	4936	23.991	4799	26.077	4237	19.356	37075
30.453	2883	19.344	10348	22.673	3929	24.082	3753	26.116	4466	19.418	14764
30.532	2629	19.398	27526	22.713	3627	24.147	3354	26.141	2908	19.450	19532
30.645	2801	19.442	19256	22.748	4667	24.185	3415	26.177	4383	19.505	44030

18.939	29922	18.932	14491	18.124	16978	17.877	8925
18.974	21293	18.958	10179	18.307	163374	17.940	13117
19.003	12741	18.993	11685	18.406	19603	17.980	7649
19.032	12366	19.046	22776	18.442	14548	18.011	9321
19.051	13313	19.100	12405	18.537	78407	18.062	7286
19.091	19784	19.144	17663	18.632	16601	18.096	7921
19.141	36106	19.184	12644	18.657	16723	18.143	10145
19.191	22099	19.211	14881	18.724	23246	18.196	10727
19.229	22649	19.244	19151	18.789	54371	18.264	14121
19.259	15030	19.299	41825	18.852	11052	18.305	12683
19.277	14115	19.403	12212	18.924	41585	18.344	6440
19.339	36842	19.437	12382	18.981	26147	18.388	13346
19.372	15493	19.479	16861	19.047	17728	18.426	5921
19.394	15457	19.523	22903	19.096	32176	18.487	15021
19.426	16314	19.582	25305	19.215	68831	18.551	18033
19.445	15865	19.626	22147	19.280	11123	18.588	10872
19.472	15359	19.705	25101	19.346	50691	18.643	18406
19.495	16109	19.757	21562	19.370	24236	18.698	12829
19.525	25861	19.805	15204	19.395	10788	18.757	10682
19.560	14076	19.863	44189	19.435	33531	18.815	24741
19.611	31146	19.959	14162	19.481	15152	18.895	12280
19.638	17488	19.982	17836	19.540	45194	18.950	12914
19.662	15492	20.042	12466	19.624	73107	18.985	9832
19.686	15198	20.088	21717	19.687	26557	19.015	7972
19.712	15067	20.116	9950	19.724	17264	19.069	18924
19.748	23043	20.166	27637	19.785	29620	19.166	17015
19.777	23131	20.231	29521	19.827	10927	19.219	13919
19.814	15697	20.267	21972	19.855	23812	19.284	14967
19.838	14911	20.331	19302	19.887	15932	19.327	13257
19.864	15881	20.366	12335	19.932	24117	19.394	14769
19.893	23169	20.397	11864	20.018	25831	19.425	6407
19.947	31371	20.437	11088	20.037	12568	19.453	12708
19.999	31667	20.471	8886	20.097	58250	19.506	18716
20.022	16420	20.498	12339	20.186	27083	19.571	16332
20.060	24105	20.588	62510	20.234	22520	19.614	10474
20.085	17191	20.684	12547	20.311	37045	19.653	12813
20.110	15811	20.715	14380	20.330	34331	19.709	18945
20.137	16678	20.754	11648	20.427	18026	19.759	14286
20.159	16934	20.776	3760	20.463	14471	19.799	16604
20.184	24621	20.810	8346	20.493	16352	19.868	22221
20.238	32791	20.833	6952	20.532	13293	19.920	10112
20.276	22836	20.853	9886	20.562	13841	19.968	11937
20.319	22781	20.893	8459	20.603	17595	19.984	4699
20.345	15458	20.939	23577	20.648	18926	20.022	16120
20.390	46047	20.992	8022	20.738	38580	20.046	13281
20.448	21981	21.041	27545	20.768	23548	20.112	11142

33.652	4757
33.896	3528
34.184	2827
34.905	2520
35.178	2513
35.968	2524
36.933	2988

Extracted Ion Current Profiles

30.695	2869	19.475	12394	22.804	7638	24.252	2982	26.231	7808	19.568	27075
30.779	4952	19.508	39104	22.858	6371	24.290	2710	26.279	6992	19.629	39716
30.855	2709	19.574	11922	22.888	3374	24.332	3906	26.315	3360	19.662	16656
30.979	2631	19.599	11995	22.916	2978	24.397	2657	26.339	3015	19.700	22453
31.047	3675	19.632	18635	22.943	8034	24.506	3158	26.367	4584	19.748	25196
31.156	3513	19.681	24786	22.992	5129	24.594	2975	26.412	5190	19.764	13843
31.453	2936	19.720	17426	23.025	2830	24.682	3157	26.445	3043	19.814	29080
31.676	2570	19.774	24285	23.061	4710	24.816	2808	26.463	3978	19.866	26804
31.749	2914	19.824	22127	23.098	4326	24.845	4838	26.509	5090	19.902	26652
31.791	3226	19.875	29190	23.137	4535	25.008	4720	26.550	7025	19.956	25029
32.122	4445	19.924	17274	23.164	5299	25.042	2916	26.591	2820	20.006	48509
32.219	3601	19.950	12186	23.198	5470	25.078	2613	26.612	3217	20.072	41410
32.366	2751	19.979	25365	23.234	3325	25.101	3105	26.637	4285	20.145	33090
32.431	2802	20.023	11986	23.271	8790	25.153	4459	26.686	4396	20.183	17783
32.569	3056	20.056	17663	23.323	6031	25.211	5947	26.715	4644	20.215	23857
32.706	3473	20.096	18449	23.372	4185	25.252	2906	26.772	8682	20.231	13359
32.815	3498	20.125	12810	23.420	4628	25.312	3100	26.812	2718	20.273	25330
33.159	3294	20.146	19686	23.447	3854	25.410	22043	26.847	4551	20.308	22400
33.235	2811	20.208	25946	23.483	2580	25.485	4128	26.871	3212	20.344	34447
33.534	3225	20.233	19861	23.506	3490	25.535	2916	26.900	6435	20.402	24663
33.605	3724	20.275	26969	23.547	7276	25.622	2828	26.959	4655	20.431	48523
33.688	4170	20.332	26593	23.605	4971	25.682	4126	26.984	2715	20.516	31012
33.902	3164	20.372	13198	23.654	4632	25.750	5128	27.012	5370	20.607	89102
34.138	3115	20.403	26853	23.687	6800	25.829	3578	27.058	8525	20.668	24016
35.074	2699	20.480	32141	23.754	5350	25.877	4467	27.120	6385	20.704	32478
36.217	3616	20.512	19640	23.776	5965	25.931	5051	27.159	4414	20.749	35379
37.473	2751	20.543	19472	23.846	6217	26.035	3949	27.204	4037	20.790	16261
38.511	2502	20.587	21865	23.877	3333	26.106	3865	27.229	2597	20.827	28124
		20.616	14183	23.899	3361	26.191	4633	27.270	6708	20.877	28189
		20.641	14035	23.946	4734	26.262	4611	27.302	4569	20.938	45043
		20.683	21240	24.012	6278	26.338	3762	27.343	2904	20.975	35956
		20.712	22224	24.054	2833	26.392	3791	27.374	4803	21.026	29368
		20.740	22175	24.073	3201	26.449	2982	27.407	4914	21.060	37138
		20.780	22130	24.102	4471	26.485	2949	27.444	4607	21.117	19841
		20.817	20693	24.140	2780	26.537	3525	27.494	5768	21.141	19180
		20.872	34260	24.175	4861	26.725	3739	27.530	2574	21.178	31038
		20.915	21538	24.198	4072	26.771	3394	27.556	4486	21.222	25053
		20.950	15043	24.223	3693	26.874	5328	27.589	2665	21.273	37819
		20.974	14524	24.249	2538	26.935	3910	27.650	7151	21.340	39091
		21.004	16117	24.283	4007	27.057	2965	27.676	5730	21.371	23166
		21.020	16627	24.330	7218	27.145	3799	27.755	7755	21.397	25358
		21.052	15197	24.386	4661	27.242	5953	27.795	2621	21.461	43237
		21.071	15570	24.421	4109	27.315	3833	27.829	5751	21.493	28637
		21.105	22397	24.468	3669	27.347	4403	27.875	4085	21.546	23560
		21.135	13968	24.529	8110	27.407	3182	27.921	6977	21.561	23631
		21.161	14149	24.559	6367	27.444	2634	27.967	3998	21.601	32325

Extracted Ion Current Profiles

20.492	22699	21.085	3403	20.816	15587	20.161	17443
20.595	181987	21.118	10993	20.874	24058	20.194	4613
20.726	24129	21.158	15178	20.920	22987	20.215	10910
20.765	25025	21.212	21959	20.971	16865	20.261	15761
20.795	32904	21.285	16410	21.036	24199	20.290	12442
20.840	17302	21.315	8638	21.091	18560	20.351	19732
20.863	25808	21.347	13261	21.141	31663	20.389	8959
20.921	50507	21.379	11609	21.206	14024	20.429	8751
20.973	13789	21.440	28023	21.243	14507	20.456	13718
21.004	14228	21.468	12788	21.279	12624	20.488	5418
21.038	23451	21.533	8670	21.318	24973	20.514	13090
21.058	15955	21.564	11387	21.365	17266	20.550	8619
21.085	14552	21.614	18937	21.403	14966	20.588	10994
21.121	28452	21.676	4897	21.440	21275	20.642	14152
21.171	23721	21.694	7876	21.489	20248	20.678	15206
21.208	38120	21.726	8082	21.532	25605	20.727	15965
21.283	31505	21.757	4955	21.607	15208	20.762	6195
21.324	33635	21.805	19470	21.654	18707	20.791	11521
21.369	36730	21.893	18991	21.699	26019	20.832	12205
21.418	14067	21.945	11751	21.741	12249	20.848	7114
21.465	37480	21.998	11290	21.781	11892	20.896	26616
21.506	14736	22.032	6055	21.824	28434	20.990	19499
21.533	28394	22.109	110465	21.876	8619	21.072	21582
21.584	23139	22.211	8769	21.909	11990	21.110	8748
21.616	14575	22.241	20293	21.926	11388	21.146	5961
21.641	13554	22.321	14512	21.969	13739	21.177	16176
21.689	28960	22.355	4581	21.986	2791	21.218	12526
21.714	15836	22.370	12498	22.018	15360	21.260	11913
21.742	29661	22.426	10081	22.054	20994	21.283	7906
21.801	32841	22.474	13024	22.120	17507	21.312	12051
21.875	27347	22.523	5314	22.150	12385	21.331	7048
21.913	21951	22.548	9048	22.169	6186	21.365	7684
21.937	14569	22.590	10492	22.207	12260	21.414	19571
21.984	28000	22.623	6675	22.218	11517	21.453	8856
22.024	24231	22.663	12573	22.269	13051	21.480	12204
22.075	23846	22.709	11935	22.301	15210	21.530	25654
22.111	12116	22.767	9172	22.350	18528	21.612	17066
22.145	17097	22.792	9176	22.378	20490	21.660	16216
22.176	13420	22.836	10460	22.458	18701	21.712	9649
22.197	19920	22.899	6681	22.524	18516	21.732	9341
22.245	20837	22.927	9215	22.557	11236	21.765	14720
22.285	21600	22.959	4290	22.592	13448	21.800	12268
22.318	29740	23.003	13278	22.635	14082	21.852	13474
22.370	33537	23.092	28123	22.670	10636	21.888	16108
22.420	11641	23.159	9883	22.710	12696	21.946	10229
22.443	11687	23.200	7907	22.763	19785	21.978	16644

Extracted Ion Current Profiles

21.184	15320	24.606	2723	27.485	2589	28.005	4316	21.652	26767
21.209	13224	24.639	4128	27.580	3540	28.037	2755	21.684	26217
21.237	14162	24.696	2834	27.642	4323	28.086	5626	21.726	18877
21.271	32838	24.720	8739	27.719	3176	28.113	5547	21.759	32828
21.321	34167	24.799	3761	27.783	5836	28.162	2509	21.794	29482
21.358	25537	24.881	2507	27.833	2907	28.185	8430	21.828	28589
21.418	30975	24.909	2620	27.878	2579	28.254	2626	21.886	16747
21.470	31154	24.945	4193	27.923	4054	28.290	4451	21.917	49408
21.493	24407	24.960	3773	27.986	4590	28.322	2816	21.989	25719
21.530	15129	25.022	4654	28.171	3138	28.340	2759	22.020	32611
21.553	15737	25.063	4924	28.251	4324	28.362	2675	22.057	21931
21.603	30848	25.107	3639	28.285	2505	28.391	4101	22.110	36977
21.629	14208	25.152	4342	28.318	3547	28.429	3860	22.150	21057
21.655	14109	25.182	5401	28.412	3441	28.461	3501	22.181	16242
21.682	21844	25.227	3834	28.486	5554	28.501	2596	22.197	16660
21.726	22798	25.264	3584	28.548	3727	28.521	2857	22.232	15497
21.752	15318	25.308	3101	28.609	2845	28.546	2610	22.267	21277
21.815	47284	25.352	3093	28.889	5720	28.577	3422	22.298	32582
21.889	50357	25.381	3084	28.934	2522	28.610	3467	22.372	112331
21.933	23834	25.438	3609	29.045	2984	28.644	3871	22.463	19991
21.962	15577	25.472	2540	29.091	2505	28.702	5563	22.500	24877
21.991	24281	25.516	3481	29.248	4307	28.742	7058	22.534	20434
22.029	30187	25.535	3415	29.297	3321	28.789	2816	22.572	21599
22.089	21434	25.559	2852	29.352	3715	28.813	4326	22.600	19690
22.122	31603	25.613	6040	29.434	2970	28.858	5473	22.613	16431
22.158	15350	25.671	3450	29.651	3640	28.910	4990	22.653	22320
22.185	16690	25.741	6065	29.785	4972	28.950	4706	22.686	19222
22.221	32319	25.770	2637	29.954	2665	29.020	8331	22.751	44556
22.291	43212	25.819	6096	30.185	2941	29.112	6663	22.781	21147
22.322	18606	25.902	5171	30.270	2606	29.185	5356	22.818	33468
22.349	47359	25.943	2586	30.635	3919	29.240	4173	22.839	21235
22.407	29980	26.053	3908	30.719	2717	29.295	4016	22.879	18372
22.462	28239	26.103	3216	30.910	2590	29.347	5088	22.928	28132
22.524	20882	26.170	3162	31.150	2651	29.395	2532	22.955	21183
22.542	15698	26.218	4174	31.344	2532	29.432	4646	22.988	10938
22.590	38859	26.328	4982	31.420	3328	29.515	4223	23.019	31825
22.637	21928	26.387	3704	31.470	2924	29.566	5383	23.065	40212
22.667	28777	26.475	4650	31.836	4024	29.651	6123	23.128	17211
22.720	21280	26.528	3504	32.018	2884	29.757	4565	23.177	32691
22.756	28561	26.588	3179	32.194	2636	29.799	3179	23.209	21953
22.816	22420	26.614	4391	32.436	2660	29.959	5410	23.264	29103
22.839	15292	26.674	2519	32.928	2602	30.034	4030	23.291	15599
22.862	15020	26.824	2667	33.269	2505	30.073	4512	23.372	77896
22.887	14783	26.912	3595	33.579	2527	30.123	2857	23.423	23668
22.913	13136	26.964	4564			30.173	3814	23.451	18154
22.946	20783	27.090	4808			30.298	4235	23.493	19847

Extracted Ion Current Profiles

22.468	11867	23.235	7787	22.798	14912	22.046	16817
22.493	10008	23.281	13645	22.834	17176	22.082	8611
22.521	10772	23.343	4782	22.899	21847	22.110	9584
22.556	18017	23.359	5163	22.959	14860	22.138	12259
22.581	19193	23.406	9244	23.003	9649	22.177	13162
22.625	25281	23.453	6980	23.050	16087	22.219	9500
22.666	17263	23.573	28558	23.096	12844	22.255	13987
22.702	11281	23.599	10610	23.132	9847	22.322	22930
22.765	35482	23.630	4924	23.151	18028	22.384	19160
22.790	22330	23.691	9621	23.206	7831	22.451	25203
22.827	12961	23.732	4393	23.246	14028	22.498	6960
22.853	11795	23.781	11541	23.300	11815	22.561	26661
22.875	11905	23.847	7645	23.322	11380	22.607	9134
22.910	17126	23.897	8788	23.379	42015	22.640	17776
22.942	21752	23.960	10112	23.514	20163	22.695	19677
23.026	57350	24.013	6097	23.573	10144	22.781	18163
23.100	16876	24.031	15057	23.601	11462	22.823	23324
23.142	10364	24.100	9416	23.656	12591	22.890	16637
23.160	10783	24.178	12796	23.699	17674	22.947	14031
23.185	15161	24.238	9601	23.787	16363	22.991	19580
23.227	9496	24.315	8336	23.823	13288	23.058	9672
23.248	19590	24.346	5269	23.853	7040	23.083	17455
23.299	10710	24.434	14086	23.886	12439	23.133	4758
23.321	15418	24.470	3159	23.940	13010	23.160	6769
23.372	25656	24.495	8171	23.958	7031	23.178	9467
23.432	14183	24.546	9495	23.999	8904	23.204	14150
23.457	12737	24.569	2641	24.036	9293	23.268	14927
23.502	13967	24.608	5189	24.071	8603	23.307	10498
23.541	23207	24.670	8407	24.104	11734	23.354	15198
23.593	8725	24.699	4682	24.154	10020	23.416	18214
23.662	31277	24.733	4173	24.169	4953	23.494	23530
23.704	7768	24.773	6382	24.229	19338	23.540	10091
23.734	8344	24.806	4976	24.284	7651	23.571	13584
23.748	18705	24.842	4723	24.299	8209	23.620	8630
23.816	6965	24.872	7434	24.334	11470	23.663	13552
23.848	10627	24.936	9665	24.382	14414	23.703	12184
23.886	13340	24.974	5913	24.421	6610	23.739	6821
23.915	12253	25.018	5829	24.447	7237	23.761	14042
23.953	7450	25.053	5599	24.482	4914	23.818	16421
23.984	11992	25.093	15938	24.524	28019	23.868	8394
24.050	20578	25.164	5705	24.615	8399	23.916	15743
24.073	8811	25.200	4787	24.635	10207	23.967	15904
24.100	11180	25.236	4686	24.679	8918	24.012	8548
24.149	9763	25.256	4248	24.714	10943	24.037	9315
24.177	6636	25.299	6100	24.770	14872	24.087	20821
24.216	15028	25.340	7821	24.837	13010	24.170	19878

Extracted Ion Current Profiles

22.981	22190	27.125	3005
23.036	45446	27.193	3187
23.111	28172	27.261	5450
23.147	21981	27.300	2901
23.174	15198	27.334	5847
23.203	22483	27.410	2610
23.245	29356	27.468	4146
23.284	14499	27.531	3527
23.310	13140	27.578	2703
23.345	22842	27.657	5774
23.371	16603	27.690	3750
23.431	30712	27.742	2767
23.481	36265	27.796	2973
23.522	13929	27.845	2882
23.565	44510	28.071	6365
23.650	32470	28.223	2926
23.683	18651	28.291	2831
23.725	16211	28.345	2524
23.767	23858	28.404	2729
23.807	36701	28.529	4468
23.875	21159	28.582	3636
23.934	15747	28.675	3494
23.983	25764	28.829	4043
24.030	20014	28.896	4173
24.092	16022	28.929	3099
24.111	17378	29.027	3062
24.150	19236	29.081	2723
24.188	11419	29.119	3542
24.221	17787	29.283	5942
24.248	10544	29.411	2950
24.274	10776	29.623	3160
24.307	15606	29.743	2913
24.361	23133	29.807	2649
24.399	12818	29.848	4283
24.439	14842	30.006	3431
24.470	9739	30.080	2959
24.498	9224	30.144	3053
24.520	10561	30.237	3738
24.558	16246	30.314	2696
24.583	12315	30.589	4309
24.607	16498	30.734	2679
24.645	25951	30.894	2616
24.717	13924	31.132	3259
24.743	9285	31.274	3014
24.802	30909	31.624	2503
24.825	18827	31.664	2521

30.390	4576	23.548	62418
30.456	3127	23.620	42567
30.492	2742	23.697	15031
30.555	2552	23.722	24172
30.624	4365	23.776	28065
30.687	2735	23.814	34906
30.714	2950	23.878	24245
30.866	4605	23.935	34775
30.900	4331	23.999	60649
30.965	3253	24.096	26913
31.076	3276	24.138	21987
31.118	3036	24.193	34832
31.167	3497	24.276	27969
31.281	3180	24.326	23247
31.311	2922	24.355	15958
31.374	3646	24.393	22133
31.442	2977	24.437	21161
31.517	2863	24.472	13381
31.586	2733	24.503	14495
31.631	3654	24.553	34975
31.875	5273	24.601	22754
32.005	2593	24.666	45021
32.128	3063	24.737	28218
32.194	4429	24.825	22544
32.445	2577	24.874	33940
32.624	2770	24.918	24526
32.672	2688	24.975	14272
32.781	2843	25.023	20189
32.953	2515	25.068	33233
33.119	2943	25.147	26395
		25.200	16720
		25.244	22576
		25.300	12995
		25.334	17781
		25.369	7973
		25.403	13360
		25.470	23276
		25.504	12000
		25.571	23400
		25.600	10020
		25.643	17442
		25.684	25228
		25.725	19530
		25.803	19975
		25.850	19476
		25.896	17331

Extracted Ion Current Profiles

24.248	6886	25.397	6787	24.871	11807	24.223	14601
24.274	6988	25.453	5795	24.920	11421	24.262	10371
24.304	12606	25.500	4641	24.954	8449	24.306	15719
24.350	7625	25.536	7189	24.974	4365	24.358	11124

Extracted Ion Current Profiles

24.866	15715	31.880	5172	25.952	6818
24.903	10188	32.144	2557	25.987	16037
24.940	15229	32.258	3294	26.020	9304
24.965	13862	32.523	2821	26.063	10775

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 292		m/z 290		m/z 220		m/z 222		m/z 360		m/z 362	
13.331	5271	18.344	3672	9.211	18007	12.786	13144	30.248	2733	26.746	2652
18.350	2815	18.511	2730	11.321	2930	13.003	24876	30.711	2772	29.087	3120
18.413	3060	18.554	2887	12.054	2689	13.338	1963535	31.099	2517	32.239	2908
18.526	4429	18.617	5425	13.339	154235	13.834	2820	35.277	3307	32.384	2629
18.582	3236	18.832	2764	13.718	2913	14.141	2796	36.291	2605	33.957	2705
18.636	2571	18.908	3214	14.178	2884	14.430	4564	38.204	2569	35.453	2913
18.947	2619	18.954	3193	14.360	2667	14.861	17026			36.089	4896
19.078	3370	19.005	3689	14.852	3235	14.968	6790			36.370	3536
19.103	3671	19.140	3841	15.024	3073	15.048	3005			36.496	2623
19.178	3793	19.259	3943	15.329	4880	15.102	2795			36.799	2642
19.236	2766	19.302	2747	15.458	2699	15.193	5832			37.983	2514
19.296	3095	19.363	5089	15.521	3828	15.285	24447			38.100	2800
19.412	3720	19.435	3425	15.615	3523	15.459	4744			38.291	2888
19.651	8969	19.523	2749	15.720	2534	15.483	6994			38.630	2856
19.804	3485	19.578	2578	15.768	3076	15.601	4715			38.784	3494
19.850	3700	19.683	3398	15.816	8897	15.629	5692			38.936	2629
20.043	3365	19.767	2814	15.900	4202	15.683	7095			39.004	2843
20.109	3324	19.788	2531	15.999	48796	15.781	2795			39.282	2637
20.170	4902	19.848	6399	16.096	5080	15.813	5405			39.339	2906
20.215	3366	19.878	5192	16.166	3523	15.998	361523			39.455	2896
20.284	5139	20.052	6675	16.248	4461	16.116	4606			39.683	2690
20.318	2591	20.121	4811	16.333	4561	16.144	5953			39.789	2762
20.362	4797	20.159	5970	16.436	15486	16.173	4118			39.892	2517
20.393	2565	20.218	2590	16.511	2905	16.219	3549			40.410	2892
20.537	3546	20.255	3527	16.542	2830	16.309	6114			40.483	3310
20.583	3488	20.284	3675	16.610	4371	16.342	3587			40.691	2676
20.669	6000	20.327	3187	16.642	3297	16.393	7903			40.864	3099
20.749	6090	20.393	4235	16.724	3667	16.433	8946			41.289	2631
20.787	4100	20.420	3777	16.755	3981	16.475	2517			41.401	3598
20.822	3118	20.487	4834	16.817	6361	16.546	15496			41.805	2609
20.853	3007	20.553	4358	16.845	2866	16.597	4501			41.864	3124
20.904	2673	20.579	2504	16.871	3876	16.643	3719			42.397	5884
20.935	5139	20.617	6669	16.929	8024	16.699	6259			42.551	3891
20.974	2613	20.673	5662	16.978	5716	16.789	8312			43.096	3129
21.037	3402	20.751	5013	17.038	11067	16.811	5521			43.632	2844
21.073	3950	20.788	2619	17.104	4178	16.891	13915			43.767	3150
21.133	3210	20.864	8949	17.133	4098	16.955	3592			43.841	3031
21.168	4829	20.901	3168	17.187	9290	17.009	11785			43.903	2754
21.222	2852	20.952	7208	17.235	3466	17.042	4609			44.364	2945
21.289	5171	21.000	3619	17.272	6939	17.126	13659			44.795	3312
21.329	4720	21.053	5949	17.333	5407	17.143	6549				
21.388	4896	21.104	5882	17.369	3234	17.199	7577				

Tetrachlorobiphenyls									
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 288		m/z 324		m/z 326		m/z 328		m/z 289	
17.286	2677	22.369	3912	13.348	3578	22.900	2868	17.420	3034
17.763	3810	25.029	3106	23.590	2708	23.251	2513	18.284	4121
18.002	2782	25.314	2766	23.654	2778	23.813	3937	18.313	3213
18.050	3262	25.576	3018	24.125	2798	23.913	3969	18.370	3321
18.176	2774	25.672	4748	24.319	2591	24.484	5119	18.712	3194
18.312	2526	26.152	3066	24.412	3195	24.935	3520	18.808	3272
18.328	2783	26.315	3649	24.465	4067	25.011	3848	18.857	2533
18.484	4445	26.519	2783	24.606	2688	25.088	2523	18.966	3637
18.536	2703	26.614	4832	24.743	3024	25.260	2848	19.031	4868
18.563	3913	26.912	3400	24.921	2685	25.384	2730	19.113	3436
18.618	2757	26.990	3031	24.991	3355	25.414	3248	19.163	4206
18.674	2616	27.030	2746	25.137	4067	25.522	3101	19.251	2728
18.698	3106	27.317	2603	25.250	3182	25.569	3249	19.292	4066
18.745	2605	27.373	2881	25.518	5860	25.636	2758	19.346	3755
18.793	3163	27.409	2858	25.610	3346	25.678	3028	19.393	3091
18.829	4120	27.446	2795	25.895	3116	25.723	4502	19.429	3149
18.863	3957	27.483	2921	25.996	3751	25.905	4996	19.496	4430
18.930	3298	27.568	5145	26.104	3208	25.991	3212	19.541	5163
18.966	5442	27.635	2826	26.196	3384	26.066	2702	19.602	4107
19.094	3441	27.701	2936	26.268	2937	26.104	3084	19.752	4507
19.129	3362	27.744	2860	26.343	4952	26.150	3647	19.786	3400
19.160	3177	27.819	3298	26.516	6983	26.224	2673	19.836	3944
19.181	2996	27.904	2974	26.695	3142	26.360	6659	19.865	3341
19.205	3293	27.962	3240	26.748	2688	26.424	4148	19.904	2808
19.231	3122	27.998	2597	26.791	4823	26.462	3026	19.938	4492
19.257	2982	28.026	2863	26.841	3404	26.524	8339	20.015	6954
19.280	2773	28.195	2973	26.927	2773	26.624	3870	20.036	3056
19.305	3315	28.308	2617	27.055	3110	26.686	3025	20.085	3157
19.346	4722	28.344	2540	27.146	3409	26.741	6230	20.108	3148
19.370	3646	28.437	2522	27.233	4024	26.849	4951	20.144	3291
19.434	4742	28.472	3082	27.275	3059	26.941	4708	20.165	2675
19.483	4779	28.583	2993	27.317	2613	27.021	3374	20.190	3508
19.534	8781	28.654	5292	27.496	5547	27.046	3074	20.233	3971
19.580	3924	28.692	2530	27.540	2592	27.092	3075	20.275	4764
19.629	4760	28.734	2624	27.602	3200	27.230	3309	20.318	5059
19.698	5359	28.875	2510	27.692	5970	27.280	2598	20.369	5892
19.741	6577	28.904	2516	27.809	3807	27.314	3252	20.408	5442
19.776	2829	28.961	4021	27.940	4020	27.343	3140	20.430	3452
19.838	9752	29.067	3891	27.989	4077	27.425	3033	20.511	8126
19.889	5147	29.268	3513	28.075	2685	27.470	2676	20.554	6966
19.945	9785	29.442	3341	28.121	2997	27.593	2787	20.632	6940
19.974	3314	29.470	2682	28.147	2659	27.633	3472	20.665	7027

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 326		m/z 324		m/z 254		m/z 256		m/z 258		m/z 392	
13.348	3578	22.369	3912	16.002	4004	15.107	2961	12.110	4059	33.052	2517
23.590	2708	25.029	3106	16.037	3216	15.292	3236	13.486	9633	33.669	2850
23.654	2778	25.314	2766	16.121	2863	15.508	2983	14.566	3980	35.143	2867
24.125	2798	25.576	3018	16.258	4166	15.585	3330	14.814	2818	36.091	4041
24.319	2591	25.672	4748	16.316	3569	15.614	3281	14.964	3211	36.775	2706
24.412	3195	26.152	3066	16.395	4825	15.650	5000	15.083	2741	37.004	3070
24.465	4067	26.315	3649	16.437	3237	15.743	5603	15.110	2975	37.282	2961
24.606	2688	26.519	2783	16.489	3218	15.806	6068	15.218	3280	37.450	3441
24.743	3024	26.614	4832	16.532	3263	15.857	4949	15.280	4768	37.747	3611
24.921	2685	26.912	3400	16.565	2956	15.922	5150	15.404	3056	37.923	3266
24.991	3355	26.990	3031	16.591	4489	15.956	4502	15.430	2604	38.072	2809
25.137	4067	27.030	2746	16.644	6735	16.002	7040	15.479	4517	38.463	2740
25.250	3182	27.317	2603	16.694	5542	16.048	2544	15.532	2942	39.782	3852
25.518	5860	27.373	2881	16.766	2758	16.078	5289	15.574	4701	39.889	2953
25.610	3346	27.409	2858	16.806	4159	16.127	2733	15.656	4538	40.253	3023
25.895	3116	27.446	2795	16.830	4778	16.150	2820	15.696	2988	40.373	2917
25.996	3751	27.483	2921	16.879	5547	16.189	5711	15.771	5458	40.653	3730
26.104	3208	27.568	5145	16.904	3161	16.228	2506	15.815	6596	41.026	2705
26.196	3384	27.635	2826	16.933	3672	16.270	9740	15.921	4295	41.093	3415
26.268	2937	27.701	2936	16.956	5526	16.329	4740	15.956	4347	41.217	3473
26.343	4952	27.744	2860	17.006	5599	16.365	4967	16.000	8527	41.297	2663
26.516	6983	27.819	3298	17.042	6888	16.418	6825	16.066	5726	41.425	2822
26.695	3142	27.904	2974	17.082	2951	16.457	5267	16.115	6872	41.619	3242
26.748	2688	27.962	3240	17.113	5401	16.500	6032	16.198	8496	41.867	3144
26.791	4823	27.998	2597	17.146	3596	16.527	4135	16.236	3625	42.369	4299
26.841	3404	28.026	2863	17.169	3671	16.551	4730	16.275	7185	42.454	4372
26.927	2773	28.195	2973	17.195	3294	16.578	4684	16.317	6405	42.745	4596
27.055	3110	28.308	2617	17.223	5152	16.610	7286	16.394	8707	42.865	3179
27.146	3409	28.344	2540	17.258	5847	16.647	9179	16.419	3187	42.932	3731
27.233	4024	28.437	2522	17.296	3936	16.701	7623	16.440	4671	43.270	3663
27.275	3059	28.472	3082	17.320	3673	16.729	5118	16.477	6559	43.773	3944
27.317	2613	28.583	2993	17.351	6326	16.766	8166	16.521	8495	43.832	3379
27.496	5547	28.654	5292	17.398	11741	16.791	10619	16.566	5837	44.407	3121
27.540	2592	28.692	2530	17.454	6036	16.838	5085	16.597	5355	44.552	3512
27.602	3200	28.734	2624	17.512	8575	16.876	8536	16.637	8500	44.758	2591
27.692	5970	28.875	2510	17.547	8447	16.907	5813	16.688	7972		
27.809	3807	28.904	2516	17.574	5068	16.939	13805	16.744	7474		
27.940	4020	28.961	4021	17.598	4881	16.998	5505	16.776	6093		
27.989	4077	29.067	3891	17.632	6685	17.026	9224	16.816	3921		
28.075	2685	29.268	3513	17.675	7941	17.073	12702	16.840	9678		
28.121	2997	29.442	3341	17.700	5479	17.124	16046	16.885	5754		
28.147	2659	29.470	2682	17.741	7250	17.168	6073	16.939	9557		

Extracted Ion Current Profiles

Pentachlorobiphenyls													
"M3011122"	"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		
m/z 394	m/z 396		m/z 398		m/z 322		m/z 360		m/z 362		m/z 323		
	36.558	2667	36.345	2641	25.225	4047	30.248	2733	26.746	2652	22.658	3087	
	37.883	2647	36.739	2698	25.719	2608	30.711	2772	29.087	3120	22.699	4662	
	37.944	2980			26.606	2594	31.099	2517	32.239	2908	23.839	4560	
	38.377	3143			26.999	3820	35.277	3307	32.384	2629	24.569	2586	
	39.062	2824			37.740	3075	36.291	2605	33.957	2705	25.355	2629	
	39.412	2677					38.204	2569	35.453	2913	25.647	3295	
	39.520	3530							36.089	4896	26.752	2658	
	39.627	2540							36.370	3536	27.037	3228	
	39.795	2983							36.496	2623	27.138	2774	
	39.863	2623							36.799	2642	27.275	3033	
	40.568	3450							37.983	2514	27.367	3379	
	41.158	3756							38.100	2800	27.495	2880	
	42.289	2579							38.291	2888	27.741	2630	
	42.480	3121							38.630	2856	28.258	3240	
	42.617	3441							38.784	3494	28.471	3171	
	43.016	2874							38.936	2629	28.572	2736	
	43.327	2697							39.004	2843	28.804	2993	
	43.607	2967							39.282	2637	28.837	3220	
	43.725	3302							39.339	2906	28.951	2986	
	43.816	2894							39.455	2896	29.083	2804	
	44.205	2635							39.683	2690	29.231	2638	
									39.789	2762	29.304	3435	
									39.892	2517	29.416	3965	
									40.410	2892	29.548	2550	
									40.483	3310	29.653	3919	
									40.691	2676	29.865	4228	
									40.864	3099	29.931	3467	
									41.289	2631	30.010	2964	
									41.401	3598	30.103	5004	
									41.805	2609	30.195	3827	
									41.864	3124	30.343	4005	
									42.397	5884	30.536	4225	
									42.551	3891	30.723	3049	
									43.096	3129	30.904	3977	
									43.632	2844	31.029	3981	
									43.767	3150	31.238	2704	
									43.841	3031	31.391	3911	
									43.903	2754	31.563	3291	
									44.364	2945	31.652	5203	
									44.795	3312	31.812	2973	
											31.881	2724	
											32.085	3443	

Extracted Ion Current Profiles

28.233	2501	29.522	3329	17.764	5668	17.210	14552	16.955	4649
28.419	4560	29.563	5036	17.789	5720	17.249	6507	16.990	13085
28.473	2647	29.699	2502	17.812	5595	17.272	7521	17.060	10510
28.537	2502	29.765	3259	17.838	7601	17.297	11490	17.093	6914
28.604	3910	29.857	3877	17.890	6280	17.344	12655	17.129	10116
28.640	2630	29.939	3006	17.916	4603	17.382	22304	17.153	3239
28.688	3545	29.986	2536	17.952	8883	17.480	19037	17.192	9040
28.752	3162	30.047	4718	17.979	11729	17.512	8007	17.224	7285
28.809	3535	30.293	2770	18.029	8145	17.535	11730	17.256	8907
28.839	3012	30.411	3036	18.094	19313	17.574	7848	17.292	6170
28.895	3470	30.495	3191	18.145	5696	17.599	10874	17.341	17477
28.941	4510	30.553	2827	18.173	21886	17.650	11449	17.377	10555
29.052	2916	30.610	2678	18.284	17208	17.678	9029	17.426	8862
29.245	6219	30.669	4637	18.322	8009	17.712	18600	17.454	8032
29.404	3473	30.763	2951	18.344	7990	17.751	18844	17.477	8846
29.467	2922	30.928	2533	18.370	6989	17.805	8983	17.512	7877
29.518	3435	30.973	3168	18.394	7045	17.823	8873	17.543	10064
29.574	4013	31.268	2695	18.422	7734	17.854	13401	17.611	15539
29.751	2502	31.323	2841	18.445	7707	17.893	16182	17.631	8259
29.844	4117	31.597	2695	18.489	11763	17.929	16163	17.670	15837
29.872	2678	31.881	2529	18.504	10875	17.965	14416	17.708	12158
29.956	3431	31.925	3015	18.565	14538	18.008	9550	17.737	8597
29.979	3703	32.369	2646	18.612	17287	18.038	15241	17.775	10101
30.125	3049	32.478	4151	18.659	19178	18.082	27811	17.840	26783
30.187	4213	32.577	2556	18.726	11515	18.146	20414	17.957	21881
30.320	4429	32.772	2771	18.751	8193	18.180	16520	18.009	20028
30.362	3255	33.228	2957	18.775	10490	18.216	10231	18.073	20280
30.426	3013	33.556	2828	18.800	8902	18.242	9861	18.104	5559
30.554	3039	33.839	3075	18.826	7391	18.269	15202	18.137	21635
30.682	2563	34.199	2777	18.856	17921	18.320	18121	18.200	12260
30.739	2620	34.624	2570	18.904	9984	18.345	12636	18.241	14681
30.773	3583	34.767	2599	18.927	21912	18.372	12063	18.282	14395
30.870	3036	35.706	2680	18.994	13251	18.393	13276	18.333	26456
30.941	3087	36.216	2560	19.026	9381	18.444	26791	18.392	24858
31.165	4322			19.056	8941	18.483	20912	18.447	8828
31.233	3053			19.084	14958	18.518	21250	18.486	16908
31.411	3087			19.116	10251	18.561	26420	18.542	23254
31.585	3036			19.143	10291	18.598	13289	18.595	8146
31.761	2869			19.190	22398	18.624	14096	18.632	29818
31.827	2656			19.218	19914	18.650	23441	18.706	16405
31.930	2714			19.269	9210	18.698	27436	18.738	10211
32.258	2860			19.308	20859	18.737	13435	18.770	15051
32.560	3066			19.344	10348	18.773	33410	18.808	13472
32.663	3209			19.398	27526	18.840	20395	18.846	13676
33.460	2982			19.442	19256	18.885	31011	18.899	17008
33.652	4757			19.475	12394	18.939	29922	18.932	14491

Extracted Ion Current Profiles

32.149	4085
32.292	2754
32.369	2916
32.766	4686
32.840	2745
33.004	2941
33.238	2945
33.335	3422
33.449	3176
33.642	2811
33.789	3438
33.845	2927
34.152	2795
34.351	3151
34.519	2616
34.771	3563
37.426	2620

Extracted Ion Current Profiles

33.896	3528	19.508	39104	18.974	21293	18.958	10179
34.184	2827	19.574	11922	19.003	12741	18.993	11685
34.905	2520	19.599	11995	19.032	12366	19.046	22776
35.178	2513	19.632	18635	19.051	13313	19.100	12405
35.968	2524	19.681	24786	19.091	19784	19.144	17663
36.933	2988	19.720	17426	19.141	36106	19.184	12644
		19.774	24285	19.191	22099	19.211	14881
		19.824	22127	19.229	22649	19.244	19151
		19.875	29190	19.259	15030	19.299	41825
		19.924	17274	19.277	14115	19.403	12212
		19.950	12186	19.339	36842	19.437	12382
		19.979	25365	19.372	15493	19.479	16861
		20.023	11986	19.394	15457	19.523	22903
		20.056	17663	19.426	16314	19.582	25305
		20.096	18449	19.445	15865	19.626	22147
		20.125	12810	19.472	15359	19.705	25101
		20.146	19686	19.495	16109	19.757	21562
		20.208	25946	19.525	25861	19.805	15204
		20.233	19861	19.560	14076	19.863	44189
		20.275	26969	19.611	31146	19.959	14162
		20.332	26593	19.638	17488	19.982	17836
		20.372	13198	19.662	15492	20.042	12466
		20.403	26853	19.686	15198	20.088	21717
		20.480	32141	19.712	15067	20.116	9950
		20.512	19640	19.748	23043	20.166	27637
		20.543	19472	19.777	23131	20.231	29521
		20.587	21865	19.814	15697	20.267	21972
		20.616	14183	19.838	14911	20.331	19302
		20.641	14035	19.864	15881	20.366	12335
		20.683	21240	19.893	23169	20.397	11864
		20.712	22224	19.947	31371	20.437	11088
		20.740	22175	19.999	31667	20.471	8886
		20.780	22130	20.022	16420	20.498	12339
		20.817	20693	20.060	24105	20.588	62510
		20.872	34260	20.085	17191	20.684	12547
		20.915	21538	20.110	15811	20.715	14380
		20.950	15043	20.137	16678	20.754	11648
		20.974	14524	20.159	16934	20.776	3760
		21.004	16117	20.184	24621	20.810	8346
		21.020	16627	20.238	32791	20.833	6952
		21.052	15197	20.276	22836	20.853	9886
		21.071	15570	20.319	22781	20.893	8459
		21.105	22397	20.345	15458	20.939	23577
		21.135	13968	20.390	46047	20.992	8022
		21.161	14149	20.448	21981	21.041	27545
		21.184	15320	20.492	22699	21.085	3403

Extracted Ion Current Profiles

21.209	13224	20.595	181987	21.118	10993
21.237	14162	20.726	24129	21.158	15178
21.271	32838	20.765	25025	21.212	21959
21.321	34167	20.795	32904	21.285	16410
21.358	25537	20.840	17302	21.315	8638
21.418	30975	20.863	25808	21.347	13261
21.470	31154	20.921	50507	21.379	11609
21.493	24407	20.973	13789	21.440	28023
21.530	15129	21.004	14228	21.468	12788
21.553	15737	21.038	23451	21.533	8670
21.603	30848	21.058	15955	21.564	11387
21.629	14208	21.085	14552	21.614	18937
21.655	14109	21.121	28452	21.676	4897
21.682	21844	21.171	23721	21.694	7876
21.726	22798	21.208	38120	21.726	8082
21.752	15318	21.283	31505	21.757	4955
21.815	47284	21.324	33635	21.805	19470
21.889	50357	21.369	36730	21.893	18991
21.933	23834	21.418	14067	21.945	11751
21.962	15577	21.465	37480	21.998	11290
21.991	24281	21.506	14736	22.032	6055
22.029	30187	21.533	28394	22.109	110465
22.089	21434	21.584	23139	22.211	8769
22.122	31603	21.616	14575	22.241	20293
22.158	15350	21.641	13554	22.321	14512
22.185	16690	21.689	28960	22.355	4581
22.221	32319	21.714	15836	22.370	12498
22.291	43212	21.742	29661	22.426	10081
22.322	18606	21.801	32841	22.474	13024
22.349	47359	21.875	27347	22.523	5314
22.407	29980	21.913	21951	22.548	9048
22.462	28239	21.937	14569	22.590	10492
22.524	20882	21.984	28000	22.623	6675
22.542	15698	22.024	24231	22.663	12573
22.590	38859	22.075	23846	22.709	11935
22.637	21928	22.111	12116	22.767	9172
22.667	28777	22.145	17097	22.792	9176
22.720	21280	22.176	13420	22.836	10460
22.756	28561	22.197	19920	22.899	6681
22.816	22420	22.245	20837	22.927	9215
22.839	15292	22.285	21600	22.959	4290
22.862	15020	22.318	29740	23.003	13278
22.887	14783	22.370	33537	23.092	28123
22.913	13136	22.420	11641	23.159	9883
22.946	20783	22.443	11687	23.200	7907
22.981	22190	22.468	11867	23.235	7787

Extracted Ion Current Profiles

23.036	45446	22.493	10008	23.281	13645
23.111	28172	22.521	10772	23.343	4782
23.147	21981	22.556	18017	23.359	5163
23.174	15198	22.581	19193	23.406	9244
23.203	22483	22.625	25281	23.453	6980
23.245	29356	22.666	17263	23.573	28558
23.284	14499	22.702	11281	23.599	10610
23.310	13140	22.765	35482	23.630	4924
23.345	22842	22.790	22330	23.691	9621
23.371	16603	22.827	12961	23.732	4393
23.431	30712	22.853	11795	23.781	11541
23.481	36265	22.875	11905	23.847	7645
23.522	13929	22.910	17126	23.897	8788
23.565	44510	22.942	21752	23.960	10112
23.650	32470	23.026	57350	24.013	6097
23.683	18651	23.100	16876	24.031	15057
23.725	16211	23.142	10364	24.100	9416
23.767	23858	23.160	10783	24.178	12796
23.807	36701	23.185	15161	24.238	9601
23.875	21159	23.227	9496	24.315	8336
23.934	15747	23.248	19590	24.346	5269
23.983	25764	23.299	10710	24.434	14086
24.030	20014	23.321	15418	24.470	3159
24.092	16022	23.372	25656	24.495	8171
24.111	17378	23.432	14183	24.546	9495
24.150	19236	23.457	12737	24.569	2641
24.188	11419	23.502	13967	24.608	5189
24.221	17787	23.541	23207	24.670	8407
24.248	10544	23.593	8725	24.699	4682
24.274	10776	23.662	31277	24.733	4173
24.307	15606	23.704	7768	24.773	6382
24.361	23133	23.734	8344	24.806	4976
24.399	12818	23.748	18705	24.842	4723
24.439	14842	23.816	6965	24.872	7434
24.470	9739	23.848	10627	24.936	9665
24.498	9224	23.886	13340	24.974	5913
24.520	10561	23.915	12253	25.018	5829
24.558	16246	23.953	7450	25.053	5599
24.583	12315	23.984	11992	25.093	15938
24.607	16498	24.050	20578	25.164	5705
24.645	25951	24.073	8811	25.200	4787
24.717	13924	24.100	11180	25.236	4686
24.743	9285	24.149	9763	25.256	4248
24.802	30909	24.177	6636	25.299	6100
24.825	18827	24.216	15028	25.340	7821
24.866	15715	24.248	6886	25.397	6787

Extracted Ion Current Profiles

24.903	10188	24.274	6988	25.453	5795
24.940	15229	24.304	12606	25.500	4641
24.965	13862	24.350	7625	25.536	7189
25.003	8591	24.378	11329	25.585	7800
25.029	9311	24.409	12163	25.637	13745
25.062	15275	24.454	5275	25.757	11775
25.089	13746	24.499	9450	25.803	5939
25.147	18753	24.529	12656	25.846	7481
25.178	13586	24.560	12805	25.911	6347
25.213	7841	24.594	7474	25.958	4963
25.244	12897	24.630	10454	25.993	3986
25.277	13206	24.657	6525	26.028	6670
25.312	11221	24.681	8814	26.061	4284
25.378	14608	24.716	5242	26.102	2631
25.394	7573	24.744	4702	26.132	4304
25.423	9682	24.796	17100	26.163	5293
25.483	11893	24.858	13908	26.191	3107
25.520	9504	24.905	10937	26.227	3785
25.547	6141	24.927	7933	26.261	5484
25.581	8802	24.953	10739	26.334	5866
25.613	8041	24.991	11832	26.373	4945
25.644	5237	25.043	5061	26.421	4377
25.672	5197	25.067	5943	26.465	4142
25.707	9547	25.098	13439	26.511	6782
25.736	14472	25.137	6261	26.557	6974
25.781	6498	25.164	11263	26.603	4283
25.816	9610	25.242	14636	26.633	4228
25.857	9620	25.288	8394	26.680	7343
25.881	6644	25.318	22804	26.718	4018
25.906	5754	25.433	9076	26.765	4339
25.931	4989	25.465	8847	26.804	3151
25.962	6927	25.521	5836	26.868	8863
25.999	7971	25.564	7456	26.917	4368
26.049	11372	25.622	8194	26.973	6398
26.079	4741	25.645	4695	27.018	3592
26.106	6837	25.671	4306	27.064	3270
26.143	4767	25.695	3765	27.107	3152
26.165	7240	25.724	3877	27.138	4793
26.220	12961	25.745	4917	27.186	7387
26.279	7998	25.783	9396	27.235	3528
26.302	7657	25.841	6051	27.279	5496
26.355	8783	25.893	8248	27.330	4421
26.389	5932	25.965	8815	27.365	4910
26.443	6099	26.008	6028	27.430	3952
26.464	9131	26.063	4174	27.467	2587
26.526	7432	26.095	4172	27.501	3063

Extracted Ion Current Profiles

26.593	27192	26.142	4599	27.563	3941
26.610	23479	26.164	3413	27.614	4493
26.649	10926	26.211	6731	27.698	6500
26.689	6519	26.240	3177	27.743	4659
26.728	16839	26.269	3354	27.827	3848
26.782	8277	26.297	7038	27.861	4831
26.819	10577	26.359	8617	27.942	4680
26.884	9288	26.414	5569	27.979	3508
26.917	8614	26.453	3108	28.022	3905
26.947	7457	26.488	5077	28.071	2899
26.984	3881	26.513	3043	28.108	2896
27.008	3275	26.537	3020	28.146	2830
27.069	11057	26.589	8824	28.185	3070
27.147	12508	26.626	4921	28.232	4027
27.184	4266	26.663	3501	28.278	3949
27.213	6231	26.693	5527	28.334	3967
27.257	9316	26.723	3052	28.388	2688
27.306	3198	26.745	2691	28.449	5830
27.350	6762	26.798	3921	28.518	2803
27.403	7672	26.846	4992	28.590	3750
27.431	3921	26.935	2504	28.656	4980
27.455	4244	26.972	5113	28.745	2798
27.486	4312	27.020	3583	28.907	3053
27.502	8109	27.091	5802	28.944	2919
27.553	3935	27.120	2751	28.983	2773
27.583	3905	27.147	4113	29.043	3173
27.600	7738	27.182	3172	29.082	3787
27.651	5116	27.237	3192	29.102	2856
27.686	3118	27.255	3007	29.154	2500
27.725	4636	27.289	3491	29.207	4234
27.747	4710	27.342	3409	29.269	2802
27.781	2904	27.402	4476	29.309	2820
27.819	5262	27.439	4997	29.365	3332
27.867	4044	27.515	3103	29.421	3875
27.901	4969	27.544	6319	29.465	6078
27.941	10028	27.620	2599	29.598	2737
28.010	4843	27.698	2596	29.631	2722
28.076	10380	27.779	3903	29.688	3959
28.150	6198	27.851	3380	29.748	3144
28.168	8293	27.905	2508	29.880	2840
28.245	4686	27.970	3008	29.931	4157
28.300	3043	28.022	4338	30.009	3003
28.368	3277	28.108	3263	30.048	2576
28.388	2675	28.150	2578	30.250	3329
28.417	5711	28.472	3892	30.300	2531
28.466	8318	28.526	3947	30.529	4343

Extracted Ion Current Profiles

28.541	3784	28.582	3237	30.602	3304
28.594	7056	28.782	3290	30.677	2950
28.659	4627	28.838	3264	30.840	3235
28.703	3807	28.999	3913	30.939	3999
28.759	3622	29.148	3316	31.084	2540
28.812	4273	29.180	3065	31.206	3047
28.861	3752	29.459	3632	31.261	2857
28.896	3492	29.582	2689	31.449	3369
28.986	4814	29.817	2771	31.602	2619
29.045	4952	29.880	3254	31.774	3355
29.113	3926	30.183	3049	32.004	3708
29.157	3930	30.397	2590	32.054	3455
29.223	3587	30.907	3224	32.131	3412
29.281	2614	31.003	4284	32.186	4294
29.315	3198	31.512	3269	32.309	2513
29.390	2752	31.784	2990	32.392	2745
29.446	3535	31.877	3255	32.540	2708
29.500	2766	31.965	2605	32.631	2829
29.531	2801	32.131	3469	32.681	2577
29.598	5159	35.630	2718	32.728	2538
29.626	2637	36.115	3608	33.020	2771
29.714	3215	38.016	3622	33.236	4907
29.746	2685	38.065	2671	33.284	2593
29.877	2652			33.341	3893
29.936	3091			33.455	3549
30.069	2984			33.498	2542
30.137	3172			33.665	3040
30.176	5275			33.949	3180
30.257	2534			34.088	3079
30.320	3172			34.175	3953
30.373	2775			34.509	3128
30.662	3432			34.598	3205
30.968	3407			34.766	4394
31.113	13592			34.893	3392
31.297	2691			35.066	2521
32.286	2965			35.260	2753
32.940	3163			35.339	3639
33.384	2768			35.811	3048
36.558	2939			36.100	2863
38.110	2529			36.570	4002
				36.747	2636
				36.838	2738
				37.053	2594
				37.250	3019
				37.298	3083
				37.460	2571

Extracted Ion Current Profiles

37.593	2674
37.989	2506
38.154	2964
38.327	2613
38.490	2819

Extracted Ion Current Profiles

Hexachlorobiphenyls											
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 360		m/z 362		m/z 288		m/z 290		m/z 426		m/z 428	
30.248	2733	26.746	2652	17.286	2677	18.344	3672	43.744	2571	38.281	2705
30.711	2772	29.087	3120	17.763	3810	18.511	2730			38.851	3797
31.099	2517	32.239	2908	18.002	2782	18.554	2887			38.929	2625
35.277	3307	32.384	2629	18.050	3262	18.617	5425			39.349	2602
36.291	2605	33.957	2705	18.176	2774	18.832	2764			41.287	2816
38.204	2569	35.453	2913	18.312	2526	18.908	3214			41.843	2508
		36.089	4896	18.328	2783	18.954	3193			42.186	3177
		36.370	3536	18.484	4445	19.005	3689			42.481	2610
		36.496	2623	18.536	2703	19.140	3841			43.086	3301
		36.799	2642	18.563	3913	19.259	3943			43.137	4910
		37.983	2514	18.618	2757	19.302	2747			43.882	4446
		38.100	2800	18.674	2616	19.363	5089			43.932	2504
		38.291	2888	18.698	3106	19.435	3425			44.038	3653
		38.630	2856	18.745	2605	19.523	2749			44.113	3084
		38.784	3494	18.793	3163	19.578	2578			44.353	4533
		38.936	2629	18.829	4120	19.683	3398			44.454	2900
		39.004	2843	18.863	3957	19.767	2814			44.688	2586
		39.282	2637	18.930	3298	19.788	2531			44.953	3175
		39.339	2906	18.966	5442	19.848	6399				
		39.455	2896	19.094	3441	19.878	5192				
		39.683	2690	19.129	3362	20.052	6675				
		39.789	2762	19.160	3177	20.121	4811				
		39.892	2517	19.181	2996	20.159	5970				
		40.410	2892	19.205	3293	20.218	2590				
		40.483	3310	19.231	3122	20.255	3527				
		40.691	2676	19.257	2982	20.284	3675				
		40.864	3099	19.280	2773	20.327	3187				
		41.289	2631	19.305	3315	20.393	4235				
		41.401	3598	19.346	4722	20.420	3777				
		41.805	2609	19.370	3646	20.487	4834				
		41.864	3124	19.434	4742	20.553	4358				
		42.397	5884	19.483	4779	20.579	2504				
		42.551	3891	19.534	8781	20.617	6669				
		43.096	3129	19.580	3924	20.673	5662				
		43.632	2844	19.629	4760	20.751	5013				
		43.767	3150	19.698	5359	20.788	2619				
		43.841	3031	19.741	6577	20.864	8949				
		43.903	2754	19.776	2829	20.901	3168				
		44.364	2945	19.838	9752	20.952	7208				
		44.795	3312	19.889	5147	21.000	3619				
				19.945	9785	21.053	5949				
				19.974	3314	21.104	5882				

Extracted Ion Current Profiles

Hexachlorobiphenyls															
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
36.906	2940	36.452	3315	20.070	9065	33.052	2517			36.558	2667	36.345	2641	20.083	6054
39.186	2827	38.332	2785	20.614	2912	33.669	2850			37.883	2647	36.739	2698	20.628	3371
39.426	3323	38.627	2570	32.371	2956	35.143	2867			37.944	2980			29.857	2541
40.274	2622	38.733	2758	32.561	2700	36.091	4041			38.377	3143			37.291	4169
40.730	2681	38.902	2593	32.776	2831	36.775	2706			39.062	2824			37.615	2702
41.042	3645	39.530	3208	35.005	2570	37.004	3070			39.412	2677			37.995	3305
42.224	2720	39.698	2767	35.214	2768	37.282	2961			39.520	3530			38.147	2964
42.612	2694	39.767	3711	35.806	2713	37.450	3441			39.627	2540			38.321	3448
42.850	3212	39.882	3248	36.267	2741	37.747	3611			39.795	2983			38.412	3883
43.331	3177	40.249	3139	36.317	2567	37.923	3266			39.863	2623			38.660	3370
43.580	2898	40.620	2610	36.388	3336	38.072	2809			40.568	3450			38.758	3318
43.666	3874	40.905	2664	36.785	3023	38.463	2740			41.158	3756			39.229	3418
43.755	2604	40.970	2569	37.334	2715	39.782	3852			42.289	2579			39.296	2896
43.819	3300	41.316	2603	37.839	2698	39.889	2953			42.480	3121			39.437	2779
43.928	2617	41.471	3500	38.185	2665	40.253	3023			42.617	3441			39.475	2538
44.060	3130	41.643	4089	38.710	3059	40.373	2917			43.016	2874			39.645	2847
44.258	4113	41.754	2827	39.367	2722	40.653	3730			43.327	2697			39.842	3194
44.324	3327	41.815	2807	40.486	2848	41.026	2705			43.607	2967			40.035	2509
44.410	4128	41.966	3435	41.112	3236	41.093	3415			43.725	3302			40.221	3965
44.535	2615	42.005	2638	41.163	2984	41.217	3473			43.816	2894			40.325	3642
44.589	2546	42.206	3865	41.392	2807	41.297	2663			44.205	2635			41.064	3374
44.700	3551	42.274	2558	41.798	3240	41.425	2822							41.141	3308
44.801	3667	42.596	4939	42.139	3173	41.619	3242							41.181	3128
		42.816	3422	42.413	3604	41.867	3144							41.271	2673
		42.914	3859	42.680	2653	42.369	4299							41.321	3558
		43.024	2858	43.522	2689	42.454	4372							41.389	5196
		43.081	4265	43.854	3189	42.745	4596							41.420	3817
		43.145	2826	44.620	2682	42.865	3179							41.556	2996
		43.230	3434			42.932	3731							41.643	2942
		43.319	2884			43.270	3663							41.673	5313
		43.436	2808			43.773	3944							41.802	2824
		43.565	4237			43.832	3379							42.281	5286
		43.644	2538			44.407	3121							42.399	2650
		43.792	2774			44.552	3512							42.498	3461
		43.835	3239			44.758	2591							42.679	2774
		43.901	3463											43.019	2611
		44.130	3238											43.093	2652
		44.181	3263											43.355	3685
		44.369	4522											43.423	3577
		44.495	4099											43.618	2651
		44.570	3317											43.843	3103
		44.614	3124											43.944	2917

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 394		m/z 396		m/z 322		m/z 324		m/z 326		m/z 462	
		36.558	2667	25.225	4047	22.369	3912	13.348	3578	42.593	2981
		37.883	2647	25.719	2608	25.029	3106	23.590	2708	43.864	2940
		37.944	2980	26.606	2594	25.314	2766	23.654	2778	44.262	3066
		38.377	3143	26.999	3820	25.576	3018	24.125	2798		
		39.062	2824	37.740	3075	25.672	4748	24.319	2591		
		39.412	2677			26.152	3066	24.412	3195		
		39.520	3530			26.315	3649	24.465	4067		
		39.627	2540			26.519	2783	24.606	2688		
		39.795	2983			26.614	4832	24.743	3024		
		39.863	2623			26.912	3400	24.921	2685		
		40.568	3450			26.990	3031	24.991	3355		
		41.158	3756			27.030	2746	25.137	4067		
		42.289	2579			27.317	2603	25.250	3182		
		42.480	3121			27.373	2881	25.518	5860		
		42.617	3441			27.409	2858	25.610	3346		
		43.016	2874			27.446	2795	25.895	3116		
		43.327	2697			27.483	2921	25.996	3751		
		43.607	2967			27.568	5145	26.104	3208		
		43.725	3302			27.635	2826	26.196	3384		
		43.816	2894			27.701	2936	26.268	2937		
		44.205	2635			27.744	2860	26.343	4952		
						27.819	3298	26.516	6983		
						27.904	2974	26.695	3142		
						27.962	3240	26.748	2688		
						27.998	2597	26.791	4823		
						28.026	2863	26.841	3404		
						28.195	2973	26.927	2773		
						28.308	2617	27.055	3110		
						28.344	2540	27.146	3409		
						28.437	2522	27.233	4024		
						28.472	3082	27.275	3059		
						28.583	2993	27.317	2613		
						28.654	5292	27.496	5547		
						28.692	2530	27.540	2592		
						28.734	2624	27.602	3200		
						28.875	2510	27.692	5970		
						28.904	2516	27.809	3807		
						28.961	4021	27.940	4020		
						29.067	3891	27.989	4077		
						29.268	3513	28.075	2685		
						29.442	3341	28.121	2997		
						29.470	2682	28.147	2659		

Extracted Ion Current Profiles

Heptachlorobiphenyls													
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 464		m/z 466		m/z 390		m/z 428		m/z 430		m/z 432		m/z 391	
43.354	2897	40.254	2898	34.655	2605	38.281	2705	36.906	2940	36.452	3315	22.162	2501
43.596	3028	40.609	3087	35.343	2735	38.851	3797	39.186	2827	38.332	2785	22.234	2710
43.876	3101	40.955	2941	35.542	2576	38.929	2625	39.426	3323	38.627	2570	23.137	2513
43.997	3143	42.623	2634	35.979	3374	39.349	2602	40.274	2622	38.733	2758	26.613	5505
44.069	2774	42.884	4007	36.422	3204	41.287	2816	40.730	2681	38.902	2593	26.685	4222
44.704	3230	43.091	3282	36.896	3298	41.843	2508	41.042	3645	39.530	3208	26.789	4449
44.960	3406	43.203	3335	37.158	2558	42.186	3177	42.224	2720	39.698	2767	26.895	3082
		43.399	3637	37.284	5733	42.481	2610	42.612	2694	39.767	3711	34.374	2597
		43.493	2876	37.861	3215	43.086	3301	42.850	3212	39.882	3248	36.234	2742
		43.905	3302	38.122	3277	43.137	4910	43.331	3177	40.249	3139	36.851	2849
		43.963	3906	38.424	3555	43.882	4446	43.580	2898	40.620	2610	37.117	2723
		44.207	2637	38.543	2615	43.932	2504	43.666	3874	40.905	2664	37.801	2628
		44.435	3036	38.648	2632	44.038	3653	43.755	2604	40.970	2569	38.094	2796
		44.492	4467	38.701	3020	44.113	3084	43.819	3300	41.316	2603	39.593	2581
		44.612	5347	38.919	3517	44.353	4533	43.928	2617	41.471	3500	39.768	3176
		44.745	2505	38.999	2773	44.454	2900	44.060	3130	41.643	4089	39.828	2533
		44.953	3110	39.051	2775	44.688	2586	44.258	4113	41.754	2827	40.043	2794
				39.080	2979	44.953	3175	44.324	3327	41.815	2807	40.323	2617
				39.278	4227			44.410	4128	41.966	3435	40.482	2597
				39.427	4760			44.535	2615	42.005	2638	40.784	2689
				39.611	2623			44.589	2546	42.206	3865	40.870	2538
				39.707	2935			44.700	3551	42.274	2558	40.949	2504
				39.786	3015			44.801	3667	42.596	4939	41.030	2793
				39.850	3050					42.816	3422	41.162	3864
				39.897	2832					42.914	3859	41.323	2624
				39.947	3341					43.024	2858	41.928	2819
				39.994	2828					43.081	4265	42.404	3030
				40.277	3943					43.145	2826	42.906	3834
				40.302	2804					43.230	3434	43.037	2695
				40.424	2989					43.319	2884	43.929	2671
				40.499	3001					43.436	2808	44.143	2554
				40.651	2920					43.565	4237	44.573	3588
				40.749	3376					43.644	2538	44.899	3447
				40.946	2795					43.792	2774		
				40.998	3736					43.835	3239		
				41.056	4595					43.901	3463		
				41.118	3069					44.130	3238		
				41.541	2659					44.181	3263		
				41.587	4095					44.369	4522		
				41.717	2659					44.495	4099		
				41.797	4217					44.570	3317		
				41.919	3459					44.614	3124		

Extracted Ion Current Profiles

Octachlorobiphenyls											
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462	
36.906	2940	38.281	2705	20.070	9065	29.519	2994	30.248	2733	42.593	2981
39.186	2827	38.851	3797	20.614	2912	29.964	3117	30.711	2772	43.864	2940
39.426	3323	38.929	2625	32.371	2956	30.815	2714	31.099	2517	44.262	3066
40.274	2622	39.349	2602	32.561	2700	30.924	2649	35.277	3307		
40.730	2681	41.287	2816	32.776	2831	31.125	2527	36.291	2605		
41.042	3645	41.843	2508	35.005	2570	31.573	2633	38.204	2569		
42.224	2720	42.186	3177	35.214	2768	32.144	2506				
42.612	2694	42.481	2610	35.806	2713	32.523	4915				
42.850	3212	43.086	3301	36.267	2741	32.688	3116				
43.331	3177	43.137	4910	36.317	2567	32.813	2754				
43.580	2898	43.882	4446	36.388	3336	32.969	3892				
43.666	3874	43.932	2504	36.785	3023	33.326	2627				
43.755	2604	44.038	3653	37.334	2715	33.969	2871				
43.819	3300	44.113	3084	37.839	2698	34.286	3108				
43.928	2617	44.353	4533	38.185	2665	34.507	3292				
44.060	3130	44.454	2900	38.710	3059	35.033	2651				
44.258	4113	44.688	2586	39.367	2722	35.288	2612				
44.324	3327	44.953	3175	40.486	2848	35.408	2603				
44.410	4128			41.112	3236	35.896	2767				
44.535	2615			41.163	2984	36.045	2721				
44.589	2546			41.392	2807	36.837	3075				
44.700	3551			41.798	3240	37.059	2520				
44.801	3667			42.139	3173	37.437	3723				
				42.413	3604	37.552	3299				
				42.680	2653	37.953	3980				
				43.522	2689	38.019	3272				
				43.854	3189	38.256	2731				
				44.620	2682	38.301	4314				
						38.714	4186				
						38.832	3386				
						38.906	2965				
						39.261	3934				
						39.332	2686				
						39.429	3285				
						39.525	4727				
						39.595	2667				
						39.783	3034				
						39.871	3274				
						39.947	2898				
						40.181	2591				
						40.334	3919				
						40.438	2530				

Extracted Ion Current Profiles

Octachlorobiphenyls					
"M3011122"		"M3011122"		"M3011122"	
m/z 464		m/z 466		m/z 425	
43.354	2897	40.254	2898	38.112	2507
43.596	3028	40.609	3087	38.543	2633
43.876	3101	40.955	2941	39.311	2755
43.997	3143	42.623	2634	39.427	2586
44.069	2774	42.884	4007	39.941	2885
44.704	3230	43.091	3282	40.126	3231
44.960	3406	43.203	3335	40.492	2989
		43.399	3637	41.125	3120
		43.493	2876	41.188	3651
		43.905	3302	41.988	3345
		43.963	3906	42.067	3080
		44.207	2637	42.599	2533
		44.435	3036	42.626	2740
		44.492	4467	42.841	2538
		44.612	5347	43.037	4199
		44.745	2505	43.237	2586
		44.953	3110	43.270	2504
				43.484	2887
				43.746	2920
				43.784	2904
				44.242	2609
				44.424	3050
				44.483	2742
				44.596	2615
				44.657	2755
				44.698	2718
				44.861	3563

Extracted Ion Current Profiles

Nonachlorobiphenyls								
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"
m/z 464		m/z 466		m/z 390		m/z 392		m/z 394
43.354	2897	40.254	2898	34.655	2605	33.052	2517	
43.596	3028	40.609	3087	35.343	2735	33.669	2850	
43.876	3101	40.955	2941	35.542	2576	35.143	2867	
43.997	3143	42.623	2634	35.979	3374	36.091	4041	
44.069	2774	42.884	4007	36.422	3204	36.775	2706	
44.704	3230	43.091	3282	36.896	3298	37.004	3070	
44.960	3406	43.203	3335	37.158	2558	37.282	2961	
		43.399	3637	37.284	5733	37.450	3441	
		43.493	2876	37.861	3215	37.747	3611	
		43.905	3302	38.122	3277	37.923	3266	
		43.963	3906	38.424	3555	38.072	2809	
		44.207	2637	38.543	2615	38.463	2740	
		44.435	3036	38.648	2632	39.782	3852	
		44.492	4467	38.701	3020	39.889	2953	
		44.612	5347	38.919	3517	40.253	3023	
		44.745	2505	38.999	2773	40.373	2917	
		44.953	3110	39.051	2775	40.653	3730	
				39.080	2979	41.026	2705	
				39.278	4227	41.093	3415	
				39.427	4760	41.217	3473	
				39.611	2623	41.297	2663	
				39.707	2935	41.425	2822	
				39.786	3015	41.619	3242	
				39.850	3050	41.867	3144	
				39.897	2832	42.369	4299	
				39.947	3341	42.454	4372	
				39.994	2828	42.745	4596	
				40.277	3943	42.865	3179	
				40.302	2804	42.932	3731	
				40.424	2989	43.270	3663	
				40.499	3001	43.773	3944	
				40.651	2920	43.832	3379	
				40.749	3376	44.407	3121	
				40.946	2795	44.552	3512	
				40.998	3736	44.758	2591	
				41.056	4595			
				41.118	3069			
				41.541	2659			
				41.587	4095			
				41.717	2659			
				41.797	4217			
				41.919	3459			

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3011122"		"M3011122"		"M3011122"		"M3011122"		"M3011122"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
				34.451	2834	43.744	2571	38.281	2705	36.906	2940
				35.040	2739			38.851	3797	39.186	2827
				42.427	4824			38.929	2625	39.426	3323
				42.815	2615			39.349	2602	40.274	2622
				43.054	2784			41.287	2816	40.730	2681
				43.174	2654			41.843	2508	41.042	3645
				43.915	3046			42.186	3177	42.224	2720
				44.049	3619			42.481	2610	42.612	2694
				44.183	3614			43.086	3301	42.850	3212
				44.385	4531			43.137	4910	43.331	3177
				44.732	2603			43.882	4446	43.580	2898
				44.906	2510			43.932	2504	43.666	3874
								44.038	3653	43.755	2604
								44.113	3084	43.819	3300
								44.353	4533	43.928	2617
								44.454	2900	44.060	3130
								44.688	2586	44.258	4113
								44.953	3175	44.324	3327
										44.410	4128
										44.535	2615
										44.589	2546
										44.700	3551
										44.801	3667

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011122"		"M3011122"				"M3011122"		"M3011122"			"M3011122"		"M3011122"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.329	15657	11.184	1719	424	240	18.163	39226	17.160	37113	188	9.911	2968	7.798	2501
11.969	1097	11.308	1417	426	241	18.550	38553	17.252	40950	189	10.270	3173	7.870	2767
12.104	29142	11.521	672	428		18.616	42804	17.704	80663		11.330	23271	8.817	4875
12.381	2441	11.652	654	430		18.987	34053	17.896	45278		12.102	6449	9.211	10892
12.554	693	11.961	944	498		19.189	43434	17.932	40578		12.548	3536	11.324	4821
12.617	916	12.109	1908	500		19.277	50399	17.992	35496		12.616	3147	11.399	3779
12.686	2197	12.654	667			19.373	51917	18.078	54229		13.070	2784	11.528	2532
12.774	967	12.916	620			19.462	40012	18.113	42552		13.201	4696	11.625	3097
12.864	1134	12.957	737			19.628	33364	18.207	38819		13.333	32188	12.096	3141
12.976	1457	13.010	669			34.269	268679	18.303	38484		13.493	3121	12.193	2591
13.049	5850	13.082	1295					18.419	50487		13.623	2955	12.300	2775
13.150	1788	13.136	543					18.537	75969		13.745	4876	12.359	3944
13.202	1829	13.181	739					18.618	36932		13.822	4672	12.491	2932
13.279	1949	13.209	1187					18.661	39878		13.850	4426	12.646	4441
13.338	4595	13.394	742					18.805	40048		13.921	2943	12.675	4794
13.381	944	13.448	1078					18.871	43847		14.008	3848	12.786	6239
13.411	1173	13.488	1610					18.905	52184		14.077	3749	12.923	4361
13.470	1214	13.560	1638					18.984	35517		14.145	2647	13.003	12520
13.491	945	13.593	740					19.065	36490		14.183	3677	13.131	5928
13.533	1555	13.638	2311					19.177	46662		14.271	3109	13.208	9338
13.592	2361	13.712	2033					19.313	44736		14.333	3724	13.338	195755
13.634	2558	13.747	1946					19.367	45909		14.356	2900	13.450	3929
13.696	1387	13.800	2007					19.457	38415		14.422	5255	13.521	4656
13.761	2706	13.906	4422					19.555	44313		14.497	4706	13.589	6404
13.817	1528	13.930	570					19.609	51217		14.533	3893	13.606	4433
13.840	1781	13.964	1139					19.654	62299		14.662	6277	13.673	3644
13.915	3396	13.976	822					19.725	48370		14.712	3913	13.751	8592
13.959	2965	14.017	1534					34.272	47504(M)		14.744	6937	13.835	3987
14.016	3058	14.049	1494								14.870	5207	13.907	5936
14.060	2075	14.113	3447								14.951	6513	13.976	5319
14.096	3213	14.137	665								14.984	4260	14.077	10133
14.135	1734	14.170	1963								15.062	6686	14.109	4908
14.168	3068	14.205	798								15.140	6044	14.146	8170
14.213	1936	14.231	3198								15.207	7007	14.250	13595
14.241	1898	14.283	1556								15.256	4199	14.330	6888
14.276	2705	14.315	3390								15.296	3176	14.395	8260
14.308	2785	14.377	3513								15.348	6679	14.449	10290
14.353	2439	14.416	2932								15.393	7502	14.547	11171
14.367	2128	14.428	1830								15.468	6589	14.587	4478
14.441	4775	14.475	2582								15.551	7154	14.619	5668
14.470	2550	14.516	3336								15.584	3451	14.647	5386
14.508	2770	14.527	1229								15.612	4402	14.689	4798

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.616	8955	42.616	9882
512				

Extracted Ion Current Profiles

14.534	2786	14.556	3190
14.565	2877	14.604	3943
14.609	3451	14.647	4339
14.639	4615	14.697	5354
14.690	3657	14.739	3545
14.729	3154	14.799	5669
14.778	5255	14.848	5128
14.828	3531	14.913	6995
14.856	4233	14.972	5851
14.892	2525	15.046	14516
14.935	6379	15.102	4523
14.968	5416	15.148	6919
15.005	4554	15.189	6268
15.056	19573	15.235	3733
15.136	10742	15.274	8450
15.256	11889	15.328	9721
15.322	6594	15.384	6009
15.384	15046	15.418	5569
15.457	3002	15.444	5731
15.481	7940	15.474	6091
15.516	7909	15.516	5847
15.605	13026	15.540	8135
15.615	9709	15.620	18256
15.678	8237	15.668	3759
15.704	6163	15.693	9265
15.783	11629	15.739	9039
15.838	8322	15.783	8425

15.663	3389	14.725	5393
15.683	3987	14.760	3492
15.812	272011	14.847	16937
15.931	10996	14.874	6670
15.998	18980	14.909	5302
16.055	6916	14.927	3088
16.096	5346	14.985	12991
16.174	10340	15.046	11219
16.212	10865	15.082	2860
16.290	8636	15.102	6962
16.319	13511	15.168	10420
16.407	2988	15.202	5660
16.445	6758	15.244	10285
16.486	8101	15.284	7612
16.522	4746	15.324	8310
16.535	4299	15.392	23455
16.562	2985	15.453	18315
16.592	3745	15.513	7800
16.636	9850	15.541	6108
16.686	7895	15.580	10386
16.722	5597	15.632	7722
16.762	5271	15.655	6297
16.789	4366	15.688	6621
16.827	8787	15.715	7785
16.899	8659	15.811	79363
16.928	7966	15.996	93819
17.003	8559	16.122	20708

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: C-28
Lab Sample ID: 12010053-10 (AP00235)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-314-23	PCBs by EPA Method TO-4A/680	01/12/2012 02:16	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16875	EPA 3540C	01/05/2012 15:30	HAG	384.60m³	1.00 mL	NA

Analyte	CAS No.	Result (ug/m³)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.0000260	2.00	U	MS03-314-23
Dichlorobiphenyl	25512-42-9	ND	0.0000260	2.00	U	MS03-314-23
Trichlorobiphenyl	25323-68-6	**0.00544**	0.0000260	2.00		MS03-314-23
Tetrachlorobiphenyl	26914-33-0	ND	0.0000520	2.00	U	MS03-314-23
Pentachlorobiphenyl	25429-29-2	ND	0.0000520	2.00	U	MS03-314-23
Hexachlorobiphenyl	26601-64-9	ND	0.0000520	2.00	U	MS03-314-23
Heptachlorobiphenyl	28655-71-2	ND	0.0000780	2.00	U	MS03-314-23
Octachlorobiphenyl	55722-26-4	ND	0.0000780	2.00	U	MS03-314-23
Nonachlorobiphenyl	53742-07-7	ND	0.000130	2.00	U	MS03-314-23
Decachlorobiphenyl	2051-24-3	ND	0.000130	2.00	U	MS03-314-23
Total PCB	1336-36-3	**0.00544**		2.00		MS03-314-23

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	73.1	42.5-134		MS03-314-23
Tetrachloro-meta-xylene	877-09-8	150	17.9-137	*	MS03-314-23

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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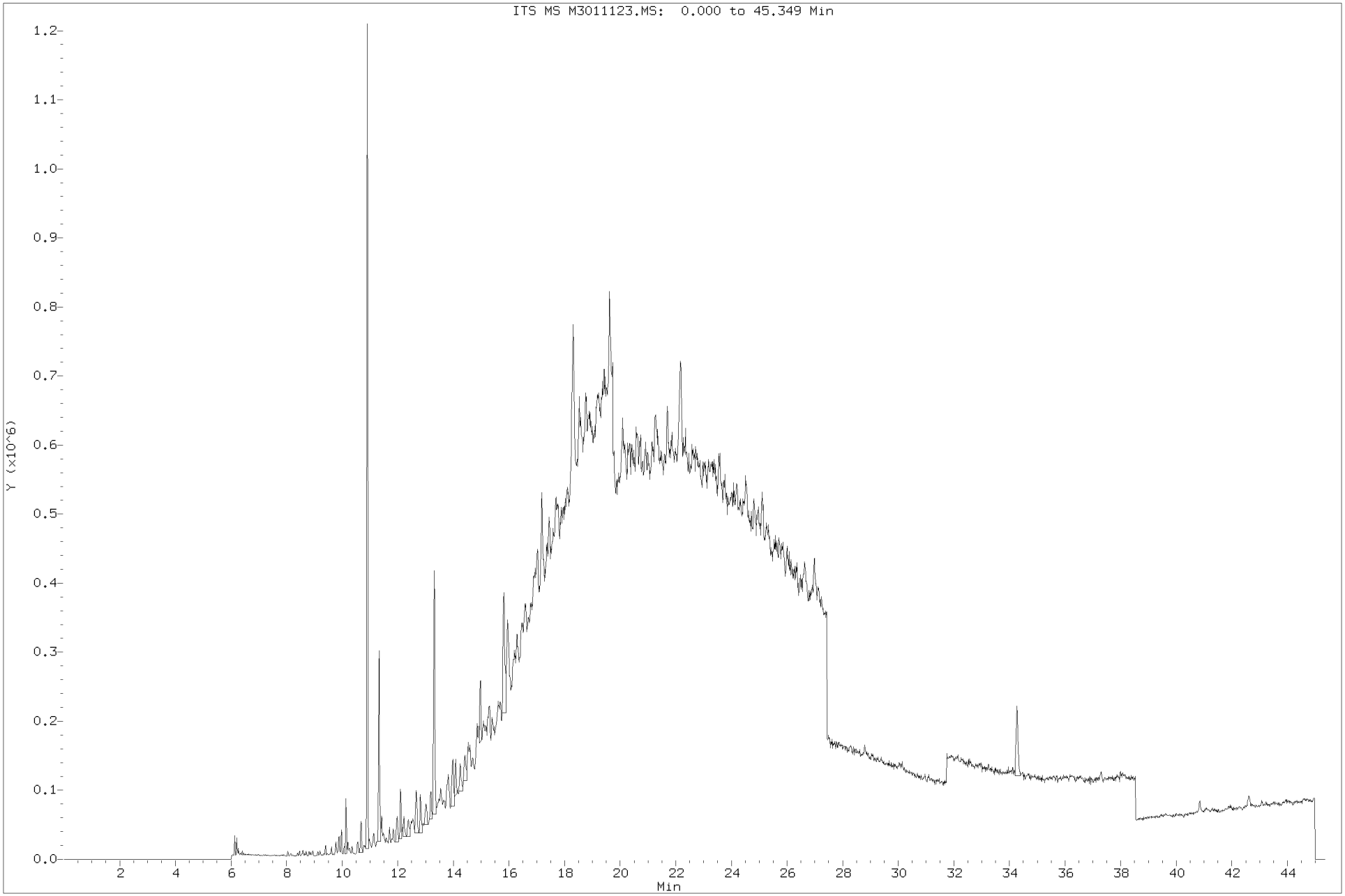
Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011123.d/M3011123.MS
Injection Date: 12-JAN-2012 02:16
Instrument: GCMS03.i
Client Sample ID: C-28



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	C-28
Matrix:	TO-4A PUF	Lab Sample ID:	AP00235
Sample weight:	384.6 cubic m	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/12/2012
Dilution Factor:	2	Time Analyzed:	2:16

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug/m^3	ug/m^3	ug/m^3	
				Mono Total:		0.0000260	0.0000260	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug/m^3	ug/m^3	ug/m^3	
				Di Total:		0.0000260	0.0000260	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug/m^3	ug/m^3	ug/m^3	
17.819	8299	17.817	7641	1.1	0.9390	0.0000260	0.0000260	0.000160	
17.878	12367	17.891	11192	1.1	0.9390	0.0000260	0.0000260	0.000239	
17.956	9560	17.956	10053	1.0	0.9390	0.0000260	0.0000260	0.000150	
18.184	11444	18.168	11958	1.0	0.9390	0.0000260	0.0000260	0.000176	
18.361	10675	18.358	12076	0.9	0.9390	0.0000260	0.0000260	0.000156	
18.539	11587	18.541	11690	1.0	0.9390	0.0000260	0.0000260	0.000165	
18.656	12385	18.642	13069	0.9	0.9390	0.0000260	0.0000260	0.000184	
18.743	19113	18.740	21235	0.9	0.9390	0.0000260	0.0000260	0.000369	
18.766	12793	18.780	12904	1.0	0.9390	0.0000260	0.0000260	0.000202	
18.955	18316	18.939	17319	1.1	0.9390	0.0000260	0.0000260	0.000310	
19.041	11395	19.044	11761	1.0	0.9390	0.0000260	0.0000260	0.000180	
19.348	17837	19.362	14922	1.2	0.9390	0.0000260	0.0000260	0.000313	
19.412	14186	19.407	15451	0.9	0.9390	0.0000260	0.0000260	0.000187	
19.544	22562	19.546	19409	1.2	0.9390	0.0000260	0.0000260	0.000358	
19.664	16007	19.674	15941	1.0	0.9390	0.0000260	0.0000260	0.000274	
20.124	14549	20.134	13406	1.1	0.9390	0.0000260	0.0000260	0.000227	
20.249	13492	20.239	14516	0.9	0.9390	0.0000260	0.0000260	0.000225	
20.694	12509	20.702	14875	0.8	0.9390	0.0000260	0.0000260	0.000159	
20.904	14238	20.913	12393	1.1	0.9390	0.0000260	0.0000260	0.000115	
21.005	12698	21.018	11917	1.1	0.9390	0.0000260	0.0000260	0.000204	
21.152	12739	21.174	13674	0.9	0.9390	0.0000260	0.0000260	0.000197	
21.336	12704	21.347	11221	1.1	0.9390	0.0000260	0.0000260	0.000181	
21.436	18148	21.442	16810	1.1	0.9390	0.0000260	0.0000260	0.000312	
21.558	24934	21.533	21826	1.1	0.9390	0.0000260	0.0000260	0.000397	
				Tri Total:		0.0000260	0.0000260	0.00544	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Tetra Total:		0.0000520	0.0000520	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug/m^3	ug/m^3	ug/m^3	
				Penta Total:		0.0000520	0.0000520	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug/m^3	ug/m^3	ug/m^3	
				Hexa Total:		0.0000520	0.0000520	ND	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Hepta Total:		0.0000780	0.0000780	ND	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Octa Total:		0.0000780	0.0000780	ND	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Nona Total:		0.000130	0.000130	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
				Deca Total:		0.000130	0.000130	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL	
11.972	880	12.099	614	1.4	0.2041		0.0150	
				TCMX Total:			0.0150	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.617	10667	42.613	8515	1.3	1.0171		0.0366	
				Deca Total:			0.0366	

TCMX Recovery %	150 %
Deca Recovery	73.1 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.269	229427	34.264	41199	5.6	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Monochlorobiphenyls							
"M3011123"		"M3011123"		"M3011123"		"M3011123"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
10.272	2811	10.907	3711	6.137	3081	9.401	6788
10.907	7677	12.990	4529	6.207	3379	9.616	5234
11.327	15626	13.311	11214	9.402	8412	9.774	4369
12.094	4272	13.681	3002	9.617	6498	9.974	3854
12.555	2768	14.294	2572	9.772	2529	10.138	5113
13.314	3306	14.430	3858	9.885	8043	10.204	4517
13.728	2682	14.514	3552	9.976	14094	10.357	3063
14.270	3246	14.571	3636	10.138	23619	10.562	4871
14.330	2960	14.615	2596	10.562	3430	10.690	6766
14.424	4475	14.723	8094	10.692	4863	10.823	3417
14.503	4440	14.812	3478	10.784	5096	10.898	11528
14.574	5439	14.891	5223	10.895	6846	10.975	4617
14.654	5139	14.974	7169	10.976	3030	11.130	3674
14.705	3184	15.035	2525	11.137	11669	11.234	2528
14.735	3980	15.075	6514	11.228	2604	11.331	18277
14.844	6490	15.158	2562	11.273	2934	11.585	13589
14.915	3052	15.201	3207	11.328	9915	11.699	7930
14.966	3401	15.229	2689	11.422	10354	11.789	3781
14.995	4399	15.312	4071	11.585	8356	11.811	5913
15.051	5912	15.373	4842	11.696	9792	11.985	7503
15.112	3779	15.404	4172	11.826	9630	12.109	4379
15.153	3798	15.440	3791	11.975	15733	12.231	6528
15.208	5879	15.474	3897	12.062	2968	12.270	4422
15.267	3388	15.545	2606	12.106	4044	12.382	5164
15.299	4432	15.569	2947	12.226	6225	12.481	12716
15.342	3246	15.611	3997	12.270	3425	12.674	7293
15.397	4851	15.651	3588	12.364	7861	12.824	4395
15.437	2589	15.707	7334	12.440	6861	12.850	5141
15.473	5001	15.805	13956	12.499	11302	12.878	5207
15.512	3570	15.892	6676	12.579	4736	13.022	4860
15.554	3956	15.914	2929	12.652	10210	13.046	2596
15.625	9318	15.977	7017	12.711	6870	13.185	9343
15.704	4011	16.014	6944	12.819	12476	13.295	8804
15.809	244819	16.112	5170	12.905	2758	13.318	6039
15.950	7685	16.173	5844	12.966	4055	13.358	10676
15.991	5439	16.220	6389	13.004	3799	13.481	2538
16.038	8131	16.254	3557	13.207	14987	13.540	7882
16.103	6746	16.296	4957	13.310	27061	13.557	5089
16.134	4102	16.331	4694	13.433	3651	13.613	3103
16.179	7961	16.372	7089	13.467	8466	13.646	4250
16.220	7519	16.403	6608	13.548	10388	13.689	5058

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
12.183	2690	12.640	2699	6.137	3081	9.401	6788	10.668	2521	10.272	2811
12.999	15817	13.644	4257	6.207	3379	9.616	5234	10.912	2845	10.907	7677
13.316	108169	13.749	4332	9.402	8412	9.774	4369	11.325	14831	11.327	15626
13.452	10009	13.974	15909	9.617	6498	9.974	3854	11.495	2644	12.094	4272
14.142	3292	14.104	2732	9.772	2529	10.138	5113	11.602	3303	12.555	2768
14.509	3811	14.300	2647	9.885	8043	10.204	4517	11.717	3163	13.314	3306
14.855	14409	14.376	2684	9.976	14094	10.357	3063	11.839	3826	13.728	2682
14.956	4201	14.486	8586	10.138	23619	10.562	4871	12.097	3966	14.270	3246
15.061	3462	14.585	3903	10.562	3430	10.690	6766	13.002	2834	14.330	2960
15.128	3834	14.672	5038	10.692	4863	10.823	3417	13.098	7399	14.424	4475
15.191	2804	14.754	6880	10.784	5096	10.898	11528	13.180	3211	14.503	4440
15.282	32802	14.909	10902	10.895	6846	10.975	4617	13.296	4242	14.574	5439
15.451	3987	14.967	30806	10.976	3030	11.130	3674	13.319	3500	14.654	5139
15.467	3082	15.097	13782	11.137	11669	11.234	2528	13.387	4430	14.705	3184
15.509	4448	15.288	40712	11.228	2604	11.331	18277	13.482	3116	14.735	3980
15.612	9122	15.373	3099	11.273	2934	11.585	13589	13.536	3486	14.844	6490
15.639	2747	15.411	5360	11.328	9915	11.699	7930	13.543	6622	14.915	3052
15.688	4488	15.484	4460	11.422	10354	11.789	3781	13.692	5977	14.966	3401
15.789	5546	15.600	16945	11.585	8356	11.811	5913	13.778	3577	14.995	4399
15.893	11518	15.707	10909	11.696	9792	11.985	7503	13.848	5934	15.051	5912
15.984	21919	15.759	4124	11.826	9630	12.109	4379	13.936	23328	15.112	3779
16.126	6312	15.839	11090	11.975	15733	12.231	6528	14.103	8021	15.153	3798
16.176	12006	15.903	2838	12.062	2968	12.270	4422	14.142	4939	15.208	5879
16.249	2529	15.939	7272	12.106	4044	12.382	5164	14.178	2618	15.267	3388
16.300	5442	15.976	6286	12.226	6225	12.481	12716	14.227	3108	15.299	4432
16.341	5012	16.039	2831	12.270	3425	12.674	7293	14.269	8164	15.342	3246
16.404	11013	16.154	9437	12.364	7861	12.824	4395	14.360	10957	15.397	4851
16.452	4177	16.212	12602	12.440	6861	12.850	5141	14.484	13102	15.437	2589
16.543	12602	16.295	9889	12.499	11302	12.878	5207	14.556	5420	15.473	5001
16.575	10012	16.327	8377	12.579	4736	13.022	4860	14.623	3008	15.512	3570
16.665	3155	16.441	21537	12.652	10210	13.046	2596	14.665	4001	15.554	3956
16.705	3557	16.576	15072	12.711	6870	13.185	9343	14.766	6181	15.625	9318
16.740	2743	16.622	4772	12.819	12476	13.295	8804	14.818	4745	15.704	4011
16.789	8503	16.701	8452	12.905	2758	13.318	6039	14.866	2734	15.809	244819
16.842	4057	16.816	21756	12.966	4055	13.358	10676	14.957	9949	15.950	7685
16.899	9583	16.976	23355	13.004	3799	13.481	2538	14.973	3753	15.991	5439
16.947	5165	16.991	25737	13.207	14987	13.540	7882	15.033	7660	16.038	8131
16.980	4065	17.105	5595	13.310	27061	13.557	5089	15.084	4058	16.103	6746
17.019	4442	17.182	10641	13.433	3651	13.613	3103	15.112	4648	16.134	4102
17.046	2592	17.288	26235	13.467	8466	13.646	4250	15.176	10617	16.179	7961
17.081	5001	17.353	8007	13.548	10388	13.689	5058	15.242	20036	16.220	7519

Dichlorobiphenyls					
"M3011123"		"M3011123"		"M3011123"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
15.088	3027	12.099	2908	10.116	3170
15.291	3690	13.478	7476	10.899	2911
15.386	3139	14.980	4590	12.783	4610
15.567	2724	15.054	5886	13.027	15221
15.608	3429	15.289	4997	13.316	581298
15.701	3434	15.563	4006	14.147	6738
15.752	2996	15.595	2527	14.419	8794
15.800	5229	15.632	2988	14.474	2504
15.868	6234	15.697	3043	14.714	3589
15.957	3510	15.771	9108	14.853	43218
16.023	3969	15.828	5551	14.969	11056
16.078	2516	15.950	4500	15.061	4136
16.140	7951	16.004	4395	15.097	5751
16.180	6308	16.066	3700	15.127	2994
16.224	4627	16.104	5360	15.175	6308
16.263	6027	16.143	2687	15.257	9422
16.307	3347	16.174	4445	15.289	4208
16.343	6341	16.219	8774	15.371	5433
16.398	7089	16.269	2729	15.459	17717
16.430	3519	16.289	2801	15.523	2774
16.459	3642	16.329	5176	15.612	5459
16.484	5924	16.370	6385	15.631	4763
16.531	6214	16.441	7208	15.665	7757
16.557	3819	16.487	5549	15.736	3046
16.606	9376	16.516	6413	15.786	10206
16.636	4574	16.561	12945	15.816	8277
16.654	4774	16.633	5803	15.981	90077
16.684	3924	16.657	3996	16.145	18502
16.715	6868	16.716	11597	16.194	12953
16.751	6681	16.770	6820	16.318	11765
16.797	6885	16.796	4258	16.356	13586
16.829	6741	16.822	3538	16.450	26642
16.898	15863	16.848	4732	16.530	5824
16.942	7738	16.873	4864	16.557	11827
17.022	26822	16.930	12276	16.607	4854
17.103	8820	16.969	7470	16.650	5917
17.124	6810	17.008	8309	16.669	3256
17.162	10821	17.038	5474	16.710	5078
17.193	15459	17.090	14366	16.755	8718
17.249	10937	17.132	8645	16.790	5929
17.275	13534	17.161	7462	16.905	29399

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
15.088	3027	12.099	2908	10.668	2521	10.272	2811	23.817	2623	23.484	2873
15.291	3690	13.478	7476	10.912	2845	10.907	7677	24.945	5196	24.022	3137
15.386	3139	14.980	4590	11.325	14831	11.327	15626	25.030	2630	24.287	4254
15.567	2724	15.054	5886	11.495	2644	12.094	4272	25.575	3604	24.414	3869
15.608	3429	15.289	4997	11.602	3303	12.555	2768	25.687	2593	24.517	2841
15.701	3434	15.563	4006	11.717	3163	13.314	3306	25.774	3257	24.585	2711
15.752	2996	15.595	2527	11.839	3826	13.728	2682	25.872	3560	24.627	2759
15.800	5229	15.632	2988	12.097	3966	14.270	3246	25.916	2806	24.716	3725
15.868	6234	15.697	3043	13.002	2834	14.330	2960	25.964	3266	25.035	2963
15.957	3510	15.771	9108	13.098	7399	14.424	4475	26.062	3629	25.089	4140
16.023	3969	15.828	5551	13.180	3211	14.503	4440	26.222	2505	25.163	3018
16.078	2516	15.950	4500	13.296	4242	14.574	5439	26.259	3566	25.269	3488
16.140	7951	16.004	4395	13.319	3500	14.654	5139	26.442	5929	25.293	2703
16.180	6308	16.066	3700	13.387	4430	14.705	3184	26.605	2577	25.419	2856
16.224	4627	16.104	5360	13.482	3116	14.735	3980	26.653	3129	25.493	3269
16.263	6027	16.143	2687	13.536	3486	14.844	6490	26.724	4088	25.577	3513
16.307	3347	16.174	4445	13.543	6622	14.915	3052	26.851	2676	25.624	2782
16.343	6341	16.219	8774	13.692	5977	14.966	3401	26.924	3874	25.760	4344
16.398	7089	16.269	2729	13.778	3577	14.995	4399	26.996	3728	25.837	2936
16.430	3519	16.289	2801	13.848	5934	15.051	5912	27.108	2813	25.924	3445
16.459	3642	16.329	5176	13.936	23328	15.112	3779	27.140	3908	26.073	4907
16.484	5924	16.370	6385	14.103	8021	15.153	3798	27.232	3780	26.143	3408
16.531	6214	16.441	7208	14.142	4939	15.208	5879	27.274	2955	26.196	3295
16.557	3819	16.487	5549	14.178	2618	15.267	3388	27.341	4894	26.265	3395
16.606	9376	16.516	6413	14.227	3108	15.299	4432	27.380	2691	26.307	2562
16.636	4574	16.561	12945	14.269	8164	15.342	3246	27.419	2844	26.348	2554
16.654	4774	16.633	5803	14.360	10957	15.397	4851	27.567	3436	26.430	5126
16.684	3924	16.657	3996	14.484	13102	15.437	2589	27.608	3204	26.499	4157
16.715	6868	16.716	11597	14.556	5420	15.473	5001	27.680	3272	26.558	2820
16.751	6681	16.770	6820	14.623	3008	15.512	3570	27.744	3704	26.579	3187
16.797	6885	16.796	4258	14.665	4001	15.554	3956	27.792	2768	26.700	2940
16.829	6741	16.822	3538	14.766	6181	15.625	9318	27.832	2992	26.752	2836
16.898	15863	16.848	4732	14.818	4745	15.704	4011	27.883	4224	26.788	2877
16.942	7738	16.873	4864	14.866	2734	15.809	244819	27.959	4222	26.841	2800
17.022	26822	16.930	12276	14.957	9949	15.950	7685	28.013	4252	26.914	6634
17.103	8820	16.969	7470	14.973	3753	15.991	5439	28.095	3972	27.091	2516
17.124	6810	17.008	8309	15.033	7660	16.038	8131	28.235	3312	27.130	3063
17.162	10821	17.038	5474	15.084	4058	16.103	6746	28.296	3617	27.150	3302
17.193	15459	17.090	14366	15.112	4648	16.134	4102	28.347	3302	27.196	3279
17.249	10937	17.132	8645	15.176	10617	16.179	7961	28.394	4479	27.434	3992
17.275	13534	17.161	7462	15.242	20036	16.220	7519	28.466	3613	27.479	2968

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
24.314	3860	15.812	3715	17.946	3284	18.324	3150	21.009	3654	15.068	2579
24.405	2570	16.243	3093	18.113	2916	18.572	2684	21.265	2696	15.738	4012
24.451	4250	16.310	5167	18.625	2681	18.623	2996	21.509	2625	15.819	5074
24.725	2926	16.343	2579	18.767	2516	18.669	4056	21.570	3648	15.981	3503
24.809	3172	16.484	3633	18.794	3169	18.827	2668	21.707	2814	16.042	5400
24.912	2604	16.587	6156	18.840	2885	19.132	3626	21.746	3679	16.202	3307
24.991	3845	16.641	3917	18.965	6251	19.273	3744	21.842	2533	16.294	3207
25.350	3629	16.670	3048	19.282	6556	19.352	3766	21.922	4486	16.328	3734
25.487	2908	16.758	8066	19.344	2780	19.506	4320	21.965	3201	16.356	3632
25.545	2759	16.783	3033	19.406	6290	19.559	3732	22.006	4518	16.429	3622
25.727	3479	16.820	4548	19.487	2789	19.620	2515	22.090	3616	16.486	6823
25.821	4678	16.846	2800	19.528	3625	19.754	2872	22.172	3644	16.525	3053
25.880	3576	16.874	2923	19.551	3765	19.842	4332	22.211	3682	16.545	3401
25.923	5112	16.900	3260	19.672	2675	19.890	4583	22.339	2771	16.569	2840
26.019	4033	16.920	3566	19.752	5026	19.966	3182	22.376	4126	16.607	4156
26.097	2560	16.951	3558	19.803	2762	19.989	2935	22.482	6200	16.633	4298
26.344	4110	16.969	3396	19.829	2761	20.087	2768	22.521	6808	16.671	2860
26.454	3640	17.000	5731	19.866	3505	20.169	4574	22.586	4187	16.702	4207
26.531	4229	17.040	4377	19.889	2698	20.218	3242	22.658	3453	16.762	8508
26.658	2905	17.078	2847	19.917	4762	20.264	5817	22.683	3277	16.798	5491
26.776	3420	17.126	11265	20.014	3503	20.345	5558	22.720	3098	16.840	3282
26.825	3101	17.177	5748	20.046	2993	20.389	5756	22.786	4476	16.857	3733
26.857	2964	17.214	3619	20.084	3547	20.437	3925	22.804	2769	16.887	3697
26.890	2837	17.237	3922	20.124	3488	20.488	4107	22.843	3864	16.911	3486
26.972	5473	17.267	4170	20.160	3469	20.575	6424	22.870	4060	16.939	4281
27.048	3535	17.287	4602	20.198	5350	20.647	3401	22.942	3869	16.961	4574
27.117	3595	17.319	6466	20.283	5196	20.685	4834	22.971	7579	16.985	6412
27.183	3457	17.350	5375	20.317	2862	20.732	6987	23.027	2559	17.020	4176
27.268	2755	17.386	12382	20.338	3597	20.807	2981	23.095	7172	17.056	6184
27.335	3283	17.474	11924	20.385	6283	20.852	3430	23.143	4087	17.090	4245
27.450	3409	17.512	7146	20.423	2776	20.947	2926	23.211	3739	17.116	6378
27.593	3349	17.567	11125	20.447	4915	21.001	5176	23.241	3719	17.150	3675
27.646	2542	17.592	5405	20.500	3292	21.064	2518	23.289	3375	17.177	6600
27.720	3348	17.616	8102	20.537	6462	21.093	3519	23.337	5565	17.217	9019
27.812	2597	17.655	5758	20.598	3404	21.129	6644	23.362	2764	17.268	4558
27.915	3163	17.680	4737	20.619	3205	21.284	4703	23.415	4547	17.288	5381
27.980	2920	17.704	4591	20.649	2582	21.350	3126	23.461	6218	17.327	7723
28.023	2885	17.732	5176	20.673	5500	21.403	4853	23.505	4025	17.351	10732
28.047	4377	17.770	7979	20.787	8038	21.463	3458	23.541	4724	17.414	7871
28.188	2915	17.792	8597	20.869	5967	21.499	3521	23.575	2802	17.460	11498
28.262	3449	17.848	14837	20.934	5822	21.566	3867	23.604	5588	17.503	10923

Extracted Ion Current Profiles

17.329	9492	17.222	11723	15.301	7362	16.241	3841	28.518	2882	27.581	4380
17.375	11520	17.250	5103	15.326	3642	16.280	5396	28.566	3797	27.733	3463
17.407	6879	17.288	8738	15.380	11872	16.326	8410	28.764	2964	27.764	6164
17.426	7798	17.338	11563	15.463	5350	16.373	4034	28.796	2614	27.865	3150
17.463	14645	17.364	8865	15.517	6413	16.434	8836	28.833	2513	27.889	3558
17.501	5783	17.400	5535	15.547	4351	16.465	4483	28.874	2560	27.920	4179
17.530	7059	17.438	12184	15.576	3438	16.499	3660	28.906	2534	27.980	4602
17.575	24326	17.476	6296	15.608	13447	16.527	8383	28.946	3348	28.142	2596
17.666	25295	17.511	9524	15.685	7428	16.567	5170	28.994	2522	28.188	3360
17.717	13193	17.540	6037	15.733	5303	16.605	5835	29.105	4057	28.232	5944
17.743	8896	17.570	8990	15.808	54104	16.666	7303	29.209	2558	28.373	2819
17.768	8111	17.607	6457	15.924	8959	16.702	9283	29.260	3628	28.503	3076
17.792	7790	17.629	6840	15.970	5330	16.769	7058	29.376	5473	28.576	3929
17.819	8299	17.669	12545	15.996	11273	16.842	9049	29.477	3590	28.642	4359
17.844	8436	17.691	7649	16.091	12992	16.855	4278	29.545	5001	28.692	2552
17.878	12367	17.720	12880	16.115	6996	16.900	5934	29.647	3979	28.772	3442
17.916	18883	17.782	13068	16.148	5464	16.941	5167	29.685	2512	28.809	3159
17.956	9560	17.817	7641	16.209	17335	16.973	6418	29.754	2612	28.871	2702
18.002	20281	17.844	6523	16.229	5181	17.012	7934	29.814	4254	28.905	3124
18.033	13862	17.891	11192	16.289	36262	17.068	12071	29.878	4354	28.967	4604
18.082	16113	17.937	9068	16.432	15701	17.129	9052	30.002	2587	29.027	4145
18.108	10416	17.956	10053	16.479	7704	17.159	9283	30.031	3620	29.089	4813
18.160	21531	18.018	14950	16.564	45530	17.205	7793	30.074	2503	29.130	3731
18.184	11444	18.046	5498	16.689	30170	17.254	8428	30.112	3363	29.259	2623
18.229	20857	18.071	7345	16.773	7134	17.296	9728	30.269	3604	29.292	2741
18.263	19943	18.095	7585	16.806	9874	17.346	6823	30.639	3811	29.343	2989
18.315	11305	18.128	12234	16.873	16810	17.388	6074	30.744	2642	29.413	6289
18.337	11378	18.168	11958	16.922	14500	17.455	14150	30.802	3216	29.466	3592
18.361	10675	18.204	15765	16.966	11477	17.528	10594	30.939	2613	29.616	2607
18.388	11269	18.248	8781	16.980	9865	17.568	11621	30.974	2647	29.706	3706
18.425	18589	18.297	18763	17.023	7146	17.602	11494	31.047	2856	29.741	3002
18.455	18287	18.325	9122	17.067	9109	17.641	3138	31.105	2725	29.840	3545
18.487	24207	18.358	12076	17.080	5713	17.678	4634	31.324	2527	29.926	4877
18.539	11587	18.387	7903	17.180	90365	17.708	10189	31.380	3103	29.988	4183
18.581	31426	18.413	7333	17.329	29340	17.740	6390	31.428	3147	30.058	3281
18.627	11733	18.441	13691	17.364	21683	17.791	10300	31.465	2932	30.090	2593
18.656	12385	18.495	10549	17.439	18631	17.834	7921	31.508	2887	30.154	2683
18.689	24129	18.541	11690	17.477	6614	17.883	10470	31.623	2650	30.244	2676
18.743	19113	18.573	12891	17.519	14633	17.924	5700	31.747	3871	30.291	4145
18.766	12793	18.611	13724	17.589	34020	17.977	13854	31.844	3806	30.354	5012
18.827	38367	18.642	13069	17.688	53584	18.031	7256	31.913	3874	30.428	3849
18.866	13144	18.678	11756	17.790	19408	18.066	12717	32.023	5395	30.499	3347
18.909	19472	18.740	21235	17.859	14393	18.126	6045	32.110	2877	30.562	3807
18.929	13683	18.780	12904	17.891	14164	18.208	16059	32.160	2707	30.641	3093
18.955	18316	18.839	17041	17.991	30196	18.240	12840	32.344	4864	30.689	4597
18.993	12744	18.868	7574	18.052	18297	18.306	15421	32.428	2810	30.739	2910

Extracted Ion Current Profiles

28.302	2523	17.905	9369	20.976	4818	21.618	5756	23.649	2930	17.541	5724
28.345	2865	17.932	5828	21.016	2970	21.712	3480	23.671	3867	17.570	11540
28.402	2560	17.957	5214	21.054	4262	21.746	2937	23.710	3633	17.618	6118
28.447	4200	17.984	8722	21.075	3149	21.769	2812	23.751	2777	17.676	17098
28.538	6276	18.032	9836	21.124	6016	21.823	7276	23.782	6351	17.704	6274
28.567	8352	18.060	6800	21.153	3904	21.880	4982	23.821	2523	17.733	6951
28.699	2737	18.084	11072	21.193	4579	21.965	3040	23.846	3443	17.753	7145
28.741	5452	18.125	7760	21.224	2763	22.041	3386	23.872	8310	17.808	21032
28.791	2679	18.147	11294	21.256	3913	22.071	4393	23.934	6731	17.860	10271
28.903	7687	18.184	6952	21.287	2975	22.151	6256	23.982	3133	17.895	11363
28.959	2892	18.229	13456	21.315	2751	22.211	2998	24.017	5172	17.932	6842
28.993	4476	18.287	21290	21.336	3888	22.249	3262	24.064	6389	17.959	13335
29.065	3191	18.343	8189	21.410	10598	22.326	2505	24.092	2650	18.025	15695
29.104	3837	18.357	7444	21.459	2859	22.348	2598	24.127	4426	18.057	8318
29.264	4551	18.399	11406	21.486	2567	22.376	2922	24.181	7794	18.087	10783
29.380	2538	18.430	6900	21.532	5548	22.415	3492	24.237	5530	18.105	11112
29.411	2705	18.459	15553	21.562	3342	22.455	4680	24.267	6068	18.158	22609
29.445	2711	18.504	7146	21.581	3625	22.521	4375	24.316	5362	18.209	17372
29.478	2600	18.531	11853	21.608	3057	22.571	5001	24.374	6698	18.275	25935
29.528	3734	18.568	9367	21.652	6440	22.608	3028	24.404	5112	18.318	16371
29.594	2578	18.589	12986	21.683	3203	22.657	3161	24.441	4607	18.368	19320
29.632	3688	18.644	12740	21.707	4612	22.709	5874	24.483	9642	18.413	15046
29.689	4275	18.663	12798	21.768	8139	22.777	2749	24.543	3346	18.440	11269
29.737	3375	18.704	8447	21.827	3661	22.819	3864	24.562	7434	18.464	10488
29.833	2723	18.728	9323	21.856	2879	22.859	3894	24.614	4933	18.501	15744
29.895	4507	18.754	11267	21.889	4993	22.902	5848	24.646	3321	18.534	22666
29.942	4340	18.817	22719	21.917	3021	22.962	4004	24.680	4263	18.577	10855
29.997	2605	18.856	9125	21.947	3352	23.001	3177	24.719	5335	18.623	21993
30.050	3257	18.882	14038	21.963	6443	23.028	2501	24.747	3444	18.664	21212
30.126	3251	18.936	18179	22.018	3399	23.065	3080	24.775	3221	18.706	10001
30.179	3179	18.970	9398	22.047	5202	23.098	2934	24.809	8535	18.727	10952
30.245	2911	18.995	15147	22.077	2897	23.141	4720	24.844	3661	18.759	17408
30.304	3051	19.044	14255	22.107	7130	23.218	4121	24.897	10678	18.805	16960
30.401	3572	19.074	21121	22.165	4012	23.287	2944	24.955	5510	18.829	11345
30.440	2814	19.123	16167	22.205	12615	23.342	3804	24.983	3948	18.856	12418
30.521	2923	19.167	14038	22.299	6496	23.384	3228	25.030	7652	18.880	23574
30.603	3635	19.197	10048	22.324	6925	23.465	3659	25.057	3653	18.928	10262
30.711	2594	19.225	22550	22.389	4740	23.499	2551	25.085	3568	18.960	16778
30.780	2782	19.276	10968	22.427	2763	23.597	4484	25.107	4606	19.003	22650
30.956	2696	19.296	10791	22.458	4944	23.647	3176	25.131	3986	19.047	15210
31.005	3554	19.327	11252	22.485	4002	23.733	3336	25.171	5491	19.087	16047
31.056	3034	19.364	24415	22.539	4044	23.764	3350	25.214	8356	19.126	12281
31.112	3408	19.402	17841	22.564	6722	23.869	8415	25.252	5666	19.149	33919
31.152	2658	19.481	49293	22.608	2838	23.922	3886	25.286	5605	19.220	19400
31.236	2951	19.543	23300	22.635	2803	23.957	2520	25.325	7561	19.257	19204
31.295	3516	19.596	25957	22.663	5222	23.990	3130	25.371	3893	19.291	17509

Extracted Ion Current Profiles

19.023	11983	18.893	7577	18.091	21003	18.333	5450	32.720	3267	30.816	4411
19.041	11395	18.939	17319	18.146	13097	18.396	15358	33.034	2504	30.866	4000
19.079	18222	18.978	19046	18.308	120798	18.443	11100	33.092	2937	30.966	5017
19.113	19790	19.018	8819	18.405	21359	18.501	8245	33.692	3472	31.071	2820
19.157	29056	19.044	11761	18.449	15315	18.538	11523	33.973	3244	31.154	3425
19.196	27568	19.086	13597	18.469	7387	18.581	10183			31.227	2597
19.253	34701	19.122	8944	18.531	50722	18.623	8609			31.262	2543
19.310	20115	19.147	9630	18.596	9771	18.673	15383			31.299	2547
19.348	17837	19.172	8724	18.639	35210	18.700	9885			31.401	5348
19.388	13199	19.199	17048	18.765	63047	18.746	13977			31.470	3085
19.412	14186	19.235	14668	18.881	20296	18.820	16425			31.543	3017
19.457	28519	19.271	9418	18.914	7864	18.856	6997			31.581	3106
19.491	13115	19.295	9054	18.947	14521	18.891	5633			31.751	4238
19.512	15030	19.328	13823	18.977	18865	18.907	11454			31.840	2992
19.544	22562	19.362	14922	19.023	8353	18.988	17581			31.976	4445
19.589	21388	19.407	15451	19.058	29192	19.038	14877			32.066	3321
19.617	31336	19.440	17627	19.121	8672	19.081	12805			32.141	2579
19.664	16007	19.490	10338	19.198	54533	19.128	9358			32.209	3969
19.714	22869	19.512	10430	19.262	9027	19.191	12286			32.263	2553
19.742	14660	19.546	19409	19.325	48612	19.221	9108			32.457	3165
19.769	15457	19.592	8772	19.405	21681	19.282	15715			32.510	3277
19.792	15126	19.610	9395	19.424	28933	19.334	10073			32.615	2832
19.815	14912	19.642	9363	19.505	24092	19.367	9009			32.835	2931
19.846	26470	19.674	15941	19.539	23077	19.421	13163			33.325	2586
19.892	19263	19.702	13631	19.611	56707	19.503	24014			33.378	2591
19.950	27851	19.779	23243	19.688	30168	19.546	10030			33.620	2703
20.001	28059	19.817	12722	19.765	12907	19.563	6380			33.873	3341
20.026	14007	19.859	8525	19.786	17701	19.613	10034			34.123	2616
20.061	20947	19.875	8723	19.834	13537	19.634	4941			34.783	3127
20.100	21591	19.907	12539	19.855	11215	19.680	12411			38.047	3038
20.124	14549	19.940	8631	19.882	10649	19.752	18501				
20.166	36391	19.967	12841	19.918	16769	19.794	16916				
20.215	22777	20.007	13710	19.962	14492	19.851	8357				
20.249	13492	20.044	9363	20.041	29409	19.872	8251				
20.279	21080	20.062	10202	20.087	21121	19.912	12972				
20.308	13886	20.098	15264	20.117	33326	19.963	9613				
20.342	13250	20.134	13406	20.221	47012	19.983	7758				
20.361	20427	20.167	10820	20.304	16573	20.031	17648				
20.400	20146	20.187	16964	20.329	12916	20.091	7852				
20.445	23837	20.239	14516	20.362	17021	20.129	23198				
20.486	12017	20.261	14783	20.392	8071	20.196	8201				
20.514	12544	20.324	19289	20.432	13437	20.232	12946				
20.537	19762	20.348	9249	20.486	21495	20.275	17487				
20.578	31963	20.376	9265	20.541	18560	20.311	8473				
20.607	45775	20.395	9620	20.575	9081	20.344	4711				
20.667	15709	20.422	7673	20.601	17089	20.384	12642				

Extracted Ion Current Profiles

31.392	3285	19.641	11773	22.744	10710	24.031	5592	25.390	5963	19.322	12694
31.435	2582	19.684	25185	22.794	3459	24.107	3582	25.427	3879	19.351	12211
31.484	2693	19.720	11349	22.821	2544	24.223	4427	25.454	4403	19.390	33175
31.571	3395	19.762	23874	22.842	2665	24.290	3345	25.502	5325	19.482	41203
31.628	2966	19.816	27777	22.885	5268	24.328	3311	25.528	6141	19.517	14979
31.846	4623	19.873	22501	22.917	2659	24.444	4003	25.564	4083	19.545	29940
31.918	3152	19.917	17381	22.942	2621	24.481	3574	25.603	6182	19.598	20957
32.098	3681	19.940	18628	22.981	6205	24.523	4300	25.628	6516	19.628	29541
32.298	4080	19.991	30198	23.015	4256	24.597	4786	25.663	3646	19.677	13536
32.460	2683	20.040	17314	23.053	2914	24.640	2682	25.688	3620	19.725	31229
32.513	3514	20.086	25573	23.081	4648	24.660	4285	25.719	5537	19.755	13838
32.559	4012	20.124	11822	23.151	3544	24.697	3819	25.753	5824	19.819	39915
32.805	3298	20.162	17258	23.187	7128	24.738	3214	25.793	5758	19.869	20339
32.872	3576	20.189	12459	23.237	4638	24.776	3615	25.829	7857	19.891	14073
32.948	2948	20.225	32195	23.263	2983	24.857	6587	25.874	4556	19.921	19183
33.267	2514	20.273	12572	23.292	2934	24.931	2577	25.905	4311	19.968	37051
34.425	2898	20.311	24758	23.319	3057	24.964	3068	25.923	5881	20.027	22617
		20.370	26900	23.348	4604	25.010	3156	25.963	3995	20.050	22597
		20.397	13224	23.384	6133	25.085	5790	25.982	4011	20.091	13716
		20.423	19673	23.426	2965	25.123	4158	26.015	3273	20.113	20527
		20.466	23538	23.455	4452	25.158	3724	26.033	3584	20.160	21350
		20.516	19211	23.490	3042	25.227	3103	26.081	7997	20.189	15540
		20.559	19912	23.508	3084	25.256	2575	26.112	4349	20.212	15258
		20.582	12730	23.536	2707	25.280	3648	26.136	6675	20.237	13774
		20.620	30473	23.563	3282	25.356	4317	26.194	7949	20.283	31094
		20.705	42696	23.585	2944	25.400	12038	26.221	3261	20.319	24940
		20.740	14343	23.635	6700	25.453	3190	26.270	7493	20.351	42917
		20.768	12489	23.670	5208	25.484	2665	26.302	5998	20.438	37295
		20.793	11462	23.722	2565	25.505	6227	26.353	10726	20.487	23510
		20.843	23871	23.759	8108	25.579	3050	26.407	5813	20.521	15650
		20.918	57301	23.809	3140	25.612	3780	26.431	3893	20.572	49310
		20.966	12763	23.832	4895	25.638	2984	26.472	8723	20.622	23489
		20.993	13329	23.880	3676	25.663	2653	26.516	6060	20.677	31835
		21.017	15304	23.918	5699	25.763	2598	26.544	5779	20.718	24500
		21.040	21580	23.980	3001	25.809	4288	26.591	8397	20.743	14991
		21.076	19603	24.043	6734	25.873	5235	26.640	6740	20.771	29212
		21.133	26429	24.092	2786	25.925	3735	26.667	4153	20.821	20605
		21.161	12982	24.165	14998	25.946	3752	26.725	10741	20.854	14585
		21.196	18488	24.229	2610	25.985	2665	26.754	4006	20.905	61308
		21.231	12395	24.255	2625	26.012	5197	26.788	5718	20.966	41408
		21.252	22030	24.297	6116	26.067	3752	26.842	7626	21.026	15771
		21.286	15110	24.342	6921	26.129	3303	26.869	8145	21.052	14505
		21.322	29770	24.412	5548	26.173	5605	26.937	6784	21.076	14941
		21.372	22862	24.488	3979	26.219	3215	26.979	5570	21.102	14176
		21.398	14774	24.514	2941	26.247	3727	27.002	4219	21.141	18836
		21.424	13834	24.541	6069	26.294	4154	27.036	6077	21.168	14927

20.694	12509	20.455	10016	20.660	20905	20.411	11040
20.744	33518	20.508	19180	20.729	14654	20.440	12662
20.797	20521	20.554	14688	20.754	18774	20.494	13619
20.817	14250	20.585	22337	20.786	34367	20.551	10550
20.842	13376	20.644	10570	20.896	22086	20.599	19656
20.880	22200	20.702	14875	20.937	6010	20.642	9898
20.904	14238	20.744	10944	20.980	15445	20.699	22603
20.928	27096	20.771	16856	21.019	15225	20.740	8053
20.978	11896	20.816	8850	21.075	16766	20.784	17795
21.005	12698	20.842	7904	21.124	8949	20.830	11330
21.037	20479	20.875	12177	21.143	12508	20.866	7583
21.078	26282	20.913	12393	21.187	12096	20.893	13168
21.121	17529	20.941	10881	21.222	13194	20.940	13865
21.152	12739	20.977	7304	21.275	18425	20.983	10337
21.202	37809	21.018	11917	21.308	8791	21.018	16085
21.291	45857	21.042	13666	21.332	12476	21.094	14523
21.336	12704	21.079	12858	21.376	15209	21.137	10230
21.369	18862	21.111	11126	21.403	12293	21.166	12230
21.398	11894	21.174	13674	21.437	18812	21.215	12856
21.436	18148	21.213	11418	21.481	11733	21.250	10513
21.460	12106	21.237	7495	21.512	10341	21.293	10407
21.504	24562	21.273	14214	21.552	14815	21.314	9870
21.558	24934	21.315	7034	21.608	13667	21.360	15704
21.596	44729	21.347	11221	21.668	35042	21.397	4904
21.673	11088	21.379	12071	21.721	8283	21.420	15168
21.699	11691	21.411	8565	21.749	12149	21.469	7236
21.722	25978	21.442	16810	21.847	35904	21.503	15860
21.780	22067	21.485	6468	21.876	8351	21.541	6935
21.824	9240	21.533	21826	21.928	8911	21.590	17693
21.843	10742	21.584	7325	21.947	10935	21.630	10208
21.866	10661	21.608	6960	21.984	17872	21.665	9827
21.909	23424	21.632	9752	22.052	18012	21.739	28894
21.951	24165	21.675	6253	22.120	23376	21.802	16859
21.991	16581	21.694	6305	22.159	11702	21.849	16046
22.028	11060	21.719	6005	22.189	12503	21.878	4616
22.056	11010	21.746	6124	22.217	12349	21.937	21078
22.080	31528	21.782	13520	22.289	21105	21.995	14316
22.152	9655	21.818	10875	22.326	11507	22.025	9684
22.202	20639	21.871	12279	22.351	8777	22.084	19081
22.229	21625	21.916	5998	22.377	9442	22.140	18223

Extracted Ion Current Profiles

21.448	20578	24.598	3713	26.359	4447	27.067	5630	21.184	15218
21.498	22762	24.627	2600	26.396	3639	27.102	9659	21.213	13904
21.521	22941	24.648	3897	26.432	3140	27.164	3478	21.237	14649
21.581	37987	24.694	4616	26.481	3650	27.188	5332	21.266	23585
21.622	13180	24.732	4870	26.506	2786	27.227	7118	21.301	15182
21.657	33379	24.762	4241	26.554	6055	27.277	3900	21.326	24515
21.708	27198	24.802	3940	26.580	2961	27.299	3810	21.372	25905
21.770	19371	24.836	3320	26.605	2672	27.324	3691	21.408	43953
21.795	13601	24.885	4543	26.632	2530	27.349	3962	21.460	14927
21.819	20505	24.921	2844	26.653	2669	27.374	3583	21.496	29723
21.855	11435	24.982	6160	26.680	2789	27.424	7652	21.537	14720
21.893	20077	25.023	4418	26.708	2681	27.456	6094	21.571	32330
21.919	56778	25.151	2880	26.729	2877	27.494	5792	21.618	22833
22.013	13498	25.193	3130	26.754	3891	27.527	6933	21.654	22823
22.043	20851	25.231	4605	26.863	2507	27.589	6777	21.697	21101
22.077	13171	25.267	2902	26.906	5329	27.619	3503	21.729	22726
22.103	14155	25.306	2862	26.944	2546	27.655	5299	21.757	14557
22.127	13249	25.366	4629	26.963	3055	27.685	7302	21.788	23432
22.153	20045	25.421	4018	26.998	4930	27.731	3519	21.820	14417
22.200	21518	25.461	3504	27.050	4279	27.753	5716	21.844	23293
22.235	20981	25.515	2672	27.096	7606	27.801	7222	21.884	15458
22.267	14241	25.545	2505	27.138	2694	27.843	9954	21.901	15312
22.327	55724	25.565	2652	27.164	2579	27.918	4772	21.942	22508
22.373	28156	25.599	6630	27.187	2578	27.958	5036	21.967	15582
22.424	12024	25.652	5699	27.220	5450	27.993	5079	21.998	30840
22.449	12880	25.736	4745	27.273	4964	28.024	6930	22.065	29778
22.475	24182	25.810	4625	27.313	4176	28.076	5022	22.090	14511
22.530	17475	25.877	4134	27.350	5060	28.105	3069	22.128	21927
22.559	11817	25.992	6039	27.485	7736	28.138	5304	22.156	24166
22.599	21373	26.087	4489	27.558	4877	28.165	5410	22.188	23825
22.637	11990	26.117	3781	27.596	4253	28.202	3480	22.239	23653
22.681	26720	26.206	6102	27.677	4631	28.232	8503	22.274	25474
22.709	13347	26.322	5679	27.729	3186	28.290	4828	22.314	24777
22.732	12699	26.402	3510	27.754	3351	28.321	4851	22.372	64063
22.757	11551	26.508	3014	27.805	4281	28.363	3245	22.424	14994
22.794	18259	26.672	4454	27.838	3416	28.380	3496	22.450	22798
22.817	12469	26.731	3595	27.888	4922	28.419	4657	22.485	13323
22.846	24498	26.789	3867	27.978	4889	28.443	4630	22.521	21544
22.893	11712	26.844	3831	28.017	3313	28.501	6591	22.550	15128
22.920	18643	26.910	3143	28.064	3336	28.528	3195	22.575	15580

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"	
m/z 292		m/z 290		m/z 220		m/z 222		m/z 360		m/z 362	
18.324	3150	17.946	3284	9.207	3773	12.183	2690			42.745	2508
18.572	2684	18.113	2916	9.869	2616	12.999	15817				
18.623	2996	18.625	2681	10.904	12501	13.316	108169				
18.669	4056	18.767	2516	13.313	10301	13.452	10009				
18.827	2668	18.794	3169	14.986	2625	14.142	3292				
19.132	3626	18.840	2885	15.646	2519	14.509	3811				
19.273	3744	18.965	6251	15.756	2766	14.855	14409				
19.352	3766	19.282	6556	15.816	3543	14.956	4201				
19.506	4320	19.344	2780	15.840	2810	15.061	3462				
19.559	3732	19.406	6290	15.894	3933	15.128	3834				
19.620	2515	19.487	2789	15.979	2848	15.191	2804				
19.754	2872	19.528	3625	16.007	4383	15.282	32802				
19.842	4332	19.551	3765	16.190	2892	15.451	3987				
19.890	4583	19.672	2675	16.275	2978	15.467	3082				
19.966	3182	19.752	5026	16.349	3053	15.509	4448				
19.989	2935	19.803	2762	16.421	4755	15.612	9122				
20.087	2768	19.829	2761	16.444	3267	15.639	2747				
20.169	4574	19.866	3505	16.469	2930	15.688	4488				
20.218	3242	19.889	2698	16.499	4370	15.789	5546				
20.264	5817	19.917	4762	16.569	2628	15.893	11518				
20.345	5558	20.014	3503	16.595	3841	15.984	21919				
20.389	5756	20.046	2993	16.655	4743	16.126	6312				
20.437	3925	20.084	3547	16.845	3371	16.176	12006				
20.488	4107	20.124	3488	16.896	4899	16.249	2529				
20.575	6424	20.160	3469	16.932	5385	16.300	5442				
20.647	3401	20.198	5350	17.016	8495	16.341	5012				
20.685	4834	20.283	5196	17.034	5893	16.404	11013				
20.732	6987	20.317	2862	17.075	3931	16.452	4177				
20.807	2981	20.338	3597	17.116	2522	16.543	12602				
20.852	3430	20.385	6283	17.151	5807	16.575	10012				
20.947	2926	20.423	2776	17.188	2937	16.665	3155				
21.001	5176	20.447	4915	17.236	4911	16.705	3557				
21.064	2518	20.500	3292	17.270	5484	16.740	2743				
21.093	3519	20.537	6462	17.347	5394	16.789	8503				
21.129	6644	20.598	3404	17.400	4765	16.842	4057				
21.284	4703	20.619	3205	17.428	5474	16.899	9583				
21.350	3126	20.649	2582	17.465	6249	16.947	5165				
21.403	4853	20.673	5500	17.503	2512	16.980	4065				
21.463	3458	20.787	8038	17.555	2686	17.019	4442				
21.499	3521	20.869	5967	17.592	7142	17.046	2592				
21.566	3867	20.934	5822	17.652	3798	17.081	5001				
21.618	5756	20.976	4818	17.690	4417	17.119	9415				

Tetrachlorobiphenyls									
"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"	
m/z 288		m/z 324		m/z 326		m/z 328		m/z 289	
18.070	3168	23.817	2623	23.484	2873	24.314	3860	18.647	2518
18.143	4413	24.945	5196	24.022	3137	24.405	2570	18.761	2520
18.409	2796	25.030	2630	24.287	4254	24.451	4250	19.043	2652
18.453	3723	25.575	3604	24.414	3869	24.725	2926	19.095	2745
18.494	2928	25.687	2593	24.517	2841	24.809	3172	19.129	2712
18.528	3141	25.774	3257	24.585	2711	24.912	2604	19.227	5553
18.581	4541	25.872	3560	24.627	2759	24.991	3845	19.441	6034
18.676	2665	25.916	2806	24.716	3725	25.350	3629	19.491	4039
18.714	2835	25.964	3266	25.035	2963	25.487	2908	19.641	2962
18.877	4503	26.062	3629	25.089	4140	25.545	2759	19.665	4506
18.920	2623	26.222	2505	25.163	3018	25.727	3479	19.734	4789
18.949	4554	26.259	3566	25.269	3488	25.821	4678	19.776	4486
19.036	2716	26.442	5929	25.293	2703	25.880	3576	19.816	3843
19.100	5115	26.605	2577	25.419	2856	25.923	5112	19.838	2504
19.151	4811	26.653	3129	25.493	3269	26.019	4033	19.881	3245
19.195	4846	26.724	4088	25.577	3513	26.097	2560	19.923	6099
19.232	7992	26.851	2676	25.624	2782	26.344	4110	19.966	4223
19.290	3022	26.924	3874	25.760	4344	26.454	3640	19.993	4667
19.307	5150	26.996	3728	25.837	2936	26.531	4229	20.026	4340
19.366	13307	27.108	2813	25.924	3445	26.658	2905	20.067	2583
19.459	3758	27.140	3908	26.073	4907	26.776	3420	20.091	4088
19.499	5693	27.232	3780	26.143	3408	26.825	3101	20.126	2574
19.541	8451	27.274	2955	26.196	3295	26.857	2964	20.164	4800
19.603	3492	27.341	4894	26.265	3395	26.890	2837	20.196	5198
19.626	3341	27.380	2691	26.307	2562	26.972	5473	20.226	2778
19.679	8253	27.419	2844	26.348	2554	27.048	3535	20.251	3312
19.715	3224	27.567	3436	26.430	5126	27.117	3595	20.273	6313
19.751	5240	27.608	3204	26.499	4157	27.183	3457	20.344	8822
19.813	12142	27.680	3272	26.558	2820	27.268	2755	20.395	4438
19.866	5343	27.744	3704	26.579	3187	27.335	3283	20.436	4484
19.901	10080	27.792	2768	26.700	2940	27.450	3409	20.458	3799
19.955	3286	27.832	2992	26.752	2836	27.593	3349	20.487	3223
19.977	3812	27.883	4224	26.788	2877	27.646	2542	20.514	8580
20.004	5837	27.959	4222	26.841	2800	27.720	3348	20.558	3864
20.037	3853	28.013	4252	26.914	6634	27.812	2597	20.581	3643
20.070	9042	28.095	3972	27.091	2516	27.915	3163	20.632	7093
20.128	7127	28.235	3312	27.130	3063	27.980	2920	20.654	3797
20.176	4941	28.296	3617	27.150	3302	28.023	2885	20.729	11361
20.213	8326	28.347	3302	27.196	3279	28.047	4377	20.787	7578
20.277	6192	28.394	4479	27.434	3992	28.188	2915	20.823	3444
20.311	3661	28.466	3613	27.479	2968	28.262	3449	20.839	3748
20.340	3990	28.518	2882	27.581	4380	28.302	2523	20.869	5667

Extracted Ion Current Profiles

21.712	3480	21.016	2970	17.717	2731	17.154	7276
21.746	2937	21.054	4262	17.742	2713	17.203	4368
21.769	2812	21.075	3149	17.770	2764	17.239	12083
21.823	7276	21.124	6016	17.797	2996	17.318	4957
21.880	4982	21.153	3904	17.818	6380	17.401	8709
21.965	3040	21.193	4579	17.869	3030	17.448	6018
22.041	3386	21.224	2763	17.928	5127	17.511	8380
22.071	4393	21.256	3913	17.958	4131	17.534	9680
22.151	6256	21.287	2975	18.011	4442	17.619	5101
22.211	2998	21.315	2751	18.028	2980	17.648	4235
22.249	3262	21.336	3888	18.072	8910	17.705	5402
22.326	2505	21.410	10598	18.138	2910	17.755	9428
22.348	2598	21.459	2859	18.163	8479	17.817	4989
22.376	2922	21.486	2567	18.210	3206	17.850	3130
22.415	3492	21.532	5548	18.236	3446	17.895	8064
22.455	4680	21.562	3342	18.268	6142	17.940	5238
22.521	4375	21.581	3625	18.313	9428	17.995	5206
22.571	5001	21.608	3057	18.369	9745	18.028	4242
22.608	3028	21.652	6440	18.412	4052	18.074	12192
22.657	3161	21.683	3203	18.441	6752	18.166	22037
22.709	5874	21.707	4612	18.519	8313	18.257	8492
22.777	2749	21.768	8139	18.541	7325	18.295	7257
22.819	3864	21.827	3661	18.579	3996	18.346	15419
22.859	3894	21.856	2879	18.602	4556	18.386	9192
22.902	5848	21.889	4993	18.636	9225	18.453	10317
22.962	4004	21.917	3021	18.678	3573	18.517	8759
23.001	3177	21.947	3352	18.705	3239	18.580	12533
23.028	2501	21.963	6443	18.731	4023	18.649	5726
23.065	3080	22.018	3399	18.751	4215	18.747	32399
23.098	2934	22.047	5202	18.781	3464	18.814	4275
23.141	4720	22.077	2897	18.821	6558	18.860	5244
23.218	4121	22.107	7130	18.840	5119	18.930	14018
23.287	2944	22.165	4012	18.874	6172	18.955	3285
23.342	3804	22.205	12615	18.906	5964	18.998	7421
23.384	3228	22.299	6496	18.928	9161	19.040	11952
23.465	3659	22.324	6925	18.995	5208	19.069	7525
23.499	2551	22.389	4740	19.041	6306	19.124	10048
23.597	4484	22.427	2763	19.071	9070	19.163	6794
23.647	3176	22.458	4944	19.122	5981	19.235	10762
23.733	3336	22.485	4002	19.159	4366	19.287	11904
23.764	3350	22.539	4044	19.183	4444	19.334	26167
23.869	8415	22.564	6722	19.211	3986	19.417	5223
23.922	3886	22.608	2838	19.245	10927	19.484	23703
23.957	2520	22.635	2803	19.283	4874	19.547	6095
23.990	3130	22.663	5222	19.310	4801	19.558	6018
24.031	5592	22.744	10710	19.335	4514	19.610	9280

Extracted Ion Current Profiles

20.357	4199	28.566	3797	27.733	3463	28.345	2865	20.908	5318
20.386	6517	28.764	2964	27.764	6164	28.402	2560	20.940	3514
20.430	6442	28.796	2614	27.865	3150	28.447	4200	20.982	9295
20.459	4354	28.833	2513	27.889	3558	28.538	6276	21.028	3493
20.484	3713	28.874	2560	27.920	4179	28.567	8352	21.062	4819
20.518	5730	28.906	2534	27.980	4602	28.699	2737	21.090	3616
20.561	7171	28.946	3348	28.142	2596	28.741	5452	21.115	4102
20.578	4933	28.994	2522	28.188	3360	28.791	2679	21.149	5995
20.609	4449	29.105	4057	28.232	5944	28.903	7687	21.176	3593
20.647	10797	29.209	2558	28.373	2819	28.959	2892	21.202	3327
20.681	4880	29.260	3628	28.503	3076	28.993	4476	21.224	3908
20.708	4694	29.376	5473	28.576	3929	29.065	3191	21.255	9229
20.740	7010	29.477	3590	28.642	4359	29.104	3837	21.315	6025
20.769	3398	29.545	5001	28.692	2552	29.264	4551	21.340	7152
20.813	9398	29.647	3979	28.772	3442	29.380	2538	21.375	4979
20.844	8470	29.685	2512	28.809	3159	29.411	2705	21.398	4629
20.880	5734	29.754	2612	28.871	2702	29.445	2711	21.437	5887
20.904	5237	29.814	4254	28.905	3124	29.478	2600	21.462	6268
20.940	8128	29.878	4354	28.967	4604	29.528	3734	21.511	10400
20.990	10312	30.002	2587	29.027	4145	29.594	2578	21.562	3486
21.013	5552	30.031	3620	29.089	4813	29.632	3688	21.585	6116
21.042	8271	30.074	2503	29.130	3731	29.689	4275	21.623	3893
21.077	4624	30.112	3363	29.259	2623	29.737	3375	21.651	4017
21.130	14592	30.269	3604	29.292	2741	29.833	2723	21.670	3896
21.176	4449	30.639	3811	29.343	2989	29.895	4507	21.695	5273
21.199	4559	30.744	2642	29.413	6289	29.942	4340	21.719	4294
21.243	11525	30.802	3216	29.466	3592	29.997	2605	21.745	3367
21.304	12176	30.939	2613	29.616	2607	30.050	3257	21.788	9274
21.352	9967	30.974	2647	29.706	3706	30.126	3251	21.818	4052
21.406	11069	31.047	2856	29.741	3002	30.179	3179	21.846	3126
21.461	8830	31.105	2725	29.840	3545	30.245	2911	21.870	3838
21.484	6384	31.324	2527	29.926	4877	30.304	3051	21.890	3973
21.514	13923	31.380	3103	29.988	4183	30.401	3572	21.927	5820
21.558	9238	31.428	3147	30.058	3281	30.440	2814	21.968	8582
21.598	4465	31.465	2932	30.090	2593	30.521	2923	22.033	11510
21.621	7131	31.508	2887	30.154	2683	30.603	3635	22.067	8907
21.657	3998	31.623	2650	30.244	2676	30.711	2594	22.124	6737
21.683	6833	31.747	3871	30.291	4145	30.780	2782	22.154	3919
21.722	4895	31.844	3806	30.354	5012	30.956	2696	22.188	12182
21.749	5391	31.913	3874	30.428	3849	31.005	3554	22.249	3396
21.778	15387	32.023	5395	30.499	3347	31.056	3034	22.280	3870
21.845	7344	32.110	2877	30.562	3807	31.112	3408	22.320	9289
21.867	5162	32.160	2707	30.641	3093	31.152	2658	22.357	6676
21.895	5912	32.344	4864	30.689	4597	31.236	2951	22.389	6364
21.917	6114	32.428	2810	30.739	2910	31.295	3516	22.422	5231
21.963	12110	32.720	3267	30.816	4411	31.392	3285	22.470	7595

24.107	3582	22.794	3459	19.363	3946	19.679	8874
24.223	4427	22.821	2544	19.398	9270	19.696	4593
24.290	3345	22.842	2665	19.445	6359	19.738	7345
24.328	3311	22.885	5268	19.494	9675	19.817	30387
24.444	4003	22.917	2659	19.538	8398	19.882	6353
24.481	3574	22.942	2621	19.565	6656	19.924	6390
24.523	4300	22.981	6205	19.601	21812	19.954	6532
24.597	4786	23.015	4256	19.683	5393	19.985	4826
24.640	2682	23.053	2914	19.702	6660	20.027	5849
24.660	4285	23.081	4648	19.730	11194	20.063	14638
24.697	3819	23.151	3544	19.783	5079	20.140	17523
24.738	3214	23.187	7128	19.803	5667	20.203	15488
24.776	3615	23.237	4638	19.829	5431	20.248	7382
24.857	6587	23.263	2983	19.856	5355	20.298	4592
24.931	2577	23.292	2934	19.879	6217	20.329	5332
24.964	3068	23.319	3057	19.903	13337	20.361	7323
25.010	3156	23.348	4604	19.964	6593	20.381	3196
25.085	5790	23.384	6133	20.017	9359	20.421	4379
25.123	4158	23.426	2965	20.057	5165	20.449	9853
25.158	3724	23.455	4452	20.073	5398	20.533	35584
25.227	3103	23.490	3042	20.110	8534	20.606	11288
25.256	2575	23.508	3084	20.138	4981	20.659	9308
25.280	3648	23.536	2707	20.162	5290	20.710	10933
25.356	4317	23.563	3282	20.190	7765	20.757	7512
25.400	12038	23.585	2944	20.228	5120	20.808	12758
25.453	3190	23.635	6700	20.244	5059	20.907	14657
25.484	2665	23.670	5208	20.275	4775	20.947	16773
25.505	6227	23.722	2565	20.310	7941	21.004	5478
25.579	3050	23.759	8108	20.335	9390	21.075	18833
25.612	3780	23.809	3140	20.387	4528	21.173	51545
25.638	2984	23.832	4895	20.420	7223	21.261	14055
25.663	2653	23.880	3676	20.448	10975	21.327	16847
25.763	2598	23.918	5699	20.521	9075	21.374	7974
25.809	4288	23.980	3001	20.578	10241	21.404	5577
25.873	5235	24.043	6734	20.616	8817	21.447	6836
25.925	3735	24.092	2786	20.655	10090	21.480	11725
25.946	3752	24.165	14998	20.696	5356	21.536	8260
25.985	2665	24.229	2610	20.720	13132	21.580	17579
26.012	5197	24.255	2625	20.780	5094	21.670	8885
26.067	3752	24.297	6116	20.827	9970	21.706	8637
26.129	3303	24.342	6921	20.868	10077	21.753	15607
26.173	5605	24.412	5548	20.901	4969	21.796	8784
26.219	3215	24.488	3979	20.952	13046	21.864	17880
26.247	3727	24.514	2941	20.990	3794	21.891	6738
26.294	4154	24.541	6069	21.015	3506	21.937	10517
26.359	4447	24.598	3713	21.044	4158	22.011	17858

Extracted Ion Current Profiles

22.017	22110	33.034	2504	30.866	4000	31.435	2582	22.503	6930
22.080	7863	33.092	2937	30.966	5017	31.484	2693	22.545	6715
22.127	7753	33.692	3472	31.071	2820	31.571	3395	22.572	6027
22.163	10452	33.973	3244	31.154	3425	31.628	2966	22.612	7053
22.213	11143			31.227	2597	31.846	4623	22.646	8153
22.250	4686			31.262	2543	31.918	3152	22.717	8103
22.299	10705			31.299	2547	32.098	3681	22.746	5773
22.323	5485			31.401	5348	32.298	4080	22.799	8206
22.349	5260			31.470	3085	32.460	2683	22.831	3761
22.405	17642			31.543	3017	32.513	3514	22.858	4036
22.462	8287			31.581	3106	32.559	4012	22.893	9295
22.485	5506			31.751	4238	32.805	3298	22.931	6475
22.510	4935			31.840	2992	32.872	3576	22.980	9140
22.537	8028			31.976	4445	32.948	2948	23.051	12846
22.589	12022			32.066	3321	33.267	2514	23.090	4095
22.621	7983			32.141	2579	34.425	2898	23.125	7122
22.660	5894			32.209	3969			23.152	4319
22.681	6005			32.263	2553			23.177	4231
22.716	8453			32.457	3165			23.224	13199
22.764	13246			32.510	3277			23.293	9472
22.807	4473			32.615	2832			23.323	5077
22.829	4463			32.835	2931			23.355	3894
22.859	9045			33.325	2586			23.398	9260
22.908	14020			33.378	2591			23.427	3803
22.942	5936			33.620	2703			23.453	10203
22.964	5400			33.873	3341			23.499	6826
23.017	11132			34.123	2616			23.541	9122
23.041	6031			34.783	3127			23.611	11100
23.069	8512			38.047	3038			23.641	4838
23.103	12677							23.671	5163
23.173	10190							23.696	5796
23.217	5201							23.755	13084
23.239	7789							23.795	5218
23.285	6615							23.818	5178
23.315	7839							23.845	3835
23.374	15659							23.917	14406
23.425	6875							23.943	4870
23.466	7554							23.968	4590
23.497	5475							23.992	4623
23.540	10908							24.021	7282
23.573	6854							24.055	4141
23.608	5760							24.100	8796
23.671	9924							24.138	6658
23.723	29752							24.171	5000
23.825	5770							24.188	7635
23.840	5676							24.228	4955

26.396	3639	24.627	2600	21.066	8809	22.061	24314
26.432	3140	24.648	3897	21.123	10284	22.160	14667
26.481	3650	24.694	4616	21.170	7661	22.203	15701
26.506	2786	24.732	4870	21.200	4579	22.262	19726
26.554	6055	24.762	4241	21.229	3981	22.364	12313
26.580	2961	24.802	3940	21.263	9201	22.468	29818
26.605	2672	24.836	3320	21.301	4790	22.595	22045
26.632	2530	24.885	4543	21.346	10954	22.615	24519
26.653	2669	24.921	2844	21.374	8095	22.706	4603
26.680	2789	24.982	6160	21.432	8986	22.739	8945
26.708	2681	25.023	4418	21.463	6854	22.782	16048
26.729	2877	25.151	2880	21.508	12784	22.823	8828
26.754	3891	25.193	3130	21.592	11115	22.854	36142
26.863	2507	25.231	4605	21.656	9344	22.991	5960
26.906	5329	25.267	2902	21.714	11673	23.048	14652
26.944	2546	25.306	2862	21.778	9935	23.075	11488
26.963	3055	25.366	4629	21.807	5586	23.114	3431
26.998	4930	25.421	4018	21.830	4935	23.139	8159
27.050	4279	25.461	3504	21.864	7123	23.161	13310
27.096	7606	25.515	2672	21.897	5843	23.260	26731
27.138	2694	25.545	2505	21.931	6331	23.288	25831
27.164	2579	25.565	2652	21.984	6813	23.400	5046
27.187	2578	25.599	6630	21.999	4908	23.446	14428
27.220	5450	25.652	5699	22.062	11599	23.507	14189
27.273	4964	25.736	4745	22.116	9383	23.596	4572
27.313	4176	25.810	4625	22.138	4831	23.659	23503
27.350	5060	25.877	4134	22.169	7117	23.726	15756
27.485	7736	25.992	6039	22.201	4437	23.841	10365
27.558	4877	26.087	4489	22.229	4520	23.863	6485
27.596	4253	26.117	3781	22.261	7382	23.915	7336
27.677	4631	26.206	6102	22.288	6022	23.970	9328
27.729	3186	26.322	5679	22.328	5811	24.033	8175
27.754	3351	26.402	3510	22.374	7028	24.059	7593
27.805	4281	26.508	3014	22.400	6787	24.112	5851
27.838	3416	26.672	4454	22.437	4554	24.149	6980
27.888	4922	26.731	3595	22.485	15041	24.182	11871
27.978	4889	26.789	3867	22.532	5071	24.239	7319
28.017	3313	26.844	3831	22.567	6676	24.275	8081
28.064	3336	26.910	3143	22.599	5101	24.325	6976
28.103	3036	26.952	3415	22.629	8210	24.381	6870
28.160	6605	27.080	3276	22.658	4729	24.416	5110
28.201	2985	27.098	2601	22.681	4724	24.456	7060
28.273	4733	27.153	3164	22.716	5844	24.529	11155
28.310	3124	27.322	4523	22.782	15255	24.571	5472
28.370	5018	27.369	2557	22.859	11729	24.612	6494
28.404	2748	27.458	2505	22.897	4724	24.642	4584

Extracted Ion Current Profiles

23.881	6533
23.913	7195
23.964	11898
23.996	11507
24.050	7908
24.080	5571
24.104	5063
24.135	11094
24.176	5581
24.224	9110
24.262	8940
24.300	4550
24.337	6788
24.366	6316
24.421	10087
24.448	5007
24.513	14340
24.536	7711
24.564	12327
24.611	4927
24.636	5990
24.683	6672
24.726	8412
24.765	6637
24.807	7709
24.834	4403
24.879	9225
24.908	4119
24.946	6408
24.970	4485
24.998	6430
25.046	7225
25.098	8631
25.131	6664
25.169	5971
25.219	6464
25.241	4941
25.268	4443
25.292	4437
25.354	10081
25.377	4874
25.416	6295
25.455	8349
25.487	4149
25.518	8831
25.566	4131
24.256	5329
24.277	7454
24.349	14377
24.393	9234
24.444	5944
24.479	8614
24.547	12229
24.588	6631
24.636	8702
24.686	6794
24.710	4457
24.741	4002
24.762	4931
24.783	4983
24.808	5047
24.861	11817
24.897	7034
24.949	10488
25.012	10565
25.066	6105
25.094	5730
25.143	7542
25.168	3997
25.200	6008
25.254	7507
25.282	6177
25.318	6210
25.364	6010
25.395	3935
25.416	3697
25.455	5667
25.477	4460
25.516	8928
25.551	4372
25.577	4544
25.601	3963
25.626	5602
25.690	11213
25.748	5868
25.777	8112
25.836	6083
25.861	4303
25.886	4023
25.914	5870
25.948	3567
25.978	3775

Extracted Ion Current Profiles

28.502	5066	27.518	2549	22.914	4851	24.682	6271
28.600	4581	27.555	3359	22.947	11041	24.762	14348
28.645	4552	27.615	2997	23.014	6686	24.791	13058
28.699	3405	27.662	3562	23.041	5048	24.862	5549
28.757	4863	27.697	2824	23.101	14246	24.921	26301
28.826	2507	27.813	2756	23.128	8958	25.001	3555
28.844	3074	27.838	2871	23.177	10254	25.038	6072
29.028	3564	27.878	2749	23.216	7493	25.090	7140
29.062	3234	28.044	2633	23.252	5183	25.115	2674
29.148	4141	28.117	2601	23.277	7283	25.163	8760
29.183	4456	28.185	3174	23.315	5434	25.232	7700
29.261	3231	28.481	3192	23.338	4951	25.276	7615
29.279	3077	28.589	2761	23.375	10216	25.311	5364
29.345	4436	28.648	3157	23.439	7876	25.345	3382
29.373	7130	28.689	2551	23.484	8933	25.366	3379
29.441	3949	28.862	3664	23.535	7032	25.399	4236
29.501	4246	28.915	3778	23.568	7595	25.423	5845
29.537	2795	29.069	4427	23.600	7682	25.464	4809
29.692	6452	29.275	2915	23.652	12859	25.526	9552
29.747	4372	29.456	3191	23.698	4306	25.582	5474
29.815	5420	29.523	3107	23.719	4524	25.617	2954
29.870	4073	29.723	3084	23.746	4063	25.658	6296
29.950	3124	29.892	2515	23.774	3907	25.714	7290
30.001	3054	29.939	2829	23.796	6617	25.760	4787
30.063	2651	30.552	4727	23.835	4521	25.803	4960
30.181	3043	30.637	3025	23.860	11714	25.855	7654
30.208	2940	30.710	2582	23.927	6612	25.901	4658
30.265	5218	30.923	2760	23.959	3924	25.955	6043
30.325	4075	31.232	3160	23.980	4184	25.996	9533
30.380	3018	31.266	2897	24.029	10222	26.093	11398
30.440	3680	31.363	3802	24.073	7316	26.168	5027
30.493	2537	31.456	3177	24.153	15967	26.213	5235
30.534	3071	31.550	4256	24.204	4669	26.239	3428
30.574	3081	31.642	2682	24.228	10375	26.275	3270
30.610	3154	31.930	3529	24.302	7131	26.301	3226
30.637	3631	31.988	3658	24.335	10822	26.346	3301
30.688	2651	32.066	3479	24.421	13505	26.371	3214
30.725	3730	32.253	2577	24.478	9777	26.403	3152
30.773	2729	32.371	3775	24.518	8348	26.438	2619
30.810	2800	32.600	2571	24.556	11081	26.482	7498
30.913	3745	32.883	2863	24.601	6069	26.521	3062
30.981	3788	33.035	3335	24.641	6392	26.589	6668
31.019	2925	33.182	2532	24.688	8537	26.621	3919
31.111	4250	33.603	3397	24.718	4081	26.660	6609
31.197	2687	34.184	2722	24.757	5298	26.705	2872
31.228	2642	34.348	2820	24.807	10459	26.741	4404

25.589	4219
25.627	10838
25.675	4187
25.724	11889
25.777	5627
25.811	3772
25.838	3707
25.861	3303
25.887	3450
25.926	7487
25.978	5532
26.004	6142
26.049	4943
26.071	4908
26.122	4438
26.148	3556
26.182	4932
26.209	3583
26.233	3283
26.273	8757
26.323	3901
26.342	3993
26.399	7901
26.452	5289
26.483	6535
26.532	3165
26.574	6120
26.608	3172
26.633	3731
26.652	3857
26.684	4872
26.714	3344
26.741	3103
26.788	6106
26.825	4607
26.855	3289
26.889	8230
26.954	4908
26.978	7551
27.028	3017
27.050	5690
27.104	4846
27.136	3193
27.171	3794
27.236	8382
27.274	3946
25.994	3870
26.024	3519
26.059	5524
26.091	5419
26.123	3641
26.145	5128
26.183	3535
26.211	5210
26.248	4139
26.270	5049
26.295	3814
26.331	6153
26.358	8104
26.406	3382
26.431	3334
26.469	8208
26.517	2994
26.543	3539
26.572	5423
26.615	7507
26.661	2755
26.705	9195
26.742	4031
26.803	7694
26.830	7389
26.880	3424
26.905	5310
26.940	5900
26.975	4910
27.018	5141
27.055	3585
27.072	3554
27.113	4476
27.141	5057
27.174	4675
27.215	4585
27.252	3115
27.275	3476
27.299	3279
27.337	5121
27.361	3002
27.398	4894
27.435	4667
27.460	2628
27.488	5489
27.535	4275

Extracted Ion Current Profiles

31.275	2512	35.671	2725	24.847	5929	26.799	7286
31.361	3701	37.125	3293	24.888	3857	26.869	6816
31.456	5494	37.194	2840	24.917	6975	26.917	4626
31.518	2694			24.943	4758	26.949	7623
31.557	2617			24.973	5434	26.989	3644
31.597	2521			24.993	5761	27.024	3278
31.780	5901			25.036	14678	27.070	8301
31.829	2784			25.107	7008	27.143	4056
31.926	6121			25.134	10669	27.186	2943
32.017	3047			25.180	5891	27.213	5650
32.049	2781			25.228	5511	27.275	4076
32.096	3088			25.257	6263	27.309	4963
32.208	3389			25.318	9994	27.365	4512
32.267	4497			25.384	9118	27.387	4008
32.378	3418			25.418	3778	27.427	3067
32.418	2626			25.445	3988		
32.498	3178			25.461	3900		
32.567	3226			25.491	3621		
32.674	5246			25.516	5576		
32.807	2688			25.555	3441		
32.881	6227			25.578	4371		
33.052	4402			25.659	26961		
33.149	3152			25.715	21932		
33.415	2729			25.782	8074		
33.481	2569			25.812	7758		
33.569	3433			25.849	4199		
33.694	2998			25.874	3875		
33.906	2679			25.899	3761		
34.000	3786			26.035	60193		
34.067	2868			26.148	7374		
34.563	3481			26.178	11128		
34.910	3649			26.221	8513		
34.980	2937			26.272	3789		
35.374	2868			26.326	10564		
35.506	2592			26.345	10219		
36.182	3167			26.382	7660		
36.346	2736			26.419	4939		
36.589	2955			26.456	3075		
37.188	2965			26.487	5999		
				26.536	8225		
				26.554	11749		
				26.605	5174		

Extracted Ion Current Profiles

27.324	3555
27.354	3748
27.386	3815
27.427	5314
27.490	5081
27.522	2742
27.555	4302
27.603	8416
27.737	3219
27.763	3056
27.851	2565
27.871	2538
27.931	3574
28.066	5137
28.128	3959
28.239	4460
28.261	3784
28.306	3645
28.339	4545
28.490	2948
28.522	3861
28.615	4706
28.696	5157
28.732	2658
28.811	4667
28.881	4670
28.907	3626
29.032	3856
29.111	5217
29.159	2831
29.237	5441
29.329	3865
29.407	2844
29.461	3175
29.571	3015
29.805	2542
29.869	2880
29.896	2974
29.937	3160
30.049	2631
30.117	2980
30.428	2576

27.580	4197
27.610	7290
27.696	5179
27.712	3214
27.740	2934
27.780	4431
27.799	3214
27.825	2594
27.853	2796
27.881	4939
27.910	3546
27.970	2661
27.996	3822
28.064	3440
28.115	5901
28.141	5396
28.193	4202
28.253	2627
28.273	3970
28.314	5393
28.367	3952
28.395	3309
28.444	3504
28.493	5287
28.544	4946
28.611	5210
28.657	4531
28.698	3379
28.773	4334
28.797	3890
28.853	5105
28.882	4741
28.934	3697
28.999	3447
29.037	4423
29.108	3295
29.152	5777
29.222	4147
29.246	3321
29.307	7382
29.354	4662
29.411	3346

Extracted Ion Current Profiles

Pentachlorobiphenyls										
"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"
m/z 326		m/z 324		m/z 254		m/z 256		m/z 258		m/z 392
23.484	2873	23.817	2623	15.812	3715	15.088	3027	12.099	2908	
24.022	3137	24.945	5196	16.243	3093	15.291	3690	13.478	7476	
24.287	4254	25.030	2630	16.310	5167	15.386	3139	14.980	4590	
24.414	3869	25.575	3604	16.343	2579	15.567	2724	15.054	5886	
24.517	2841	25.687	2593	16.484	3633	15.608	3429	15.289	4997	
24.585	2711	25.774	3257	16.587	6156	15.701	3434	15.563	4006	
24.627	2759	25.872	3560	16.641	3917	15.752	2996	15.595	2527	
24.716	3725	25.916	2806	16.670	3048	15.800	5229	15.632	2988	
25.035	2963	25.964	3266	16.758	8066	15.868	6234	15.697	3043	
25.089	4140	26.062	3629	16.783	3033	15.957	3510	15.771	9108	
25.163	3018	26.222	2505	16.820	4548	16.023	3969	15.828	5551	
25.269	3488	26.259	3566	16.846	2800	16.078	2516	15.950	4500	
25.293	2703	26.442	5929	16.874	2923	16.140	7951	16.004	4395	
25.419	2856	26.605	2577	16.900	3260	16.180	6308	16.066	3700	
25.493	3269	26.653	3129	16.920	3566	16.224	4627	16.104	5360	
25.577	3513	26.724	4088	16.951	3558	16.263	6027	16.143	2687	
25.624	2782	26.851	2676	16.969	3396	16.307	3347	16.174	4445	
25.760	4344	26.924	3874	17.000	5731	16.343	6341	16.219	8774	
25.837	2936	26.996	3728	17.040	4377	16.398	7089	16.269	2729	
25.924	3445	27.108	2813	17.078	2847	16.430	3519	16.289	2801	
26.073	4907	27.140	3908	17.126	11265	16.459	3642	16.329	5176	
26.143	3408	27.232	3780	17.177	5748	16.484	5924	16.370	6385	
26.196	3295	27.274	2955	17.214	3619	16.531	6214	16.441	7208	
26.265	3395	27.341	4894	17.237	3922	16.557	3819	16.487	5549	
26.307	2562	27.380	2691	17.267	4170	16.606	9376	16.516	6413	
26.348	2554	27.419	2844	17.287	4602	16.636	4574	16.561	12945	
26.430	5126	27.567	3436	17.319	6466	16.654	4774	16.633	5803	
26.499	4157	27.608	3204	17.350	5375	16.684	3924	16.657	3996	
26.558	2820	27.680	3272	17.386	12382	16.715	6868	16.716	11597	
26.579	3187	27.744	3704	17.474	11924	16.751	6681	16.770	6820	
26.700	2940	27.792	2768	17.512	7146	16.797	6885	16.796	4258	
26.752	2836	27.832	2992	17.567	11125	16.829	6741	16.822	3538	
26.788	2877	27.883	4224	17.592	5405	16.898	15863	16.848	4732	
26.841	2800	27.959	4222	17.616	8102	16.942	7738	16.873	4864	
26.914	6634	28.013	4252	17.655	5758	17.022	26822	16.930	12276	
27.091	2516	28.095	3972	17.680	4737	17.103	8820	16.969	7470	
27.130	3063	28.235	3312	17.704	4591	17.124	6810	17.008	8309	
27.150	3302	28.296	3617	17.732	5176	17.162	10821	17.038	5474	
27.196	3279	28.347	3302	17.770	7979	17.193	15459	17.090	14366	
27.434	3992	28.394	4479	17.792	8597	17.249	10937	17.132	8645	
27.479	2968	28.466	3613	17.848	14837	17.275	13534	17.161	7462	
27.581	4380	28.518	2882	17.905	9369	17.329	9492	17.222	11723	

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"	
m/z 394		m/z 396		m/z 398		m/z 322		m/z 360		m/z 362		m/z 323	
				42.560	2575	26.342	2721			42.745	2508	25.069	3065
						26.767	3024					26.099	2505
						26.834	2501					26.764	3020
						26.965	3027					27.050	2867
						27.099	2862					27.163	2965
						27.306	2690					27.426	3908
						27.379	3859					27.896	2853
						28.209	2931					27.995	3388
												28.032	2507
												28.258	2957
												28.313	3498
												28.467	2685
												28.532	3492
												28.708	2870
												28.795	2775
												28.903	3516
												28.985	2550
												29.109	3227
												29.235	3165
												29.380	2982
												29.449	3632
												29.485	2664
												29.765	3481
												29.823	4308
												29.869	2844
												29.947	3878
												29.999	3934
												30.093	3028
												30.143	4091
												30.196	2567
												30.269	5227
												30.401	3485
												30.491	4825
												30.599	3424
												30.683	3371
												30.828	2691
												30.888	4413
												30.959	3807
												31.162	3530
												31.203	2769
												31.384	3128
												31.476	3349

Extracted Ion Current Profiles

27.733	3463	28.566	3797	17.932	5828	17.375	11520	17.250	5103
27.764	6164	28.764	2964	17.957	5214	17.407	6879	17.288	8738
27.865	3150	28.796	2614	17.984	8722	17.426	7798	17.338	11563
27.889	3558	28.833	2513	18.032	9836	17.463	14645	17.364	8865
27.920	4179	28.874	2560	18.060	6800	17.501	5783	17.400	5535
27.980	4602	28.906	2534	18.084	11072	17.530	7059	17.438	12184
28.142	2596	28.946	3348	18.125	7760	17.575	24326	17.476	6296
28.188	3360	28.994	2522	18.147	11294	17.666	25295	17.511	9524
28.232	5944	29.105	4057	18.184	6952	17.717	13193	17.540	6037
28.373	2819	29.209	2558	18.229	13456	17.743	8896	17.570	8990
28.503	3076	29.260	3628	18.287	21290	17.768	8111	17.607	6457
28.576	3929	29.376	5473	18.343	8189	17.792	7790	17.629	6840
28.642	4359	29.477	3590	18.357	7444	17.819	8299	17.669	12545
28.692	2552	29.545	5001	18.399	11406	17.844	8436	17.691	7649
28.772	3442	29.647	3979	18.430	6900	17.878	12367	17.720	12880
28.809	3159	29.685	2512	18.459	15553	17.916	18883	17.782	13068
28.871	2702	29.754	2612	18.504	7146	17.956	9560	17.817	7641
28.905	3124	29.814	4254	18.531	11853	18.002	20281	17.844	6523
28.967	4604	29.878	4354	18.568	9367	18.033	13862	17.891	11192
29.027	4145	30.002	2587	18.589	12986	18.082	16113	17.937	9068
29.089	4813	30.031	3620	18.644	12740	18.108	10416	17.956	10053
29.130	3731	30.074	2503	18.663	12798	18.160	21531	18.018	14950
29.259	2623	30.112	3363	18.704	8447	18.184	11444	18.046	5498
29.292	2741	30.269	3604	18.728	9323	18.229	20857	18.071	7345
29.343	2989	30.639	3811	18.754	11267	18.263	19943	18.095	7585
29.413	6289	30.744	2642	18.817	22719	18.315	11305	18.128	12234
29.466	3592	30.802	3216	18.856	9125	18.337	11378	18.168	11958
29.616	2607	30.939	2613	18.882	14038	18.361	10675	18.204	15765
29.706	3706	30.974	2647	18.936	18179	18.388	11269	18.248	8781
29.741	3002	31.047	2856	18.970	9398	18.425	18589	18.297	18763
29.840	3545	31.105	2725	18.995	15147	18.455	18287	18.325	9122
29.926	4877	31.324	2527	19.044	14255	18.487	24207	18.358	12076
29.988	4183	31.380	3103	19.074	21121	18.539	11587	18.387	7903
30.058	3281	31.428	3147	19.123	16167	18.581	31426	18.413	7333
30.090	2593	31.465	2932	19.167	14038	18.627	11733	18.441	13691
30.154	2683	31.508	2887	19.197	10048	18.656	12385	18.495	10549
30.244	2676	31.623	2650	19.225	22550	18.689	24129	18.541	11690
30.291	4145	31.747	3871	19.276	10968	18.743	19113	18.573	12891
30.354	5012	31.844	3806	19.296	10791	18.766	12793	18.611	13724
30.428	3849	31.913	3874	19.327	11252	18.827	38367	18.642	13069
30.499	3347	32.023	5395	19.364	24415	18.866	13144	18.678	11756
30.562	3807	32.110	2877	19.402	17841	18.909	19472	18.740	21235
30.641	3093	32.160	2707	19.481	49293	18.929	13683	18.780	12904
30.689	4597	32.344	4864	19.543	23300	18.955	18316	18.839	17041
30.739	2910	32.428	2810	19.596	25957	18.993	12744	18.868	7574
30.816	4411	32.720	3267	19.641	11773	19.023	11983	18.893	7577

Extracted Ion Current Profiles

31.567	3609
31.738	4143
31.960	3072
32.150	3150
32.224	4575
32.443	3868
32.619	3532
32.688	2998
32.846	3919
32.949	3503
33.021	2993
33.124	2550
33.318	3362
33.369	2706
33.426	2569
33.480	3865
33.567	2581
33.751	3569
33.956	2887
34.152	2548
34.478	2834
34.575	3266
34.649	3396
34.803	2591
35.607	2614
36.078	3308
36.949	2807
37.082	4071
37.320	2607

Extracted Ion Current Profiles

30.866	4000	33.034	2504	19.684	25185	19.041	11395	18.939	17319
30.966	5017	33.092	2937	19.720	11349	19.079	18222	18.978	19046
31.071	2820	33.692	3472	19.762	23874	19.113	19790	19.018	8819
31.154	3425	33.973	3244	19.816	27777	19.157	29056	19.044	11761
31.227	2597			19.873	22501	19.196	27568	19.086	13597
31.262	2543			19.917	17381	19.253	34701	19.122	8944
31.299	2547			19.940	18628	19.310	20115	19.147	9630
31.401	5348			19.991	30198	19.348	17837	19.172	8724
31.470	3085			20.040	17314	19.388	13199	19.199	17048
31.543	3017			20.086	25573	19.412	14186	19.235	14668
31.581	3106			20.124	11822	19.457	28519	19.271	9418
31.751	4238			20.162	17258	19.491	13115	19.295	9054
31.840	2992			20.189	12459	19.512	15030	19.328	13823
31.976	4445			20.225	32195	19.544	22562	19.362	14922
32.066	3321			20.273	12572	19.589	21388	19.407	15451
32.141	2579			20.311	24758	19.617	31336	19.440	17627
32.209	3969			20.370	26900	19.664	16007	19.490	10338
32.263	2553			20.397	13224	19.714	22869	19.512	10430
32.457	3165			20.423	19673	19.742	14660	19.546	19409
32.510	3277			20.466	23538	19.769	15457	19.592	8772
32.615	2832			20.516	19211	19.792	15126	19.610	9395
32.835	2931			20.559	19912	19.815	14912	19.642	9363
33.325	2586			20.582	12730	19.846	26470	19.674	15941
33.378	2591			20.620	30473	19.892	19263	19.702	13631
33.620	2703			20.705	42696	19.950	27851	19.779	23243
33.873	3341			20.740	14343	20.001	28059	19.817	12722
34.123	2616			20.768	12489	20.026	14007	19.859	8525
34.783	3127			20.793	11462	20.061	20947	19.875	8723
38.047	3038			20.843	23871	20.100	21591	19.907	12539
				20.918	57301	20.124	14549	19.940	8631
				20.966	12763	20.166	36391	19.967	12841
				20.993	13329	20.215	22777	20.007	13710
				21.017	15304	20.249	13492	20.044	9363
				21.040	21580	20.279	21080	20.062	10202
				21.076	19603	20.308	13886	20.098	15264
				21.133	26429	20.342	13250	20.134	13406
				21.161	12982	20.361	20427	20.167	10820
				21.196	18488	20.400	20146	20.187	16964
				21.231	12395	20.445	23837	20.239	14516
				21.252	22030	20.486	12017	20.261	14783
				21.286	15110	20.514	12544	20.324	19289
				21.322	29770	20.537	19762	20.348	9249
				21.372	22862	20.578	31963	20.376	9265
				21.398	14774	20.607	45775	20.395	9620
				21.424	13834	20.667	15709	20.422	7673
				21.448	20578	20.694	12509	20.455	10016

21.498	22762	20.744	33518	20.508	19180
21.521	22941	20.797	20521	20.554	14688
21.581	37987	20.817	14250	20.585	22337
21.622	13180	20.842	13376	20.644	10570
21.657	33379	20.880	22200	20.702	14875
21.708	27198	20.904	14238	20.744	10944
21.770	19371	20.928	27096	20.771	16856
21.795	13601	20.978	11896	20.816	8850
21.819	20505	21.005	12698	20.842	7904
21.855	11435	21.037	20479	20.875	12177
21.893	20077	21.078	26282	20.913	12393
21.919	56778	21.121	17529	20.941	10881
22.013	13498	21.152	12739	20.977	7304
22.043	20851	21.202	37809	21.018	11917
22.077	13171	21.291	45857	21.042	13666
22.103	14155	21.336	12704	21.079	12858
22.127	13249	21.369	18862	21.111	11126
22.153	20045	21.398	11894	21.174	13674
22.200	21518	21.436	18148	21.213	11418
22.235	20981	21.460	12106	21.237	7495
22.267	14241	21.504	24562	21.273	14214
22.327	55724	21.558	24934	21.315	7034
22.373	28156	21.596	44729	21.347	11221
22.424	12024	21.673	11088	21.379	12071
22.449	12880	21.699	11691	21.411	8565
22.475	24182	21.722	25978	21.442	16810
22.530	17475	21.780	22067	21.485	6468
22.559	11817	21.824	9240	21.533	21826
22.599	21373	21.843	10742	21.584	7325
22.637	11990	21.866	10661	21.608	6960
22.681	26720	21.909	23424	21.632	9752
22.709	13347	21.951	24165	21.675	6253
22.732	12699	21.991	16581	21.694	6305
22.757	11551	22.028	11060	21.719	6005
22.794	18259	22.056	11010	21.746	6124
22.817	12469	22.080	31528	21.782	13520
22.846	24498	22.152	9655	21.818	10875
22.893	11712	22.202	20639	21.871	12279
22.920	18643	22.229	21625	21.916	5998
22.956	12175	22.300	23655	21.943	6042
22.980	13073	22.344	25505	21.966	5817
23.006	26121	22.374	10139	21.991	7821
23.086	30142	22.399	9304	22.109	121756
23.115	11571	22.436	13516	22.257	18982
23.162	24778	22.461	9707	22.289	6195
23.211	31980	22.494	14003	22.323	14761

Extracted Ion Current Profiles

23.251	12565	22.527	9190	22.357	6420
23.288	24128	22.546	10180	22.395	12002
23.326	11924	22.573	14954	22.439	6831
23.363	23987	22.619	16346	22.460	6652
23.398	11831	22.655	20921	22.489	9575
23.424	11670	22.702	15867	22.534	9291
23.462	28198	22.781	45335	22.560	6997
23.515	18654	22.831	10209	22.586	6180
23.548	17420	22.874	20440	22.609	6019
23.596	23584	22.900	14311	22.633	4648
23.633	11314	22.943	9120	22.669	7549
23.661	15582	22.980	19228	22.706	7712
23.695	9750	23.029	16685	22.743	7124
23.734	15178	23.057	15989	22.770	6511
23.756	10633	23.091	8716	22.808	4099
23.783	9713	23.127	13374	22.830	4224
23.823	20805	23.162	14137	22.880	9420
23.857	12668	23.191	11438	22.906	4868
23.897	8285	23.263	20219	22.946	8674
23.921	9162	23.313	21036	22.962	8275
23.943	8519	23.356	8591	23.006	13261
23.969	8885	23.382	17365	23.090	18596
24.016	26181	23.426	8513	23.152	11220
24.070	7929	23.449	7849	23.189	4227
24.104	13396	23.474	7601	23.215	6267
24.129	9037	23.502	7317	23.253	4830
24.154	9169	23.524	8266	23.276	4755
24.186	13523	23.548	10358	23.301	4493
24.249	23127	23.600	11093	23.353	12790
24.294	22810	23.619	7924	23.445	15816
24.354	24757	23.647	6757	23.475	4335
24.428	14566	23.675	11075	23.526	9690
24.465	7745	23.718	13402	23.566	10047
24.498	12546	23.758	6379	23.594	11401
24.537	11806	23.783	9757	23.622	5514
24.565	13038	23.833	10694	23.649	4154
24.613	22151	23.856	14507	23.672	8866
24.661	14769	23.902	6182	23.731	8461
24.714	11022	23.932	6839	23.773	8787
24.748	11875	23.991	19968	23.818	4237
24.809	19063	24.030	9688	23.846	4279
24.835	18282	24.065	6240	23.869	4155
24.883	9191	24.091	6160	23.894	4664
24.916	12305	24.125	9460	23.919	4212
24.968	16981	24.156	4852	23.943	3326
24.995	11460	24.180	6057	23.969	3566

Extracted Ion Current Profiles

25.034	7987	24.217	15374	24.000	7487
25.058	8104	24.274	8258	24.030	5498
25.091	13142	24.320	12738	24.063	9794
25.131	16074	24.367	10983	24.104	4247
25.183	21533	24.427	8116	24.139	8177
25.248	12411	24.476	14361	24.183	3417
25.311	15524	24.512	5521	24.204	6896
25.351	5745	24.548	10572	24.264	5678
25.424	20961	24.573	7398	24.293	5794
25.479	7165	24.599	10086	24.327	3347
25.526	8263	24.636	5955	24.373	6656
25.556	8673	24.661	5580	24.407	3880
25.590	4428	24.686	9607	24.424	4506
25.616	7003	24.755	9262	24.451	4759
25.651	4539	24.800	7927	24.524	10885
25.677	5156	24.845	7814	24.562	3256
25.713	8948	24.882	9532	24.590	2714
25.736	6330	24.909	12348	24.611	3689
25.769	10748	24.959	8006	24.636	2995
25.834	13743	24.996	4442	24.663	3911
25.883	7455	25.024	4572	24.692	3826
25.913	8699	25.043	5107	24.710	5569
25.962	6173	25.072	5837	24.746	5902
26.013	9821	25.108	4708	24.800	5403
26.047	6637	25.132	4889	24.834	5060
26.087	8073	25.176	9151	24.879	4680
26.161	7680	25.219	5934	24.911	4692
26.184	4353	25.244	5045	24.949	5683
26.208	5005	25.267	4559	24.983	5252
26.236	4348	25.315	12615	25.041	7461
26.256	4677	25.349	9037	25.072	3911
26.294	10794	25.378	4465	25.094	3841
26.344	3943	25.403	3701	25.118	3981
26.381	9044	25.429	3455	25.143	4765
26.433	5448	25.451	3640	25.184	5937
26.468	3845	25.479	3315	25.231	3229
26.505	5615	25.524	6682	25.253	3289
26.535	5520	25.573	9143	25.282	3615
26.579	6911	25.614	3518	25.304	3258
26.609	9248	25.647	6451	25.344	4790
26.655	4294	25.683	6205	25.366	3510
26.690	7962	25.726	5185	25.391	3732
26.716	11892	25.751	3794	25.463	9401
26.779	4700	25.773	3895	25.505	4374
26.806	9011	25.823	13526	25.540	3091
26.848	3896	25.957	8480	25.577	6819

Extracted Ion Current Profiles

26.895	5436	26.023	5472	25.621	6722
26.912	4032	26.076	3280	25.668	4344
26.953	9140	26.095	2893	25.711	5515
27.023	7093	26.134	4772	25.761	4718
27.050	3680	26.171	2631	25.787	5724
27.076	4317	26.200	2763	25.846	3961
27.117	3321	26.225	3093	25.879	3025
27.135	3450	26.246	6478	25.897	4568
27.175	4552	26.294	4356	25.964	3182
27.200	3361	26.334	2993	25.985	3491
27.230	5499	26.357	2841	26.023	8547
27.261	3472	26.408	7279	26.072	2618
27.299	4552	26.456	5428	26.103	4058
27.335	4970	26.507	3354	26.134	3344
27.361	2982	26.530	3575	26.165	4014
27.396	6239	26.573	3752	26.226	2588
27.465	6799	26.617	6133	26.244	2778
27.486	3744	26.667	4466	26.273	2756
27.510	3619	26.689	3008	26.295	2561
27.535	3470	26.722	5139	26.324	4742
27.585	7812	26.788	4582	26.357	2907
27.607	7159	26.842	5315	26.381	4165
27.656	3506	26.865	3858	26.435	5621
27.696	2685	26.937	3634	26.484	6028
27.716	2644	26.998	3862	26.539	5716
27.749	3884	27.053	2703	26.568	2551
27.780	5154	27.077	4694	26.665	4567
27.861	3887	27.160	3968	26.721	3216
27.888	2796	27.184	2674	26.792	6270
27.910	3357	27.213	4313	26.816	5885
27.943	5772	27.273	3494	26.887	3670
27.995	5534	27.362	5700	26.947	6673
28.047	5704	27.417	5251	26.996	4472
28.082	4620	27.465	3260	27.063	4830
28.123	4378	27.536	3944	27.113	3830
28.153	5433	27.662	3613	27.140	4201
28.235	5914	27.714	4575	27.206	5802
28.296	3514	27.765	2886	27.273	3458
28.326	4418	27.795	2810	27.346	4220
28.408	3485	28.011	2884	27.409	3281
28.433	2616	28.114	4330	27.441	2957
28.455	2544	28.148	3689	27.486	4238
28.484	4235	28.224	4211	27.526	3330
28.524	3557	28.252	3877	27.605	4980
28.559	4390	28.312	3268	27.656	3711
28.611	3254	28.347	4078	27.779	3323

Extracted Ion Current Profiles

28.649	3266	28.456	4062	27.827	2854
28.686	4839	28.818	2594	27.890	2785
28.751	5216	28.860	2608	27.936	4892
28.836	3900	29.098	2729	28.075	3724
28.859	4481	29.280	3176	28.112	2848
28.908	3221	29.377	2828	28.148	3258
28.977	4876	29.419	3363	28.181	3841
29.050	5885	29.938	3482	28.228	2828
29.100	2949	30.663	2588	28.280	3496
29.125	3261	30.919	3739	28.344	2892
29.161	4364	31.644	3955	28.374	2833
29.259	4792	32.101	2770	28.456	2880
29.306	3393	32.517	2602	28.495	3701
29.477	7837	32.656	3510	28.585	3189
29.599	4368			28.755	3704
29.705	3139			28.966	3955
29.744	2576			29.103	2645
29.803	3785			29.121	3298
29.855	2769			29.215	2796
29.889	2855			29.324	3007
29.924	3104			29.388	2941
29.976	3555			29.453	3198
30.029	2717			29.916	2549
30.199	3013			30.034	3232
30.346	2679			30.119	3863
30.609	2969			30.148	3240
30.782	3141			30.254	2618
31.092	3586			30.391	3838
31.114	6583			30.605	2518
31.272	2540			30.651	2981
31.664	4072			30.684	2805
31.932	3832			30.960	2850
32.373	2690			31.060	3603
37.632	3174			31.094	2935
				31.205	2687
				31.309	3709
				31.423	2798
				31.565	3224
				31.641	2976
				31.777	2557
				32.095	2714
				32.224	2642
				32.518	3186
				32.589	2811
				33.311	2614
				33.641	3194

Extracted Ion Current Profiles

34.090	2915
34.417	3237
34.995	2592
36.285	3117

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"	"M3011123"
m/z 360		m/z 362		m/z 288		m/z 290		m/z 426	m/z 428
		42.745	2508	18.070	3168	17.946	3284		
				18.143	4413	18.113	2916		
				18.409	2796	18.625	2681		
				18.453	3723	18.767	2516		
				18.494	2928	18.794	3169		
				18.528	3141	18.840	2885		
				18.581	4541	18.965	6251		
				18.676	2665	19.282	6556		
				18.714	2835	19.344	2780		
				18.877	4503	19.406	6290		
				18.920	2623	19.487	2789		
				18.949	4554	19.528	3625		
				19.036	2716	19.551	3765		
				19.100	5115	19.672	2675		
				19.151	4811	19.752	5026		
				19.195	4846	19.803	2762		
				19.232	7992	19.829	2761		
				19.290	3022	19.866	3505		
				19.307	5150	19.889	2698		
				19.366	13307	19.917	4762		
				19.459	3758	20.014	3503		
				19.499	5693	20.046	2993		
				19.541	8451	20.084	3547		
				19.603	3492	20.124	3488		
				19.626	3341	20.160	3469		
				19.679	8253	20.198	5350		
				19.715	3224	20.283	5196		
				19.751	5240	20.317	2862		
				19.813	12142	20.338	3597		
				19.866	5343	20.385	6283		
				19.901	10080	20.423	2776		
				19.955	3286	20.447	4915		
				19.977	3812	20.500	3292		
				20.004	5837	20.537	6462		
				20.037	3853	20.598	3404		
				20.070	9042	20.619	3205		
				20.128	7127	20.649	2582		
				20.176	4941	20.673	5500		
				20.213	8326	20.787	8038		
				20.277	6192	20.869	5967		
				20.311	3661	20.934	5822		
				20.340	3990	20.976	4818		

Extracted Ion Current Profiles

Hexachlorobiphenyls															
"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"	
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
40.458	2635	40.018	2556	20.072	5819							42.560	2575	20.063	4553
40.820	2994	42.018	3121	30.172	2960									32.007	2819
42.808	2530	42.524	2690	32.094	2964									35.102	3631
43.030	2810	42.640	2562	32.759	2943									36.259	2651
43.525	3620	42.748	4119	33.504	2926									36.608	2908
44.711	2596	43.354	2538	33.989	2747									36.867	3547
		43.627	3387	34.367	3305									36.970	2618
		43.974	2666											37.214	4861
		44.885	2972											37.291	4984
														37.326	3214
														38.109	3021
														38.178	3188
														38.613	2945
														38.651	2866
														38.875	3265
														39.202	3226
														39.243	4263
														39.450	3088
														39.493	2572
														39.525	3507
														39.773	3631
														40.003	2660
														40.043	3610
														40.213	6120
														40.327	3999
														40.363	2688
														40.444	3226
														40.753	3441
														40.888	3590
														40.922	2930
														41.119	2537
														41.152	5848
														41.290	3086
														41.388	12640
														41.531	2540
														41.671	9980
														42.266	8583
														42.291	6375
														42.396	2765
														42.868	2556
														42.962	3166
														43.370	3322

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"	
m/z 394		m/z 396		m/z 322		m/z 324		m/z 326		m/z 462	
				26.342	2721	23.817	2623	23.484	2873	44.032	2634
				26.767	3024	24.945	5196	24.022	3137		
				26.834	2501	25.030	2630	24.287	4254		
				26.965	3027	25.575	3604	24.414	3869		
				27.099	2862	25.687	2593	24.517	2841		
				27.306	2690	25.774	3257	24.585	2711		
				27.379	3859	25.872	3560	24.627	2759		
				28.209	2931	25.916	2806	24.716	3725		
						25.964	3266	25.035	2963		
						26.062	3629	25.089	4140		
						26.222	2505	25.163	3018		
						26.259	3566	25.269	3488		
						26.442	5929	25.293	2703		
						26.605	2577	25.419	2856		
						26.653	3129	25.493	3269		
						26.724	4088	25.577	3513		
						26.851	2676	25.624	2782		
						26.924	3874	25.760	4344		
						26.996	3728	25.837	2936		
						27.108	2813	25.924	3445		
						27.140	3908	26.073	4907		
						27.232	3780	26.143	3408		
						27.274	2955	26.196	3295		
						27.341	4894	26.265	3395		
						27.380	2691	26.307	2562		
						27.419	2844	26.348	2554		
						27.567	3436	26.430	5126		
						27.608	3204	26.499	4157		
						27.680	3272	26.558	2820		
						27.744	3704	26.579	3187		
						27.792	2768	26.700	2940		
						27.832	2992	26.752	2836		
						27.883	4224	26.788	2877		
						27.959	4222	26.841	2800		
						28.013	4252	26.914	6634		
						28.095	3972	27.091	2516		
						28.235	3312	27.130	3063		
						28.296	3617	27.150	3302		
						28.347	3302	27.196	3279		
						28.394	4479	27.434	3992		
						28.466	3613	27.479	2968		
						28.518	2882	27.581	4380		

Extracted Ion Current Profiles

Heptachlorobiphenyls													
"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"	
m/z 464		m/z 466		m/z 390		m/z 428		m/z 430		m/z 432		m/z 391	
		41.889	2595	43.405	2967			40.458	2635	40.018	2556	40.842	11426
		43.588	3018	44.316	3639			40.820	2994	42.018	3121		
								42.808	2530	42.524	2690		
								43.030	2810	42.640	2562		
								43.525	3620	42.748	4119		
								44.711	2596	43.354	2538		
										43.627	3387		
										43.974	2666		
										44.885	2972		

Extracted Ion Current Profiles

Octachlorobiphenyls											
"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"		"M3011123"	
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462	
40.458	2635			20.072	5819	32.453	2803			44.032	2634
40.820	2994			30.172	2960	33.053	2770				
42.808	2530			32.094	2964	34.715	3161				
43.030	2810			32.759	2943	36.174	2545				
43.525	3620			33.504	2926	36.993	2785				
44.711	2596			33.989	2747	41.365	2626				
				34.367	3305	42.245	4588				
						42.285	3270				
						43.670	2553				

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3011123"	"M3011123"		"M3011123"	
m/z 464	m/z 466		m/z 425	
	41.889	2595	40.651	2880
	43.588	3018	44.099	2814

Extracted Ion Current Profiles

Nonachlorobiphenyls								
"M3011123"	"M3011123"		"M3011123"		"M3011123"		"M3011123"	
m/z 464	m/z 466		m/z 390		m/z 392		m/z 394	
	41.889	2595	43.405	2967				
	43.588	3018	44.316	3639				

Extracted Ion Current Profiles

Decachlorobiphenyl					
"M3011123"	"M3011123"	"M3011123"	"M3011123"	"M3011123"	"M3011123"
m/z 498	m/z 500	m/z 424	m/z 426	m/z 428	m/z 430
					40.458 2635
					40.820 2994
					42.808 2530
					43.030 2810
					43.525 3620
					44.711 2596

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011123"		"M3011123"				"M3011123"		"M3011123"			"M3011123"		"M3011123"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.323	10986	11.322	1431	424	240	18.380	41537	16.919	68668	188	10.272	2811	8.813	2661
11.972	880(M)	11.960	614(M)	426	241	18.609	32990	17.249	46345	189	10.907	7677	9.206	2984
12.098	21129	12.669	587	428		18.833	42349	17.588	41802		11.327	15626	10.904	17815
12.219	517	12.795	608	430		19.233	36869	17.695	75996		12.094	4272	11.345	5575
12.367	1812	13.015	511	498		19.476	33397	17.795	38464		12.555	2768	11.530	2663
12.667	1850	13.282	795	500		19.628	36052	17.873	41400		13.314	3306	12.098	3777
12.879	558	13.396	1134			34.269	229427	18.029	32888		13.728	2682	12.308	3458
12.950	718	13.433	618					18.084	41262		14.270	3246	12.490	4505
13.019	1702	13.483	667					18.192	41062		14.330	2960	12.564	2676
13.040	2946	13.534	632					18.248	39062		14.424	4475	12.644	5685
13.129	1021	13.561	1503					18.458	34156		14.503	4440	12.757	3003
13.161	554	13.637	937					18.534	35765		14.574	5439	12.815	2578
13.197	1072	13.670	1008					18.629	51333		14.654	5139	12.937	4279
13.280	975	13.693	684					18.692	36353		14.705	3184	12.993	7570
13.348	597	13.727	1491					18.762	44348		14.735	3980	13.195	6691
13.374	1080	13.789	2147					18.967	44790		14.844	6490	13.316	16759
13.432	785	13.828	795					19.027	66731		14.915	3052	13.433	4859
13.471	989	13.867	1176					19.147	60223		14.966	3401	13.470	2668
13.496	787	13.895	881					19.368	58671		14.995	4399	13.602	11315
13.539	1658	13.913	805					19.416	32671		15.051	5912	13.679	3440
13.570	640	13.945	1045					19.525	61671		15.112	3779	13.752	6847
13.604	1040	13.982	807					19.630	36325		15.153	3798	13.793	4389
13.631	833	14.008	1790					19.661	39486		15.208	5879	13.854	2776
13.654	790	14.076	3859					19.702	39298		15.267	3388	13.913	5683
13.742	1898	14.140	1058					34.264	41199(M)		15.299	4432	14.009	8622
13.768	841	14.179	2515								15.342	3246	14.071	13917
13.795	849	14.226	1016								15.397	4851	14.233	8482
13.815	869	14.255	2438								15.437	2589	14.271	6017
13.843	758	14.330	2322								15.473	5001	14.352	8756
13.871	1106	14.348	1247								15.512	3570	14.387	4206
13.921	1444	14.394	1988								15.554	3956	14.427	11595
13.951	2331	14.439	3156								15.625	9318	14.513	5923
13.995	1780	14.466	1522								15.704	4011	14.572	17934
14.036	1818	14.489	2114								15.809	244819	14.642	5582
14.102	3086	14.529	1665								15.950	7685	14.699	4725
14.150	3132	14.557	1748								15.991	5439	14.757	10854
14.178	1824	14.577	1885								16.038	8131	14.838	9707
14.225	1449	14.603	2057								16.103	6746	14.854	7258
14.259	1944	14.640	4559								16.134	4102	14.889	4934
14.293	2137	14.677	2761								16.179	7961	14.924	4698
14.330	1338	14.714	1681								16.220	7519	14.975	9080
14.352	1945	14.763	3748								16.241	3841	15.016	8840

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.617	10667	42.613	8515
512				

Extracted Ion Current Profiles

14.411	2964	14.794	4343
14.450	2357	14.839	1995
14.477	1315	14.865	3550
14.518	2091	14.906	3720
14.542	2704	14.950	5119
14.582	1829	14.990	3476
14.602	2494	15.028	3256
14.641	1682	15.077	4624
14.664	1686	15.110	4660
14.724	6902	15.140	3288
14.776	2695	15.164	2954
14.839	3963	15.195	3957
14.864	3213	15.250	8268
14.906	2493	15.295	4236
14.922	3624	15.351	6607
14.979	5958	15.385	4722
15.051	12954	15.433	9131
15.107	2979	15.504	12140
15.127	6304	15.604	14963
15.192	6473	15.645	8881
15.250	4583	15.701	6794
15.280	4453	15.727	4723
15.314	2624	15.780	11845
15.347	4792	15.826	7506

16.280	5396	15.069	9027
16.326	8410	15.128	7548
16.373	4034	15.161	9240
16.434	8836	15.221	6962
16.465	4483	15.268	9223
16.499	3660	15.304	5532
16.527	8383	15.395	20248
16.567	5170	15.440	14151
16.605	5835	15.480	7057
16.666	7303	15.500	6828
16.702	9283	15.552	7083
16.769	7058	15.582	4493
16.842	9049	15.621	11422
16.855	4278	15.683	9474
16.900	5934	15.811	79209
16.941	5167	15.934	19918
16.973	6418	15.987	13304
17.012	7934	16.028	13601
17.068	12071	16.066	10953
17.129	9052	16.125	14197
17.159	9283	16.182	13439
17.205	7793	16.209	19368
17.254	8428	16.291	11688
17.296	9728	16.336	10083

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: BG-28
Lab Sample ID: 12010053-11 (AP00236)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-314-24	PCBs by EPA Method TO-4A/680	01/12/2012 03:05	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16875	EPA 3540C	01/05/2012 15:30	HAG	367.30m³	1.00 mL	NA

Analyte	CAS No.	Result (ug/m³)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.0000140	1.00	U	MS03-314-24
Dichlorobiphenyl	25512-42-9	ND	0.0000140	1.00	U	MS03-314-24
Trichlorobiphenyl	25323-68-6	ND	0.0000140	1.00	U	MS03-314-24
Tetrachlorobiphenyl	26914-33-0	ND	0.0000270	1.00	U	MS03-314-24
Pentachlorobiphenyl	25429-29-2	ND	0.0000270	1.00	U	MS03-314-24
Hexachlorobiphenyl	26601-64-9	ND	0.0000270	1.00	U	MS03-314-24
Heptachlorobiphenyl	28655-71-2	ND	0.0000410	1.00	U	MS03-314-24
Octachlorobiphenyl	55722-26-4	ND	0.0000410	1.00	U	MS03-314-24
Nonachlorobiphenyl	53742-07-7	ND	0.0000680	1.00	U	MS03-314-24
Decachlorobiphenyl	2051-24-3	ND	0.0000680	1.00	U	MS03-314-24
Total PCB	1336-36-3	ND		1.00	U	MS03-314-24

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	73.8	42.5-134		MS03-314-24
Tetrachloro-meta-xylene	877-09-8	88.1	17.9-137		MS03-314-24

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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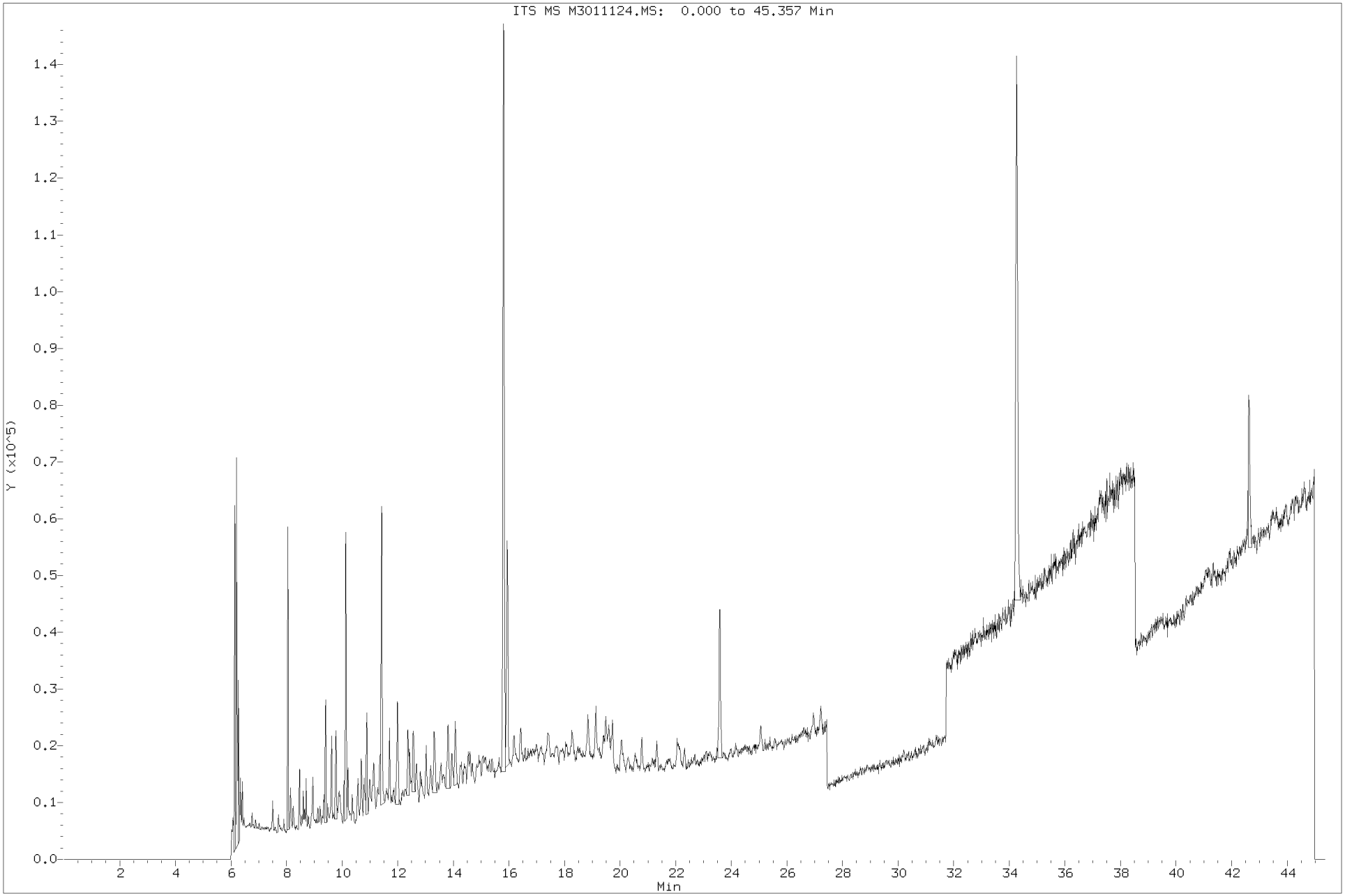
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011124.d/M3011124.MS
Injection Date: 12-JAN-2012 03:05
Instrument: GCMS03.i
Client Sample ID: BG-28



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	BG-28
Matrix:	TO-4A PUF	Lab Sample ID:	AP00236
Sample weight:	367.3 cubic m	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/12/2012
Dilution Factor:	1	Time Analyzed:	3:05

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug/m^3	ug/m^3	ug/m^3	
				Mono Total:		0.0000136	0.0000136	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug/m^3	ug/m^3	ug/m^3	
				Di Total:		0.0000136	0.0000136	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Tri Total:		0.0000136	0.0000136	ND	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Tetra Total:		0.0000272	0.0000272	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug/m^3	ug/m^3	ug/m^3	
				Penta Total:		0.0000272	0.0000272	ND	

Hexachlorobiphenyls									
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug/m^3	Reporting Limit ug/m^3	Report Amount ug/m^3	Flag
					Hexa Total:	0.0000272	0.0000272	ND	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug/m^3	Reporting Limit ug/m^3	Report Amount ug/m^3	Flag
					Hepta Total:	0.0000408	0.0000408	ND	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/m^3	Reporting Limit ug/m^3	Report Amount ug/m^3	Flag
					Octa Total:	0.0000408	0.0000408	ND	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/m^3	Reporting Limit ug/m^3	Report Amount ug/m^3	Flag
					Nona Total:	0.0000681	0.0000681	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/m^3	Reporting Limit ug/m^3	Report Amount ug/m^3	Flag
					Deca Total:	0.0000681	0.0000681	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.964	1080	11.963	628	1.7	0.2041		0.0176	
					TCMX Total:		0.0176	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT m/z 510	Quant Ion Area	Confirm Ion RT m/z 512	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor		Solution Concentration ug/mL	Flag
42.621	22534	42.623	19356	1.2	1.0171		0.0738	
					Deca Total:		0.0738	

TCMX Recovery %	88.1 %
Deca Recovery	73.8 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.262	240148	34.257	51185	4.7	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011124"		"M3011124"		"M3011124"		"M3011124"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.805	223126	8.141	2063	6.141	6935	6.757	3304
16.181	3366	15.807	4965	6.210	8220	6.890	2546
19.490	1886	18.108	1974	6.275	3233	8.047	19036
		18.850	3067	7.712	4658	8.469	2340
		19.128	4077	8.047	14024	8.943	1969
		19.491	10674	8.143	1831	9.404	9523
		19.736	2114	8.471	1988	9.619	6900
				8.779	1945	9.778	3941
				9.405	12231	9.935	2594
				9.621	8138	10.072	1889
				9.776	2471	10.206	2433
				9.889	1896	10.574	2087
				10.692	2083	10.695	2655
				10.789	3158	10.989	2065
				11.139	5090	11.298	2098
				11.275	2848	11.370	2865
				11.425	4200	11.590	4033
				11.590	2835	11.704	2674
				11.695	4006	11.874	1846
				11.991	6711	11.997	3184
				12.365	3997	12.364	1806
				12.424	3475	12.682	2000
				12.494	1836	12.863	3360
				12.579	2435	15.937	5890
				13.559	2513		
				13.811	3463		
				13.955	2000		
				14.086	3074		
				14.303	1834		
				14.399	2762		
				14.533	2349		
				15.940	37736		
				16.597	2566		
				17.101	3444		
				17.409	2927		
				17.850	2550		
				18.458	3377		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.025	2280			6.141	6935	6.757	3304	13.938	2308	15.805	223126
13.314	3719			6.210	8220	6.890	2546	15.810	25981	16.181	3366
				6.275	3233	8.047	19036	16.192	3120	19.490	1886
				7.712	4658	8.469	2340	21.319	2154		
				8.047	14024	8.943	1969				
				8.143	1831	9.404	9523				
				8.471	1988	9.619	6900				
				8.779	1945	9.778	3941				
				9.405	12231	9.935	2594				
				9.621	8138	10.072	1889				
				9.776	2471	10.206	2433				
				9.889	1896	10.574	2087				
				10.692	2083	10.695	2655				
				10.789	3158	10.989	2065				
				11.139	5090	11.298	2098				
				11.275	2848	11.370	2865				
				11.425	4200	11.590	4033				
				11.590	2835	11.704	2674				
				11.695	4006	11.874	1846				
				11.991	6711	11.997	3184				
				12.365	3997	12.364	1806				
				12.424	3475	12.682	2000				
				12.494	1836	12.863	3360				
				12.579	2435	15.937	5890				
				13.559	2513						
				13.811	3463						
				13.955	2000						
				14.086	3074						
				14.303	1834						
				14.399	2762						
				14.533	2349						
				15.940	37736						
				16.597	2566						
				17.101	3444						
				17.409	2927						
				17.850	2550						
				18.458	3377						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011124"		"M3011124"		"M3011124"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
20.538	2711	22.050	9710	10.120	6513
22.316	2023	37.027	1957	11.070	2144
				11.413	1923
				13.027	7604
				13.316	16223
				16.425	4158
				20.038	2826
				23.982	3033

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
20.538	2711	22.050	9710	13.938	2308	15.805	223126				
22.316	2023	37.027	1957	15.810	25981	16.181	3366				
				16.192	3120	19.490	1886				
				21.319	2154						

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
		31.105	2544							22.314	6178
		37.931	1903							37.627	1847
										37.887	2181

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"	
m/z 292		m/z 290		m/z 220		m/z 222		m/z 360		m/z 362	
				27.212	2178	13.025	2280	41.629	1879	43.452	1813
						13.314	3719				

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"	
m/z 326		m/z 324		m/z 254		m/z 256		m/z 258		m/z 392	
				31.105	2544	20.538	2711	22.050	9710		
				37.931	1903	22.316	2023	37.027	1957		

Extracted Ion Current Profiles

Pentachlorobiphenyls						
"M3011124"	"M3011124"	"M3011124"	"M3011124"	"M3011124"	"M3011124"	"M3011124"
m/z 394	m/z 396	m/z 398	m/z 322	m/z 360	m/z 362	m/z 323
		43.561 1833		41.629 1879	43.452 1813	

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"	
m/z 360		m/z 362		m/z 288		m/z 290		m/z 426		m/z 428	
41.629	1879	43.452	1813					41.794	1865	43.892	1953
										44.043	1957
										44.305	1808
										44.931	2184

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"	
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
42.397	1827	41.866	1875	42.359	2460							43.561	1833	38.645	2178
42.771	1959	42.554	2089	43.208	1832									39.124	2046
42.849	2018	42.652	1823	43.515	1851									39.217	2760
43.004	2157	43.148	2052	44.082	3388									39.336	2110
43.660	2121	44.173	1812											39.519	3553
44.029	1905	44.317	1828											39.898	2121
44.669	1862	44.474	1959											40.037	2299
		44.737	2547											40.241	3399
														40.339	1846
														40.513	1806
														40.894	2294
														40.937	1917
														41.178	4775
														41.323	3283
														41.403	5014
														41.471	2200
														41.657	5214
														41.791	2203
														41.897	2203
														42.277	8358
														42.492	2621
														42.729	2106
														42.859	1831
														43.047	2542
														43.685	1844
														44.142	2670
														44.203	2376
														44.500	2068
														44.653	2236
														44.766	1824

Extracted Ion Current Profiles

Heptachlorobiphenyls					
"M3011124"	"M3011124"	"M3011124"	"M3011124"	"M3011124"	"M3011124"
m/z 394	m/z 396	m/z 322	m/z 324	m/z 326	m/z 462

43.974 2087

Extracted Ion Current Profiles

Heptachlorobiphenyls													
"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"	
m/z 464		m/z 466		m/z 390		m/z 428		m/z 430		m/z 432		m/z 391	
44.481	1818			42.759	1963	43.892	1953	42.397	1827	41.866	1875		
44.755	2088			43.537	2093	44.043	1957	42.771	1959	42.554	2089		
				44.291	2966	44.305	1808	42.849	2018	42.652	1823		
				44.754	2090	44.931	2184	43.004	2157	43.148	2052		
								43.660	2121	44.173	1812		
								44.029	1905	44.317	1828		
								44.669	1862	44.474	1959		
										44.737	2547		

Extracted Ion Current Profiles

Octachlorobiphenyls											
"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"	
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462	
42.397	1827	43.892	1953	42.359	2460	39.134	1843	41.629	1879	43.974	2087
42.771	1959	44.043	1957	43.208	1832	40.585	2029				
42.849	2018	44.305	1808	43.515	1851	41.404	2182				
43.004	2157	44.931	2184	44.082	3388	42.295	1816				
43.660	2121					42.986	1914				
44.029	1905					43.515	2669				
44.669	1862										

Extracted Ion Current Profiles

Octachlorobiphenyls		
"M3011124"	"M3011124"	"M3011124"
m/z 464	m/z 466	m/z 425

44.481	1818
44.755	2088

Extracted Ion Current Profiles

Nonachlorobiphenyls									
"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"	
m/z 464		m/z 466		m/z 390		m/z 392		m/z 394	
44.481	1818			42.759	1963				
44.755	2088			43.537	2093				
				44.291	2966				
				44.754	2090				

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3011124"		"M3011124"		"M3011124"		"M3011124"		"M3011124"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
				44.219	2084	41.794	1865	43.892	1953	42.397	1827
				44.619	1843			44.043	1957	42.771	1959
								44.305	1808	42.849	2018
								44.931	2184	43.004	2157
										43.660	2121
										44.029	1905
										44.669	1862

Extracted Ion Current Profiles

TCMX					Chrysene-d12					Phenanthrene-d10			
"M3011124"		"M3011124"				"M3011124"		"M3011124"			"M3011124"		"M3011124"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.964	1080	11.963	628(M)	424	240	34.262	240148	34.257	51185	188	15.805	223126	15.802	38534
12.381	735	16.303	502	426	241					189	16.181	3366	16.187	3636
14.578	508	16.440	505	428							19.490	1886	16.579	2072
15.039	547	16.750	525	430									17.056	2724
15.800	690	16.840	508	498									17.283	1907
15.949	593	16.884	573	500									17.462	2801
16.778	871	17.077	578										17.600	1983
17.075	585	17.130	601										17.703	2617
17.713	597	17.206	1004										18.100	2072
17.871	595	17.318	510										18.479	1845
18.054	540	17.577	577										18.843	6340
18.895	724	17.683	1115										19.125	6105
19.397	507	17.794	544										19.225	2193
26.492	767	17.844	643										19.490	14669
29.554	557	17.979	524										19.582	4025
30.596	1018	18.079	544										19.721	5683
31.150	783	18.173	557										20.020	2086
31.169	766	18.317	715										20.051	1936
31.970	592	18.959	586										20.116	3209
32.045	1892	19.422	764										20.291	3642
32.069	1666	19.587	1184										20.799	1853
32.179	639	19.649	532										21.002	2264
32.286	610	19.723	779										21.778	2118
32.431	551	31.179	829										22.655	1955
32.683	518	31.806	667										23.388	2279
32.744	624	32.066	513										23.571	2848
32.910	784	32.226	546										24.164	2429
32.986	678	32.327	514										24.461	1998
33.278	529	32.704	983										24.490	2851
33.472	955	33.302	506										24.606	1904
33.690	556	33.505	537										25.053	4597
33.819	935	33.569	509										25.076	2167
34.174	845	33.737	552										25.564	3401
34.413	607	33.786	507										26.066	1936
34.667	915	34.043	587										26.186	3693
34.764	808	34.263	6444										26.688	1954
34.817	711	34.340	798										27.205	2609
34.947	770	34.461	596											
35.002	605	34.503	526											
35.195	505	34.596	796											
35.223	516	34.682	756											

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.621	22534	42.623	19356
512				

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: BG-28-DUP
Lab Sample ID: 12010053-12 (AP00237)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-314-25	PCBs by EPA Method TO-4A/680	01/12/2012 03:54	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16875	EPA 3540C	01/05/2012 15:30	HAG	378.30m³	1.00 mL	NA

Analyte	CAS No.	Result (ug/m³)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.0000130	1.00	U	MS03-314-25
Dichlorobiphenyl	25512-42-9	ND	0.0000130	1.00	U	MS03-314-25
Trichlorobiphenyl	25323-68-6	ND	0.0000130	1.00	U	MS03-314-25
Tetrachlorobiphenyl	26914-33-0	ND	0.0000260	1.00	U	MS03-314-25
Pentachlorobiphenyl	25429-29-2	ND	0.0000260	1.00	U	MS03-314-25
Hexachlorobiphenyl	26601-64-9	ND	0.0000260	1.00	U	MS03-314-25
Heptachlorobiphenyl	28655-71-2	ND	0.0000400	1.00	U	MS03-314-25
Octachlorobiphenyl	55722-26-4	ND	0.0000400	1.00	U	MS03-314-25
Nonachlorobiphenyl	53742-07-7	ND	0.0000660	1.00	U	MS03-314-25
Decachlorobiphenyl	2051-24-3	ND	0.0000660	1.00	U	MS03-314-25
Total PCB	1336-36-3	ND		1.00	U	MS03-314-25

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	69.0	42.5-134		MS03-314-25
Tetrachloro-meta-xylene	877-09-8	72.6	17.9-137		MS03-314-25

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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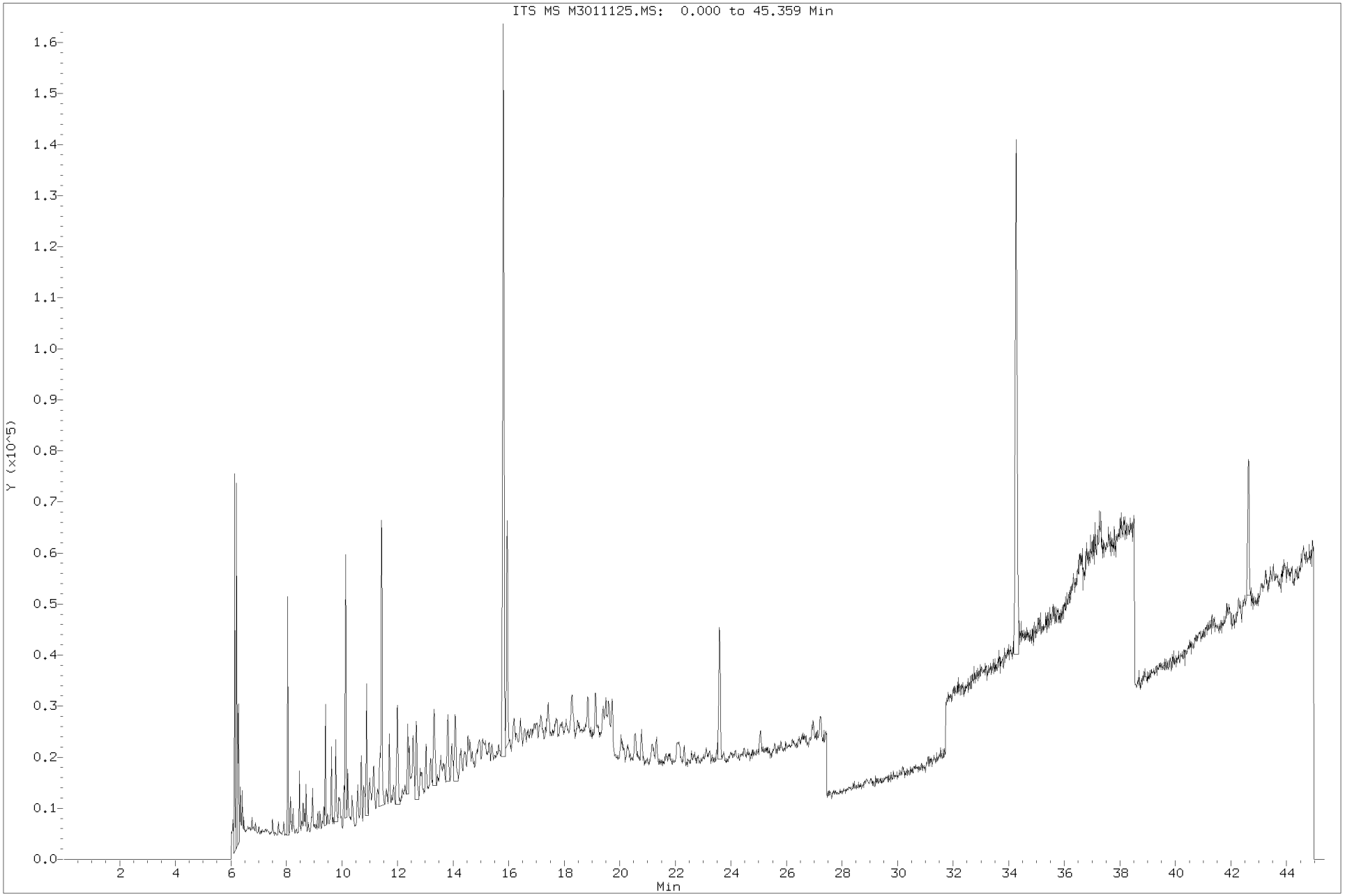
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011125.d/M3011125.MS
Injection Date: 12-JAN-2012 03:54
Instrument: GCMS03.i
Client Sample ID: BG-28-DUP



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	BG-28-DUP
Matrix:	TO-4A PUF	Lab Sample ID:	AP00237
Sample weight:	378.3 cubic m	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/12/2012
Dilution Factor:	1	Time Analyzed:	3:54

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug/m^3	ug/m^3	ug/m^3	
				Mono Total:		0.0000132	0.0000132	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug/m^3	ug/m^3	ug/m^3	
				Di Total:		0.0000132	0.0000132	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug/m^3	ug/m^3	ug/m^3	
				Tri Total:		0.0000132	0.0000132	ND	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
				Tetra Total:		0.0000264	0.0000264	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug/m^3	ug/m^3	ug/m^3	
				Penta Total:		0.0000264	0.0000264	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug/m^3	ug/m^3	ug/m^3	
					Hexa Total:	0.0000264	0.0000264	ND	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug/m^3	ug/m^3	ug/m^3	
					Hepta Total:	0.0000397	0.0000397	ND	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
					Octa Total:	0.0000397	0.0000397	ND	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug/m^3	ug/m^3	ug/m^3	
					Nona Total:	0.0000661	0.0000661	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug/m^3	ug/m^3	ug/m^3	
					Deca Total:	0.0000661	0.0000661	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL	
11.963	910	11.970	687	1.3	0.2041		0.0145	
					TCMX Total:		0.0145	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.630	21557	42.628	17318	1.2	1.0171		0.0690	
					Deca Total:		0.0690	

TCMX Recovery %	72.6 %
Deca Recovery	69.0 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT m/z 240	Quant Ion Area	Confirm Ion RT m/z 241	Confirm Ion Area	Ratio 4.3 - 5.9	Response Factor		Solution Concentration ug/mL	Flag
34.266	245815	34.266	52117	4.7	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011125"		"M3011125"		"M3011125"		"M3011125"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
10.274	1885	8.144	2052	6.142	7092	6.760	3261
15.806	232264	15.795	2965	6.210	9204	6.891	2485
16.185	4122	15.813	2980	6.276	3494	8.049	19590
19.492	2507	16.367	2062	7.714	4218	8.147	1849
		17.945	1911	8.050	13480	8.473	2326
		18.113	1951	8.145	1857	8.944	2129
		18.841	2301	8.476	2156	9.406	9580
		18.854	1976	8.781	1813	9.622	7648
		19.122	3737	8.943	1986	9.782	4254
		19.496	10743	9.407	12166	9.939	2809
		19.727	3600	9.623	8711	10.072	2070
				9.778	2739	10.212	2311
				9.893	1829	10.365	1867
				10.568	2033	10.565	2627
				10.698	2355	10.699	3150
				10.792	3675	10.885	1937
				11.109	2405	10.994	2659
				11.141	3285	11.295	2406
				11.283	3020	11.371	2973
				11.431	4228	11.427	2097
				11.591	2884	11.590	4525
				11.699	4363	11.700	2946
				11.883	1838	11.877	1962
				11.996	7260	11.995	3345
				12.280	2155	12.267	2196
				12.371	4384	12.369	1811
				12.423	4029	12.491	1923
				12.500	2211	12.682	1915
				12.585	2650	12.862	4093
				12.694	3494	13.999	1973
				13.351	2918	15.114	2080
				13.556	2131	15.945	6237
				13.821	4058		
				13.969	4129		
				14.090	3101		
				14.406	3939		
				14.544	2442		
				14.588	2391		
				14.698	2100		
				14.835	2006		
				15.172	2649		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.027	2244			6.142	7092	6.760	3261	13.940	2794	10.274	1885
13.317	4466			6.210	9204	6.891	2485	15.808	26428	15.806	232264
				6.276	3494	8.049	19590	16.192	3543	16.185	4122
				7.714	4218	8.147	1849	20.282	1826	19.492	2507
				8.050	13480	8.473	2326				
				8.145	1857	8.944	2129				
				8.476	2156	9.406	9580				
				8.781	1813	9.622	7648				
				8.943	1986	9.782	4254				
				9.407	12166	9.939	2809				
				9.623	8711	10.072	2070				
				9.778	2739	10.212	2311				
				9.893	1829	10.365	1867				
				10.568	2033	10.565	2627				
				10.698	2355	10.699	3150				
				10.792	3675	10.885	1937				
				11.109	2405	10.994	2659				
				11.141	3285	11.295	2406				
				11.283	3020	11.371	2973				
				11.431	4228	11.427	2097				
				11.591	2884	11.590	4525				
				11.699	4363	11.700	2946				
				11.883	1838	11.877	1962				
				11.996	7260	11.995	3345				
				12.280	2155	12.267	2196				
				12.371	4384	12.369	1811				
				12.423	4029	12.491	1923				
				12.500	2211	12.682	1915				
				12.585	2650	12.862	4093				
				12.694	3494	13.999	1973				
				13.351	2918	15.114	2080				
				13.556	2131	15.945	6237				
				13.821	4058						
				13.969	4129						
				14.090	3101						
				14.406	3939						
				14.544	2442						
				14.588	2391						
				14.698	2100						
				14.835	2006						
				15.172	2649						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011125"		"M3011125"		"M3011125"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
20.554	6335	22.056	7884	10.120	4668
				11.074	2036
				11.414	3372
				13.032	8026
				13.320	21888
				14.840	1829
				16.424	4109
				26.113	2000

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
20.554	6335	22.056	7884	13.940	2794	10.274	1885				
				15.808	26428	15.806	232264				
				16.192	3543	16.185	4122				
				20.282	1826	19.492	2507				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
		31.093	2947	36.505	1871					22.322	7183
		38.107	2225	36.558	2024					37.114	2535
										37.274	2032

Extracted Ion Current Profiles

Tetrachlorobiphenyls										
"M3011125"	"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"	
m/z 292	m/z 290		m/z 220		m/z 222		m/z 360		m/z 362	
	36.505	1871	9.214	1986	13.027	2244	40.808	2011	44.905	1821
	36.558	2024	27.211	3475	13.317	4466	42.620	1859		
							43.571	1801		

Extracted Ion Current Profiles

Pentachlorobiphenyls					
"M3011125"	"M3011125"	"M3011125"	"M3011125"	"M3011125"	"M3011125"
m/z 326	m/z 324	m/z 254	m/z 256	m/z 258	m/z 392
		31.093 2947	20.554 6335	22.056 7884	
		38.107 2225			

Extracted Ion Current Profiles

Pentachlorobiphenyls													
"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"	
m/z 394		m/z 396		m/z 398		m/z 322		m/z 360		m/z 362		m/z 323	
42.827	2746	40.228	1888					40.808	2011	44.905	1821		
43.659	1856	44.759	1881					42.620	1859				
								43.571	1801				

Extracted Ion Current Profiles

Hexachlorobiphenyls											
"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"	
m/z 360		m/z 362		m/z 288		m/z 290		m/z 426		m/z 428	
40.808	2011	44.905	1821			36.505	1871			43.955	1981
42.620	1859					36.558	2024			44.282	1831
43.571	1801										

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"	
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
43.529	2066	44.417	2066	43.190	1802			42.827	2746	40.228	1888			37.226	1894
				43.335	1842			43.659	1856	44.759	1881			37.312	2854
				44.591	2008									38.016	3334
														38.290	1991
														38.638	2451
														38.898	1877
														39.244	2039
														39.472	3025
														39.540	1882
														39.654	2706
														40.007	2415
														40.225	2730
														40.687	2046
														40.787	1986
														40.886	1895
														40.914	3317
														41.101	2099
														41.157	4297
														41.310	3534
														41.399	7392
														41.675	7258
														42.085	2139
														42.155	1936
														42.275	11964
														42.507	3069
														42.724	1805
														42.982	1832
														43.180	2830
														43.371	1939
														43.432	2481
														43.515	1813
														43.637	1913
														43.938	2009
														44.085	1874
														44.480	1839
														44.583	1945
														44.789	1826

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"
m/z 394		m/z 396		m/z 322		m/z 324		m/z 326		m/z 462
42.827	2746	40.228	1888						
43.659	1856	44.759	1881						

Extracted Ion Current Profiles

Heptachlorobiphenyls						
"M3011125"	"M3011125"	"M3011125"	"M3011125"	"M3011125"	"M3011125"	"M3011125"
m/z 464	m/z 466	m/z 390	m/z 428	m/z 430	m/z 432	m/z 391
			43.955 1981	43.529 2066	44.417 2066	
			44.282 1831			

Extracted Ion Current Profiles

Octachlorobiphenyls										
"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"		"M3011125"
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
43.529	2066	43.955	1981	43.190	1802	40.043	2003	40.808	2011	
		44.282	1831	43.335	1842	41.307	2125	42.620	1859	
				44.591	2008	42.266	5535	43.571	1801	
						44.517	1805			

Extracted Ion Current Profiles

Nonachlorobiphenyls				
"M3011125"	"M3011125"	"M3011125"	"M3011125"	"M3011125"
m/z 464	m/z 466	m/z 390	m/z 392	m/z 394

42.827	2746
43.659	1856

Extracted Ion Current Profiles

Decachlorobiphenyl					
"M3011125"	"M3011125"	"M3011125"	"M3011125"	"M3011125"	"M3011125"
m/z 498	m/z 500	m/z 424	m/z 426	m/z 428	m/z 430
				43.955 1981	43.529 2066
				44.282 1831	

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3011125"		"M3011125"				"M3011125"		"M3011125"			"M3011125"		"M3011125"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
11.963	910(M)	11.970	687	424	240	34.266	245815	34.266	52117	188	10.274	1885	13.313	2022
12.385	593	14.637	544	426	241					189	15.806	232264	14.396	1821
14.589	562	14.874	680	428							16.185	4122	14.957	1869
15.075	523	15.495	505	430							19.492	2507	15.155	1877
15.382	522	15.584	555	498									15.282	2232
15.568	683	15.635	622	500									15.495	2185
15.968	567	15.847	589										15.807	41456
16.051	556	15.937	728										15.936	2792
16.132	605	16.186	546										16.353	3164
16.184	671	16.210	512										16.478	2502
16.310	562	16.407	755										16.580	4073
16.361	523	16.603	917										16.701	2420
16.387	501	16.719	958										16.777	2542
16.536	676	16.781	576										16.859	2101
16.636	762	16.824	588										16.962	2387
16.805	531	16.866	990										17.050	3014
16.866	605	16.921	677										17.298	1807
17.001	967	16.955	741										17.409	1844
17.261	740	17.018	534										17.472	3319
17.320	707	17.072	591										17.511	1887
17.445	1266	17.125	781										17.622	2155
17.483	512	17.191	648										17.708	3152
17.532	608	17.231	593										17.742	2366
18.023	725	17.264	555										17.904	2284
18.059	526	17.318	1011										17.951	3827
18.110	523	17.419	1106										18.030	1907
18.284	578	17.454	621										18.133	2538
18.553	514	17.517	509										18.203	2912
18.576	508	17.620	1007										18.297	5080
18.715	901	17.671	1448										18.401	2471
18.868	587	17.796	501										18.483	4072
19.132	515	17.914	795										18.666	2747
19.411	609	18.023	732										18.727	1920
19.579	564	18.059	710										18.854	7878
29.559	908	18.087	635										19.007	2072
30.596	569	18.137	745										19.124	7476
31.169	1643	18.288	953										19.317	3958
32.041	1592	18.338	621										19.495	17289
32.063	1312	18.406	588										19.585	4882
32.112	607	18.536	791										19.743	6198
32.187	582	18.574	579										21.488	2067

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.630	21557	42.628	17318
512				

Analytical Sample Results

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: TB-28
Lab Sample ID: 12010053-13 (AP00238)

Collection Date: 12/29/2011
Sample Matrix: POLYURETHANE FOAM
Received Date: 01/05/2012 10:17
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-314-26	PCBs by EPA Method TO-4A/680	01/12/2012 04:44	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16875	EPA 3540C	01/05/2012 15:30	HAG	0.00m³	1.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00500	1.00	U	MS03-314-26
Dichlorobiphenyl	25512-42-9	ND	0.00500	1.00	U	MS03-314-26
Trichlorobiphenyl	25323-68-6	ND	0.00500	1.00	U	MS03-314-26
Tetrachlorobiphenyl	26914-33-0	ND	0.0100	1.00	U	MS03-314-26
Pentachlorobiphenyl	25429-29-2	ND	0.0100	1.00	U	MS03-314-26
Hexachlorobiphenyl	26601-64-9	ND	0.0100	1.00	U	MS03-314-26
Heptachlorobiphenyl	28655-71-2	ND	0.0150	1.00	U	MS03-314-26
Octachlorobiphenyl	55722-26-4	ND	0.0150	1.00	U	MS03-314-26
Nonachlorobiphenyl	53742-07-7	ND	0.0250	1.00	U	MS03-314-26
Decachlorobiphenyl	2051-24-3	ND	0.0250	1.00	U	MS03-314-26
Total PCB	1336-36-3	ND		1.00	U	MS03-314-26

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	71.1	42.5-134		MS03-314-26
Tetrachloro-meta-xylene	877-09-8	68.9	17.9-137		MS03-314-26

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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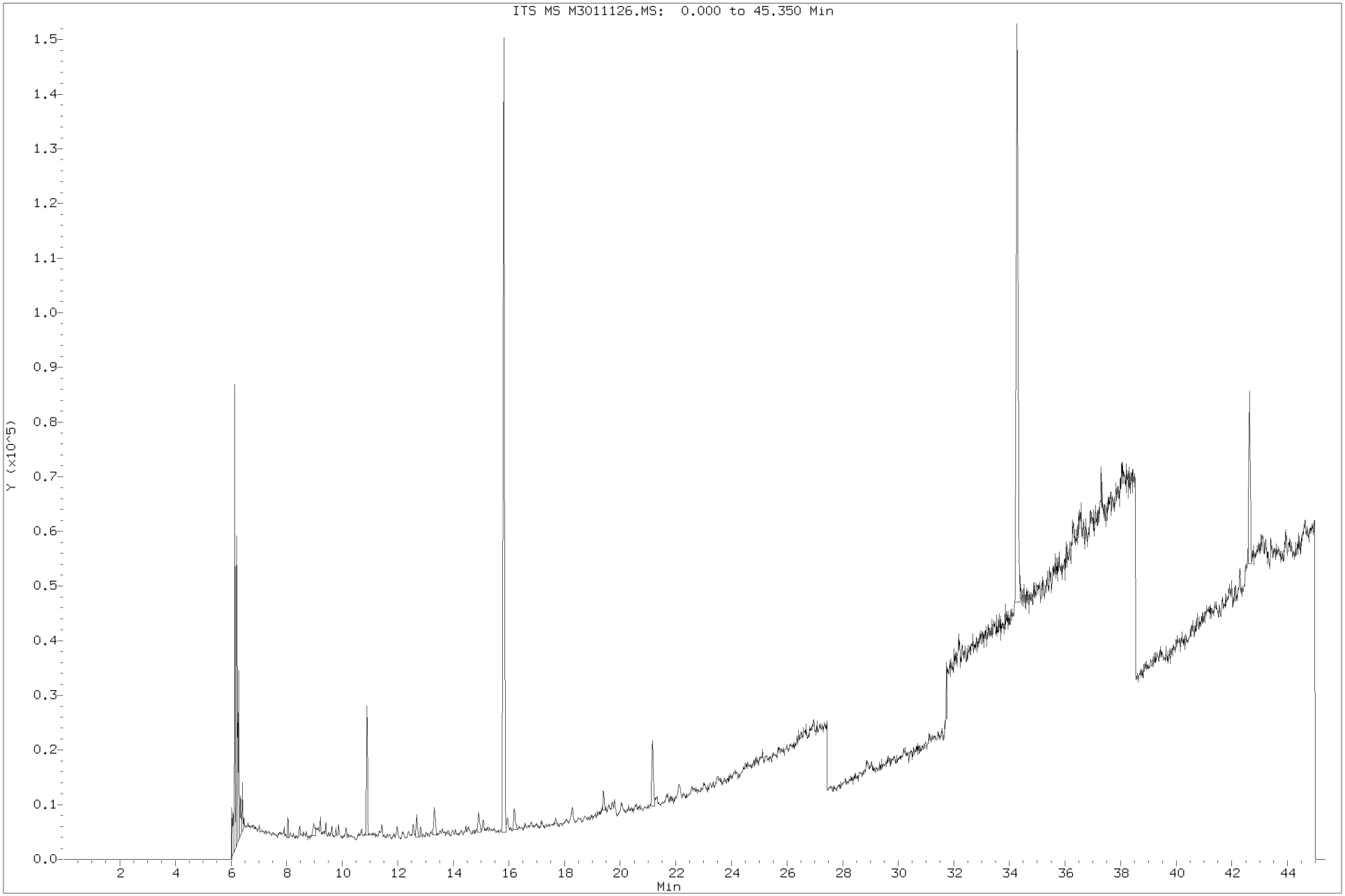
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011126.d/M3011126.MS
Injection Date: 12-JAN-2012 04:44
Instrument: GCMS03.i
Client Sample ID: TB-28



Form 1
PCB Homolog Report
Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	TB-28
Matrix:	TO-4A PUF	Lab Sample ID:	AP00238
Sample weight:	NA	Date Received:	1/5/2012
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/12/2012
Dilution Factor:	1	Time Analyzed:	4:44

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 188		m/z 190		2.5 to 3.5		ug	ug	ug	
				Mono Total:		0.00500	0.00500	ND	

Dichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 222		m/z 224		1.3 to 1.7		ug	ug	ug	
				Di Total:		0.00500	0.00500	ND	

Trichlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 256		m/z 258		0.8 to 1.2		ug	ug	ug	
				Tri Total:		0.00500	0.00500	ND	

Tetrachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 292		m/z 290		1.1 to 1.5		ug	ug	ug	
				Tetra Total:		0.0100	0.0100	ND	

Pentachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 326		m/z 324		1.4 to 1.8		ug	ug	ug	
				Penta Total:		0.0100	0.0100	ND	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug	ug	ug	
				Hexa Total:		0.0100	0.0100	ND	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Hepta Total:		0.0150	0.0150	ND	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Octa Total:		0.0150	0.0150	ND	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Deca Total:		0.0250	0.0250	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.974	927	11.976	701	1.3	0.2041		0.0138	
				TCMX Total:			0.0138	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT m/z 510	Quant Ion Area	Confirm Ion RT m/z 512	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor		Solution Concentration ug/mL	Flag
42.630	23827	42.637	18351	1.3	1.0171		0.0711	
				Deca Total:			0.0711	

TCMX Recovery %	68.9 %
Deca Recovery	71.1 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT m/z 240	Quant Ion Area	Confirm Ion RT m/z 241	Confirm Ion Area	Ratio 4.3 - 5.9	Response Factor		Solution Concentration ug/mL	Flag
34.273	263600	34.273	56594	4.7	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.810	241836	15.807	3818	6.144	7751	8.051	1521
16.184	2447	26.256	1054	6.211	9043	9.409	1183
		26.620	1440	6.278	3584		
		26.885	1051	6.345	1134		
		26.994	1012	6.413	1112		
				8.051	1134		
				9.410	1552		
				9.625	1153		
				15.945	2022		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.323	1212			6.144	7751	8.051	1521	15.812	24930	15.810	241836
21.155	1044			6.211	9043	9.409	1183	16.190	2556	16.184	2447
22.565	1223			6.278	3584						
				6.345	1134						
				6.413	1112						
				8.051	1134						
				9.410	1552						
				9.625	1153						
				15.945	2022						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011126"		"M3011126"		"M3011126"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
20.562	1103	22.060	1528	6.093	1124
36.568	1117	35.295	1049	6.209	1050
36.709	1040	36.028	1032	6.619	1472
		36.279	1121	6.828	1151
		36.549	1075	7.018	1152
		36.577	1051	7.252	1025
		36.872	1108	8.640	1056
		37.339	1584	11.069	1250
				13.322	5621
				24.131	2147
				24.458	1100
				24.599	2517
				26.130	1818
				26.883	1165

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
20.562	1103	22.060	1528	15.812	24930	15.810	241836	32.003	1017	32.415	1036
36.568	1117	35.295	1049	16.190	2556	16.184	2447	32.373	1025	32.524	1098
36.709	1040	36.028	1032					33.166	1021	33.419	1200
		36.279	1121					33.637	1267	35.076	1888
		36.549	1075					33.701	1063	35.798	1213
		36.577	1051					34.264	1228	36.512	1173
		36.872	1108					34.305	1519	37.093	1091
		37.339	1584					34.402	1031	37.631	1048
								34.681	1818	37.978	1125
								34.914	1545		
								35.011	1029		
								35.060	1730		
								35.175	1432		
								35.779	1018		
								35.847	1361		
								35.899	1115		
								36.151	1158		
								36.306	1005		
								36.622	1070		
								37.517	1092		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
		23.610	1058	34.607	1184	32.226	1012	30.870	1058	24.583	1357
		26.805	1091	35.594	1030	33.278	1200	31.463	1087	25.273	1098
		31.101	4359	36.397	2105	33.469	1120	32.402	1189	26.640	1195
		32.487	1056	36.436	1031	34.234	1347	32.546	1493	27.585	1035
		36.263	1052	36.516	3237	34.514	1075	32.756	1080	31.121	1003
		36.300	1536	36.568	1271	34.700	1191	33.231	1224	32.578	1489
		37.615	1043	36.602	1485	34.957	1174	33.283	1289	32.641	1377
		37.642	1346	37.563	1025	35.061	1245	33.419	1137	32.854	1063
		38.098	1516	37.625	1256	35.647	1449	33.597	1113	33.069	1287
		38.149	1528	37.690	1309	36.073	1078	33.954	1072	33.698	1033
				37.839	1191	36.155	1173	34.175	1203	33.849	1493
				37.992	1049	36.206	1350	34.587	1079	33.962	1239
				38.212	1345	36.283	1127	34.719	1215	34.224	1122
				38.393	1008	36.729	1026	35.117	1063	34.333	1005
						36.922	1513	36.190	1280	34.459	1024
						37.108	1465	36.405	1125	34.633	1455
						37.355	1070	37.096	1279	34.747	1225
						37.541	1464	37.511	1562	34.955	1198
						37.713	1230	38.063	1284	35.123	1781
						37.999	1121			35.237	1757
						38.072	1562			35.297	1303
						38.380	1123			35.465	1026
						38.447	1197			35.628	3526
										35.755	1831
										35.922	1152
										36.019	1174
										36.052	1288
										36.128	1412
										36.157	1036
										36.197	1094
										36.245	1711
										36.281	2381
										36.418	1123
										36.464	1416
										36.513	1695
										36.545	1587
										36.576	1050
										36.676	1040
										36.875	1916
										36.983	1882
										37.095	1492

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 292		m/z 290		m/z 220		m/z 222		m/z 360		m/z 362	
32.226	1012	34.607	1184	9.217	1753	13.323	1212	36.524	1030	35.480	1134
33.278	1200	35.594	1030			21.155	1044	37.198	1199	36.576	1011
33.469	1120	36.397	2105			22.565	1223	37.367	1122	37.453	1208
34.234	1347	36.436	1031					37.855	1285	37.554	1012
34.514	1075	36.516	3237					38.403	1147	37.813	1161
34.700	1191	36.568	1271					38.728	1131	38.091	1341
34.957	1174	36.602	1485					38.823	1212	38.527	1085
35.061	1245	37.563	1025					39.156	1623	38.627	1016
35.647	1449	37.625	1256					39.322	1034	38.718	1033
36.073	1078	37.690	1309					39.420	1086	38.819	1012
36.155	1173	37.839	1191					39.768	1183	38.912	1020
36.206	1350	37.992	1049					39.835	1329	39.330	1156
36.283	1127	38.212	1345					39.933	1293	39.571	1020
36.729	1026	38.393	1008					40.263	1118	39.625	1216
36.922	1513							40.464	1628	39.859	1609
37.108	1465							40.640	1466	39.920	1060
37.355	1070							40.695	1197	40.219	1026
37.541	1464							41.096	1725	40.298	1325
37.713	1230							41.166	1045	40.451	2043
37.999	1121							41.290	1039	40.525	1299
38.072	1562							41.349	1357	40.781	1422
38.380	1123							41.421	1026	40.849	1272
38.447	1197							41.638	1833	41.000	1193
								41.682	1045	41.125	1033
								42.092	1276	41.188	1463
								42.132	1037	41.320	1236
								42.258	1085	41.411	1214
								42.303	1337	41.482	1648
								42.366	1752	41.552	1199
								42.469	1765	41.607	1405
								42.583	1486	41.656	1721
								42.650	1055	41.720	1258
								42.747	1486	41.768	1165
								42.836	1222	41.884	3504
								42.991	1172	41.964	2259
								43.076	1119	42.090	2007
								43.170	1957	42.105	1217
								43.267	1552	42.213	1486
								43.476	1662	42.269	1002
								43.522	1033	42.298	1069
								43.624	1453	42.353	1959
								43.729	1008	42.442	1073

Extracted Ion Current Profiles

Tetrachlorobiphenyls									
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 288		m/z 324		m/z 326		m/z 328		m/z 289	
31.712	2382	32.003	1017	32.415	1036			32.182	1061
32.153	1092	32.373	1025	32.524	1098			32.831	1168
32.176	1070	33.166	1021	33.419	1200			33.043	1458
32.198	1525	33.637	1267	35.076	1888			34.008	1374
35.901	1035	33.701	1063	35.798	1213			34.132	1022
37.830	1007	34.264	1228	36.512	1173			34.286	1356
38.476	1419	34.305	1519	37.093	1091			34.461	1060
		34.402	1031	37.631	1048			34.701	2039
		34.681	1818	37.978	1125			34.791	1030
		34.914	1545					34.906	1058
		35.011	1029					35.161	1255
		35.060	1730					35.554	1370
		35.175	1432					35.600	1114
		35.779	1018					35.825	1057
		35.847	1361					35.885	1016
		35.899	1115					36.024	1563
		36.151	1158					36.307	1034
		36.306	1005					36.383	1192
		36.622	1070					36.463	1052
		37.517	1092					36.526	1184
								36.579	1276
								36.687	1109
								36.723	1352
								36.794	1359
								36.904	1745
								37.047	1290
								37.259	1224
								37.330	1497
								37.382	1609
								37.459	1354
								37.763	1055
								37.815	1272
								37.904	1222
								38.029	2300
								38.181	1309
								38.311	1316
								38.367	1287
								38.511	1060

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 326		m/z 324		m/z 254		m/z 256		m/z 258		m/z 392	
32.415	1036	32.003	1017	23.610	1058	20.562	1103	22.060	1528	40.474	1233
32.524	1098	32.373	1025	26.805	1091	36.568	1117	35.295	1049	41.598	1197
33.419	1200	33.166	1021	31.101	4359	36.709	1040	36.028	1032	41.718	1435
35.076	1888	33.637	1267	32.487	1056			36.279	1121	41.946	1044
35.798	1213	33.701	1063	36.263	1052			36.549	1075	42.086	1005
36.512	1173	34.264	1228	36.300	1536			36.577	1051	42.181	1234
37.093	1091	34.305	1519	37.615	1043			36.872	1108	42.269	1205
37.631	1048	34.402	1031	37.642	1346			37.339	1584	42.389	1467
37.978	1125	34.681	1818	38.098	1516					42.519	1158
		34.914	1545	38.149	1528					42.582	1098
		35.011	1029							42.756	1087
		35.060	1730							42.850	1195
		35.175	1432							43.192	1026
		35.779	1018							43.245	1483
		35.847	1361							43.331	1197
		35.899	1115							43.431	1369
		36.151	1158							43.728	1102
		36.306	1005							43.763	1074
		36.622	1070							43.861	1258
		37.517	1092							44.034	1143
										44.065	1066
										44.231	1174
										44.305	1565
										44.334	1131
										44.420	1397
										44.529	1370
										44.625	1156
										44.715	1456
										44.789	1170

Extracted Ion Current Profiles

Pentachlorobiphenyls													
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 394		m/z 396		m/z 398		m/z 322		m/z 360		m/z 362		m/z 323	
40.425	1273	38.671	1428	36.353	1103	33.451	1099	36.524	1030	35.480	1134	32.485	1269
40.519	1211	38.747	1218	39.100	1050	33.530	1124	37.198	1199	36.576	1011	34.755	1429
40.641	1296	39.078	1413	39.198	1458	33.767	1249	37.367	1122	37.453	1208	35.105	1108
40.941	1618	39.252	1082	39.440	1211	33.939	1066	37.855	1285	37.554	1012	35.221	1410
41.228	1265	39.460	1044	39.738	1217	34.161	1054	38.403	1147	37.813	1161	35.339	1206
41.404	1264	39.989	1070	39.816	1144	34.291	1256	38.728	1131	38.091	1341	35.592	2120
41.621	1127	40.087	1090	40.340	1112	34.419	1364	38.823	1212	38.527	1085	35.735	1007
41.722	1321	40.141	1184	40.470	1725	34.594	1065	39.156	1623	38.627	1016	35.834	1555
41.784	1307	40.267	1017	40.628	2290	34.845	1220	39.322	1034	38.718	1033	35.907	1174
41.846	1604	40.328	1186	40.688	1318	35.061	1011	39.420	1086	38.819	1012	35.994	1106
42.222	1502	40.518	1223	40.816	1161	35.277	1034	39.768	1183	38.912	1020	36.337	1060
42.363	1031	40.752	1101	41.005	1021	35.565	1457	39.835	1329	39.330	1156	36.452	1456
42.430	1186	40.832	1111	41.083	1239	36.117	1189	39.933	1293	39.571	1020	36.526	1599
42.504	1135	41.029	1205	41.202	1426	36.187	1189	40.263	1118	39.625	1216	36.691	1138
42.584	1067	41.066	1036	41.276	1105	36.316	1089	40.464	1628	39.859	1609	36.775	1289
42.693	1041	41.091	1015	41.318	1153	36.391	1467	40.640	1466	39.920	1060	36.945	1689
42.779	1605	41.191	1133	41.428	1304	36.760	1537	40.695	1197	40.219	1026	37.103	1509
42.844	1628	41.371	1441	41.509	1392	37.179	1164	41.096	1725	40.298	1325	37.149	1063
42.903	1560	41.648	1268	41.552	1509	37.283	1422	41.166	1045	40.451	2043	37.199	1113
42.962	1744	41.713	1208	41.675	1764	37.359	1097	41.290	1039	40.525	1299	37.307	1841
43.035	1498	41.760	1301	41.919	1240	37.532	1018	41.349	1357	40.781	1422	37.444	1030
43.084	1293	41.797	1037	42.020	1625	37.703	1180	41.421	1026	40.849	1272	38.047	1084
43.117	1279	41.836	1404	42.071	1498	37.809	1199	41.638	1833	41.000	1193	38.081	1311
43.272	1249	41.914	1402	42.123	1002	38.255	1008	41.682	1045	41.125	1033	38.170	1079
43.412	1012	41.960	1394	42.146	1239	38.385	1291	42.092	1276	41.188	1463	38.265	1403
43.458	1177	42.000	1008	42.244	1242			42.132	1037	41.320	1236	38.358	1035
43.664	1288	42.064	1298	42.310	1147			42.258	1085	41.411	1214	38.393	1151
43.766	1239	42.114	1904	42.389	1369			42.303	1337	41.482	1648		
43.913	1253	42.185	1279	42.426	1261			42.366	1752	41.552	1199		
43.964	1305	42.285	2241	42.504	1520			42.469	1765	41.607	1405		
44.009	1377	42.350	1374	42.640	1109			42.583	1486	41.656	1721		
44.053	1240	42.434	1268	42.740	1024			42.650	1055	41.720	1258		
44.131	1556	42.522	1952	42.803	1200			42.747	1486	41.768	1165		
44.185	1196	42.613	2208	42.992	1425			42.836	1222	41.884	3504		
44.279	1276	42.646	1525	43.059	1005			42.991	1172	41.964	2259		
44.312	1016	42.696	1399	43.093	1293			43.076	1119	42.090	2007		
44.461	1449	42.751	1167	43.198	3220			43.170	1957	42.105	1217		
44.588	1586	42.848	1491	43.265	2065			43.267	1552	42.213	1486		
44.665	1512	42.879	1478	43.402	1446			43.476	1662	42.269	1002		
44.733	1612	43.065	1063	43.488	1026			43.522	1033	42.298	1069		
44.816	1354	43.147	1339	43.533	1236			43.624	1453	42.353	1959		
44.908	1286	43.232	1279	43.573	1895			43.729	1008	42.442	1073		

Extracted Ion Current Profiles

Hexachlorobiphenyls											
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 360		m/z 362		m/z 288		m/z 290		m/z 426		m/z 428	
36.524	1030	35.480	1134	31.712	2382	34.607	1184	40.382	1122	42.745	1114
37.198	1199	36.576	1011	32.153	1092	35.594	1030	41.136	1129	42.962	1044
37.367	1122	37.453	1208	32.176	1070	36.397	2105	41.288	1585	43.552	1230
37.855	1285	37.554	1012	32.198	1525	36.436	1031	41.502	1061	43.659	1103
38.403	1147	37.813	1161	35.901	1035	36.516	3237	42.297	1741	43.713	1322
38.728	1131	38.091	1341	37.830	1007	36.568	1271	42.608	1093	43.859	1323
38.823	1212	38.527	1085	38.476	1419	36.602	1485	42.795	1244	43.940	1578
39.156	1623	38.627	1016			37.563	1025	42.891	1235	44.110	1155
39.322	1034	38.718	1033			37.625	1256	43.000	1125	44.199	1425
39.420	1086	38.819	1012			37.690	1309	43.089	1567	44.357	1251
39.768	1183	38.912	1020			37.839	1191	43.132	1019	44.407	1163
39.835	1329	39.330	1156			37.992	1049	43.262	1149	44.821	1177
39.933	1293	39.571	1020			38.212	1345	43.502	1362	44.877	1075
40.263	1118	39.625	1216			38.393	1008	43.583	1041	44.934	1180
40.464	1628	39.859	1609					43.706	1070	44.972	1076
40.640	1466	39.920	1060					43.760	1206		
40.695	1197	40.219	1026					43.895	1171		
41.096	1725	40.298	1325					43.953	1515		
41.166	1045	40.451	2043					44.170	1746		
41.290	1039	40.525	1299					44.449	1228		
41.349	1357	40.781	1422					44.717	1324		
41.421	1026	40.849	1272					44.879	1145		
41.638	1833	41.000	1193								
41.682	1045	41.125	1033								
42.092	1276	41.188	1463								
42.132	1037	41.320	1236								
42.258	1085	41.411	1214								
42.303	1337	41.482	1648								
42.366	1752	41.552	1199								
42.469	1765	41.607	1405								
42.583	1486	41.656	1721								
42.650	1055	41.720	1258								
42.747	1486	41.768	1165								
42.836	1222	41.884	3504								
42.991	1172	41.964	2259								
43.076	1119	42.090	2007								
43.170	1957	42.105	1217								
43.267	1552	42.213	1486								
43.476	1662	42.269	1002								
43.522	1033	42.298	1069								
43.624	1453	42.353	1959								
43.729	1008	42.442	1073								

Extracted Ion Current Profiles

Hexachlorobiphenyls															
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
40.302	1176	40.887	1172	34.601	1008	40.474	1233	40.425	1273	38.671	1428	36.353	1103	34.760	1107
40.599	1022	41.443	1084	34.816	1819	41.598	1197	40.519	1211	38.747	1218	39.100	1050	34.885	1190
40.708	1170	41.833	1094	35.332	1036	41.718	1435	40.641	1296	39.078	1413	39.198	1458	35.931	1138
41.206	1009	42.060	1265	35.400	1002	41.946	1044	40.941	1618	39.252	1082	39.440	1211	36.080	1082
41.403	1012	42.647	1533	35.473	1050	42.086	1005	41.228	1265	39.460	1044	39.738	1217	36.282	1190
41.771	1191	42.748	1196	35.589	1028	42.181	1234	41.404	1264	39.989	1070	39.816	1144	36.382	1013
41.821	1070	43.072	1073	35.971	1219	42.269	1205	41.621	1127	40.087	1090	40.340	1112	37.144	1017
42.071	1475	43.150	1093	36.340	1099	42.389	1467	41.722	1321	40.141	1184	40.470	1725	37.251	1079
42.327	1431	43.202	1181	36.548	1477	42.519	1158	41.784	1307	40.267	1017	40.628	2290	37.302	3418
42.576	1038	43.339	1103	36.693	1163	42.582	1098	41.846	1604	40.328	1186	40.688	1318	37.428	1205
42.917	1167	43.579	1049	36.839	1113	42.756	1087	42.222	1502	40.518	1223	40.816	1161	37.524	2026
43.265	1282	43.654	1004	37.150	1266	42.850	1195	42.363	1031	40.752	1101	41.005	1021	37.603	1047
43.457	1413	43.720	1310	37.380	1322	43.192	1026	42.430	1186	40.832	1111	41.083	1239	37.996	1488
43.551	1057	43.818	1521	37.553	1208	43.245	1483	42.504	1135	41.029	1205	41.202	1426	38.043	2392
43.734	1151	43.921	1334	37.757	1384	43.331	1197	42.584	1067	41.066	1036	41.276	1105	38.130	1512
44.060	1007	44.024	1162	38.018	1102	43.431	1369	42.693	1041	41.091	1015	41.318	1153	38.324	1228
44.099	1258	44.107	1751	38.189	1741	43.728	1102	42.779	1605	41.191	1133	41.428	1304	38.398	1471
44.250	1617	44.206	1200	38.308	1019	43.763	1074	42.844	1628	41.371	1441	41.509	1392	38.462	2660
44.342	1688	44.351	1167	38.444	1559	43.861	1258	42.903	1560	41.648	1268	41.552	1509	38.523	1865
44.449	1159	44.566	1091	38.645	1104	44.034	1143	42.962	1744	41.713	1208	41.675	1764	38.579	1246
44.530	1158	44.617	1124	38.757	1144	44.065	1066	43.035	1498	41.760	1301	41.919	1240	38.647	3322
44.631	1127	44.684	1046	38.844	1003	44.231	1174	43.084	1293	41.797	1037	42.020	1625	38.708	1886
44.852	1111	44.722	1041	38.934	1006	44.305	1565	43.117	1279	41.836	1404	42.071	1498	38.769	1186
44.950	1344	44.780	1429	39.085	1628	44.334	1131	43.272	1249	41.914	1402	42.123	1002	38.821	1468
		44.903	1586	39.218	1135	44.420	1397	43.412	1012	41.960	1394	42.146	1239	38.870	1608
		44.926	1092	39.304	1108	44.529	1370	43.458	1177	42.000	1008	42.244	1242	38.909	1630
				39.410	1350	44.625	1156	43.664	1288	42.064	1298	42.310	1147	38.946	1115
				39.499	1624	44.715	1456	43.766	1239	42.114	1904	42.389	1369	39.016	1169
				39.567	1397	44.789	1170	43.913	1253	42.185	1279	42.426	1261	39.093	1488
				39.677	1606			43.964	1305	42.285	2241	42.504	1520	39.182	1414
				39.734	1241			44.009	1377	42.350	1374	42.640	1109	39.231	2563
				40.163	1218			44.053	1240	42.434	1268	42.740	1024	39.274	1051
				40.336	1117			44.131	1556	42.522	1952	42.803	1200	39.319	2152
				40.362	1075			44.185	1196	42.613	2208	42.992	1425	39.380	1696
				40.435	1613			44.279	1276	42.646	1525	43.059	1005	39.427	1239
				40.558	1119			44.312	1016	42.696	1399	43.093	1293	39.463	1194
				40.619	1026			44.461	1449	42.751	1167	43.198	3220	39.509	3852
				40.684	1540			44.588	1586	42.848	1491	43.265	2065	39.591	1340
				40.924	1533			44.665	1512	42.879	1478	43.402	1446	39.634	1190
				40.964	1027			44.733	1612	43.065	1063	43.488	1026	39.682	1844
				41.095	1796			44.816	1354	43.147	1339	43.533	1236	39.718	1054
				41.144	1044			44.908	1286	43.232	1279	43.573	1895	39.754	2460

Extracted Ion Current Profiles

Heptachlorobiphenyls										
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"
m/z 394		m/z 396		m/z 322		m/z 324		m/z 326		m/z 462
40.425	1273	38.671	1428	33.451	1099	32.003	1017	32.415	1036	
40.519	1211	38.747	1218	33.530	1124	32.373	1025	32.524	1098	
40.641	1296	39.078	1413	33.767	1249	33.166	1021	33.419	1200	
40.941	1618	39.252	1082	33.939	1066	33.637	1267	35.076	1888	
41.228	1265	39.460	1044	34.161	1054	33.701	1063	35.798	1213	
41.404	1264	39.989	1070	34.291	1256	34.264	1228	36.512	1173	
41.621	1127	40.087	1090	34.419	1364	34.305	1519	37.093	1091	
41.722	1321	40.141	1184	34.594	1065	34.402	1031	37.631	1048	
41.784	1307	40.267	1017	34.845	1220	34.681	1818	37.978	1125	
41.846	1604	40.328	1186	35.061	1011	34.914	1545			
42.222	1502	40.518	1223	35.277	1034	35.011	1029			
42.363	1031	40.752	1101	35.565	1457	35.060	1730			
42.430	1186	40.832	1111	36.117	1189	35.175	1432			
42.504	1135	41.029	1205	36.187	1189	35.779	1018			
42.584	1067	41.066	1036	36.316	1089	35.847	1361			
42.693	1041	41.091	1015	36.391	1467	35.899	1115			
42.779	1605	41.191	1133	36.760	1537	36.151	1158			
42.844	1628	41.371	1441	37.179	1164	36.306	1005			
42.903	1560	41.648	1268	37.283	1422	36.622	1070			
42.962	1744	41.713	1208	37.359	1097	37.517	1092			
43.035	1498	41.760	1301	37.532	1018					
43.084	1293	41.797	1037	37.703	1180					
43.117	1279	41.836	1404	37.809	1199					
43.272	1249	41.914	1402	38.255	1008					
43.412	1012	41.960	1394	38.385	1291					
43.458	1177	42.000	1008							
43.664	1288	42.064	1298							
43.766	1239	42.114	1904							
43.913	1253	42.185	1279							
43.964	1305	42.285	2241							
44.009	1377	42.350	1374							
44.053	1240	42.434	1268							
44.131	1556	42.522	1952							
44.185	1196	42.613	2208							
44.279	1276	42.646	1525							
44.312	1016	42.696	1399							
44.461	1449	42.751	1167							
44.588	1586	42.848	1491							
44.665	1512	42.879	1478							
44.733	1612	43.065	1063							
44.816	1354	43.147	1339							
44.908	1286	43.232	1279							

Extracted Ion Current Profiles

Heptachlorobiphenyls													
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 464		m/z 466		m/z 390		m/z 428		m/z 430		m/z 432		m/z 391	
42.584	1204	41.751	1111	38.837	1038	42.745	1114	40.302	1176	40.887	1172	40.540	1161
42.984	1022	42.503	1060	39.451	1306	42.962	1044	40.599	1022	41.443	1084	40.711	1144
44.284	1083	43.605	1190	40.906	1015	43.552	1230	40.708	1170	41.833	1094	41.523	1014
44.740	1043	43.959	1006	41.046	1007	43.659	1103	41.206	1009	42.060	1265	41.877	1054
44.911	1120	44.435	1176	41.269	1071	43.713	1322	41.403	1012	42.647	1533	42.011	1068
		44.501	1088	41.555	1060	43.859	1323	41.771	1191	42.748	1196	42.466	1485
		44.734	1747	41.636	1591	43.940	1578	41.821	1070	43.072	1073	42.543	1121
				41.862	1066	44.110	1155	42.071	1475	43.150	1093	43.034	1007
				41.938	1347	44.199	1425	42.327	1431	43.202	1181	43.087	1200
				42.295	1610	44.357	1251	42.576	1038	43.339	1103	43.239	1264
				42.539	1323	44.407	1163	42.917	1167	43.579	1049	43.559	1135
				42.607	1002	44.821	1177	43.265	1282	43.654	1004	44.036	1339
				42.660	1286	44.877	1075	43.457	1413	43.720	1310	44.099	1055
				42.737	1110	44.934	1180	43.551	1057	43.818	1521	44.145	1153
				42.869	1152	44.972	1076	43.734	1151	43.921	1334	44.236	1146
				43.021	1313			44.060	1007	44.024	1162	44.277	1166
				43.075	1251			44.099	1258	44.107	1751	44.519	1192
				43.209	1486			44.250	1617	44.206	1200	44.673	1088
				43.246	1029			44.342	1688	44.351	1167	44.739	1078
				43.424	1202			44.449	1159	44.566	1091	44.906	1699
				43.518	1363			44.530	1158	44.617	1124		
				43.553	1003			44.631	1127	44.684	1046		
				43.590	1142			44.852	1111	44.722	1041		
				43.634	1173			44.950	1344	44.780	1429		
				43.770	1226					44.903	1586		
				43.908	1049					44.926	1092		
				44.040	1177								
				44.158	1290								
				44.224	1152								
				44.393	1318								
				44.695	1227								
				44.730	1042								
				44.774	1312								
				44.940	1049								

Extracted Ion Current Profiles

Octachlorobiphenyls										
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
40.302	1176	42.745	1114	34.601	1008	35.857	1131	36.524	1030	
40.599	1022	42.962	1044	34.816	1819	36.752	1010	37.198	1199	
40.708	1170	43.552	1230	35.332	1036	37.089	1051	37.367	1122	
41.206	1009	43.659	1103	35.400	1002	37.311	1052	37.855	1285	
41.403	1012	43.713	1322	35.473	1050	37.416	1082	38.403	1147	
41.771	1191	43.859	1323	35.589	1028	37.504	1076	38.728	1131	
41.821	1070	43.940	1578	35.971	1219	37.926	1178	38.823	1212	
42.071	1475	44.110	1155	36.340	1099	38.027	1445	39.156	1623	
42.327	1431	44.199	1425	36.548	1477	38.424	1253	39.322	1034	
42.576	1038	44.357	1251	36.693	1163	38.670	1099	39.420	1086	
42.917	1167	44.407	1163	36.839	1113	38.807	1211	39.768	1183	
43.265	1282	44.821	1177	37.150	1266	38.897	1138	39.835	1329	
43.457	1413	44.877	1075	37.380	1322	39.111	1594	39.933	1293	
43.551	1057	44.934	1180	37.553	1208	39.216	1470	40.263	1118	
43.734	1151	44.972	1076	37.757	1384	39.265	1694	40.464	1628	
44.060	1007			38.018	1102	39.450	1448	40.640	1466	
44.099	1258			38.189	1741	39.523	1245	40.695	1197	
44.250	1617			38.308	1019	39.562	1167	41.096	1725	
44.342	1688			38.444	1559	39.677	1338	41.166	1045	
44.449	1159			38.645	1104	39.799	1225	41.290	1039	
44.530	1158			38.757	1144	39.921	1687	41.349	1357	
44.631	1127			38.844	1003	39.967	1188	41.421	1026	
44.852	1111			38.934	1006	40.032	1221	41.638	1833	
44.950	1344			39.085	1628	40.069	1324	41.682	1045	
				39.218	1135	40.226	1413	42.092	1276	
				39.304	1108	40.263	1371	42.132	1037	
				39.410	1350	40.459	1245	42.258	1085	
				39.499	1624	40.789	1208	42.303	1337	
				39.567	1397	40.862	1284	42.366	1752	
				39.677	1606	40.916	1149	42.469	1765	
				39.734	1241	41.025	1588	42.583	1486	
				40.163	1218	41.115	1208	42.650	1055	
				40.336	1117	41.187	1320	42.747	1486	
				40.362	1075	41.302	1822	42.836	1222	
				40.435	1613	41.397	2145	42.991	1172	
				40.558	1119	41.421	2006	43.076	1119	
				40.619	1026	41.605	1049	43.170	1957	
				40.684	1540	41.673	3241	43.267	1552	
				40.924	1533	41.826	1302	43.476	1662	
				40.964	1027	41.887	1691	43.522	1033	
				41.095	1796	42.081	2017	43.624	1453	
				41.144	1044	42.155	1192	43.729	1008	

Extracted Ion Current Profiles

Octachlorobiphenyls					
"M3011126"		"M3011126"		"M3011126"	
m/z 464		m/z 466		m/z 425	
42.584	1204	41.751	1111	41.070	1125
42.984	1022	42.503	1060	41.485	1006
44.284	1083	43.605	1190	42.490	1402
44.740	1043	43.959	1006	42.625	1018
44.911	1120	44.435	1176	42.916	1046
		44.501	1088	43.006	1085
		44.734	1747	43.068	1017
				43.185	1224
				43.457	1044
				43.670	1559
				43.759	1451
				44.013	1101
				44.073	2054
				44.306	1057
				44.446	1380
				44.524	1347
				44.635	1218
				44.814	1235
				44.913	1019
				44.938	1088

Extracted Ion Current Profiles

Nonachlorobiphenyls									
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 464		m/z 466		m/z 390		m/z 392		m/z 394	
42.584	1204	41.751	1111	38.837	1038	40.474	1233	40.425	1273
42.984	1022	42.503	1060	39.451	1306	41.598	1197	40.519	1211
44.284	1083	43.605	1190	40.906	1015	41.718	1435	40.641	1296
44.740	1043	43.959	1006	41.046	1007	41.946	1044	40.941	1618
44.911	1120	44.435	1176	41.269	1071	42.086	1005	41.228	1265
		44.501	1088	41.555	1060	42.181	1234	41.404	1264
		44.734	1747	41.636	1591	42.269	1205	41.621	1127
				41.862	1066	42.389	1467	41.722	1321
				41.938	1347	42.519	1158	41.784	1307
				42.295	1610	42.582	1098	41.846	1604
				42.539	1323	42.756	1087	42.222	1502
				42.607	1002	42.850	1195	42.363	1031
				42.660	1286	43.192	1026	42.430	1186
				42.737	1110	43.245	1483	42.504	1135
				42.869	1152	43.331	1197	42.584	1067
				43.021	1313	43.431	1369	42.693	1041
				43.075	1251	43.728	1102	42.779	1605
				43.209	1486	43.763	1074	42.844	1628
				43.246	1029	43.861	1258	42.903	1560
				43.424	1202	44.034	1143	42.962	1744
				43.518	1363	44.065	1066	43.035	1498
				43.553	1003	44.231	1174	43.084	1293
				43.590	1142	44.305	1565	43.117	1279
				43.634	1173	44.334	1131	43.272	1249
				43.770	1226	44.420	1397	43.412	1012
				43.908	1049	44.529	1370	43.458	1177
				44.040	1177	44.625	1156	43.664	1288
				44.158	1290	44.715	1456	43.766	1239
				44.224	1152	44.789	1170	43.913	1253
				44.393	1318			43.964	1305
				44.695	1227			44.009	1377
				44.730	1042			44.053	1240
				44.774	1312			44.131	1556
				44.940	1049			44.185	1196
								44.279	1276
								44.312	1016
								44.461	1449
								44.588	1586
								44.665	1512
								44.733	1612
								44.816	1354
								44.908	1286

Extracted Ion Current Profiles

Decachlorobiphenyl											
"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"		"M3011126"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
		42.883	1115	41.393	1000	40.382	1122	42.745	1114	40.302	1176
				41.634	1214	41.136	1129	42.962	1044	40.599	1022
				42.043	1080	41.288	1585	43.552	1230	40.708	1170
				42.177	1065	41.502	1061	43.659	1103	41.206	1009
				42.641	1087	42.297	1741	43.713	1322	41.403	1012
				42.804	1165	42.608	1093	43.859	1323	41.771	1191
				43.125	1061	42.795	1244	43.940	1578	41.821	1070
				43.760	1110	42.891	1235	44.110	1155	42.071	1475
				43.862	1044	43.000	1125	44.199	1425	42.327	1431
				43.912	1186	43.089	1567	44.357	1251	42.576	1038
				43.960	1089	43.132	1019	44.407	1163	42.917	1167
				44.017	1163	43.262	1149	44.821	1177	43.265	1282
				44.451	1153	43.502	1362	44.877	1075	43.457	1413
				44.531	1198	43.583	1041	44.934	1180	43.551	1057
				44.601	1365	43.706	1070	44.972	1076	43.734	1151
				44.733	1264	43.760	1206			44.060	1007
				44.825	1817	43.895	1171			44.099	1258
				44.918	1027	43.953	1515			44.250	1617
						44.170	1746			44.342	1688
						44.449	1228			44.449	1159
						44.717	1324			44.530	1158
						44.879	1145			44.631	1127
										44.852	1111
										44.950	1344

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011126"		"M3011126"				"M3011126"		"M3011126"			"M3011126"		"M3011126"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.974	927(M)	11.976	701	424	240	30.204	2412	33.001	1007	188	15.810	241836	9.217	1345
30.559	647	30.726	549	426	241	32.491	1032	33.775	1071	189	16.184	2447	15.384	1087
31.165	787	31.159	524	428		34.273	263600	34.021	1081				15.812	39913
31.377	632	31.331	599	430		34.460	1195	34.273	56594				19.436	1348
31.751	621	31.859	654	498		34.485	1402	34.387	1184				20.059	1830
31.978	534	31.938	608	500		34.619	1134	34.457	1070				20.407	1160
32.042	1329	32.077	508			34.667	1368	34.538	2575				21.824	1114
32.066	1949	32.161	600			34.732	1168	34.594	1022				22.190	1315
32.213	585	32.428	566			34.838	1482	34.758	1429				22.791	1503
32.293	531	32.917	511			35.013	1377	35.087	1121				23.106	1171
32.584	639	33.013	595			35.480	1089	35.151	1273				23.459	1009
32.757	607	33.217	732			36.259	1134	35.287	1404				23.682	1031
32.809	523	33.264	586			37.164	1149	35.351	1149				23.709	1287
32.915	606	33.323	513			37.378	1055	35.680	1099				24.105	1228
32.989	553	33.589	633			38.160	1054	35.945	1381				24.507	1944
33.165	571	33.636	608					36.069	1227				24.601	1110
33.243	543	33.805	660					36.129	1579				24.664	1127
33.345	798	33.931	567					36.209	1791				24.725	1055
33.398	555	34.085	524					36.253	1491				24.808	1256
33.456	517	34.189	792					36.483	1320				25.029	1013
33.567	643	34.254	3283					36.579	2178				25.550	2033
33.631	532	34.289	3113					36.670	1504				25.682	1891
33.686	571	34.420	696					36.793	1200				25.789	1287
33.842	595	34.552	662					36.886	2054				25.894	1048
34.090	853	34.627	587					36.994	1284				25.941	1215
34.221	805	34.693	743					37.167	1039				26.003	1916
34.269	805	34.766	754					37.217	1458				26.122	1038
34.427	507	34.804	636					37.503	1256				26.332	1311
34.511	550	35.029	699					37.542	1421				26.387	1046
34.550	570	35.071	518					37.618	1947				26.483	1460
34.583	509	35.217	806					37.697	1001				26.552	1292
34.638	791	35.361	652					37.774	1317				26.619	2916
34.729	532	35.530	780					37.826	1472				26.719	1391
34.769	648	35.592	731					37.889	1116				27.010	1184
34.871	861	35.621	725					37.980	1073				27.125	1234
34.951	588	35.664	612					38.033	1652				27.198	1129
35.014	738	35.787	952					38.068	1189				27.364	2640
35.076	514	35.871	757					38.158	1230					
35.115	562	35.911	543					38.237	1522					
35.212	604	36.030	528					38.317	1244					
35.248	813	36.076	506					38.359	1763					

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	38.563	641	40.169	682
512	39.087	663	41.827	810
	39.227	583	42.095	754
	40.266	561	42.313	672
	40.493	652	42.528	534
	40.621	694	42.637	18351
	41.591	578	42.693	1144
	41.746	881	42.885	555
	42.050	518	43.023	655
	42.210	512	43.123	519
	42.286	599	43.446	651
	42.630	23827	43.738	682
	42.726	561	43.806	541
	42.806	504	43.893	794
	42.954	650	44.003	613
	43.233	686	44.051	560
	43.373	526	44.318	819
	43.607	727	44.411	513
	43.762	838	44.519	510
	44.061	513	44.604	1038
	44.123	637	44.865	1053
	44.218	646	44.923	560
	44.360	723		
	44.411	579		
	44.504	525		
	44.557	655		
	44.755	620		
	44.885	633		
	44.946	938		

Internal Standard Area Summary

8B

EPA 680 INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Services, Inc. Contract: TRC-KEITH

Lab Code: 11078 Case No.: NA SAS No: NA SDG No: 12010053

Sample Name: CCV3-0111A

Lab File ID (Standard): MS03-313-28669

Instrument ID: MS03

Date Analyzed: 01/11/2012

Time Analyzed: 8:58:00 AM

GC Column: Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm

	IS1 (CRY) AREA #	RT #	IS2 (PHN) AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	213892	34.22	208671	15.76		
UPPER LIMIT	278059.6	34.39	271272.3	15.93		
LOWER LIMIT	149724.4	34.05	146069.7	15.60		
EPA SAMPLE NO.						
AP00226L	230030	34.22	225845	15.77		
AP00226S	235752	34.23	231338	15.77		
AP00226B	241368	34.23	229234	15.78		
AP00226	222225	34.23	220216	15.78		
AP00227	240666	34.23	240978	15.78		
AP00228	243000	34.23	239892	15.78		
AP00229	243678	34.23	238178	15.78		
AP00230	243809	34.24	237332	15.78		
AP00231	239364	34.24	234389	15.78		
AP00232	247126	34.24	235443	15.78		

IS1 (CRY) = Chrysene-d_{12}
IS2 (PHN) = Phenanthrene-d_{10}

AREA UPPER LIMIT = + 30% of internal standard area
AREA LOWERLIMIT = -30% of internal standard area
RT UPPER LIMIT = +0.167 minutes of internal standard RT
RT LOWER LIMIT = -0.167 minutes of internal standard RT

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

FORM VIII SVOA

8B

EPA 680 INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Services, Inc. Contract: TRC-KEITH

Lab Code: 11078 Case No.: NA SAS No: NA SDG No: 12010053

Sample Name: CCV3-0111C

Lab File ID (Standard): MS03-314-28683

Instrument ID: MS03

Date Analyzed: 01/11/2012

Time Analyzed: 9:21:00 PM

GC Column: Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm

	IS1 (CRY) AREA #	RT #	IS2 (PHN) AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	221117	34.24	221299	15.78		
UPPER LIMIT	287452.1	34.41	287688.7	15.95		
LOWER LIMIT	154781.9	34.08	154909.3	15.62		
EPA SAMPLE NO.						
AP00233B	251872	34.24	247749	15.79		
AP00233L	247165	34.25	241851	15.79		
AP00233S	249958	34.26	247803	15.79		
AP00233	251809	34.29	291763 *	15.81		
AP00234	268679	34.27	272011	15.81		
AP00235	229427	34.27	244819	15.81		
AP00236	240148	34.26	223126	15.81		
AP00237	245815	34.27	232264	15.81		
AP00238	263600	34.27	241836	15.81		

IS1 (CRY) = Chrysene-d_{12}

IS2 (PHN) = Phenanthrene-d_{10}

AREA UPPER LIMIT = + 30% of internal standard area

AREA LOWERLIMIT = -30% of internal standard area

RT UPPER LIMIT = +0.167 minutes of internal standard RT

RT LOWER LIMIT = -0.167 minutes of internal standard RT

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

* Values outside of QC limits.

FORM VIII SVOA

Window Defining Mix

Pace Analytical - NY Lab

PCB REPORT EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081602.d
Lab Smp Id: WDM3-0816A Client Smp ID: WDM3-0816A
Inj Date : 16-AUG-2011 10:55
Operator : RMS Inst ID: GCMS03.i
Smp Info : WDM3-0816A
Misc Info : RS M3081602
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680WDM3.m
Meth Date : 16-Aug-2011 11:49 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 10:55 Cal File: M3081602.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 680WDM.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 2 Phenanthrene-d10	188	15.869	15.869	(1.000)	142027	0.80000	
* 6 Chrysene-d12	240	34.362	34.362	(1.000)	153807	0.80000	
1 Cl1	188	9.607	9.607	(0.280)	473760	2.50000	2.50
3 RTstd-BZ-104	326	20.145	20.145	(0.586)	492482	2.50000	2.50
4 RTstd-BZ-77	292	27.305	27.305	(0.795)	479538	2.50000	2.50
5 RTstd-BZ-202	430	33.044	33.044	(0.962)	408517	2.50000	2.50
7 RTstd-BZ-208	464	37.973	37.973	(1.105)	420493	2.50000	2.50
8 RTstd-BZ-189	394	38.386	38.386	(1.117)	454108	2.50000	2.50
9 Cl10	498	42.742	42.742	(1.244)	499837	2.50000	2.50

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081602.d

Date : 16-AUG-2011 10:55

Client ID: WDM3-0816A

Instrument: GCMS03.i

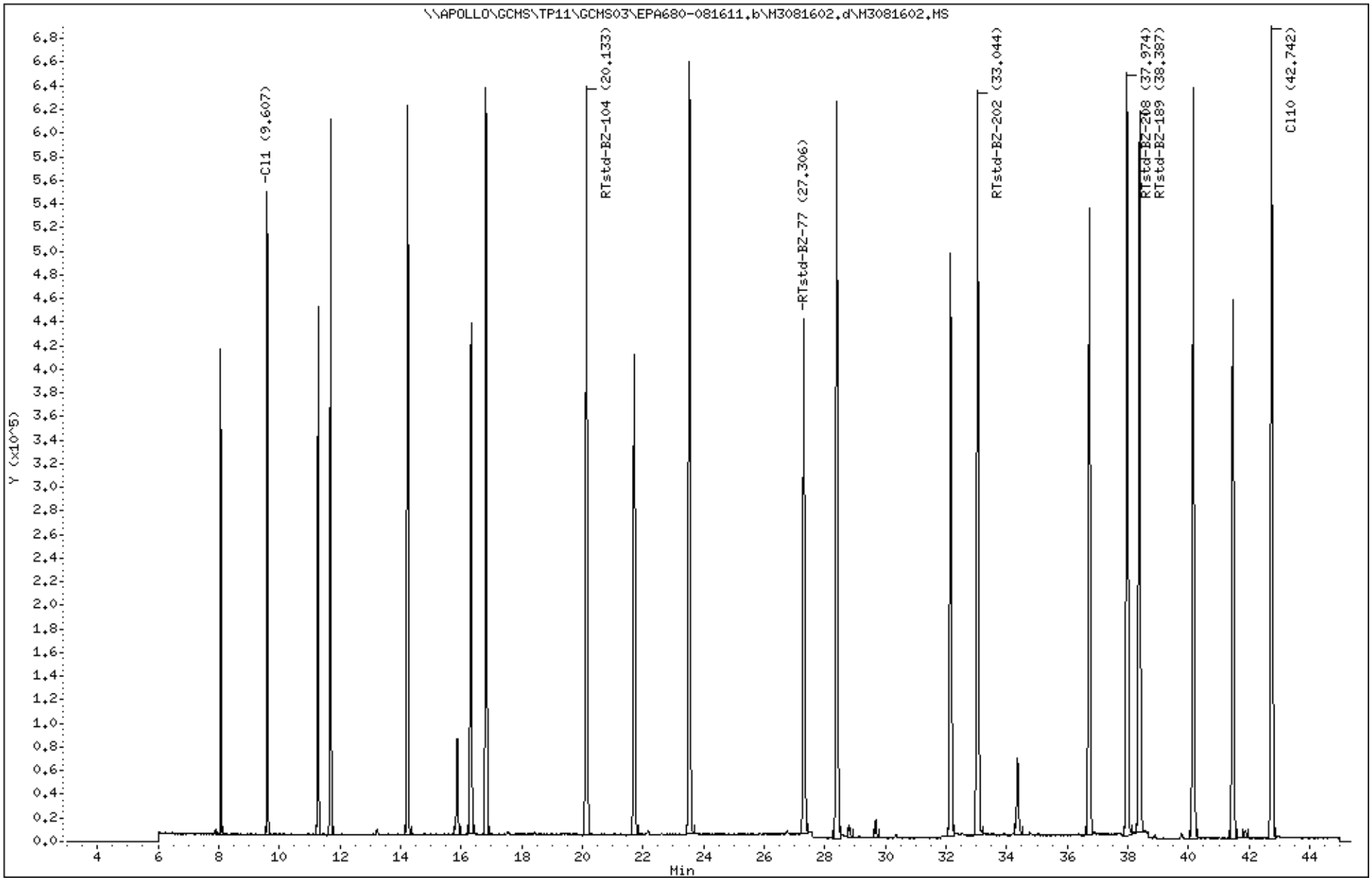
Sample Info: WDM3-0816A

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Pace Analytical - NY Lab

PCB REPORT EPA 680

Data file : \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011102.d
Lab Smp Id: WDM3-0111A Client Smp ID: WDM3-0111A
Inj Date : 11-JAN-2012 08:08
Operator : RMS Inst ID: GCMS03.i
Smp Info : WDM3-0111A
Misc Info : RS M3011102
Comment :
Method : \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\680WDM3.m
Meth Date : 10-Jan-2012 15:26 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 10:55 Cal File: M3081602.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 680WDM.sub
Target Version: 4.14
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 2 Phenanthrene-d10	188	15.778	15.869	(1.000)	212918	0.80000	
* 6 Chrysene-d12	240	34.227	34.361	(1.000)	214651	0.80000	
1 Cl1	188	9.545	9.607	(0.279)	742405	2.80716	2.81
3 RTstd-BZ-104	326	20.037	20.135	(0.585)	702852	2.55658	2.56
4 RTstd-BZ-77	292	27.188	27.314	(0.794)	702489	2.62423	2.62
5 RTstd-BZ-202	430	32.904	33.049	(0.961)	561848	2.46373	2.46
7 RTstd-BZ-208	464	37.834	37.968	(1.105)	571058	2.43280	2.43
8 RTstd-BZ-189	394	38.256	38.376	(1.118)	629729	2.48416	2.48
9 Cl10	498	42.598	42.745	(1.245)	595712	2.13497	2.13

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011102.d

Date : 11-JAN-2012 08:08

Client ID: WDM3-0111A

Instrument: GCMS03.i

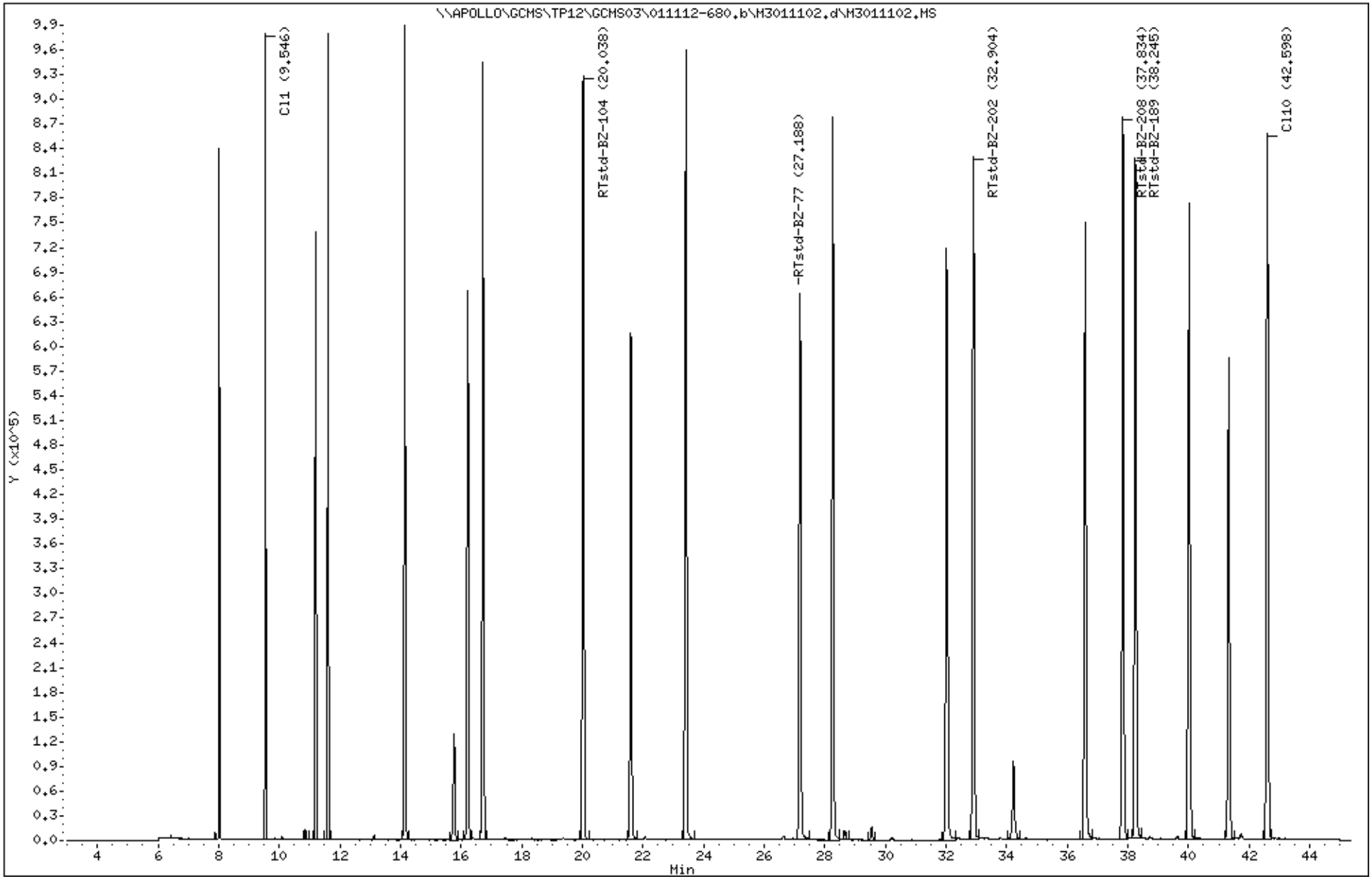
Sample Info: WDM3-0111A

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Pace Analytical - NY Lab

PCB REPORT EPA 680

Data file : \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011116.d
Lab Smp Id: WDM3-0111B Client Smp ID: WDM3-0111B
Inj Date : 11-JAN-2012 20:32
Operator : RMS Inst ID: GCMS03.i
Smp Info : WDM3-0111B
Misc Info : RS M3011116
Comment   :
Method   : \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\680WDM3.m
Meth Date : 10-Jan-2012 15:26 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 10:55 Cal File: M3081602.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 680WDM.sub
Target Version: 4.14
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/uL)	FINAL (ug/L)
* 2 Phenanthrene-d10	188	15.795	15.869	(1.000)	229106	0.80000	
* 6 Chrysene-d12	240	34.245	34.361	(1.000)	231313	0.80000	
1 Cl1	188	9.566	9.607	(0.279)	823882	2.89084	2.89
3 RTstd-BZ-104	326	20.048	20.135	(0.585)	767448	2.59046	2.59
4 RTstd-BZ-77	292	27.207	27.314	(0.794)	759975	2.63447	2.63
5 RTstd-BZ-202	430	32.928	33.049	(0.962)	613486	2.49639	2.50
7 RTstd-BZ-208	464	37.868	37.968	(1.106)	625087	2.47115	2.47
8 RTstd-BZ-189	394	38.275	38.376	(1.118)	661113	2.42010	2.42
9 Cl10	498	42.625	42.745	(1.245)	638085	2.12211	2.12

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011116.d

Date : 11-JAN-2012 20:32

Client ID: WDM3-0111B

Instrument: GCMS03.i

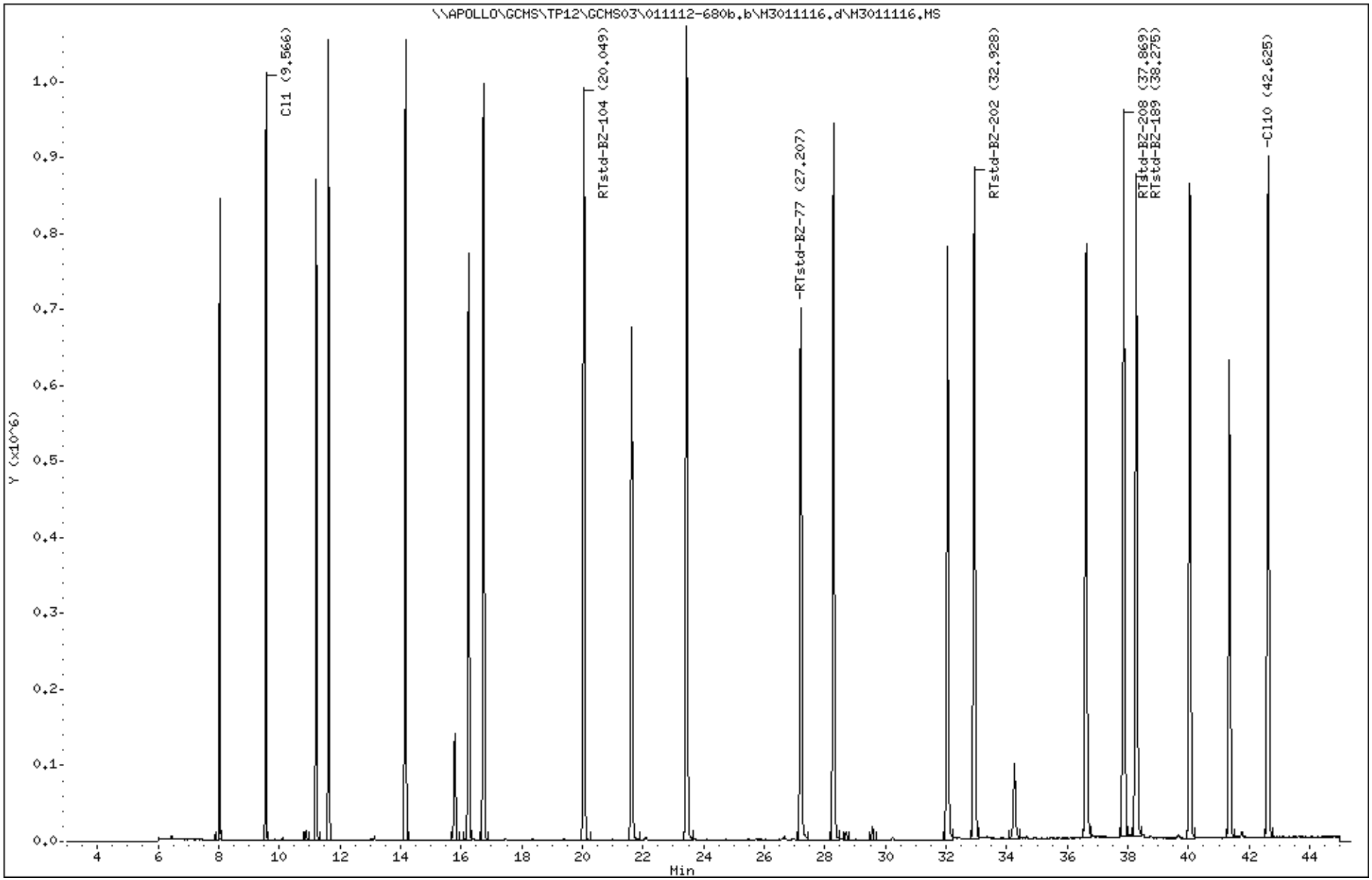
Sample Info: WDM3-0111B

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Initial Calibration Data

6B
EPA 680 Initial Calibration Data

Pace Analytical Services, Inc. SDG No.: 12010053

Instrument ID: GCMS 03
GC Column: DB XLB

Start Cal Date: 08/16/11 Time: 11:44
End Cal Date: 08/16/11 Time: 16:39

Calibration File Names:
Level 1: \\M3081609
Level 2: \\M3081608
Level 3: \\M3081607
Level 4: \\M3081606
Level 5: \\M3081605
Level 6: \\M3081604
Level 7: \\M3081603

NEA File ID: S:\Lab Data\GCMS-SV\EPA-680\TRC_LRF12010053\[081611_680CLP_6B.xls]680CLP-6B

COMPOUND	RRF Level1	RRF Level2	RRF Level3	RRF Level4	RRF Level5	RRF Level6	RRF Level7	MEAN RRF	% RSD
Cl1	1.4202	1.2872	1.1150	1.0458	1.0212	0.9903	0.9597	1.120	15.29%
Cl2	1.4927	1.2706	1.0763	1.0149	1.0034	0.9459	0.9153	1.103	18.82%
Cl3	1.1683	1.0245	0.9480	0.8965	0.8896	0.8254	0.8203	0.939	13.13%
Cl4	1.0277	0.9203	0.7532	0.7142	0.7053	0.6690	0.6368	0.775	18.57%
Cl5	0.9647	0.8695	0.7631	0.7378	0.7398	0.6914	0.6763	0.778	13.32%
Cl6	0.9426	0.8624	0.8053	0.7832	0.7585	0.7098	0.7108	0.796	10.54%
Cl7	1.1132	1.0561	0.9515	0.8943	0.8829	0.8593	0.8436	0.943	11.01%
Cl8	1.3734	1.1191	0.9703	0.9567	0.9391	0.8973	0.8874	1.020	16.99%
Cl9	1.1968	1.1171	1.0355	1.0162	1.0051	0.8929	0.9422	1.029	9.94%
Cl10	1.1968	1.1171	1.0355	1.0162	1.0051	0.8929	0.9422	1.029	9.94%
Chyrsene-d12	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.000	0.00%
TCMX	0.2515	0.2529	0.2014	0.1866	0.1915	0.1745	0.1702	0.204	16.88%
$D^{13}C_{12}BP$	1.0476	1.2059	1.0310	1.0125	0.9385	0.8672	**	1.017	11.25%

COMPOUND	Conc. ug/mL Level1	Conc. ug/mL Level2	Conc. ug/mL Level3	Conc. ug/mL Level4	Conc. ug/mL Level5	Conc. ug/mL Level6	Conc. ug/mL Level7
Cl1	0.005	0.010	0.050	1.000	2.000	3.000	5.000
Cl2	0.005	0.010	0.050	1.000	2.000	3.000	5.000
Cl3	0.005	0.010	0.050	1.000	2.000	3.000	5.000
Cl4	0.010	0.020	0.100	2.000	4.000	6.000	10.000
Cl5	0.010	0.020	0.100	2.000	4.000	6.000	10.000
Cl6	0.010	0.020	0.100	2.000	4.000	6.000	10.000
Cl7	0.015	0.030	0.150	3.000	6.000	9.000	15.000
Cl8	0.015	0.030	0.150	3.000	6.000	9.000	15.000
Cl10	0.025	0.050	0.250	5.000	10.000	15.000	25.000
TCMX	0.005	0.010	0.050	1.000	2.000	3.000	5.000
$D^{13}C_{12}BP$	0.025	0.050	0.250	5.000	10.00	15.000	+++++

TCMX = Tetrachloro-m-xylene
$D^{13}C_{12}BP$ = Decachlorobiphenyl (13C labeled)

FORM VI-CLP-EPA 680 -1

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081609.d
Lab Smp Id: iCAL-1 Client Smp ID: iCAL-1
Inj Date : 16-AUG-2011 16:39
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-1
Misc Info : RS M3081609
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 16:39 Cal File: M3081609.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.861	15.861	(1.000)	324788	0.80000	
* 13 Chrysene-d12	240	34.341	34.341	(1.000)	321860	0.80000	
1 Cl1	188	9.609	9.609	(0.280)	2951	0.00500	0.00643
$ 2 Tetrachloro-m-xylene	244	12.013	12.014	(0.350)	519	0.00500	0.00618
3 Cl2	222	13.502	13.502	(0.393)	2627	0.00500	0.00608
5 Cl3	256	17.088	17.088	(0.498)	2420	0.00500	0.00631
6 Cl4	292	17.531	17.531	(0.511)	3913	0.01000	0.0126
7 RTstd-BZ-104	326	20.120	20.120	(0.586)	5748	0.01000	0.0125
8 Cl5	326	25.998	25.998	(0.757)	3771	0.01000	0.0120
9 Cl6	360	26.296	26.296	(0.766)	3868	0.01000	0.0118
10 RTstd-BZ-77	292	27.306	27.306	(0.795)	5323	0.01000	0.0124
11 Cl7	394	28.383	28.383	(0.827)	6865	0.01500	0.0176(a)
12 Cl8	430	33.495	33.495	(0.975)	7511	0.01500	0.0185(a)
14 RTstd-BZ-208	464	37.956	37.956	(1.105)	9023	0.02000	0.0231(a)
15 Cl10	498	42.728	42.728	(1.244)	12127	0.02500	0.0289(a)
$ 16 Decachloro-13C12-Biphenyl	510	42.715	42.715	(1.244)	10717	0.02500	0.0258(a)

QC Flag Legend

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

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081609.d

Date : 16-AUG-2011 16:39

Client ID: iCAL-1

Instrument: GCMS03.i

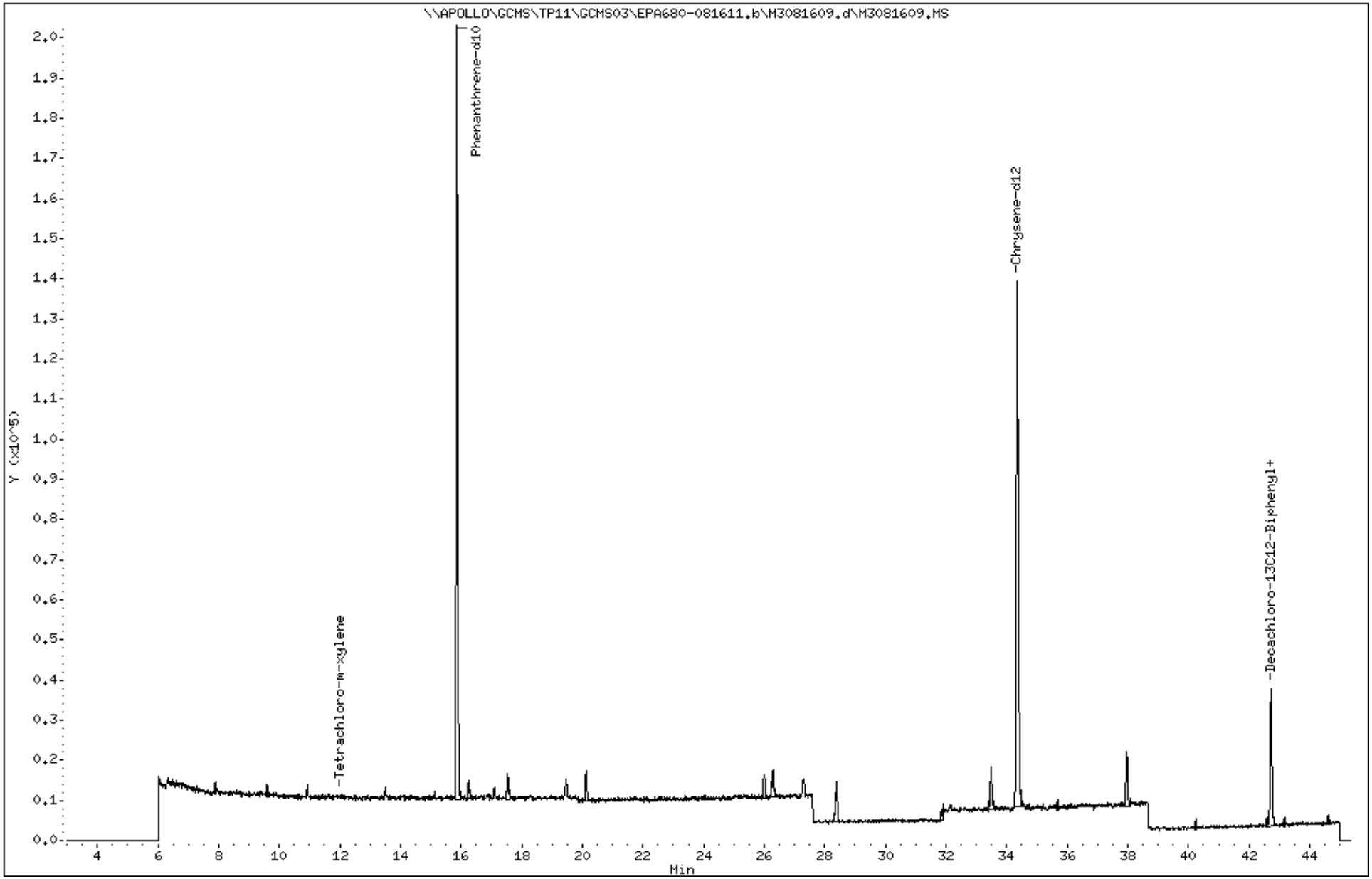
Sample Info: iCAL-1

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3081609"		"M3081609"		"M3081609"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.606	2920	9.604	1142				
15.863	325971	15.866	4579				
16.244	3713						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081609"		"M3081609"		"M3081609"						"M3081609"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.509	3069	13.506	1902							9.606	2920
17.538	1869									15.863	325971
27.305	1757									16.244	3713

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081609"		"M3081609"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.096	2402	17.105	1481		
20.125	1929				
26.009	1895				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081609"		"M3081609"				"M3081609"		"M3081609"		"M3081609"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.096	2402	17.105	2208(M)			9.606	2920	20.126	3173	20.123	5483
20.125	1929					15.863	325971	25.991	1108	26.000	3967
26.009	1895					16.244	3713	26.011	1298	28.383	2112
								28.391	2761		

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081609"		"M3081609"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.536	2574	17.539	4226				
						26.291	1258				
				26.290	2009	27.302	5664				
				27.304	3949						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081609"		"M3081609"			"M3081609"		"M3081609"		"M3081609"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.539	4226	17.536	2832(M)		13.509	3069	26.291	3876	26.291	3079	
26.291	1258	26.290	2009		17.538	1869	33.484	1246			
27.302	5664	27.304	3949		27.305	1757					

Extracted Ion Current Profiles

Tetrachlorobiphenyls						
	"M3081609"		"M3081609"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.126	3173	20.123	5483		
	25.991	1108	26.000	3967		
	26.011	1298	28.383	2112		
	28.391	2761				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081609"		"M3081609"			"M3081609"		"M3081609"		"M3081609"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.123	5483	20.126	3173		17.096	2402	17.105	1481	
26.000	3967	25.991	2406(M)		20.125	1929			
28.383	2112	26.011	1298		26.009	1895			
		28.391	2761						

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081609"		"M3081609"					"M3081609"		"M3081609"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.385	6866	28.384	6634				26.291	3876	26.291	3079	
37.947	1226	37.966	1610				33.484	1246			
37.969	1450										

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081609"		"M3081609"			"M3081609"			"M3081609"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.291	3876	26.291	3079		17.536	2574			
33.484	1246							33.481	5936
					26.290	2009		42.734	3702
					27.304	3949			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081609"								"M3081609"		"M3081609"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.490	8471							28.385	6866	28.384	6634		
41.393	1013							37.947	1226	37.966	1610		
42.732	4342							37.969	1450				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081609"		"M3081609"			"M3081609"		"M3081609"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.385	6866	28.384	6634		20.126	3173	20.123	5483	
37.947	1226	37.966	1610		25.991	1108	26.000	3967	
37.969	1450				26.011	1298	28.383	2112	
					28.391	2761			

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081609"		"M3081609"			"M3081609"		"M3081609"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.959	9095	37.961	6511				33.490	8471			
					33.481	5936	41.393	1013			
					42.734	3702	42.732	4342			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081609"		"M3081609"				"M3081609"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.490	8471	33.481	6570(M)				26.291	3876	
41.393	1013	42.734	3702				33.484	1246	
42.732	4342								

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081609"		"M3081609"		
m/z 464		m/z 466		m/z 425
37.959	9095	37.961	6511	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081609"		"M3081609"				"M3081609"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.959	9095	37.961	6511			28.385	6866
						37.947	1226
						37.969	1450

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081609"		"M3081609"				"M3081609"		"M3081609"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.731	12303	42.721	10841			33.481	5936	33.490	8471
						42.734	3702	41.393	1013
								42.732	4342

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081609"		"M3081609"				"M3081609"		"M3081609"			"M3081609"		"M3081609"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
12.018	517(M)	6.133	143	424	240	34.347	328958	34.344	69901	188	9.606	2920	15.861	49888
29.931	101	6.514	116	426	241	34.540	2211			189	15.863	325971		
31.228	189	6.587	109	428							16.244	3713		
31.252	125	6.687	101	430										
32.129	1710	7.310	124	498										
32.151	1618	8.712	105	500										
32.230	153	8.907	143											
32.279	110	9.450	132											
32.737	102	10.031	126											
34.612	104	10.155	138											
35.027	109	10.711	136											
36.931	103	11.178	158											
37.902	100	11.545	130											
		11.630	106											
		11.708	105											
		11.741	112											
		12.022	401(M)											
		12.206	123											
		12.326	141											
		13.237	115											
		13.781	138											
		14.116	103											
		15.630	176											
		15.709	103											
		16.570	128											
		17.980	148											
		18.125	145											
		18.344	115											
		18.563	140											
		18.842	121											
		19.125	129											
		19.194	133											
		19.352	135											
		19.628	113											
		29.223	104											
		29.383	108											
		31.122	145											
		31.227	246											
		31.258	157											
		32.063	106											
		32.164	128											

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.716	10769	42.707	11328
512	42.754	1586		

2424(M)

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081608.d
Lab Smp Id: iCAL-2 Client Smp ID: iCAL-2
Inj Date : 16-AUG-2011 15:50
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-2
Misc Info : RS M3081608
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 15:50 Cal File: M3081608.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.870	15.861	(1.000)	309298	0.80000	
* 13 Chrysene-d12	240	34.353	34.341	(1.000)	323948	0.80000	
1 Cl1	188	9.609	9.609	(0.280)	5446	0.01000	0.0124
$ 2 Tetrachloro-m-xylene	244	12.012	12.014	(0.350)	1045	0.01000	0.0129
3 Cl2	222	13.512	13.502	(0.393)	4911	0.01000	0.0117
5 Cl3	256	17.106	17.088	(0.498)	4200	0.01000	0.0114
6 Cl4	292	17.541	17.531	(0.511)	7402	0.02000	0.0249
7 RTstd-BZ-104	326	20.136	20.120	(0.586)	10155	0.02000	0.0230
8 Cl5	326	26.004	25.998	(0.757)	6850	0.02000	0.0223
9 Cl6	360	26.303	26.296	(0.766)	6963	0.02000	0.0218
10 RTstd-BZ-77	292	27.301	27.306	(0.795)	9272	0.02000	0.0224
11 Cl7	394	28.385	28.383	(0.826)	12987	0.03000	0.0341(a)
12 Cl8	430	33.498	33.495	(0.975)	12953	0.03000	0.0331(a)
14 RTstd-BZ-208	464	37.974	37.956	(1.105)	16914	0.04000	0.0441(a)
15 Cl10	498	42.745	42.728	(1.244)	22507	0.05000	0.0546(a)
$ 16 Decachloro-13C12-Biphenyl	510	42.720	42.715	(1.244)	24341	0.05000	0.0586(a)

QC Flag Legend

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

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081608.d

Date : 16-AUG-2011 15:50

Client ID: iCAL-2

Instrument: GCMS03.i

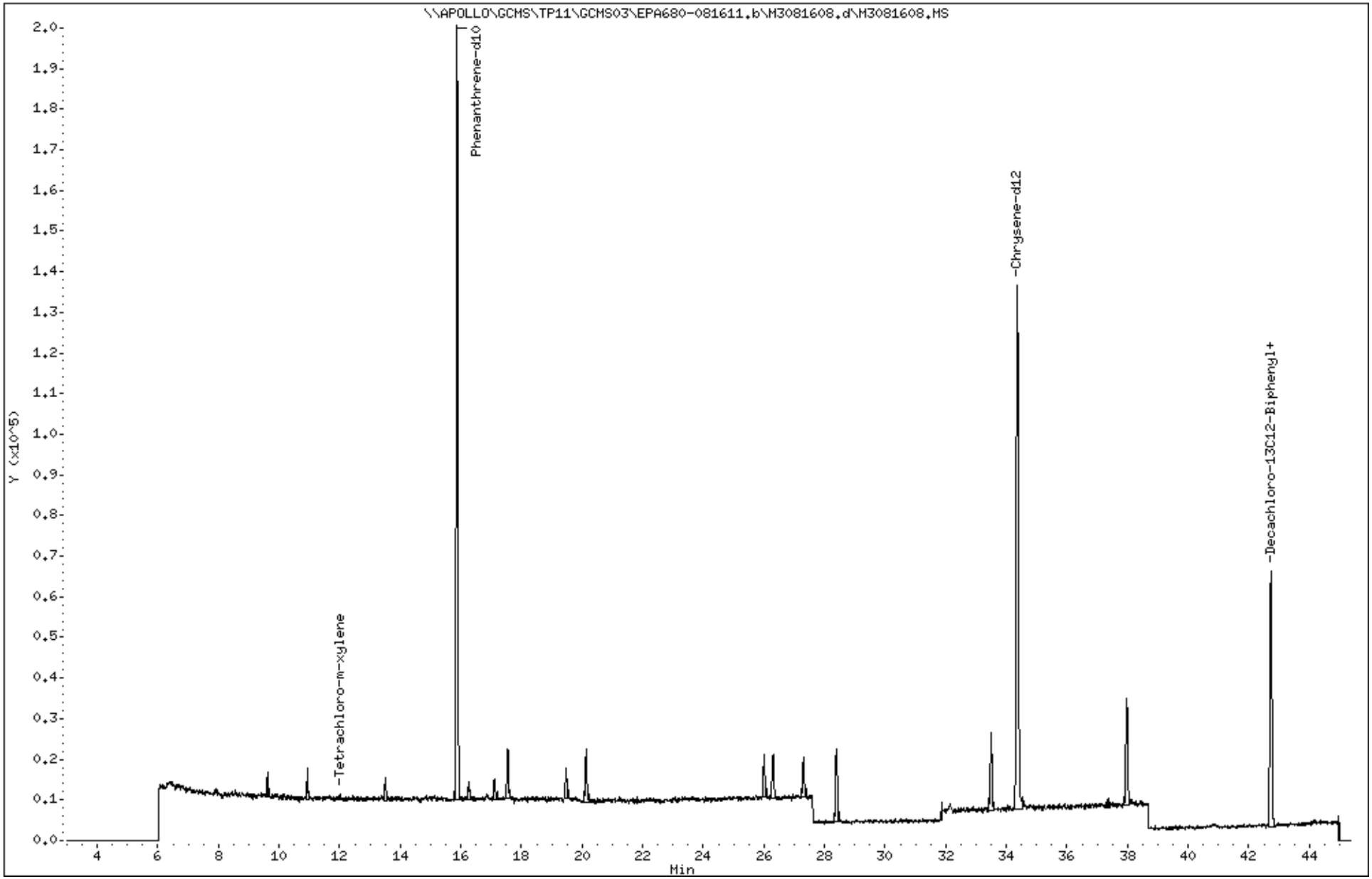
Sample Info: iCAL-2

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Monochlorobiphenyls							
"M3081608"		"M3081608"		"M3081608"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.611	5288	9.610	1847				
15.871	313673	15.865	5035				
16.242	3497						
17.105	1034						

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12010053.PDF
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Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081608"		"M3081608"		"M3081608"						"M3081608"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.510	5220	13.510	3162							9.611	5288
17.552	3352									15.871	313673
27.305	2586									16.242	3497
										17.105	1034

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081608"		"M3081608"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.106	4209	17.105	4188		
20.134	3479	20.125	1252		
26.008	3460	26.006	1119		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081608"		"M3081608"				"M3081608"		"M3081608"		"M3081608"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.106	4209	17.105	4188			9.611	5288	20.131	6317	20.131	10274
20.134	3479	20.125	1252			15.871	313673	26.008	4251	26.006	7144
26.008	3460	26.006	1119			16.242	3497	28.379	2236	28.395	3696
						17.105	1034	28.395	2861		
								37.971	1923		

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081608"		"M3081608"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.543	5389	17.547	7562				
				26.304	3685	26.286	1535				
				27.302	7477	27.306	9737				

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081608"		"M3081608"			"M3081608"		"M3081608"		"M3081608"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.547	7562	17.543	5389		13.510	5220	26.301	7086	26.298	6066	
26.286	1535	26.304	3685		17.552	3352	33.507	3825	33.492	1717	
27.306	9737	27.302	7477		27.305	2586					

Extracted Ion Current Profiles

Tetrachlorobiphenyls						
	"M3081608"		"M3081608"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.131	6317	20.131	10274		
	26.008	4251	26.006	7144		
	28.379	2236	28.395	3696		
	28.395	2861				
	37.971	1923				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081608"		"M3081608"			"M3081608"		"M3081608"		"M3081608"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.131	10274	20.131	6317		17.106	4209	17.105	4188	
26.006	7144	26.008	4251		20.134	3479	20.125	1252	
28.395	3696	28.379	2236		26.008	3460	26.006	1119	
		28.395	2861						
		37.971	1923						

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081608"		"M3081608"					"M3081608"		"M3081608"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.391	13016	28.395	12726				26.301	7086	26.298	6066	
37.973	4029	37.971	1847				33.507	3825	33.492	1717	

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081608"		"M3081608"			"M3081608"			"M3081608"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.301	7086	26.298	6066		17.543	5389		33.492	11930
33.507	3825	33.492	1717		26.304	3685		42.735	7565
					27.302	7477			

Extracted Ion Current Profiles

Hexachlorobiphenyls															
"M3081608"								"M3081608"		"M3081608"					
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
33.500	13793							28.391	13016	28.395	12726				
40.070	1005							37.973	4029	37.971	1847				
42.174	1005														
42.738	7055														

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081608"		"M3081608"			"M3081608"		"M3081608"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.391	13016	28.395	12726		20.131	6317	20.131	10274	
37.973	4029	37.971	1847		26.008	4251	26.006	7144	
					28.379	2236	28.395	3696	
					28.395	2861			
					37.971	1923			

Extracted Ion Current Profiles

Heptachlorobiphenyls												
"M3081608"		"M3081608"			"M3081608"		"M3081608"					
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432		m/z 391	
37.974	16787	37.967	12730		33.492	11930	33.500	13793				
					42.735	7565	40.070	1005				
							42.174	1005				
							42.738	7055				

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081608"		"M3081608"				"M3081608"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.500	13793	33.492	11930				26.301	7086	
40.070	1005	42.735	7565				33.507	3825	
42.174	1005								
42.738	7055								

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081608"		"M3081608"		
m/z 464		m/z 466		m/z 425
37.974	16787	37.967	12730	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081608"		"M3081608"				"M3081608"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.974	16787	37.967	12730			28.391	13016
						37.973	4029

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081608"		"M3081608"				"M3081608"		"M3081608"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.741	22947	42.736	20076			33.492	11930	33.500	13793
						42.735	7565	40.070	1005
								42.174	1005
								42.738	7055

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081608"		"M3081608"				"M3081608"		"M3081608"			"M3081608"		"M3081608"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
12.017	1039	6.095	144	424	240	34.357	328659	34.363	63470	188	9.611	5288	9.614	1215
13.660	122	7.005	102	426	241					189	15.871	313673	15.872	50313
31.230	261	7.436	172	428							16.242	3497		
31.273	164	7.476	107	430							17.105	1034		
32.139	3622	7.831	128	498										
32.302	121	8.191	104	500										
32.489	123	8.406	128											
34.503	118	8.835	133											
34.642	136	8.947	113											
35.695	107	9.724	104											
		9.808	213											
		9.926	107											
		10.036	126											
		10.190	104											
		10.724	146											
		11.076	108											
		11.410	130											
		11.732	119											
		12.023	876(M)											
		12.093	118											
		12.225	129											
		12.333	102											
		12.593	106											
		13.499	101											
		13.670	144											
		14.214	145											
		14.455	117											
		14.542	110											
		15.509	132											
		16.685	163											
		17.730	108											
		18.092	115											
		29.802	101											
		30.698	124											
		31.253	306											
		31.294	142											
		31.960	102											
		32.126	123											
		32.162	179											
		32.265	169											
		32.345	124											

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.718	24770	42.724	20097
512				

5204(M)

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081607.d
Lab Smp Id: iCAL-3 Client Smp ID: iCAL-3
Inj Date : 16-AUG-2011 15:01
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-3
Misc Info : RS M3081607
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 15:01 Cal File: M3081607.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.864	15.861	(1.000)	279206	0.80000	
* 13 Chrysene-d12	240	34.359	34.341	(1.000)	279020	0.80000	
1 Cl1	188	9.597	9.609	(0.279)	196363	0.50000	0.545
$ 2 Tetrachloro-m-xylene	244	12.018	12.014	(0.350)	35688	0.50000	0.541
3 Cl2	222	13.506	13.502	(0.393)	188617	0.50000	0.541
5 Cl3	256	17.107	17.088	(0.498)	169397	0.50000	0.548
6 Cl4	292	17.541	17.531	(0.511)	264377	1.00000	1.08
7 RTstd-BZ-104	326	20.132	20.120	(0.586)	396561	1.00000	1.07
8 Cl5	326	26.010	25.998	(0.757)	270325	1.00000	1.05
9 Cl6	360	26.294	26.296	(0.765)	289269	1.00000	1.07
10 RTstd-BZ-77	292	27.305	27.306	(0.795)	368083	1.00000	1.06
11 Cl7	394	28.397	28.383	(0.826)	518147	1.50000	1.63
12 Cl8	430	33.498	33.495	(0.975)	514677	1.50000	1.56
14 RTstd-BZ-208	464	37.965	37.956	(1.105)	683535	2.00000	2.11
15 Cl10	498	42.743	42.728	(1.244)	920151	2.50000	2.64
$ 16 Decachloro-13C12-Biphenyl	510	42.719	42.715	(1.243)	918164	2.50000	2.68

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081607.d

Date : 16-AUG-2011 15:01

Client ID: iCAL-3

Instrument: GCMS03.i

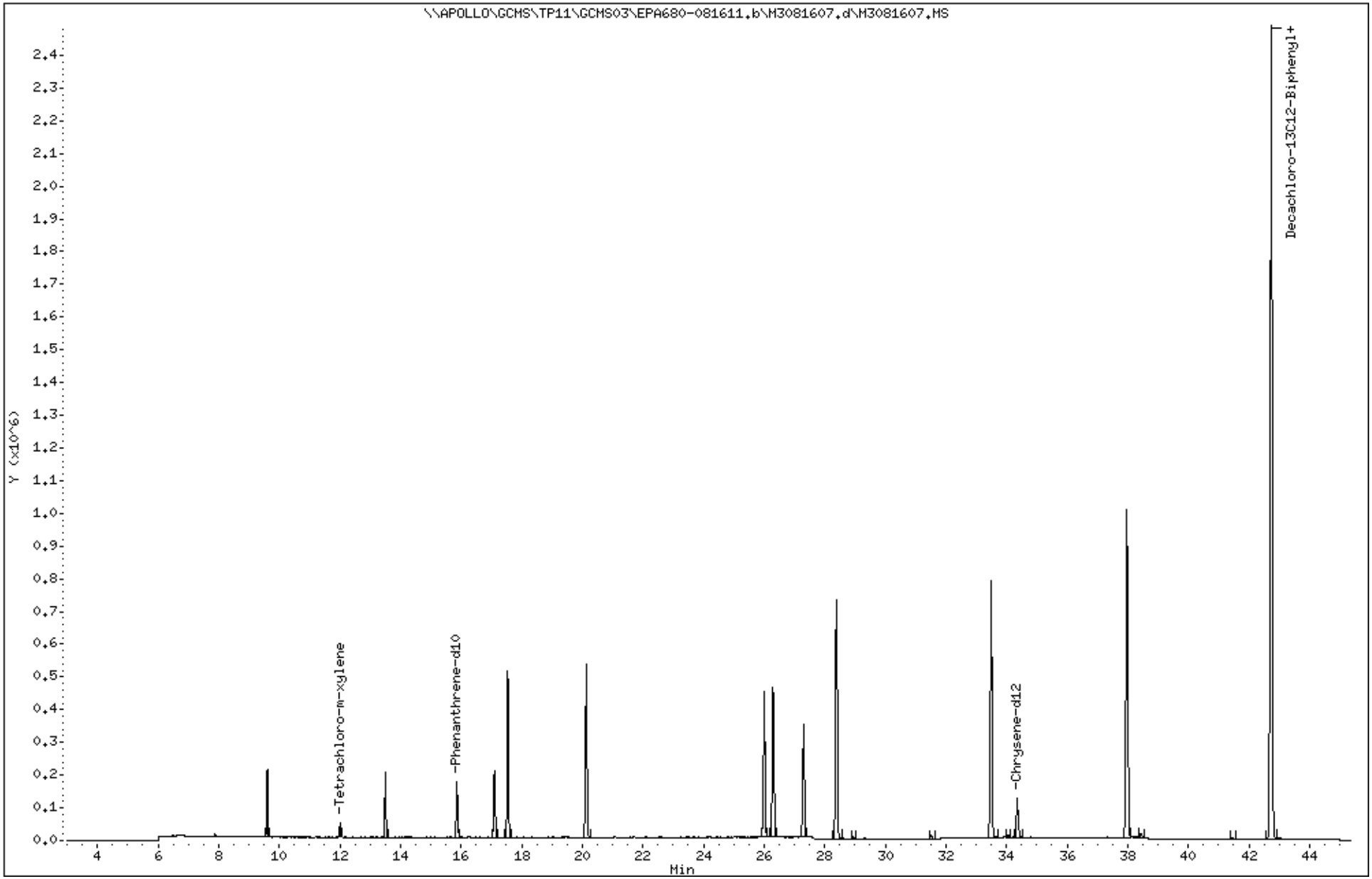
Sample Info: iCAL-3

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3081607"		"M3081607"		"M3081607"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.605	199077	9.606	67754				
13.509	7414	15.867	4374				
15.867	281493						
17.102	28956						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081607"		"M3081607"		"M3081607"						"M3081607"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.508	192166	13.507	125793							9.605	199077
17.100	6317	17.546	20872							13.509	7414
17.547	116893	27.310	15203							15.867	281493
26.002	4393									17.102	28956
26.294	4776										
27.313	85959										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081607"		"M3081607"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.105	169265	17.105	164227		
17.534	12019	17.541	24072		
17.555	13616	20.132	44822		
20.131	136077	21.065	4587		
21.064	4634	26.002	43467		
26.004	128638				
26.305	4205				
27.314	7782				
28.389	13570				
28.404	9079				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081607"		"M3081607"				"M3081607"		"M3081607"		"M3081607"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.105	169265	17.105	164227			9.605	199077	20.131	249481	20.132	399857
17.534	12019	17.541	24072			13.509	7414	26.005	166748	26.005	272489
17.555	13616	20.132	44822			15.867	281493	26.284	5345	26.283	7274
20.131	136077	21.065	4587			17.102	28956	26.307	4748	26.307	7186
21.064	4634	26.002	43467					28.395	190402	28.391	130581
26.004	128638							33.497	9917	37.968	22753
26.305	4205							37.971	65873		
27.314	7782										
28.389	13570										
28.404	9079										

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081607"		"M3081607"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.546	214512	17.545	268974				
				20.130	9930	20.134	10603				
				26.006	19623	26.005	22040				
				26.298	137323	26.299	68556				
				27.304	280790	27.307	367175				
				28.397	7814	33.492	5012				
				33.489	36082	33.514	5387				

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081607"		"M3081607"			"M3081607"		"M3081607"		"M3081607"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.545	268974	17.546	214512		13.508	192166	26.296	287578	26.297	230499	
20.134	10603	20.130	9930		17.100	6317	28.402	4271	28.392	5115	
26.005	22040	26.006	19623		17.547	116893	33.499	154678	33.501	65050	
26.299	68556	26.298	137323		26.002	4393	37.974	5668	42.719	5411	
27.307	367175	27.304	280790		26.294	4776	42.736	24424	42.745	8129	
33.492	5012	28.397	7814		27.313	85959	42.756	26281			
33.514	5387	33.489	36082								

Extracted Ion Current Profiles

Tetrachlorobiphenyls								
	"M3081607"		"M3081607"					
m/z 288	m/z 324		m/z 326		m/z 328		m/z 289	
	20.131	249481	20.132	399857				
	26.005	166748	26.005	272489				
	26.284	5345	26.283	7274				
	26.307	4748	26.307	7186				
	28.395	190402	28.391	130581				
	33.497	9917	37.968	22753				
	37.971	65873						

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081607"		"M3081607"			"M3081607"		"M3081607"		"M3081607"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.132	399857	20.131	249481		17.105	169265	17.105	164227	
26.005	272489	26.005	166748		17.534	12019	17.541	24072	
26.283	7274	26.284	5345		17.555	13616	20.132	44822	
26.307	7186	26.307	4748		20.131	136077	21.065	4587	
28.391	130581	28.395	190402		21.064	4634	26.002	43467	
37.968	22753	33.497	9917		26.004	128638			
		37.971	65873		26.305	4205			
					27.314	7782			
					28.389	13570			
					28.404	9079			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081607"		"M3081607"					"M3081607"		"M3081607"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.392	509637	28.392	490808				26.296	287578	26.297	230499	
31.525	6255	31.524	5628				28.402	4271	28.392	5115	
37.968	204726	33.498	7365				33.499	154678	33.501	65050	
42.721	4360	37.971	112334				37.974	5668	42.719	5411	
							42.736	24424	42.745	8129	
							42.756	26281			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081607"		"M3081607"			"M3081607"			"M3081607"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.296	287578	26.297	230499		17.546	214512		33.498	465127
28.402	4271	28.392	5115		20.130	9930		37.968	7069
33.499	154678	33.501	65050		26.006	19623		42.738	300337
37.974	5668	42.719	5411		26.298	137323			
42.736	24424	42.745	8129		27.304	280790			
42.756	26281				28.397	7814			
					33.489	36082			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081607"								"M3081607"		"M3081607"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.498	519745							28.392	509637	28.392	490808		
42.719	52295							31.525	6255	31.524	5628		
42.753	120649							37.968	204726	33.498	7365		
								42.721	4360	37.971	112334		

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081607"		"M3081607"			"M3081607"		"M3081607"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.392	509637	28.392	490808		20.131	249481	20.132	399857	
31.525	6255	31.524	5628		26.005	166748	26.005	272489	
37.968	204726	33.498	7365		26.284	5345	26.283	7274	
42.721	4360	37.971	112334		26.307	4748	26.307	7186	
					28.395	190402	28.391	130581	
					33.497	9917	37.968	22753	
					37.971	65873			

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081607"		"M3081607"			"M3081607"		"M3081607"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.970	685053	37.971	494844		33.498	465127	33.498	519745			
38.445	5820	38.447	4794		37.968	7069	42.719	52295			
42.759	15113				42.738	300337	42.753	120649			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081607"		"M3081607"				"M3081607"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.498	519745	33.498	465127				26.296	287578	
42.719	52295	37.968	7069				28.402	4271	
42.753	120649	42.738	300337				33.499	154678	
							37.974	5668	
							42.736	24424	
							42.756	26281	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081607"		"M3081607"		
m/z 464		m/z 466		m/z 425
37.970	685053	37.971	494844	
38.445	5820	38.447	4794	
42.759	15113			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081607"		"M3081607"				"M3081607"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.970	685053	37.971	494844			28.392	509637
38.445	5820	38.447	4794			31.525	6255
42.759	15113					37.968	204726
						42.721	4360

Extracted Ion Current Profiles

Decachlorobiphenyl											
"M3081607"		"M3081607"						"M3081607"		"M3081607"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.747	924415	42.743	800955					33.498	465127	33.498	519745
								37.968	7069	42.719	52295
								42.738	300337	42.753	120649

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081607"		"M3081607"				"M3081607"		"M3081607"			"M3081607"		"M3081607"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
12.014	35964	12.015	28494	424	240	34.358	285668	34.353	60439	188	9.605	199077	9.605	29209
		34.356	6013	426	241					189	13.509	7414	13.507	6397
				428							15.867	281493	15.869	46295
				430							17.102	28956	17.110	4595
				498										
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.725	920375	42.729	799856
512				

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081606.d
Lab Smp Id: iCAL-4 Client Smp ID: iCAL-4
Inj Date : 16-AUG-2011 14:11
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-4
Misc Info : RS M3081606
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 14:11 Cal File: M3081606.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.868	15.861	(1.000)	254255	0.80000	
* 13 Chrysene-d12	240	34.355	34.341	(1.000)	261470	0.80000	
1 Cl1	188	9.600	9.609	(0.279)	348132	1.00000	1.05
$ 2 Tetrachloro-m-xylene	244	12.016	12.014	(0.350)	63751	1.00000	1.05
3 Cl2	222	13.497	13.502	(0.393)	339463	1.00000	1.06
5 Cl3	256	17.095	17.088	(0.498)	300592	1.00000	1.06
6 Cl4	292	17.543	17.531	(0.511)	472316	2.00000	2.11
7 RTstd-BZ-104	326	20.133	20.120	(0.586)	707820	2.00000	2.08
8 Cl5	326	26.004	25.998	(0.757)	498730	2.00000	2.09
9 Cl6	360	26.301	26.296	(0.766)	528384	2.00000	2.13
10 RTstd-BZ-77	292	27.306	27.306	(0.795)	658523	2.00000	2.05
11 Cl7	394	28.388	28.383	(0.826)	907113	3.00000	3.10
12 Cl8	430	33.497	33.495	(0.975)	966917	3.00000	3.15
14 RTstd-BZ-208	464	37.981	37.956	(1.106)	1206464	4.00000	4.04
15 Cl10	498	42.753	42.728	(1.244)	1702128	5.00000	5.29
$ 16 Decachloro-13C12-Biphenyl	510	42.729	42.715	(1.244)	1691205	5.00000	5.40

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081606.d

Date : 16-AUG-2011 14:11

Client ID: iCAL-4

Instrument: GCMS03.i

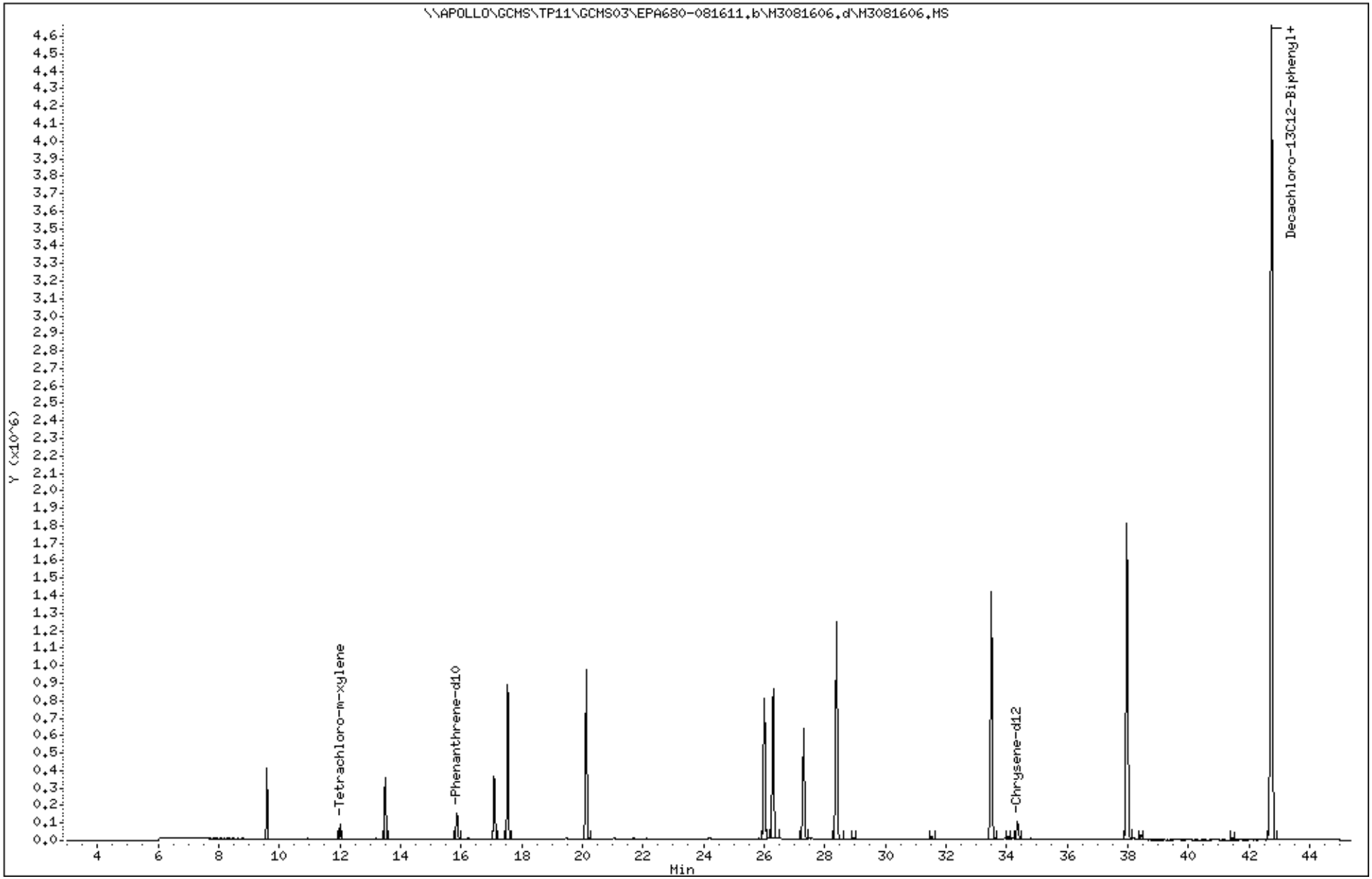
Sample Info: iCAL-4

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3081606"		"M3081606"		"M3081606"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.598	351107	9.598	115123				
13.502	10832	15.874	4704				
15.865	258734						
17.104	51708						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081606"		"M3081606"		"M3081606"						"M3081606"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.504	340718	13.503	226598							9.598	351107
17.103	11272	17.551	37513							13.502	10832
17.549	194739	27.308	29782							15.865	258734
20.132	8559									17.104	51708
26.017	8679										
26.300	9402										
27.309	160377										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081606"		"M3081606"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.102	300976	17.100	297508		
17.540	46955	17.535	38739		
20.136	241747	20.130	78217		
21.063	8287	21.064	8026		
21.703	6063	21.701	5580		
26.007	234434	26.008	79888		
26.299	12622	27.306	4647		
27.302	6778				
27.321	5499				
28.388	33671				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081606"		"M3081606"				"M3081606"		"M3081606"		"M3081606"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.102	300976	17.100	297508			9.598	351107	20.131	440211	20.130	713515
17.540	46955	17.535	38739			13.502	10832	26.009	307260	26.006	495370
20.136	241747	20.130	78217			15.865	258734	26.299	20905	26.296	28794
21.063	8287	21.064	8026			17.104	51708	28.392	349855	28.392	223987
21.703	6063	21.701	5580					31.521	5504	37.981	41554
26.007	234434	26.008	79888					33.497	11167		
26.299	12622	27.306	4647					33.522	6520		
27.302	6778							34.058	4172		
27.321	5499							37.969	70959		
28.388	33671							37.994	51855		

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081606"		"M3081606"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.545	371005	17.546	479539				
				20.123	10026	20.136	14523				
				20.146	8487	24.204	6045				
				24.203	4030	26.001	39734				
				26.003	34254	26.301	122767				
				26.302	245930	27.307	663484				
				27.307	503353	28.384	6950				
				28.388	11869	33.505	16885				
				28.414	6192						
				33.473	17017						
				33.502	42374						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081606"		"M3081606"			"M3081606"		"M3081606"		"M3081606"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.546	479539	17.545	371005		13.504	340718	26.301	525879	26.299	418751	
20.136	14523	20.123	10026		17.103	11272	28.368	5183	28.379	6442	
24.204	6045	20.146	8487		17.549	194739	28.394	9897	28.940	5786	
26.001	39734	24.203	4030		20.132	8559	28.946	7030	33.498	117911	
26.301	122767	26.003	34254		26.017	8679	33.504	276125	42.727	10405	
27.307	663484	26.302	245930		26.300	9402	37.966	6298	42.766	17440	
28.384	6950	27.307	503353		27.309	160377	42.739	49006			
33.505	16885	28.388	11869				42.764	20775			
		28.414	6192				42.792	9207			
		33.473	17017								
		33.502	42374								

Extracted Ion Current Profiles

Tetrachlorobiphenyls						
	"M3081606"		"M3081606"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.131	440211	20.130	713515		
	26.009	307260	26.006	495370		
	26.299	20905	26.296	28794		
	28.392	349855	28.392	223987		
	31.521	5504	37.981	41554		
	33.497	11167				
	33.522	6520				
	34.058	4172				
	37.969	70959				
	37.994	51855				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081606"		"M3081606"			"M3081606"		"M3081606"		"M3081606"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.130	713515	20.131	440211		17.102	300976	17.100	297508	
26.006	495370	26.009	307260		17.540	46955	17.535	38739	
26.296	28794	26.299	20905		20.136	241747	20.130	78217	
28.392	223987	28.392	349855		21.063	8287	21.064	8026	
37.981	41554	31.521	5504		21.703	6063	21.701	5580	
		33.497	11167		26.007	234434	26.008	79888	
		33.522	6520		26.299	12622	27.306	4647	
		34.058	4172		27.302	6778			
		37.969	70959		27.321	5499			
		37.994	51855		28.388	33671			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081606"		"M3081606"					"M3081606"		"M3081606"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.392	900719	28.392	876246				26.301	525879	26.299	418751	
31.529	10979	31.519	10885				28.368	5183	28.379	6442	
33.509	13466	33.488	5481				28.394	9897	28.940	5786	
37.971	369334	33.511	7863				28.946	7030	33.498	117911	
42.727	6323	37.964	101330				33.504	276125	42.727	10405	
		37.998	75297				37.966	6298	42.766	17440	
							42.739	49006			
							42.764	20775			
							42.792	9207			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081606"		"M3081606"			"M3081606"			"M3081606"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.301	525879	26.299	418751		17.545	371005		33.500	845989
28.368	5183	28.379	6442		20.123	10026		33.948	5604
28.394	9897	28.940	5786		20.146	8487		34.800	4089
28.946	7030	33.498	117911		24.203	4030		37.987	6412
33.504	276125	42.727	10405		26.003	34254		42.704	45944
37.966	6298	42.766	17440		26.302	245930		42.754	346013
42.739	49006				27.307	503353		42.810	14827
42.764	20775				28.388	11869			
42.792	9207				28.414	6192			
					33.473	17017			
					33.502	42374			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081606"								"M3081606"		"M3081606"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.503	963568							28.392	900719	28.392	876246		
33.943	6329							31.529	10979	31.519	10885		
34.809	5222							33.509	13466	33.488	5481		
37.957	5666							37.971	369334	33.511	7863		
37.989	4707							42.727	6323	37.964	101330		
42.759	344687									37.998	75297		

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081606"		"M3081606"			"M3081606"		"M3081606"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.392	900719	28.392	876246		20.131	440211	20.130	713515	
31.529	10979	31.519	10885		26.009	307260	26.006	495370	
33.509	13466	33.488	5481		26.299	20905	26.296	28794	
37.971	369334	33.511	7863		28.392	349855	28.392	223987	
42.727	6323	37.964	101330		31.521	5504	37.981	41554	
		37.998	75297		33.497	11167			
					33.522	6520			
					34.058	4172			
					37.969	70959			
					37.994	51855			

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081606"		"M3081606"			"M3081606"		"M3081606"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.975	1217076	37.971	950472		33.500	845989	33.503	963568			
38.451	10565	38.446	7966		33.948	5604	33.943	6329			
42.753	47868	42.728	6343		34.800	4089	34.809	5222			
		42.754	5466		37.987	6412	37.957	5666			
					42.704	45944	37.989	4707			
					42.754	346013	42.759	344687			
					42.810	14827					

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081606"		"M3081606"				"M3081606"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.503	963568	33.500	845989				26.301	525879	
33.943	6329	33.948	5604				28.368	5183	
34.809	5222	34.800	4089				28.394	9897	
37.957	5666	37.987	6412				28.946	7030	
37.989	4707	42.704	45944				33.504	276125	
42.759	344687	42.754	346013				37.966	6298	
		42.810	14827				42.739	49006	
							42.764	20775	
							42.792	9207	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081606"		"M3081606"		
m/z 464		m/z 466		m/z 425
37.975	1217076	37.971	950472	
38.451	10565	38.446	7966	
42.753	47868	42.728	6343	
		42.754	5466	

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081606"		"M3081606"				"M3081606"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.975	1217076	37.971	950472			28.392	900719
38.451	10565	38.446	7966			31.529	10979
42.753	47868	42.728	6343			33.509	13466
		42.754	5466			37.971	369334
						42.727	6323

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081606"		"M3081606"				"M3081606"		"M3081606"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.750	1705809	42.750	1486688			33.500	845989	33.503	963568
						33.948	5604	33.943	6329
						34.800	4089	34.809	5222
						37.987	6412	37.957	5666
						42.704	45944	37.989	4707
						42.754	346013	42.759	344687
						42.810	14827		

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3081606"		"M3081606"				"M3081606"		"M3081606"			"M3081606"		"M3081606"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
12.010	62657	12.012	50005	424	240	34.359	268579	33.488	8803	188	9.598	351107	9.597	53909
				426	241			34.355	53138	189	13.502	10832	13.502	11440
				428							15.865	258734	15.860	40975
				430							17.104	51708	17.110	8081
				498										
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.735	1699624	42.733	1469928
512				

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081605.d
Lab Smp Id: iCAL-5 Client Smp ID: iCAL-5
Inj Date : 16-AUG-2011 13:22
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-5
Misc Info : RS M3081605
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 13:22 Cal File: M3081605.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.860	15.861	(1.000)	236832	0.80000	
* 13 Chrysene-d12	240	34.351	34.341	(1.000)	243665	0.80000	
1 Cl1	188	9.594	9.609	(0.279)	622305	2.00000	2.06
$ 2 Tetrachloro-m-xylene	244	12.009	12.014	(0.350)	120239	2.00000	2.17
3 Cl2	222	13.490	13.502	(0.393)	609149	2.00000	2.08
5 Cl3	256	17.104	17.088	(0.498)	545215	2.00000	2.11
6 Cl4	292	17.549	17.531	(0.511)	853210	4.00000	4.17
7 RTstd-BZ-104	326	20.125	20.120	(0.586)	1326625	4.00000	4.24
8 Cl5	326	26.009	25.998	(0.757)	918823	4.00000	4.19
9 Cl6	360	26.295	26.296	(0.765)	945639	4.00000	4.17
10 RTstd-BZ-77	292	27.310	27.306	(0.795)	1216472	4.00000	4.11
11 Cl7	394	28.392	28.383	(0.827)	1645920	6.00000	6.10
12 Cl8	430	33.503	33.495	(0.975)	1748120	6.00000	6.22
14 RTstd-BZ-208	464	37.988	37.956	(1.106)	2254226	8.00000	8.12
15 Cl10	498	42.769	42.728	(1.245)	3132411	10.0000	10.6
$ 16 Decachloro-13C12-Biphenyl	510	42.744	42.715	(1.244)	2925157	10.0000	10.5

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081605.d

Date : 16-AUG-2011 13:22

Client ID: iCAL-5

Instrument: GCMS03.i

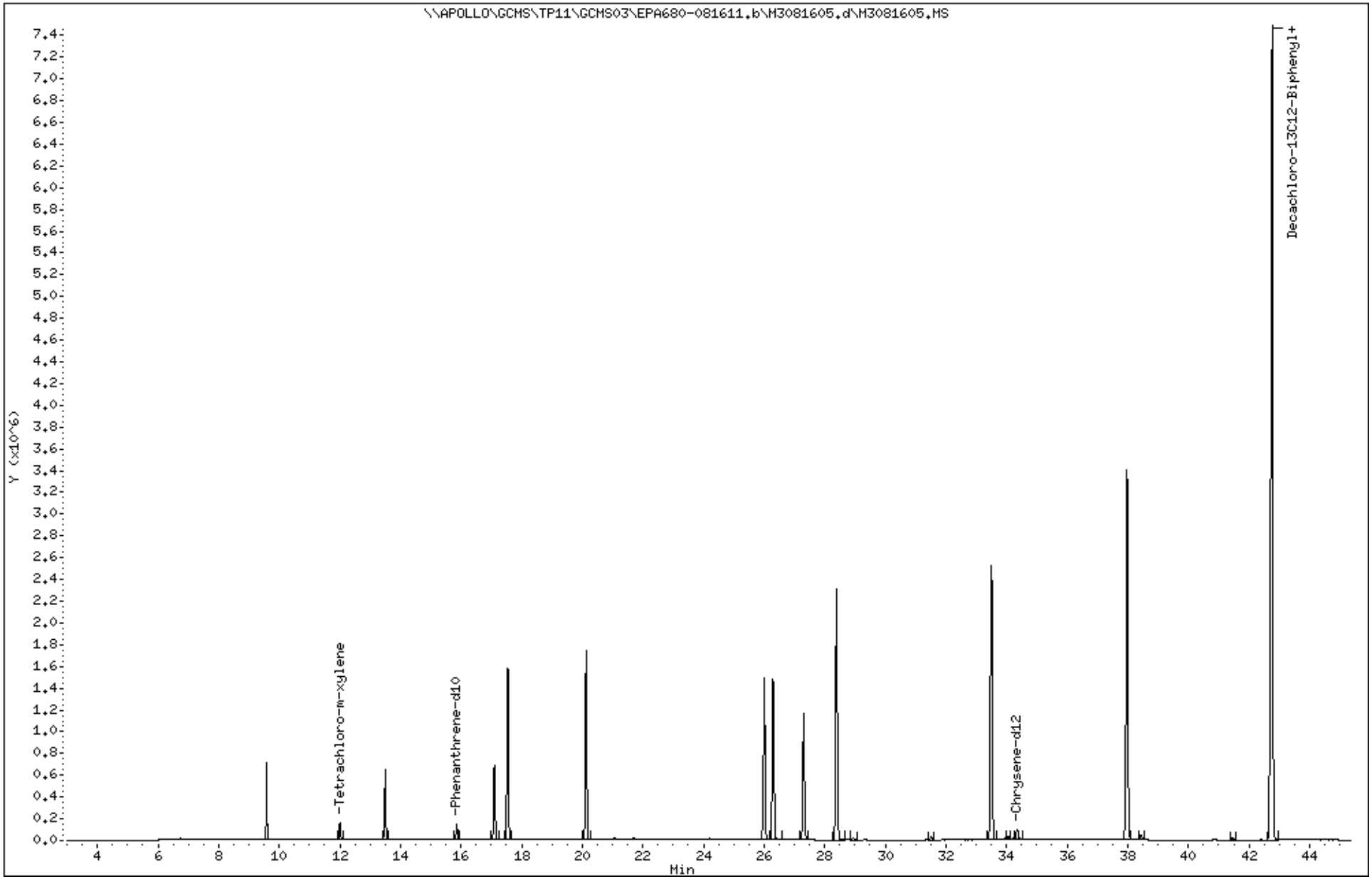
Sample Info: iCAL-5

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Monochlorobiphenyls							
"M3081605"		"M3081605"		"M3081605"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.591	634760	9.591	215177				
13.505	21815						
15.862	239118						
17.103	97759						
27.318	4118						

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12010053.PDF
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Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081605"		"M3081605"		"M3081605"						"M3081605"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.205	4711	13.500	404081							9.591	634760
13.499	623697	17.101	5540							13.505	21815
17.100	19418	17.546	67158							15.862	239118
17.545	372661	27.310	50306							17.103	97759
20.125	14199									27.318	4118
26.001	9786										
26.020	4814										
26.306	16767										
27.309	297321										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081605"		"M3081605"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.100	552988	17.100	533258		
17.551	85561	17.545	74405		
20.129	434130	20.127	145708		
21.059	15186	21.056	15016		
21.695	10764	21.700	10451		
26.008	432839	26.003	142536		
26.294	20424	27.312	6395		
27.297	23958	28.401	4563		
28.388	63511				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081605"		"M3081605"				"M3081605"		"M3081605"		"M3081605"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.100	552988	17.100	533258			9.591	634760	20.129	802386	20.131	1328828
17.551	85561	17.545	74405			13.505	21815	26.009	558484	26.010	919717
20.129	434130	20.127	145708			15.862	239118	26.303	31555	26.304	46921
21.059	15186	21.056	15016			17.103	97759	28.393	605207	28.397	410043
21.695	10764	21.700	10451			27.318	4118	31.518	10635	31.526	6905
26.008	432839	26.003	142536					33.506	28653	33.519	6224
26.294	20424	27.312	6395					34.050	6816	34.049	4768
27.297	23958	28.401	4563					37.986	229763	37.977	52990
28.388	63511									38.001	31220

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081605"		"M3081605"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.542	670443	17.544	876845				
				20.128	36525	20.121	34735				
				24.205	7880	24.205	10336				
				25.999	59704	26.009	72654				
				26.301	457673	26.296	223115				
				27.311	925586	27.312	1226763				
				27.628	5231	27.497	4268				
				28.370	9749	28.377	4755				
				28.396	16987	33.506	28905				
				28.430	4405						
				28.947	6733						
				33.502	117515						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081605"		"M3081605"			"M3081605"		"M3081605"		"M3081605"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.544	876845	17.542	670443		13.205	4711	26.300	942988	26.300	747014	
20.121	34735	20.128	36525		13.499	623697	27.622	4902	28.369	7260	
24.205	10336	24.205	7880		17.100	19418	28.403	27615	28.401	11365	
26.009	72654	25.999	59704		17.545	372661	28.935	12887	28.936	10217	
26.296	223115	26.301	457673		20.125	14199	29.329	4021	33.510	223995	
27.312	1226763	27.311	925586		26.001	9786	33.500	486832	37.955	4345	
27.497	4268	27.628	5231		26.020	4814	37.954	6395	37.989	8126	
28.377	4755	28.370	9749		26.306	16767	37.976	10644	42.773	44382	
33.506	28905	28.396	16987		27.309	297321	42.750	57484			
		28.430	4405				42.769	102558			
		28.947	6733								
		33.502	117515								

Extracted Ion Current Profiles

Tetrachlorobiphenyls						
	"M3081605"		"M3081605"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.129	802386	20.131	1328828		
	26.009	558484	26.010	919717		
	26.303	31555	26.304	46921		
	28.393	605207	28.397	410043		
	31.518	10635	31.526	6905		
	33.506	28653	33.519	6224		
	34.050	6816	34.049	4768		
	37.986	229763	37.977	52990		
			38.001	31220		

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081605"		"M3081605"			"M3081605"		"M3081605"		"M3081605"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.131	1328828	20.129	802386		17.100	552988	17.100	533258	
26.010	919717	26.009	558484		17.551	85561	17.545	74405	
26.304	46921	26.303	31555		20.129	434130	20.127	145708	
28.397	410043	28.393	605207		21.059	15186	21.056	15016	
31.526	6905	31.518	10635		21.695	10764	21.700	10451	
33.519	6224	33.506	28653		26.008	432839	26.003	142536	
34.049	4768	34.050	6816		26.294	20424	27.312	6395	
37.977	52990	37.986	229763		27.297	23958	28.401	4563	
38.001	31220				28.388	63511			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081605"		"M3081605"					"M3081605"		"M3081605"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.396	1646432	28.394	1590779				26.300	942988	26.300	747014	
31.515	19609	28.611	5069				27.622	4902	28.369	7260	
33.468	5121	31.514	19568				28.403	27615	28.401	11365	
33.492	17128	33.505	21907				28.935	12887	28.936	10217	
37.984	678206	37.988	325685				29.329	4021	33.510	223995	
38.453	5536	38.026	26033				33.500	486832	37.955	4345	
41.454	5419	42.772	12330				37.954	6395	37.989	8126	
42.734	16633						37.976	10644	42.773	44382	
42.759	13829						42.750	57484			
							42.769	102558			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081605"		"M3081605"			"M3081605"			"M3081605"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.300	942988	26.300	747014		17.542	670443		33.501	1535506
27.622	4902	28.369	7260		20.128	36525		33.935	5224
28.403	27615	28.401	11365		24.205	7880		34.797	5290
28.935	12887	28.936	10217		25.999	59704		37.978	16051
29.329	4021	33.510	223995		26.301	457673		42.687	14283
33.500	486832	37.955	4345		27.311	925586		42.730	184643
37.954	6395	37.989	8126		27.628	5231		42.765	394864
37.976	10644	42.773	44382		28.370	9749		42.806	50262
42.750	57484				28.396	16987			
42.769	102558				28.430	4405			
					28.947	6733			
					33.502	117515			

Extracted Ion Current Profiles

Hexachlorobiphenyls											
"M3081605"						"M3081605"		"M3081605"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
33.503	1751280							28.396	1646432	28.394	1590779				
33.615	5464							31.515	19609	28.611	5069				
33.942	11538							33.468	5121	31.514	19568				
34.798	8348							33.492	17128	33.505	21907				
37.950	10012							37.984	678206	37.988	325685				
37.996	8804							38.453	5536	38.026	26033				
42.711	38650							41.454	5419	42.772	12330				
42.772	515763							42.734	16633						
								42.759	13829						

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081605"		"M3081605"			"M3081605"		"M3081605"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.396	1646432	28.394	1590779		20.129	802386	20.131	1328828	
31.515	19609	28.611	5069		26.009	558484	26.010	919717	
33.468	5121	31.514	19568		26.303	31555	26.304	46921	
33.492	17128	33.505	21907		28.393	605207	28.397	410043	
37.984	678206	37.988	325685		31.518	10635	31.526	6905	
38.453	5536	38.026	26033		33.506	28653	33.519	6224	
41.454	5419	42.772	12330		34.050	6816	34.049	4768	
42.734	16633				37.986	229763	37.977	52990	
42.759	13829						38.001	31220	

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081605"		"M3081605"			"M3081605"		"M3081605"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.983	2254384	37.983	1696473		33.501	1535506	33.503	1751280			
38.434	9279	38.452	14938		33.935	5224	33.615	5464			
38.452	12278	42.757	6166		34.797	5290	33.942	11538			
42.707	7103	42.782	4463		37.978	16051	34.798	8348			
42.762	64278				42.687	14283	37.950	10012			
					42.730	184643	37.996	8804			
					42.765	394864	42.711	38650			
					42.806	50262	42.772	515763			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081605"		"M3081605"				"M3081605"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.503	1751280	33.501	1535506				26.300	942988	
33.615	5464	33.935	5224				27.622	4902	
33.942	11538	34.797	5290				28.403	27615	
34.798	8348	37.978	16051				28.935	12887	
37.950	10012	42.687	14283				29.329	4021	
37.996	8804	42.730	184643				33.500	486832	
42.711	38650	42.765	394864				37.954	6395	
42.772	515763	42.806	50262				37.976	10644	
							42.750	57484	
							42.769	102558	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081605"		"M3081605"		
m/z 464		m/z 466		m/z 425
37.983	2254384	37.983	1696473	
38.434	9279	38.452	14938	
38.452	12278	42.757	6166	
42.707	7103	42.782	4463	
42.762	64278			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081605"		"M3081605"				"M3081605"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.983	2254384	37.983	1696473			28.396	1646432
38.434	9279	38.452	14938			31.515	19609
38.452	12278	42.757	6166			33.468	5121
42.707	7103	42.782	4463			33.492	17128
42.762	64278					37.984	678206
						38.453	5536
						41.454	5419
						42.734	16633
						42.759	13829

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081605"		"M3081605"				"M3081605"		"M3081605"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.771	3123915	42.659	4112					33.501	1535506	33.503	1751280
		42.719	325587					33.935	5224	33.615	5464
		42.770	2044195					34.797	5290	33.942	11538
								37.978	16051	34.798	8348
								42.687	14283	37.950	10012
								42.730	184643	37.996	8804
								42.765	394864	42.711	38650
								42.806	50262	42.772	515763

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3081605"		"M3081605"				"M3081605"		"M3081605"			"M3081605"		"M3081605"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
12.005	119062	12.006	88478	424	240	33.482	5134	12.008	6733	188	9.591	634760	9.591	92914
		28.398	5684	426	241	34.355	248641	28.378	4202	189	13.505	21815	13.497	19578
				428		37.979	10982	33.495	18386		15.862	239118	15.863	38844
				430				34.354	50051		17.103	97759	17.104	14618
				498							27.318	4118		
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.751	2916913	42.745	2370225(M(
512				

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081604.d
Lab Smp Id: iCAL-6 Client Smp ID: iCAL-6
Inj Date : 16-AUG-2011 12:33
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-6
Misc Info : RS M3081604
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 12:33 Cal File: M3081604.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.853	15.861	(1.000)	213394	0.80000	
* 13 Chrysene-d12	240	34.358	34.341	(1.000)	223062	0.80000	
1 Cl1	188	9.580	9.609	(0.279)	832263	3.00000	3.01
$ 2 Tetrachloro-m-xylene	244	11.999	12.014	(0.349)	146200	3.00000	2.88
3 Cl2	222	13.498	13.502	(0.393)	796465	3.00000	2.98
5 Cl3	256	17.094	17.088	(0.498)	689218	3.00000	2.92
6 Cl4	292	17.542	17.531	(0.511)	1120669	6.00000	5.98
7 RTstd-BZ-104	326	20.131	20.120	(0.586)	1663991	6.00000	5.81
8 Cl5	326	26.017	25.998	(0.757)	1180424	6.00000	5.88
9 Cl6	360	26.301	26.296	(0.766)	1210628	6.00000	5.83
10 RTstd-BZ-77	292	27.309	27.306	(0.795)	1600365	6.00000	5.91
11 Cl7	394	28.400	28.383	(0.827)	2196373	9.00000	8.90
12 Cl8	430	33.509	33.495	(0.975)	2264335	9.00000	8.81
14 RTstd-BZ-208	464	37.993	37.956	(1.106)	2963133	12.0000	11.7
15 Cl10	498	42.787	42.728	(1.245)	3778361	15.0000	14.0
$ 16 Decachloro-13C12-Biphenyl	510	42.762	42.715	(1.245)	3668989	15.0000	14.4

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081604.d

Date : 16-AUG-2011 12:33

Client ID: iCAL-6

Instrument: GCMS03.i

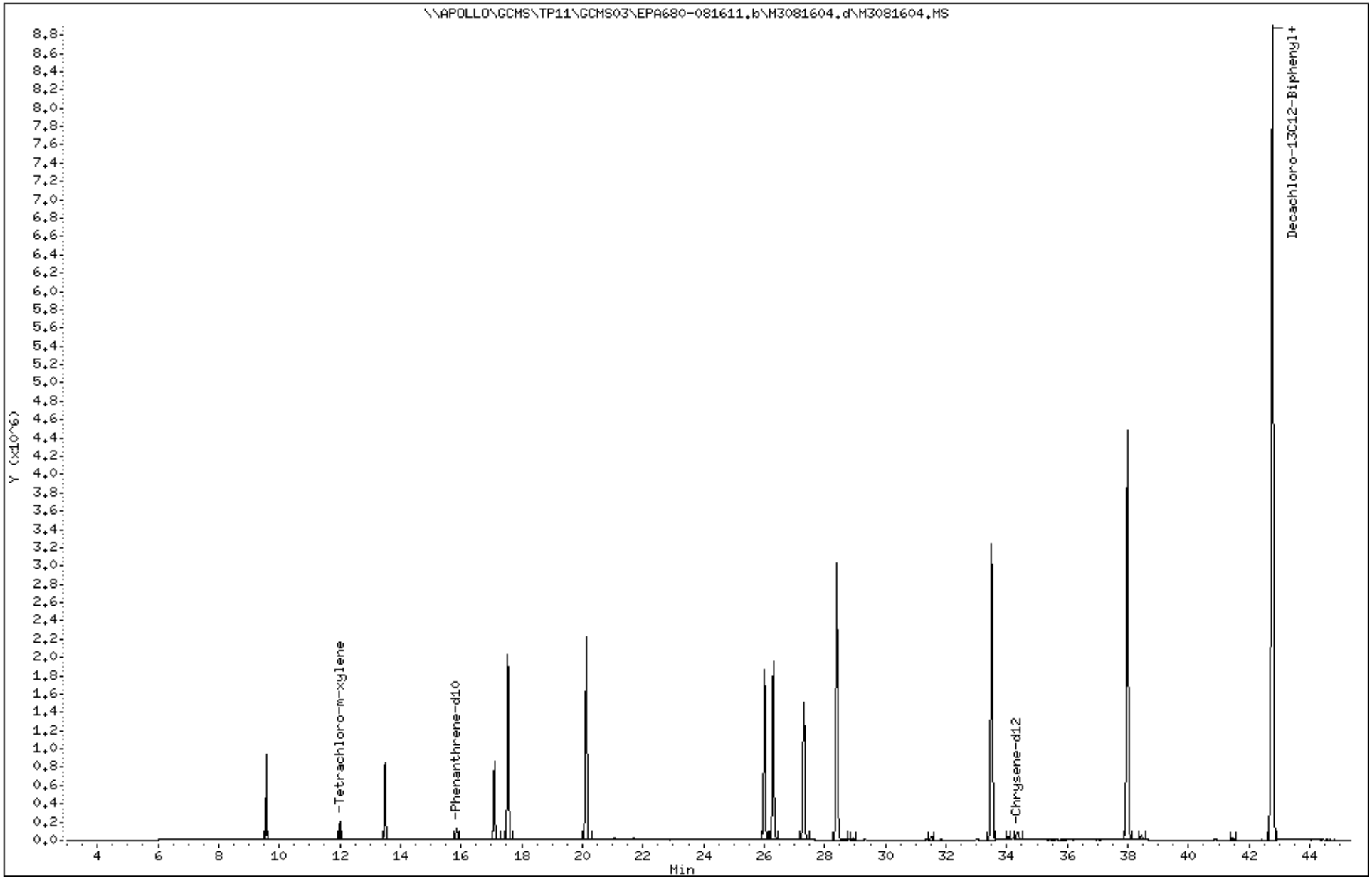
Sample Info: iCAL-6

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3081604"		"M3081604"		"M3081604"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.579	842878	9.579	266615				
13.497	27104	13.494	4304				
15.857	215058						
17.103	124053						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081604"		"M3081604"		"M3081604"						"M3081604"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.199	6038	13.496	517781							9.579	842878
13.495	805105	17.105	8918							13.497	27104
17.098	24153	17.543	83072							15.857	215058
17.546	457605	27.306	61595							17.103	124053
20.121	19228										
25.995	8667										
26.021	10070										
26.308	22531										
27.314	380540										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081604"		"M3081604"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.096	702542	17.097	693053		
17.546	113373	17.535	90325		
20.133	571002	20.126	187533		
21.058	20135	21.062	19915		
21.694	14479	21.701	13342		
26.011	565550	26.011	196027		
26.301	19053	27.308	12309		
26.327	9543				
27.278	5006				
27.300	8905				
27.322	14977				
28.409	87908				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081604"		"M3081604"				"M3081604"		"M3081604"		"M3081604"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.096	702542	17.097	693053			9.579	842878	20.132	1049916	20.132	1660740
17.546	113373	17.535	90325			13.497	27104	26.009	747041	22.094	4059
20.133	571002	20.126	187533			15.857	215058	26.311	44636	26.012	1176876
21.058	20135	21.062	19915			17.103	124053	28.406	819164	26.281	22347
21.694	14479	21.701	13342					31.520	13532	26.309	40890
26.011	565550	26.011	196027					33.462	5300	28.399	524729
26.301	19053	27.308	12309					33.517	36926	31.521	9281
26.327	9543							34.052	9184	33.502	7581
27.278	5006							37.984	193416	33.518	8368
27.300	8905							38.006	126364	34.054	6181
27.322	14977									37.971	46754
28.409	87908									37.995	60236

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081604"		"M3081604"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.541	866009	17.543	1138825				
				20.120	20979	20.132	38447				
				20.143	19956	24.203	14033				
				24.199	10302	26.020	92893				
				26.018	82420	26.307	291662				
				26.304	587182	27.314	1596430				
				27.316	1222502	27.617	7502				
				27.627	6596	28.396	9438				
				28.402	46293	28.935	5057				
				28.942	8940	33.496	22166				
				33.489	63519	33.533	12509				
				33.509	90799						
				37.984	5605						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081604"		"M3081604"			"M3081604"		"M3081604"		"M3081604"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.543	1138825	17.541	866009		13.199	6038	26.306	1208303	26.301	960668	
20.132	38447	20.120	20979		13.495	805105	27.621	6766	27.620	5113	
24.203	14033	20.143	19956		17.098	24153	28.397	38820	28.386	14390	
26.020	92893	24.199	10302		17.546	457605	28.940	16196	28.411	11607	
26.307	291662	26.018	82420		20.121	19228	29.334	5529	28.939	13826	
27.314	1596430	26.304	587182		25.995	8667	33.503	355414	29.324	4344	
27.617	7502	27.316	1222502		26.021	10070	33.516	284383	33.507	283603	
28.396	9438	27.627	6596		26.308	22531	37.957	9038	42.760	21855	
28.935	5057	28.402	46293		27.314	380540	37.981	12483	42.797	19916	
33.496	22166	28.942	8940				38.018	5714			
33.533	12509	33.489	63519				42.765	90938			
		33.509	90799				42.786	132351			
		37.984	5605								

Extracted Ion Current Profiles

Tetrachlorobiphenyls						
	"M3081604"		"M3081604"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.132	1049916	20.132	1660740		
	26.009	747041	22.094	4059		
	26.311	44636	26.012	1176876		
	28.406	819164	26.281	22347		
	31.520	13532	26.309	40890		
	33.462	5300	28.399	524729		
	33.517	36926	31.521	9281		
	34.052	9184	33.502	7581		
	37.984	193416	33.518	8368		
	38.006	126364	34.054	6181		
			37.971	46754		
			37.995	60236		

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081604"		"M3081604"			"M3081604"		"M3081604"		"M3081604"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.132	1660740	20.132	1049916		17.096	702542	17.097	693053	
22.094	4059	26.009	747041		17.546	113373	17.535	90325	
26.012	1176876	26.311	44636		20.133	571002	20.126	187533	
26.281	22347	28.406	819164		21.058	20135	21.062	19915	
26.309	40890	31.520	13532		21.694	14479	21.701	13342	
28.399	524729	33.462	5300		26.011	565550	26.011	196027	
31.521	9281	33.517	36926		26.301	19053	27.308	12309	
33.502	7581	34.052	9184		26.327	9543			
33.518	8368	37.984	193416		27.278	5006			
34.054	6181	38.006	126364		27.300	8905			
37.971	46754				27.322	14977			
37.995	60236				28.409	87908			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081604"		"M3081604"					"M3081604"		"M3081604"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.401	2194113	28.402	2042434				26.306	1208303	26.301	960668	
28.546	7516	31.520	25310				27.621	6766	27.620	5113	
31.519	26145	33.472	7404				28.397	38820	28.386	14390	
33.496	21465	33.498	5346				28.940	16196	28.411	11607	
33.524	13484	33.520	11363				29.334	5529	28.939	13826	
37.992	865915	37.991	493281				33.503	355414	29.324	4344	
38.448	6421	42.735	7582				33.516	284383	33.507	283603	
41.458	6993	42.785	14302				37.957	9038	42.760	21855	
42.775	10680						37.981	12483	42.797	19916	
42.814	4063						38.018	5714			
							42.765	90938			
							42.786	132351			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081604"		"M3081604"			"M3081604"			"M3081604"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.306	1208303	26.301	960668		17.541	866009		33.508	2025063
27.621	6766	27.620	5113		20.120	20979		33.938	14055
28.397	38820	28.386	14390		20.143	19956		34.797	9203
28.940	16196	28.411	11607		24.199	10302		38.003	30569
29.334	5529	28.939	13826		26.018	82420		42.737	200863
33.503	355414	29.324	4344		26.304	587182		42.779	817223
33.516	284383	33.507	283603		27.316	1222502		42.850	4925
37.957	9038	42.760	21855		27.627	6596			
37.981	12483	42.797	19916		28.402	46293			
38.018	5714				28.942	8940			
42.765	90938				33.489	63519			
42.786	132351				33.509	90799			
					37.984	5605			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081604"								"M3081604"		"M3081604"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.038	4351							28.401	2194113	28.402	2042434		
33.506	2291157							28.546	7516	31.520	25310		
33.714	5018							31.519	26145	33.472	7404		
33.945	17201							33.496	21465	33.498	5346		
34.792	11357							33.524	13484	33.520	11363		
37.960	10629							37.992	865915	37.991	493281		
38.008	18175							38.448	6421	42.735	7582		
42.727	66893							41.458	6993	42.785	14302		
42.788	562919							42.775	10680				
42.838	7668							42.814	4063				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081604"		"M3081604"			"M3081604"		"M3081604"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.401	2194113	28.402	2042434		20.132	1049916	20.132	1660740	
28.546	7516	31.520	25310		26.009	747041	22.094	4059	
31.519	26145	33.472	7404		26.311	44636	26.012	1176876	
33.496	21465	33.498	5346		28.406	819164	26.281	22347	
33.524	13484	33.520	11363		31.520	13532	26.309	40890	
37.992	865915	37.991	493281		33.462	5300	28.399	524729	
38.448	6421	42.735	7582		33.517	36926	31.521	9281	
41.458	6993	42.785	14302		34.052	9184	33.502	7581	
42.775	10680				37.984	193416	33.518	8368	
42.814	4063				38.006	126364	34.054	6181	
							37.971	46754	
							37.995	60236	

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081604"		"M3081604"			"M3081604"		"M3081604"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.991	2989185	37.992	2248872		33.508	2025063	33.038	4351			
38.150	6198	38.452	19774		33.938	14055	33.506	2291157			
38.448	27599	42.750	4274		34.797	9203	33.714	5018			
42.781	71935	42.788	10592		38.003	30569	33.945	17201			
42.813	16556				42.737	200863	34.792	11357			
					42.779	817223	37.960	10629			
					42.850	4925	38.008	18175			
							42.727	66893			
							42.788	562919			
							42.838	7668			

Extracted Ion Current Profiles

Octachlorobiphenyls											
"M3081604"		"M3081604"						"M3081604"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462	
33.038	4351	33.508	2025063					26.306	1208303		
33.506	2291157	33.938	14055					27.621	6766		
33.714	5018	34.797	9203					28.397	38820		
33.945	17201	38.003	30569					28.940	16196		
34.792	11357	42.737	200863					29.334	5529		
37.960	10629	42.779	817223					33.503	355414		
38.008	18175	42.850	4925					33.516	284383		
42.727	66893							37.957	9038		
42.788	562919							37.981	12483		
42.838	7668							38.018	5714		
								42.765	90938		
								42.786	132351		

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081604"		"M3081604"		
m/z 464		m/z 466		m/z 425
37.991	2989185	37.992	2248872	
38.150	6198	38.452	19774	
38.448	27599	42.750	4274	
42.781	71935	42.788	10592	
42.813	16556			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081604"		"M3081604"				"M3081604"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.991	2989185	37.992	2248872			28.401	2194113
38.150	6198	38.452	19774			28.546	7516
38.448	27599	42.750	4274			31.519	26145
42.781	71935	42.788	10592			33.496	21465
42.813	16556					33.524	13484
						37.992	865915
						38.448	6421
						41.458	6993
						42.775	10680
						42.814	4063

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081604"		"M3081604"				"M3081604"		"M3081604"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.784	3799804	42.784	3313184					33.508	2025063	33.038	4351
								33.938	14055	33.506	2291157
								34.797	9203	33.714	5018
								38.003	30569	33.945	17201
								42.737	200863	34.792	11357
								42.779	817223	37.960	10629
								42.850	4925	38.008	18175
										42.727	66893
										42.788	562919
										42.838	7668

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3081604"		"M3081604"				"M3081604"		"M3081604"			"M3081604"		"M3081604"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.999	148549	12.000	116702	424	240	34.357	226964	11.998	8837	188	9.579	842878	9.581	118187
		28.398	8173	426	241			28.398	4194	189	13.497	27104	13.497	24872
		33.514	4661	428				33.508	22105		15.857	215058	15.852	31922
				430				34.359	45492		17.103	124053	17.087	9491
				498				37.986	5882				17.104	6390
				500				38.006	5588					

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.764	3690578	42.763	3149614
512	42.876	5352		

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081603.d
Lab Smp Id: iCAL-7 Client Smp ID: iCAL-7
Inj Date : 16-AUG-2011 11:44
Operator : RMS Inst ID: GCMS03.i
Smp Info : iCAL-7
Misc Info : RS M3081603
Comment :
Method : \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\680low.m
Meth Date : 17-Aug-2011 08:08 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 11:44 Cal File: M3081603.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.10
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.869	15.861	(1.000)	169526	0.80000	
* 13 Chrysene-d12	240	34.372	34.341	(1.000)	182856	0.80000	
1 Cl1	188	9.617	9.609	(0.280)	1099169	5.00000	4.84
$ 2 Tetrachloro-m-xylene	244	12.030	12.014	(0.350)	198525	5.00000	4.77
3 Cl2	222	13.513	13.502	(0.393)	1059953	5.00000	4.83
5 Cl3	256	17.122	17.088	(0.498)	942726	5.00000	4.86
6 Cl4	292	17.568	17.531	(0.511)	1479346	10.0000	9.62
7 RTstd-BZ-104	326	20.144	20.120	(0.586)	2278304	10.0000	9.71
8 Cl5	326	26.022	25.998	(0.757)	1599139	10.0000	9.72
9 Cl6	360	26.319	26.296	(0.766)	1679725	10.0000	9.87
10 RTstd-BZ-77	292	27.338	27.306	(0.795)	2194274	10.0000	9.88
11 Cl7	394	28.419	28.383	(0.827)	3015819	15.0000	14.9
12 Cl8	430	33.526	33.495	(0.975)	3111831	15.0000	14.8
14 RTstd-BZ-208	464	38.006	37.956	(1.106)	4215477	20.0000	20.2(A)
15 Cl10	498	42.790	42.728	(1.245)	5521167	25.0000	25.0(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\APOLLO\GCMS\TP11\GCMS03\EPA680-081611.b\M3081603.d

Date : 16-AUG-2011 11:44

Client ID: iCAL-7

Instrument: GCMS03.i

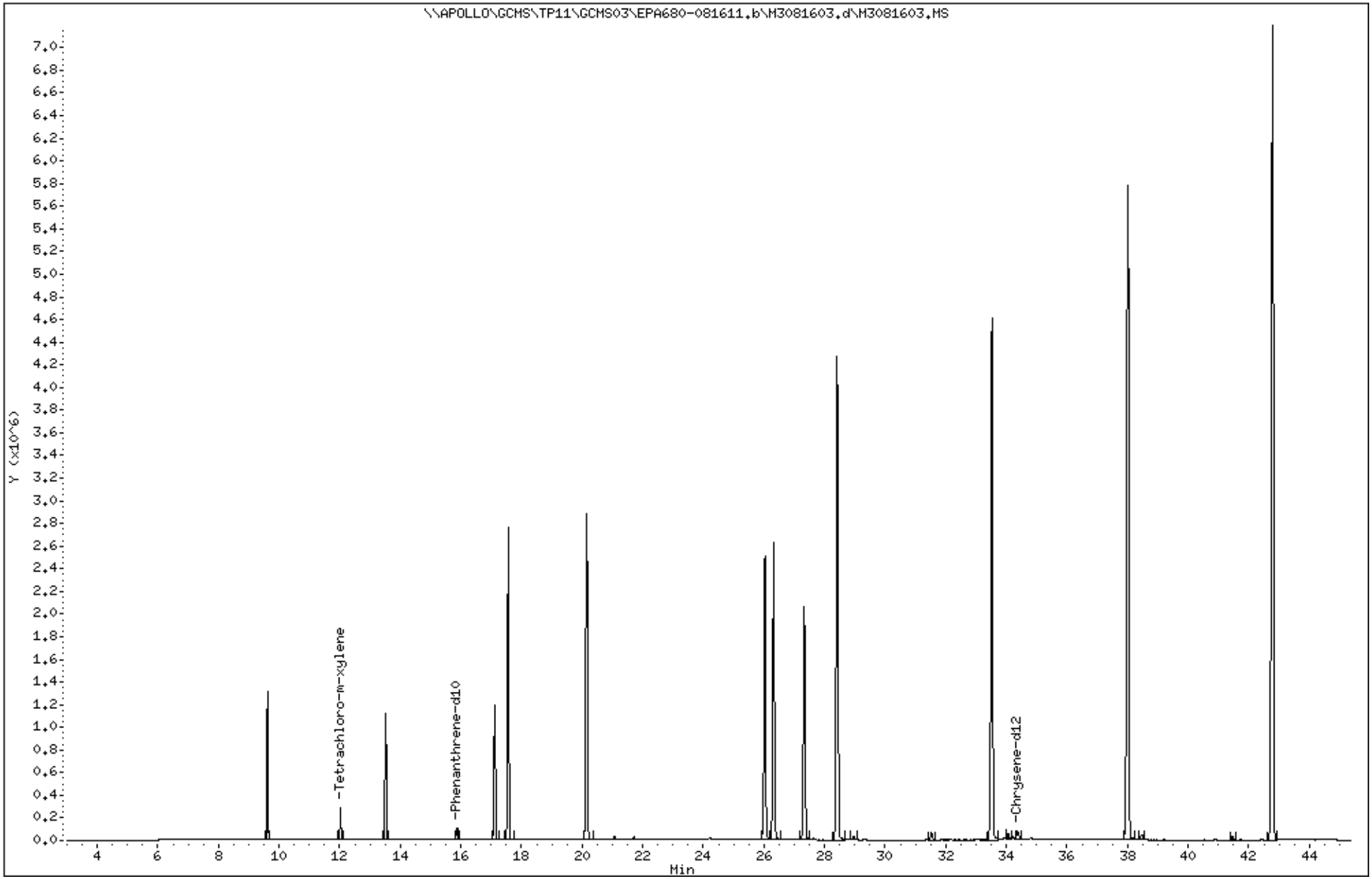
Sample Info: iCAL-7

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3081603"		"M3081603"		"M3081603"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.616	1132983	9.617	368529				
13.521	30968						
15.875	172144						
17.121	166663						
21.075	4700						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3081603"		"M3081603"		"M3081603"						"M3081603"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.222	8261	13.223	5541							9.616	1132983
13.520	1080564	13.521	698180							13.521	30968
17.117	34002	17.115	11277							15.875	172144
17.567	620416	17.566	113741							17.121	166663
20.153	21064	27.338	95372							21.075	4700
24.214	4997										
26.019	25930										
26.316	32347										
27.335	533431										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3081603"		"M3081603"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.117	968432	17.119	944126		
17.560	137435	17.560	118074		
20.148	719038	20.148	262965		
21.074	27722	21.073	27369		
21.706	19034	21.709	18957		
26.033	743930	26.033	253051		
26.298	13520	26.318	4467		
26.321	21638	27.301	5444		
27.317	17328	27.338	10434		
27.347	24422	28.411	10109		
28.423	126475	28.432	7940		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3081603"		"M3081603"				"M3081603"		"M3081603"		"M3081603"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.117	968432	17.119	944126			9.616	1132983	20.149	1424615	20.150	2290498
17.560	137435	17.560	118074			13.521	30968	26.032	1004679	22.110	5328
20.148	719038	20.148	262965			15.875	172144	26.313	34908	26.029	1596867
21.074	27722	21.073	27369			17.121	166663	26.329	29764	26.159	6968
21.706	19034	21.709	18957			21.075	4700	28.418	1139911	26.318	85726
26.033	743930	26.033	253051					31.526	19757	28.419	720508
26.298	13520	26.318	4467					33.504	27618	31.532	12946
26.321	21638	27.301	5444					33.539	23786	33.522	29063
27.317	17328	27.338	10434					34.058	12831	34.059	9247
27.347	24422	28.411	10109					34.214	5243	34.210	4170
28.423	126475	28.432	7940					37.997	216463	37.950	8756
								38.019	195369	38.015	109192
								38.467	4155		

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3081603"		"M3081603"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.564	1186720	17.566	1503651				
				20.147	55815	20.151	62977				
				24.214	14332	24.217	18924				
				26.030	95430	26.025	120912				
				26.323	795877	26.321	380055				
				27.336	1676255	27.336	2187982				
				27.624	11193	27.524	5885				
				28.414	45757	27.634	7645				
				28.445	15189	28.394	8282				
				28.948	12307	28.429	11492				
				33.526	232045	28.951	6899				
				38.007	7007	33.513	38635				
						33.552	14967				

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3081603"		"M3081603"			"M3081603"		"M3081603"		"M3081603"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.566	1503651	17.564	1186720		13.222	8261	25.860	4849	26.320	1316916	
20.151	62977	20.147	55815		13.520	1080564	26.320	1678394	27.632	7349	
24.217	18924	24.214	14332		17.117	34002	26.518	4904	28.385	8683	
26.025	120912	26.030	95430		17.567	620416	27.630	8758	28.417	18498	
26.321	380055	26.323	795877		20.153	21064	28.386	14200	28.437	7442	
27.336	2187982	27.336	1676255		24.214	4997	28.416	39060	28.950	19322	
27.524	5885	27.624	11193		26.019	25930	28.949	23333	29.335	6399	
27.634	7645	28.414	45757		26.316	32347	29.336	8000	33.517	233668	
28.394	8282	28.445	15189		27.335	533431	33.525	907384	33.539	171187	
28.429	11492	28.948	12307				33.956	5197	42.732	6361	
28.951	6899	33.526	232045				37.956	4388	42.758	30107	
33.513	38635	38.007	7007				37.986	38880	42.772	16657	
33.552	14967						42.759	105701	42.801	27904	
							42.788	191549			

Extracted Ion Current Profiles

Tetrachlorobiphenyls								
	"M3081603"		"M3081603"					
m/z 288	m/z 324		m/z 326		m/z 328		m/z 289	
	20.149	1424615	20.150	2290498				
	26.032	1004679	22.110	5328				
	26.313	34908	26.029	1596867				
	26.329	29764	26.159	6968				
	28.418	1139911	26.318	85726				
	31.526	19757	28.419	720508				
	33.504	27618	31.532	12946				
	33.539	23786	33.522	29063				
	34.058	12831	34.059	9247				
	34.214	5243	34.210	4170				
	37.997	216463	37.950	8756				
	38.019	195369	38.015	109192				
	38.467	4155						

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3081603"		"M3081603"			"M3081603"		"M3081603"		"M3081603"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.150	2290498	20.149	1424615		17.117	968432	17.119	944126	
22.110	5328	26.032	1004679		17.560	137435	17.560	118074	
26.029	1596867	26.313	34908		20.148	719038	20.148	262965	
26.159	6968	26.329	29764		21.074	27722	21.073	27369	
26.318	85726	28.418	1139911		21.706	19034	21.709	18957	
28.419	720508	31.526	19757		26.033	743930	26.033	253051	
31.532	12946	33.504	27618		26.298	13520	26.318	4467	
33.522	29063	33.539	23786		26.321	21638	27.301	5444	
34.059	9247	34.058	12831		27.317	17328	27.338	10434	
34.210	4170	34.214	5243		27.347	24422	28.411	10109	
37.950	8756	37.997	216463		28.423	126475	28.432	7940	
38.015	109192	38.019	195369						
		38.467	4155						

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3081603"		"M3081603"					"M3081603"		"M3081603"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.420	2988029	28.422	2924268				25.860	4849	26.320	1316916	
28.541	13747	28.567	6524				26.320	1678394	27.632	7349	
31.364	4520	31.527	35018				26.518	4904	28.385	8683	
31.524	37403	33.525	25882				27.630	8758	28.417	18498	
33.515	26201	33.552	7353				28.386	14200	28.437	7442	
33.542	19749	38.015	622201				28.416	39060	28.950	19322	
38.015	1150685	38.068	9282				28.949	23333	29.335	6399	
38.068	20375	38.468	4980				29.336	8000	33.517	233668	
38.463	11625	41.468	5066				33.525	907384	33.539	171187	
41.474	9439	42.774	14487				33.956	5197	42.732	6361	
42.739	8291						37.956	4388	42.758	30107	
42.767	12359						37.986	38880	42.772	16657	
42.794	18592						42.759	105701	42.801	27904	
							42.788	191549			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3081603"		"M3081603"			"M3081603"			"M3081603"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
25.860	4849	26.320	1316916		17.564	1186720		33.043	5059
26.320	1678394	27.632	7349		20.147	55815		33.524	2837395
26.518	4904	28.385	8683		24.214	14332		33.620	4389
27.630	8758	28.417	18498		26.030	95430		33.657	5188
28.386	14200	28.437	7442		26.323	795877		33.694	6627
28.416	39060	28.950	19322		27.336	1676255		33.764	4976
28.949	23333	29.335	6399		27.624	11193		33.818	5814
29.336	8000	33.517	233668		28.414	45757		33.949	18267
33.525	907384	33.539	171187		28.445	15189		34.804	13319
33.956	5197	42.732	6361		28.948	12307		37.970	8175
37.956	4388	42.758	30107		33.526	232045		38.011	23603
37.986	38880	42.772	16657		38.007	7007		42.751	512094
42.759	105701	42.801	27904					42.798	740914
42.788	191549							42.848	15147

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3081603"								"M3081603"		"M3081603"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
33.048	5792							28.420	2988029	28.422	2924268		
33.524	3142906							28.541	13747	28.567	6524		
33.670	5918							31.364	4520	31.527	35018		
33.721	9148							31.524	37403	33.525	25882		
33.954	23975							33.515	26201	33.552	7353		
34.145	4020							33.542	19749	38.015	622201		
34.809	15661							38.015	1150685	38.068	9282		
38.003	46725							38.068	20375	38.468	4980		
42.721	55589							38.463	11625	41.468	5066		
42.789	907937							41.474	9439	42.774	14487		
42.834	34523							42.739	8291				
								42.767	12359				
								42.794	18592				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3081603"		"M3081603"			"M3081603"		"M3081603"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.420	2988029	28.422	2924268		20.149	1424615	20.150	2290498	
28.541	13747	28.567	6524		26.032	1004679	22.110	5328	
31.364	4520	31.527	35018		26.313	34908	26.029	1596867	
31.524	37403	33.525	25882		26.329	29764	26.159	6968	
33.515	26201	33.552	7353		28.418	1139911	26.318	85726	
33.542	19749	38.015	622201		31.526	19757	28.419	720508	
38.015	1150685	38.068	9282		33.504	27618	31.532	12946	
38.068	20375	38.468	4980		33.539	23786	33.522	29063	
38.463	11625	41.468	5066		34.058	12831	34.059	9247	
41.474	9439	42.774	14487		34.214	5243	34.210	4170	
42.739	8291				37.997	216463	37.950	8756	
42.767	12359				38.019	195369	38.015	109192	
42.794	18592				38.467	4155			

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3081603"		"M3081603"			"M3081603"		"M3081603"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
38.010	4245675	38.010	3135583		33.043	5059	33.048	5792			
38.129	5588	38.129	4017		33.524	2837395	33.524	3142906			
38.166	4480	38.468	27926		33.620	4389	33.670	5918			
38.203	6629	41.450	8189		33.657	5188	33.721	9148			
38.317	4237	42.751	24825		33.694	6627	33.954	23975			
38.461	37238	42.799	14226		33.764	4976	34.145	4020			
42.766	78808				33.818	5814	34.809	15661			
42.787	42462				33.949	18267	38.003	46725			
42.815	20371				34.804	13319	42.721	55589			
					37.970	8175	42.789	907937			
					38.011	23603	42.834	34523			
					42.751	512094					
					42.798	740914					
					42.848	15147					

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3081603"		"M3081603"				"M3081603"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
33.048	5792	33.043	5059				25.860	4849	
33.524	3142906	33.524	2837395				26.320	1678394	
33.670	5918	33.620	4389				26.518	4904	
33.721	9148	33.657	5188				27.630	8758	
33.954	23975	33.694	6627				28.386	14200	
34.145	4020	33.764	4976				28.416	39060	
34.809	15661	33.818	5814				28.949	23333	
38.003	46725	33.949	18267				29.336	8000	
42.721	55589	34.804	13319				33.525	907384	
42.789	907937	37.970	8175				33.956	5197	
42.834	34523	38.011	23603				37.956	4388	
		42.751	512094				37.986	38880	
		42.798	740914				42.759	105701	
		42.848	15147				42.788	191549	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3081603"		"M3081603"		
m/z 464		m/z 466		m/z 425
38.010	4245675	38.010	3135583	
38.129	5588	38.129	4017	
38.166	4480	38.468	27926	
38.203	6629	41.450	8189	
38.317	4237	42.751	24825	
38.461	37238	42.799	14226	
42.766	78808			
42.787	42462			
42.815	20371			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3081603"		"M3081603"				"M3081603"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
38.010	4245675	38.010	3135583			28.420	2988029
38.129	5588	38.129	4017			28.541	13747
38.166	4480	38.468	27926			31.364	4520
38.203	6629	41.450	8189			31.524	37403
38.317	4237	42.751	24825			33.515	26201
38.461	37238	42.799	14226			33.542	19749
42.766	78808					38.015	1150685
42.787	42462					38.068	20375
42.815	20371					38.463	11625
						41.474	9439
						42.739	8291
						42.767	12359
						42.794	18592

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3081603"		"M3081603"				"M3081603"		"M3081603"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.787	5561763	42.788	4739958			33.043	5059	33.048	5792
42.914	11153					33.524	2837395	33.524	3142906
43.028	5432					33.620	4389	33.670	5918
						33.657	5188	33.721	9148
						33.694	6627	33.954	23975
						33.764	4976	34.145	4020
						33.818	5814	34.809	15661
						33.949	18267	38.003	46725
						34.804	13319	42.721	55589
						37.970	8175	42.789	907937
						38.011	23603	42.834	34523
						42.751	512094		
						42.798	740914		
						42.848	15147		

Extracted Ion Current Profiles

TCMX					Chrysene-d12					Phenanthrene-d10				
"M3081603"		"M3081603"				"M3081603"		"M3081603"			"M3081603"		"M3081603"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
12.027	200884	12.027	160808	424	240	34.367	188898	12.026	11596	188	9.616	1132983	9.615	166273
		28.411	5397	426	241	38.007	4946	28.412	16290	189	13.521	30968	13.525	33008
		28.441	9045	428				33.480	4753		15.875	172144	15.874	28321
				430				33.525	19647		17.121	166663	17.124	24467
				498				34.370	40544		21.075	4700		
				500				37.992	6664					

Extracted Ion Current Profiles

	Deca C13	
Deca C13	m/z 510	m/z 512

510
512

Standards Summary Tables

7B
EPA 680 Continuing Calibration Data

Pace Analytical Services, Inc.

SDG No.: 12010053

Instrument ID:	GCMS03	Calibration Date:	1/11/2012	Time:	8:58
Lab File ID:	M3011103	Start Cal Date:	8/16/2011	Time:	11:44
Client ID:	CCV3-0111A	End Cal Date:	8/16/2011	Time:	16:39
GC Column:	DB-XLB				

NEA File ID: S:\Lab Data\GCMS-SV\EPA-680\TRC_LRF12010053a\[CCV3-0111C.xls]Sheet1

COMPOUND	Average RRF	CCV RRF	MIN RRF	%D	MAX %D
1 CI1	1.120	1.144	0.005	2.13	20
$ 2 Tetrachloro-m-xylene	0.204	0.187	0.005	-8.36	20
3 CI2	1.103	1.074	0.005	-2.64	20
5 CI3	0.939	0.913	0.005	-2.76	20
6 CI4	0.775	0.703	0.005	-9.36	20
8 CI5	0.778	0.730	0.005	-6.11	20
9 CI6	0.796	0.779	0.005	-2.14	20
11 CI7	0.943	0.879	0.005	-6.77	20
13 CI8	1.020	0.911	0.005	-10.8	20
17 CI10	1.029	0.874	0.005	-15.1	20
$ 13C-DCBP	1.017	0.927	0.005	-8.85	20

FORM VII-CLP-EPA 680-1

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011103.d
Lab Smp Id: CCV3-0111A Client Smp ID: CCV3-0111A
Inj Date : 11-JAN-2012 08:58
Operator : RMS Inst ID: GCMS03.i
Smp Info : CCV3-0111A
Misc Info : RS M3011103
Comment :
Method : \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\680low.m
Meth Date : 12-Jan-2012 07:47 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 16:39 Cal File: M3081609.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.14
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.758	15.778	(1.000)	207127	0.80000	
* 13 Chrysene-d12	240	34.223	34.238	(1.000)	213590	0.80000	
1 Cl1	188	9.533	9.551	(0.279)	301468	1.00000	0.990
$ 2 Tetrachloro-m-xylene	244	11.936	11.949	(0.349)	50901	1.00000	0.913
3 Cl2	222	13.414	13.426	(0.392)	280669	1.00000	0.979
5 Cl3	256	16.995	17.011	(0.497)	243610	1.00000	0.957
6 Cl4	292	17.447	17.460	(0.510)	370116	2.00000	1.80
7 RTstd-BZ-104	326	20.016	20.043	(0.585)	581417	2.00000	1.91
8 Cl5	326	25.883	25.898	(0.756)	390955	2.00000	1.87
9 Cl6	360	26.168	26.184	(0.765)	416513	2.00000	1.92
10 RTstd-BZ-77	292	27.180	27.203	(0.794)	550969	2.00000	1.94
11 Cl7	394	28.259	28.285	(0.826)	713378	3.00000	2.76
12 Cl8	430	33.353	33.378	(0.975)	729217	3.00000	2.71
14 RTstd-BZ-208	464	37.831	37.848	(1.105)	945145	4.00000	3.64
15 Cl10	498	42.615	42.640	(1.245)	1155070	5.00000	4.14
$ 16 Decachloro-13C12-Biphenyl	510	42.604	42.615	(1.245)	1217181	5.00000	4.42

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011103.d

Date : 11-JAN-2012 08:58

Client ID: CCV3-0111A

Instrument: GCMS03.i

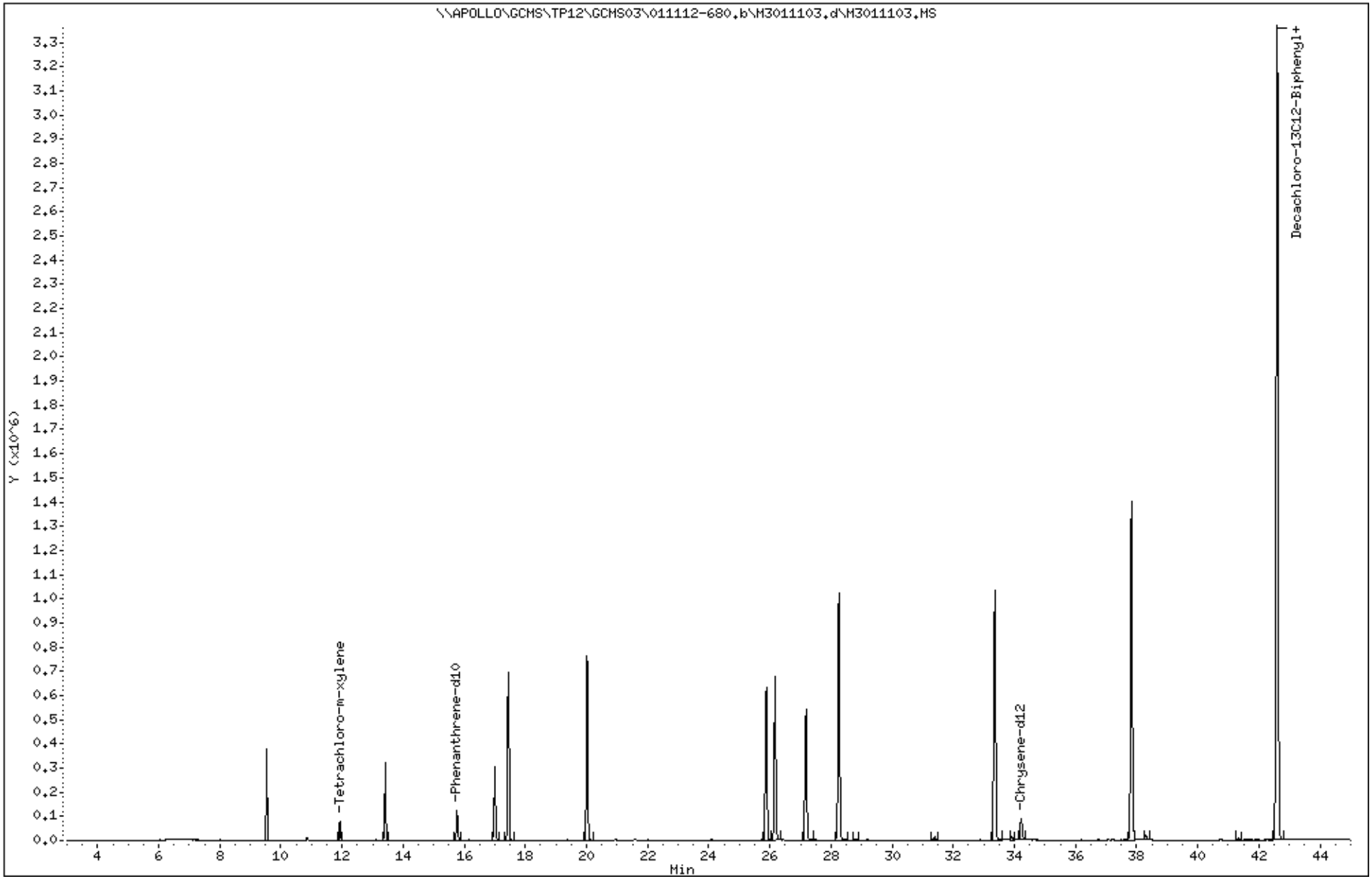
Sample Info: CCV3-0111A

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	CCV3-0111A
Matrix:	Standard	Lab Sample ID:	CCV3-0111A
Sample weight:	1	Date Received:	N/A
% Moisture	0 %	Date Extracted:	N/A
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	8:58

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
9.535	305795	9.535	107263	2.9	1.1199	0.000920	0.0100	1.02	
				Mono Total:		0.000920	0.0100	1.02	

Dichlorobiphenyls									
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
13.414	287049	13.414	190408	1.5	1.1027	0.000600	0.0100	0.974	
				Di Total:		0.000600	0.0100	0.974	

Trichlorobiphenyls									
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
16.998	244125	16.999	243762	1.0	0.9390	0.00116	0.0100	0.972	
				Tri Total:		0.00116	0.0100	0.972	

Tetrachlorobiphenyls									
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.443	375753	17.443	292246	1.3	0.7752	0.000680	0.0200	1.81	
				Tetra Total:		0.000680	0.0200	1.81	

Pentachlorobiphenyls									
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
25.880	390346	25.881	235695	1.7	0.7775	0.00120	0.0200	1.88	
				Penta Total:		0.00120	0.0200	1.88	

Hexachlorobiphenyls									
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
26.170	416611	26.170	331186	1.3	0.7961	0.00120	0.0200	1.96	
				Hexa Total:		0.00120	0.0200	1.96	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
28.256	705134	28.258	686501	1.0	0.9430	0.00188	0.0300	2.80	
				Hepta Total:		0.00188	0.0300	2.80	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
33.361	730371	33.357	634814	1.2	1.0205	0.00184	0.0300	2.68	
				Octa Total:		0.00184	0.0300	2.68	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
				Nona Total:		0.00420	0.0500	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
42.613	1168339	42.612	1019165	1.1	1.0294	0.00420	0.0500	4.25	
				Deca Total:		0.00420	0.0500	4.25	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.932	50006	11.931	37882	1.3	0.2041		0.916	
				TCMX Total:			0.916	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.598	1239434	42.596	1066719	1.2	1.0171		4.56	
				Deca Total:			4.56	

TCMX Recovery % 91.6 %

Deca Recovery 91.2 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.219	213892	34.215	44545	4.8	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011103"		"M3011103"		"M3011103"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.535	305795	9.535	107263				
13.416	9673	13.404	1123				
15.763	208671	15.767	3052				
16.143	2060						
17.002	40621						
17.440	2145						
20.954	1126						
27.165	1352						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011103"		"M3011103"		"M3011103"						"M3011103"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.121	1856	13.121	1335							9.535	305795
13.414	287049	13.414	190408							13.416	9673
16.998	9005	17.002	2415							15.763	208671
17.444	166843	17.448	30362							16.143	2060
20.015	4045	27.179	23346							17.002	40621
20.041	2298									17.440	2145
24.089	1066									20.954	1126
25.891	6528									27.165	1352
26.143	2142										
26.180	5234										
27.179	124496										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011103"		"M3011103"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
16.998	244125	16.999	243762		
17.442	35651	17.440	31036		
20.021	186413	20.023	65200		
20.957	6333	20.953	6015		
21.592	4519	21.591	4153		
25.877	187388	25.878	61194		
26.169	8719	26.165	1392		
27.177	10191	27.177	4354		
28.251	13818	28.233	1255		
28.271	13837	28.277	1676		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011103"		"M3011103"				"M3011103"		"M3011103"		"M3011103"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
16.998	244125	16.999	243762			9.535	305795	20.021	354215	20.020	582755
17.442	35651	17.440	31036			13.416	9673	25.881	235695	21.988	1036
20.021	186413	20.023	65200			15.763	208671	26.161	15415	25.880	390346
20.957	6333	20.953	6015			16.143	2060	28.258	270901	26.169	20413
21.592	4519	21.591	4153			17.002	40621	31.387	3914	28.258	175258
25.877	187388	25.878	61194			17.440	2145	33.334	3672	31.392	2803
26.169	8719	26.165	1392			20.954	1126	33.375	9532	33.343	3539
27.177	10191	27.177	4354			27.165	1352	33.914	2685	33.366	4302
28.251	13818	28.233	1255					37.843	83106	33.914	1874
28.271	13837	28.277	1676							37.836	29825

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3011103"		"M3011103"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.443	292246	17.443	375753				
				20.021	13976	20.020	14206				
				24.093	3142	24.095	4103				
				25.877	26750	25.891	29356				
				26.171	194330	26.172	93000				
				27.179	407631	27.180	551263				
				27.439	1117	27.493	2385				
				27.490	2374	28.240	2107				
				28.252	8207	28.269	3669				
				28.268	7526	28.814	1341				
				28.814	2547	33.358	12005				
				33.364	49497						
				37.824	6258						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011103"		"M3011103"			"M3011103"		"M3011103"		"M3011103"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.443	375753	17.443	292246		13.121	1856	26.170	416611	26.170	331186	
20.020	14206	20.021	13976		13.414	287049	27.486	1453	27.496	1388	
24.095	4103	24.093	3142		16.998	9005	28.248	6626	28.252	4566	
25.891	29356	25.877	26750		17.444	166843	28.271	6120	28.269	4347	
26.172	93000	26.171	194330		20.015	4045	28.815	4540	28.810	3599	
27.180	551263	27.179	407631		20.041	2298	29.196	1663	29.194	1303	
27.493	2385	27.439	1117		24.089	1066	33.357	193724	33.358	85581	
28.240	2107	27.490	2374		25.891	6528	37.842	11795	37.828	3592	
28.269	3669	28.252	8207		26.143	2142	42.572	7132	42.551	1319	
28.814	1341	28.268	7526		26.180	5234	42.597	13765	42.600	8422	
33.358	12005	28.814	2547		27.179	124496	42.629	21646	42.630	4441	
		33.364	49497								
		37.824	6258								

Extracted Ion Current Profiles

Tetrachlorobiphenyls							
	"M3011103"		"M3011103"				
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289	
	20.021	354215	20.020	582755			
	25.881	235695	21.988	1036			
	26.161	15415	25.880	390346			
	28.258	270901	26.169	20413			
	31.387	3914	28.258	175258			
	33.334	3672	31.392	2803			
	33.375	9532	33.343	3539			
	33.914	2685	33.366	4302			
	37.843	83106	33.914	1874			
			37.836	29825			

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3011103"		"M3011103"			"M3011103"		"M3011103"		"M3011103"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.020	582755	20.021	354215		16.998	244125	16.999	243762	
21.988	1036	25.881	235695		17.442	35651	17.440	31036	
25.880	390346	26.161	15415		20.021	186413	20.023	65200	
26.169	20413	28.258	270901		20.957	6333	20.953	6015	
28.258	175258	31.387	3914		21.592	4519	21.591	4153	
31.392	2803	33.334	3672		25.877	187388	25.878	61194	
33.343	3539	33.375	9532		26.169	8719	26.165	1392	
33.366	4302	33.914	2685		27.177	10191	27.177	4354	
33.914	1874	37.843	83106		28.251	13818	28.233	1255	
37.836	29825				28.271	13837	28.277	1676	

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011103"		"M3011103"					"M3011103"		"M3011103"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.256	705134	28.258	686501				26.170	416611	26.170	331186	
28.421	1024	31.385	6738				27.486	1453	27.496	1388	
31.388	7181	33.350	6367				28.248	6626	28.252	4566	
33.365	12116	33.376	4273				28.271	6120	28.269	4347	
37.837	253614	37.838	142733				28.815	4540	28.810	3599	
38.320	1718	37.907	2072				29.196	1663	29.194	1303	
41.325	1719	42.596	5352				33.357	193724	33.358	85581	
42.565	1321	42.612	3284				37.842	11795	37.828	3592	
42.613	16937						42.572	7132	42.551	1319	
							42.597	13765	42.600	8422	
							42.629	21646	42.630	4441	

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3011103"		"M3011103"			"M3011103"			"M3011103"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
26.170	416611	26.170	331186		17.443	292246		32.898	1073
27.486	1453	27.496	1388		20.021	13976		33.357	634814
28.248	6626	28.252	4566		24.093	3142		33.807	2589
28.271	6120	28.269	4347		25.877	26750		34.658	2297
28.815	4540	28.810	3599		26.171	194330		37.831	8309
29.196	1663	29.194	1303		27.179	407631		37.852	4933
33.357	193724	33.358	85581		27.439	1117		42.614	286780
37.842	11795	37.828	3592		27.490	2374			
42.572	7132	42.551	1319		28.252	8207			
42.597	13765	42.600	8422		28.268	7526			
42.629	21646	42.630	4441		28.814	2547			
					33.364	49497			
					37.824	6258			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3011103"						"M3011103"		"M3011103"					
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
32.902	1107							28.256	705134	28.258	686501		
33.361	730371							28.421	1024	31.385	6738		
33.471	1246							31.388	7181	33.350	6367		
33.673	1162							33.365	12116	33.376	4273		
33.810	3127							37.837	253614	37.838	142733		
34.647	1465							38.320	1718	37.907	2072		
34.667	1617							41.325	1719	42.596	5352		
37.808	4152							42.565	1321	42.612	3284		
37.838	7352							42.613	16937				
42.614	191977												

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3011103"		"M3011103"			"M3011103"		"M3011103"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.256	705134	28.258	686501		20.021	354215	20.020	582755	
28.421	1024	31.385	6738		25.881	235695	21.988	1036	
31.388	7181	33.350	6367		26.161	15415	25.880	390346	
33.365	12116	33.376	4273		28.258	270901	26.169	20413	
37.837	253614	37.838	142733		31.387	3914	28.258	175258	
38.320	1718	37.907	2072		33.334	3672	31.392	2803	
41.325	1719	42.596	5352		33.375	9532	33.343	3539	
42.565	1321	42.612	3284		33.914	2685	33.366	4302	
42.613	16937				37.843	83106	33.914	1874	
							37.836	29825	

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3011103"		"M3011103"			"M3011103"		"M3011103"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.836	950104	37.834	708793		32.898	1073	32.902	1107			
38.312	5176	38.313	4680		33.357	634814	33.361	730371			
41.330	1224	42.566	1540		33.807	2589	33.471	1246			
42.553	1255	42.602	9634		34.658	2297	33.673	1162			
42.613	14388				37.831	8309	33.810	3127			
					37.852	4933	34.647	1465			
					42.614	286780	34.667	1617			
							37.808	4152			
							37.838	7352			
							42.614	191977			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3011103"		"M3011103"				"M3011103"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
32.902	1107	32.898	1073				26.170	416611	
33.361	730371	33.357	634814				27.486	1453	
33.471	1246	33.807	2589				28.248	6626	
33.673	1162	34.658	2297				28.271	6120	
33.810	3127	37.831	8309				28.815	4540	
34.647	1465	37.852	4933				29.196	1663	
34.667	1617	42.614	286780				33.357	193724	
37.808	4152						37.842	11795	
37.838	7352						42.572	7132	
42.614	191977						42.597	13765	
							42.629	21646	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3011103"		"M3011103"		
m/z 464		m/z 466		m/z 425
37.836	950104	37.834	708793	
38.312	5176	38.313	4680	
41.330	1224	42.566	1540	
42.553	1255	42.602	9634	
42.613	14388			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3011103"		"M3011103"				"M3011103"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.836	950104	37.834	708793			28.256	705134
38.312	5176	38.313	4680			28.421	1024
41.330	1224	42.566	1540			31.388	7181
42.553	1255	42.602	9634			33.365	12116
42.613	14388					37.837	253614
						38.320	1718
						41.325	1719
						42.565	1321
						42.613	16937

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3011103"		"M3011103"				"M3011103"		"M3011103"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.613	1168339	33.362	1153			32.898	1073	32.902	1107
		42.612	1019165			33.357	634814	33.361	730371
						33.807	2589	33.471	1246
						34.658	2297	33.673	1162
						37.831	8309	33.810	3127
						37.852	4933	34.647	1465
						42.614	286780	34.667	1617
								37.808	4152
								37.838	7352
								42.614	191977

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3011103"		"M3011103"				"M3011103"		"M3011103"			"M3011103"		"M3011103"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
11.932	50006	11.931	37882	424	240	28.269	4526	11.930	3249	188	9.535	305795	9.537	45431
		28.241	2295	426	241	34.219	213892	28.261	4136	189	13.416	9673	13.413	8668
		33.382	1185	428		37.815	1805	33.364	6600		15.763	208671	15.761	32938
		34.190	1175	430		37.861	1287	34.215	44545		16.143	2060	17.005	6086
		34.221	3435	498				37.804	1045		17.002	40621		
				500							17.440	2145		
											20.954	1126		
											27.165	1352		

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	37.824	1769	42.596	1066719
512	42.598	1239434	42.726	1125
	42.738	1329		
	42.801	1052		
	42.882	1066		
	42.936	1314		

Pace Analytical Services, Inc.
12010053.PDF
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7B
EPA 680 Continuing Calibration Data

Pace Analytical Services, Inc.

SDG No.: 12010053

Instrument ID:	GCMS03	Calibration Date:	1/11/2012	Time:	18:00
Lab File ID:	M3011114	Start Cal Date:	8/16/2011	Time:	11:44
Client ID:	CCV3-0111B	End Cal Date:	8/16/2011	Time:	16:39
GC Column:	DB-XLB				

NEA File ID: S:\Lab Data\GCMS-SV\EPA-680\TRC_LRF12010053a\[CCV3-0111C.xls]Sheet1

COMPOUND	Average RRF	CCV RRF	MIN RRF	%D	MAX %D
1 CI1	1.120	1.146	0.005	2.30	20
$ 2 Tetrachloro-m-xylene	0.204	0.193	0.005	-5.61	20
3 CI2	1.103	1.099	0.005	-0.34	20
5 CI3	0.939	0.945	0.005	0.69	20
6 CI4	0.775	0.717	0.005	-7.48	20
8 CI5	0.778	0.742	0.005	-4.57	20
9 CI6	0.796	0.767	0.005	-3.66	20
11 CI7	0.943	0.896	0.005	-4.96	20
13 CI8	1.020	0.907	0.005	-11.1	20
17 CI10	1.029	0.877	0.005	-14.8	20
$ 13C-DCBP	1.017	0.961	0.005	-5.54	20

FORM VII-CLP-EPA 680-1

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011114.d
Lab Smp Id: CCV3-0111B Client Smp ID: CCV3-0111B
Inj Date : 11-JAN-2012 18:00
Operator : RMS Inst ID: GCMS03.i
Smp Info : CCV3-0111B
Misc Info : RS M3011114
Comment :
Method : \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\680low.m
Meth Date : 12-Jan-2012 07:47 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 16:39 Cal File: M3081609.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.14
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.775	15.778	(1.000)	231329	0.80000	
* 13 Chrysene-d12	240	34.233	34.238	(1.000)	231763	0.80000	
1 Cl1	188	9.548	9.551	(0.279)	333872	1.00000	1.01
$ 2 Tetrachloro-m-xylene	244	11.939	11.949	(0.349)	57465	1.00000	0.950
3 Cl2	222	13.430	13.426	(0.392)	317807	1.00000	1.02
5 Cl3	256	17.008	17.011	(0.497)	272357	1.00000	0.986
6 Cl4	292	17.457	17.460	(0.510)	414012	2.00000	1.86
7 RTstd-BZ-104	326	20.033	20.043	(0.585)	649916	2.00000	1.97
8 Cl5	326	25.892	25.898	(0.756)	437680	2.00000	1.93
9 Cl6	360	26.179	26.184	(0.765)	452693	2.00000	1.92
10 RTstd-BZ-77	292	27.197	27.203	(0.794)	608465	2.00000	1.97
11 Cl7	394	28.273	28.285	(0.826)	794574	3.00000	2.83
12 Cl8	430	33.374	33.378	(0.975)	784821	3.00000	2.69
14 RTstd-BZ-208	464	37.852	37.848	(1.106)	1049716	4.00000	3.73
15 Cl10	498	42.631	42.640	(1.245)	1278590	5.00000	4.22
$ 16 Decachloro-13C12-Biphenyl	510	42.620	42.615	(1.245)	1403256	5.00000	4.69

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011114.d

Date : 11-JAN-2012 18:00

Client ID: CCV3-0111B

Instrument: GCMS03.i

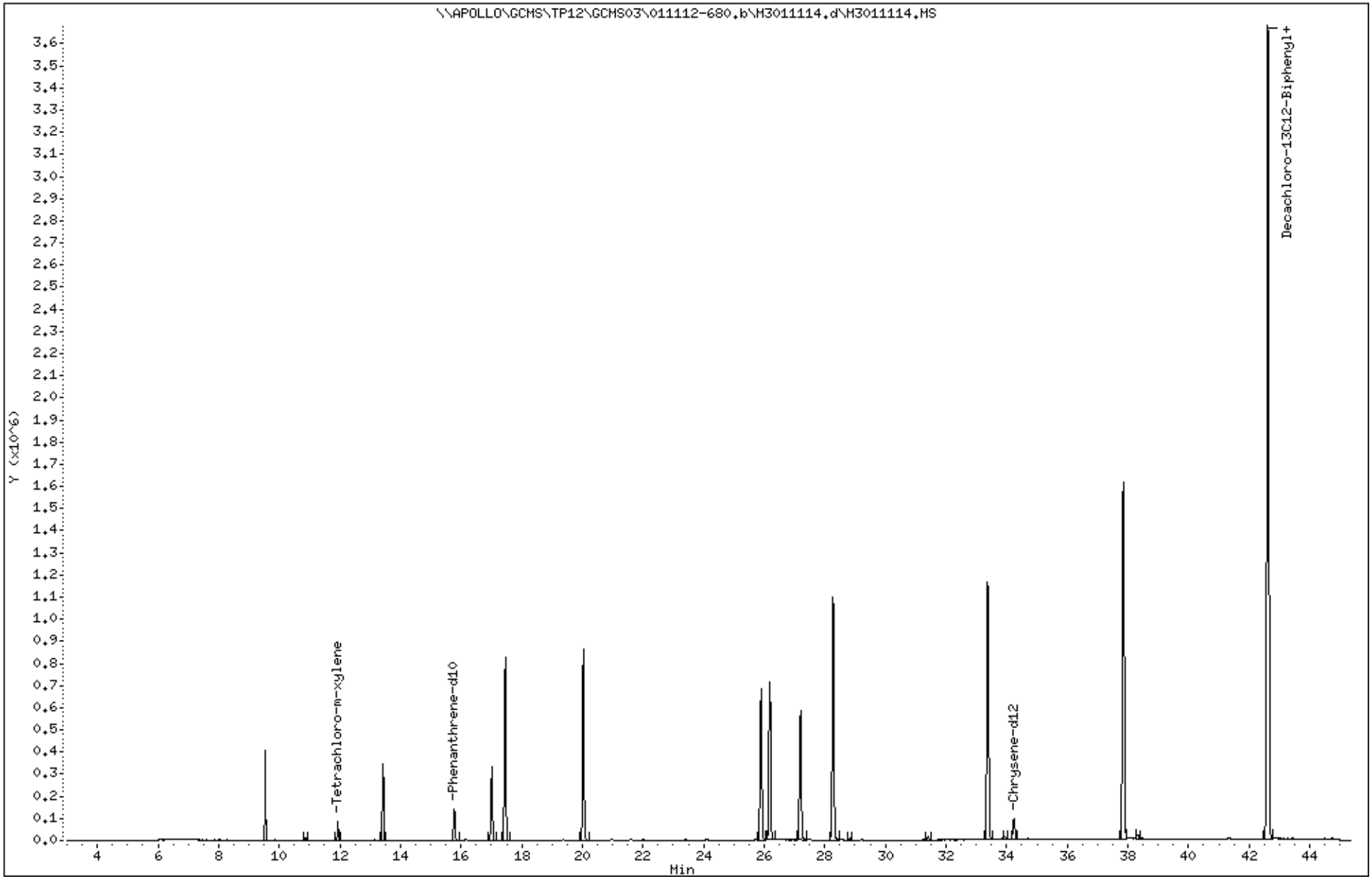
Sample Info: CCV3-0111B

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	CCV3-0111B
Matrix:	Standard	Lab Sample ID:	CCV3-0111B
Sample weight:	1	Date Received:	N/A
% Moisture	0 %	Date Extracted:	N/A
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	18:00

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
9.544	335933	9.544	118638	2.8	1.1199	0.000920	0.0100	1.02	
				Mono Total:		0.000920	0.0100	1.02	

Dichlorobiphenyls									
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
13.426	322238	13.427	211853	1.5	1.1027	0.000600	0.0100	0.997	
				Di Total:		0.000600	0.0100	0.997	

Trichlorobiphenyls									
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.016	277218	17.015	274452	1.0	0.9390	0.00116	0.0100	1.01	
				Tri Total:		0.00116	0.0100	1.01	

Tetrachlorobiphenyls									
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.456	420623	17.455	325917	1.3	0.7752	0.000680	0.0200	1.85	
				Tetra Total:		0.000680	0.0200	1.85	

Pentachlorobiphenyls									
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
25.898	435121	25.897	266000	1.6	0.7775	0.00120	0.0200	1.91	
				Penta Total:		0.00120	0.0200	1.91	

Hexachlorobiphenyls									
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
26.184	449798	26.186	366037	1.2	0.7961	0.00120	0.0200	1.93	
				Hexa Total:		0.00120	0.0200	1.93	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
28.278	788352	28.278	770160	1.0	0.9430	0.00188	0.0300	2.85	
				Hepta Total:		0.00188	0.0300	2.85	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
33.379	797648	33.376	704235	1.1	1.0205	0.00184	0.0300	2.67	
				Octa Total:		0.00184	0.0300	2.67	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
				Nona Total:		0.00420	0.0500	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
42.632	1285779	42.631	1122407	1.1	1.0294	0.00420	0.0500	4.26	
				Deca Total:		0.00420	0.0500	4.26	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.942	56486	11.942	42829	1.3	0.2041		0.944	
				TCMX Total:			0.944	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.616	1408565	42.615	1179749	1.2	1.0171		4.72	
				Deca Total:			4.72	

TCMX Recovery % 94.4 %

Deca Recovery 94.5 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.235	234573	34.235	48660	4.8	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011114"		"M3011114"		"M3011114"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.544	335933	9.544	118638				
13.423	11651	13.434	1097				
15.776	230852	15.774	3826				
16.155	2162						
17.013	46639						
20.977	1198						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011114"		"M3011114"		"M3011114"						"M3011114"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.131	2126	13.133	1398							9.544	335933
13.426	322238	13.427	211853							13.423	11651
17.011	9860	17.011	2700							15.776	230852
17.457	186157	17.455	33199							16.155	2162
20.025	3392	27.191	25670							17.013	46639
20.043	3736									20.977	1198
24.108	1331										
25.880	3233										
25.915	3603										
26.190	8531										
27.195	138424										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011114"		"M3011114"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.016	277218	17.015	274452		
17.455	42248	17.454	34392		
20.034	209160	20.034	68435		
20.972	6887	20.972	6843		
21.607	4630	21.611	4635		
25.900	210639	25.894	69452		
26.181	10112	26.207	1030		
27.190	12415	27.177	2114		
28.282	30525	27.200	3306		
		28.262	3633		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011114"		"M3011114"				"M3011114"		"M3011114"		"M3011114"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.016	277218	17.015	274452			9.544	335933	20.034	389345	20.034	651284
17.455	42248	17.454	34392			13.423	11651	25.897	266000	22.016	1165
20.034	209160	20.034	68435			15.776	230852	26.181	15559	25.898	435121
20.972	6887	20.972	6843			16.155	2162	28.277	297181	26.189	23337
21.607	4630	21.611	4635			17.013	46639	31.411	4208	28.277	198714
25.900	210639	25.894	69452			20.977	1198	33.366	6488	31.403	3162
26.181	10112	26.207	1030					33.384	7158	33.366	9048
27.190	12415	27.177	2114					33.939	3009	33.937	2009
28.282	30525	27.200	3306					37.842	95719	37.794	1217
		28.262	3633							37.852	20810
										37.877	11006

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3011114"		"M3011114"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.455	325917	17.456	420623				
				20.032	15445	20.035	14655				
				24.108	3082	24.110	4271				
				25.895	28564	25.902	32617				
				26.182	208980	26.185	108437				
				27.195	453068	27.193	606944				
				27.381	2294	27.381	1713				
				27.515	2284	27.493	1585				
				28.255	3470	27.546	1182				
				28.272	5165	28.263	2729				
				28.298	4696	28.298	3252				
				28.830	2865	28.826	1326				
				33.355	13164	33.382	13939				
				33.381	36111						
				37.835	2983						
				37.880	1987						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011114"		"M3011114"			"M3011114"		"M3011114"		"M3011114"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.456	420623	17.455	325917		13.131	2126	25.740	1025	26.186	366037	
20.035	14655	20.032	15445		13.426	322238	26.184	449798	27.515	1702	
24.110	4271	24.108	3082		17.011	9860	27.512	2081	28.275	11904	
25.902	32617	25.895	28564		17.457	186157	28.264	8276	28.823	4041	
26.185	108437	26.182	208980		20.025	3392	28.287	7609	29.208	1488	
27.193	606944	27.195	453068		20.043	3736	28.825	5157	33.379	98062	
27.381	1713	27.381	2294		24.108	1331	29.214	1710	37.852	1312	
27.493	1585	27.515	2284		25.880	3233	33.378	218260	42.634	20354	
27.546	1182	28.255	3470		25.915	3603	33.819	1101			
28.263	2729	28.272	5165		26.190	8531	34.671	1270			
28.298	3252	28.298	4696		27.195	138424	37.831	4429			
28.826	1326	28.830	2865				37.864	8234			
33.382	13939	33.355	13164				42.627	64138			
		33.381	36111								
		37.835	2983								
		37.880	1987								

Extracted Ion Current Profiles

Tetrachlorobiphenyls								
	"M3011114"		"M3011114"					
m/z 288	m/z 324		m/z 326		m/z 328		m/z 289	
	20.034	389345	20.034	651284				
	25.897	266000	22.016	1165				
	26.181	15559	25.898	435121				
	28.277	297181	26.189	23337				
	31.411	4208	28.277	198714				
	33.366	6488	31.403	3162				
	33.384	7158	33.366	9048				
	33.939	3009	33.937	2009				
	37.842	95719	37.794	1217				
			37.852	20810				
			37.877	11006				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3011114"		"M3011114"			"M3011114"		"M3011114"		"M3011114"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.034	651284	20.034	389345		17.016	277218	17.015	274452	
22.016	1165	25.897	266000		17.455	42248	17.454	34392	
25.898	435121	26.181	15559		20.034	209160	20.034	68435	
26.189	23337	28.277	297181		20.972	6887	20.972	6843	
28.277	198714	31.411	4208		21.607	4630	21.611	4635	
31.403	3162	33.366	6488		25.900	210639	25.894	69452	
33.366	9048	33.384	7158		26.181	10112	26.207	1030	
33.937	2009	33.939	3009		27.190	12415	27.177	2114	
37.794	1217	37.842	95719		28.282	30525	27.200	3306	
37.852	20810						28.262	3633	
37.877	11006								

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011114"		"M3011114"					"M3011114"		"M3011114"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.278	788352	28.278	770160				25.740	1025	26.186	366037	
28.410	2390	28.524	1231				26.184	449798	27.515	1702	
31.404	7764	31.407	7617				27.512	2081	28.275	11904	
33.385	12010	33.385	13308				28.264	8276	28.823	4041	
37.852	298131	37.855	131393				28.287	7609	29.208	1488	
38.335	1711	37.890	24890				28.825	5157	33.379	98062	
42.591	3829	42.630	7016				29.214	1710	37.852	1312	
42.619	4277	42.659	2536				33.378	218260	42.634	20354	
42.648	4627						33.819	1101			
							34.671	1270			
							37.831	4429			
							37.864	8234			
							42.627	64138			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3011114"		"M3011114"			"M3011114"			"M3011114"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
25.740	1025	26.186	366037		17.455	325917		32.915	1227
26.184	449798	27.515	1702		20.032	15445		33.376	704235
27.512	2081	28.275	11904		24.108	3082		33.508	1364
28.264	8276	28.823	4041		25.895	28564		33.543	1100
28.287	7609	29.208	1488		26.182	208980		33.815	4055
28.825	5157	33.379	98062		27.195	453068		34.682	3070
29.214	1710	37.852	1312		27.381	2294		37.818	3687
33.378	218260	42.634	20354		27.515	2284		37.857	9276
33.819	1101				28.255	3470		41.331	1240
34.671	1270				28.272	5165		42.594	68716
37.831	4429				28.298	4696		42.631	233416
37.864	8234				28.830	2865		42.694	4032
42.627	64138				33.355	13164			
					33.381	36111			
					37.835	2983			
					37.880	1987			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3011114"								"M3011114"		"M3011114"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
32.917	1437							28.278	788352	28.278	770160		
33.379	797648							28.410	2390	28.524	1231		
33.518	2740							31.404	7764	31.407	7617		
33.587	1057							33.385	12010	33.385	13308		
33.828	5272							37.852	298131	37.855	131393		
34.679	3280							38.335	1711	37.890	24890		
37.837	9662							42.591	3829	42.630	7016		
37.876	4099							42.619	4277	42.659	2536		
42.639	212779							42.648	4627				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3011114"		"M3011114"			"M3011114"		"M3011114"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.278	788352	28.278	770160		20.034	389345	20.034	651284	
28.410	2390	28.524	1231		25.897	266000	22.016	1165	
31.404	7764	31.407	7617		26.181	15559	25.898	435121	
33.385	12010	33.385	13308		28.277	297181	26.189	23337	
37.852	298131	37.855	131393		31.411	4208	28.277	198714	
38.335	1711	37.890	24890		33.366	6488	31.403	3162	
42.591	3829	42.630	7016		33.384	7158	33.366	9048	
42.619	4277	42.659	2536		33.939	3009	33.937	2009	
42.648	4627				37.842	95719	37.794	1217	
							37.852	20810	
							37.877	11006	

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3011114"		"M3011114"			"M3011114"		"M3011114"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.849	1063463	37.849	795920		32.915	1227	32.917	1437			
38.047	1041	38.326	6535		33.376	704235	33.379	797648			
38.122	1134				33.508	1364	33.518	2740			
38.328	8711				33.543	1100	33.587	1057			
42.638	8720				33.815	4055	33.828	5272			
					34.682	3070	34.679	3280			
					37.818	3687	37.837	9662			
					37.857	9276	37.876	4099			
					41.331	1240	42.639	212779			
					42.594	68716					
					42.631	233416					
					42.694	4032					

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3011114"		"M3011114"				"M3011114"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
32.917	1437	32.915	1227				25.740	1025	
33.379	797648	33.376	704235				26.184	449798	
33.518	2740	33.508	1364				27.512	2081	
33.587	1057	33.543	1100				28.264	8276	
33.828	5272	33.815	4055				28.287	7609	
34.679	3280	34.682	3070				28.825	5157	
37.837	9662	37.818	3687				29.214	1710	
37.876	4099	37.857	9276				33.378	218260	
42.639	212779	41.331	1240				33.819	1101	
		42.594	68716				34.671	1270	
		42.631	233416				37.831	4429	
		42.694	4032				37.864	8234	
							42.627	64138	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3011114"		"M3011114"		
m/z 464		m/z 466		m/z 425
37.849	1063463	37.849	795920	
38.047	1041	38.326	6535	
38.122	1134			
38.328	8711			
42.638	8720			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3011114"		"M3011114"				"M3011114"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.849	1063463	37.849	795920			28.278	788352
38.047	1041	38.326	6535			28.410	2390
38.122	1134					31.404	7764
38.328	8711					33.385	12010
42.638	8720					37.852	298131
						38.335	1711
						42.591	3829
						42.619	4277
						42.648	4627

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3011114"		"M3011114"				"M3011114"		"M3011114"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
33.381	1424	42.631	1122407			32.915	1227	32.917	1437
42.632	1285779	42.755	1736			33.376	704235	33.379	797648
43.169	1149	42.884	1097			33.508	1364	33.518	2740
						33.543	1100	33.587	1057
						33.815	4055	33.828	5272
						34.682	3070	34.679	3280
						37.818	3687	37.837	9662
						37.857	9276	37.876	4099
						41.331	1240	42.639	212779
						42.594	68716		
						42.631	233416		
						42.694	4032		

Extracted Ion Current Profiles

TCMX				TCMX	chrysene - d_{12}	Chrysene-d12				phenanthrene - d_{10}	Phenanthrene-d10			
"M3011114"		"M3011114"				"M3011114"		"M3011114"			"M3011114"		"M3011114"	
m/z 244		m/z 242				m/z 240		m/z 241			m/z 188		m/z 189	
11.942	56486	11.942	42829	424	240	28.272	4503	11.941	3410	188	9.544	335933	9.545	49077
		28.255	1797	426	241	33.392	1958	17.449	1458	189	13.423	11651	13.427	9455
		28.290	1582	428		34.235	234573	28.283	4603		15.776	230852	15.777	36608
		33.382	2402	430		34.415	1003	33.388	7130		16.155	2162	17.018	7585
		34.228	2968	498		34.439	1025	34.235	48660		17.013	46639		
		34.259	2004	500		34.474	1027	37.851	1328		20.977	1198		
						37.834	2794							

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	37.869	1364	37.872	1002
512	42.616	1408565	42.615	1179749
	42.860	1185	42.781	1008

7B
EPA 680 Continuing Calibration Data

Pace Analytical Services, Inc.

SDG No.: 12010053

Instrument ID:	GCMS03	Calibration Date:	1/11/2012	Time:	21:21
Lab File ID:	M3011117	Start Cal Date:	8/16/2011	Time:	11:44
Client ID:	CCV3-0111C	End Cal Date:	8/16/2011	Time:	16:39
GC Column:	DB-XLB				

NEA File ID: S:\Lab Data\GCMS-SV\EPA-680\TRC_LRF12010053a\[CCV3-0111C.xls]Sheet1

COMPOUND	Average RRF	CCV RRF	MIN RRF	%D	MAX %D
1 CI1	1.120	1.228	0.005	9.64	20
$ 2 Tetrachloro-m-xylene	0.204	0.198	0.005	-2.83	20
3 CI2	1.103	1.146	0.005	3.92	20
5 CI3	0.939	0.962	0.005	2.50	20
6 CI4	0.775	0.737	0.005	-4.96	20
8 CI5	0.778	0.741	0.005	-4.72	20
9 CI6	0.796	0.810	0.005	1.72	20
11 CI7	0.943	0.926	0.005	-1.76	20
13 CI8	1.020	0.951	0.005	-6.85	20
17 CI10	1.029	0.901	0.005	-12.4	20
$ 13C-DCBP	1.017	0.966	0.005	-5.00	20

FORM VII-CLP-EPA 680-1

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011117.d
Lab Smp Id: CCV3-0111C Client Smp ID: CCV3-0111C
Inj Date : 11-JAN-2012 21:21
Operator : RMS Inst ID: GCMS03.i
Smp Info : CCV3-0111C
Misc Info : RS M3011117
Comment :
Method : \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\680low.m
Meth Date : 12-Jan-2012 07:49 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 16:39 Cal File: M3081609.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.14
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.784	15.808	(1.000)	218280	0.80000	
* 13 Chrysene-d12	240	34.245	34.283	(1.000)	220741	0.80000	
1 Cl1	188	9.554	9.564	(0.279)	336601	1.00000	1.07
$ 2 Tetrachloro-m-xylene	244	11.944	11.972	(0.349)	55339	1.00000	0.960
3 Cl2	222	13.432	13.457	(0.392)	311005	1.00000	1.05
5 Cl3	256	17.026	17.040	(0.497)	264518	1.00000	1.01
6 Cl4	292	17.463	17.488	(0.510)	402009	2.00000	1.89
7 RTstd-BZ-104	326	20.038	20.073	(0.585)	615434	2.00000	1.96
8 Cl5	326	25.908	25.931	(0.757)	410184	2.00000	1.90
9 Cl6	360	26.195	26.230	(0.765)	451951	2.00000	2.01
10 RTstd-BZ-77	292	27.199	27.228	(0.794)	599908	2.00000	2.04
11 Cl7	394	28.277	28.313	(0.826)	782939	3.00000	2.93
12 Cl8	430	33.382	33.407	(0.975)	776077	3.00000	2.79
14 RTstd-BZ-208	464	37.853	37.889	(1.105)	989016	4.00000	3.69
15 Cl10	498	42.632	42.658	(1.245)	1229719	5.00000	4.27
$ 16 Decachloro-13C12-Biphenyl	510	42.620	42.646	(1.245)	1324497	5.00000	4.65

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011117.d

Date : 11-JAN-2012 21:21

Client ID: CCV3-0111C

Instrument: GCMS03.i

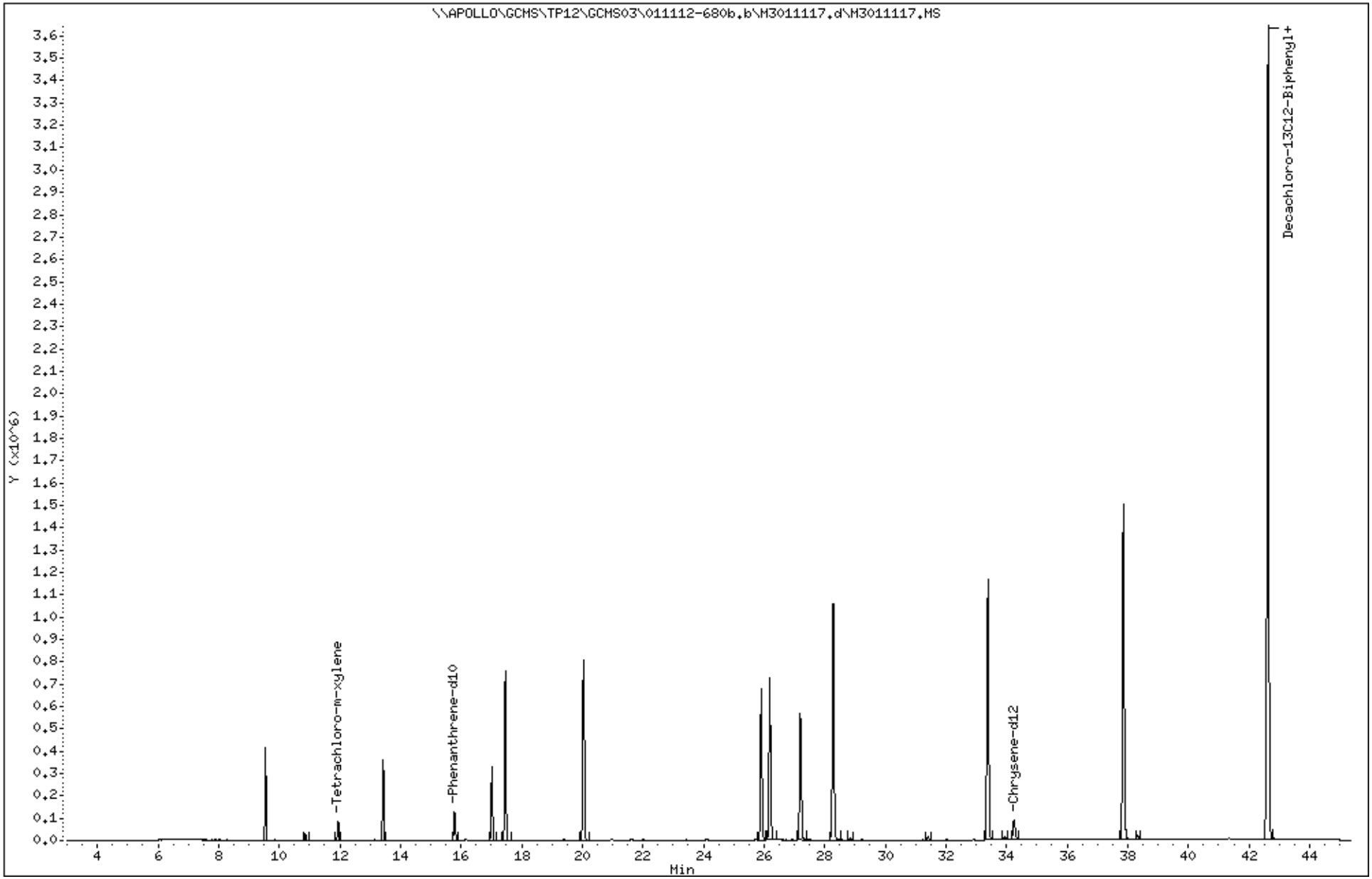
Sample Info: CCV3-0111C

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	CCV3-0111C
Matrix:	Standard	Lab Sample ID:	CCV3-0111C
Sample weight:	1	Date Received:	N/A
% Moisture	0 %	Date Extracted:	N/A
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	21:21

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
9.551	339381	9.551	111594	3.0	1.1199	0.000920	0.0100	1.10	
				Mono Total:		0.000920	0.0100	1.10	

Dichlorobiphenyls									
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
13.432	316727	13.432	206489	1.5	1.1027	0.000600	0.0100	1.04	
				Di Total:		0.000600	0.0100	1.04	

Trichlorobiphenyls									
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.021	266020	17.022	267663	1.0	0.9390	0.00116	0.0100	1.03	
				Tri Total:		0.00116	0.0100	1.03	

Tetrachlorobiphenyls									
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.463	407306	17.463	315355	1.3	0.7752	0.000680	0.0200	1.90	
				Tetra Total:		0.000680	0.0200	1.90	

Pentachlorobiphenyls									
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
25.907	409522	25.907	253390	1.6	0.7775	0.00120	0.0200	1.91	
				Penta Total:		0.00120	0.0200	1.91	

Hexachlorobiphenyls									
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
26.194	447672	26.192	355108	1.3	0.7961	0.00120	0.0200	2.03	
				Hexa Total:		0.00120	0.0200	2.03	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
28.284	768188	28.285	750105	1.0	0.9430	0.00188	0.0300	2.95	
				Hepta Total:		0.00188	0.0300	2.95	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
33.387	788219	33.384	672497	1.2	1.0205	0.00184	0.0300	2.79	
				Octa Total:		0.00184	0.0300	2.79	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
				Nona Total:		0.00420	0.0500	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
42.635	1245757	42.635	1095178	1.1	1.0294	0.00420	0.0500	4.38	
				Deca Total:		0.00420	0.0500	4.38	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.948	54815	11.948	42847	1.3	0.2041		0.972	
				TCMX Total:			0.972	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.621	1335319	42.618	1127270	1.2	1.0171		4.75	
				Deca Total:			4.75	

TCMX Recovery % 97.2 %

Deca Recovery 95.0 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.244	221117	34.243	40360	5.5	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011117"		"M3011117"		"M3011117"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.551	339381	9.551	111594				
13.432	9746	13.428	1774				
15.784	221299	15.776	3116				
16.163	1572						
17.020	44053						
17.464	2643						
20.983	1257						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011117"		"M3011117"		"M3011117"						"M3011117"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.138	2032	13.144	1276							9.551	339381
13.432	316727	13.432	206489							13.432	9746
17.024	9299	17.025	2570							15.784	221299
17.465	174243	17.455	15079							16.163	1572
20.029	2868	17.472	15972							17.020	44053
20.051	4151	27.202	24895							17.464	2643
24.117	1151									20.983	1257
25.913	7642										
26.185	4981										
26.208	4400										
27.202	136083										
27.311	1361										

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011117"		"M3011117"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.021	266020	17.022	267663		
17.456	37390	17.459	32954		
20.043	202227	20.047	65863		
20.977	6423	20.982	6645		
21.621	4686	21.618	4464		
25.908	204102	25.907	68982		
26.183	5128	26.201	1521		
26.206	4702	27.187	2573		
27.202	12018	27.212	2924		
28.270	11813	28.297	4245		
28.287	17052				
37.844	1460				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011117"		"M3011117"				"M3011117"		"M3011117"		"M3011117"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.021	266020	17.022	267663			9.551	339381	20.042	380842	20.041	614723
17.456	37390	17.459	32954			13.432	9746	25.907	253390	22.016	1217
20.043	202227	20.047	65863			15.784	221299	26.186	8691	25.907	409522
20.977	6423	20.982	6645			16.163	1572	26.208	7127	26.046	1023
21.621	4686	21.618	4464			17.020	44053	28.281	291251	26.187	21365
25.908	204102	25.907	68982			17.464	2643	31.406	4381	28.284	195722
26.183	5128	26.201	1521			20.983	1257	33.381	15449	31.396	1206
26.206	4702	27.187	2573					33.938	2847	31.416	1700
27.202	12018	27.212	2924					37.860	90921	33.393	7424
28.270	11813	28.297	4245							33.947	2107
28.287	17052									37.856	33279
37.844	1460										

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3011117"		"M3011117"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.463	315355	17.463	407306				
				20.045	14383	20.056	15169				
				24.112	3399	24.114	4503				
				25.903	28508	25.911	31296				
				26.193	209470	26.193	104966				
				27.202	439542	27.200	596723				
				27.499	1151	27.399	1207				
				27.522	1710	27.435	1038				
				28.278	10050	27.485	1503				
				28.314	3841	28.267	2805				
				28.831	2731	28.298	1727				
				33.391	52522	28.826	1777				
				37.855	6704	33.374	12783				
						37.857	2238				

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011117"		"M3011117"			"M3011117"		"M3011117"		"M3011117"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.463	407306	17.463	315355		13.138	2032	25.745	1014	26.192	355108	
20.056	15169	20.045	14383		13.432	316727	26.194	447672	27.520	1622	
24.114	4503	24.112	3399		17.024	9299	27.515	1902	28.285	11073	
25.911	31296	25.903	28508		17.465	174243	28.259	4294	28.829	4072	
26.193	104966	26.193	209470		20.029	2868	28.290	11558	29.222	1329	
27.200	596723	27.202	439542		20.051	4151	28.836	4891	33.390	94354	
27.399	1207	27.499	1151		24.117	1151	29.223	1733	37.848	3836	
27.435	1038	27.522	1710		25.913	7642	33.387	203415	37.880	2443	
27.485	1503	28.278	10050		26.185	4981	33.828	1517	42.601	5610	
28.267	2805	28.314	3841		26.208	4400	37.853	7968	42.630	7600	
28.298	1727	28.831	2731		27.202	136083	37.878	5352	42.660	4612	
28.826	1777	33.391	52522		27.311	1361	42.634	61563			
33.374	12783	37.855	6704								
37.857	2238										

Extracted Ion Current Profiles

Tetrachlorobiphenyls								
	"M3011117"		"M3011117"					
m/z 288	m/z 324		m/z 326		m/z 328		m/z 289	
	20.042	380842	20.041	614723				
	25.907	253390	22.016	1217				
	26.186	8691	25.907	409522				
	26.208	7127	26.046	1023				
	28.281	291251	26.187	21365				
	31.406	4381	28.284	195722				
	33.381	15449	31.396	1206				
	33.938	2847	31.416	1700				
	37.860	90921	33.393	7424				
			33.947	2107				
			37.856	33279				

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3011117"		"M3011117"			"M3011117"		"M3011117"		"M3011117"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.041	614723	20.042	380842		17.021	266020	17.022	267663	
22.016	1217	25.907	253390		17.456	37390	17.459	32954	
25.907	409522	26.186	8691		20.043	202227	20.047	65863	
26.046	1023	26.208	7127		20.977	6423	20.982	6645	
26.187	21365	28.281	291251		21.621	4686	21.618	4464	
28.284	195722	31.406	4381		25.908	204102	25.907	68982	
31.396	1206	33.381	15449		26.183	5128	26.201	1521	
31.416	1700	33.938	2847		26.206	4702	27.187	2573	
33.393	7424	37.860	90921		27.202	12018	27.212	2924	
33.947	2107				28.270	11813	28.297	4245	
37.856	33279				28.287	17052			
					37.844	1460			

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011117"		"M3011117"					"M3011117"		"M3011117"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.284	768188	28.285	750105				25.745	1014	26.192	355108	
31.406	7917	28.427	2879				26.194	447672	27.520	1622	
33.349	2313	31.412	7415				27.515	1902	28.285	11073	
33.376	3223	33.371	5365				28.259	4294	28.829	4072	
33.393	6315	33.397	5631				28.290	11558	29.222	1329	
37.858	280557	37.863	157597				28.836	4891	33.390	94354	
41.345	1565	41.345	1064				29.223	1733	37.848	3836	
42.608	4001	42.615	5181				33.387	203415	37.880	2443	
42.635	5944	42.660	3028				33.828	1517	42.601	5610	
42.658	6074						37.853	7968	42.630	7600	
							37.878	5352	42.660	4612	
							42.634	61563			

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3011117"		"M3011117"			"M3011117"			"M3011117"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
25.745	1014	26.192	355108		17.463	315355		33.384	672497
26.194	447672	27.520	1622		20.045	14383		33.528	1056
27.515	1902	28.285	11073		24.112	3399		33.819	2697
28.259	4294	28.829	4072		25.903	28508		34.665	1086
28.290	11558	29.222	1329		26.193	209470		34.686	1874
28.836	4891	33.390	94354		27.202	439542		37.856	7927
29.223	1733	37.848	3836		27.499	1151		42.626	148097
33.387	203415	37.880	2443		27.522	1710		42.641	164213
33.828	1517	42.601	5610		28.278	10050			
37.853	7968	42.630	7600		28.314	3841			
37.878	5352	42.660	4612		28.831	2731			
42.634	61563				33.391	52522			
					37.855	6704			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3011117"								"M3011117"		"M3011117"			
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
32.926	1237							28.284	768188	28.285	750105		
33.387	788219							31.406	7917	28.427	2879		
33.607	1245							33.349	2313	31.412	7415		
33.685	1078							33.376	3223	33.371	5365		
33.825	3416							33.393	6315	33.397	5631		
34.678	1724							37.858	280557	37.863	157597		
34.693	1580							41.345	1565	41.345	1064		
37.857	13229							42.608	4001	42.615	5181		
42.640	213144							42.635	5944	42.660	3028		
								42.658	6074				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3011117"		"M3011117"			"M3011117"		"M3011117"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.284	768188	28.285	750105		20.042	380842	20.041	614723	
31.406	7917	28.427	2879		25.907	253390	22.016	1217	
33.349	2313	31.412	7415		26.186	8691	25.907	409522	
33.376	3223	33.371	5365		26.208	7127	26.046	1023	
33.393	6315	33.397	5631		28.281	291251	26.187	21365	
37.858	280557	37.863	157597		31.406	4381	28.284	195722	
41.345	1565	41.345	1064		33.381	15449	31.396	1206	
42.608	4001	42.615	5181		33.938	2847	31.416	1700	
42.635	5944	42.660	3028		37.860	90921	33.393	7424	
42.658	6074						33.947	2107	
							37.856	33279	

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3011117"		"M3011117"			"M3011117"		"M3011117"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.858	1001789	37.863	766696		33.384	672497	32.926	1237			
38.006	1449	38.330	6371		33.528	1056	33.387	788219			
38.334	7918	42.592	3472		33.819	2697	33.607	1245			
42.595	1795	42.640	8329		34.665	1086	33.685	1078			
42.620	3017				34.686	1874	33.825	3416			
42.652	6295				37.856	7927	34.678	1724			
					42.626	148097	34.693	1580			
					42.641	164213	37.857	13229			
							42.640	213144			

Extracted Ion Current Profiles

Octachlorobiphenyls									
"M3011117"		"M3011117"				"M3011117"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462
32.926	1237	33.384	672497				25.745	1014	
33.387	788219	33.528	1056				26.194	447672	
33.607	1245	33.819	2697				27.515	1902	
33.685	1078	34.665	1086				28.259	4294	
33.825	3416	34.686	1874				28.290	11558	
34.678	1724	37.856	7927				28.836	4891	
34.693	1580	42.626	148097				29.223	1733	
37.857	13229	42.641	164213				33.387	203415	
42.640	213144						33.828	1517	
							37.853	7968	
							37.878	5352	
							42.634	61563	

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3011117"		"M3011117"		
m/z 464		m/z 466		m/z 425
37.858	1001789	37.863	766696	
38.006	1449	38.330	6371	
38.334	7918	42.592	3472	
42.595	1795	42.640	8329	
42.620	3017			
42.652	6295			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3011117"		"M3011117"				"M3011117"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.858	1001789	37.863	766696			28.284	768188
38.006	1449	38.330	6371			31.406	7917
38.334	7918	42.592	3472			33.349	2313
42.595	1795	42.640	8329			33.376	3223
42.620	3017					33.393	6315
42.652	6295					37.858	280557
						41.345	1565
						42.608	4001
						42.635	5944
						42.658	6074

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3011117"		"M3011117"				"M3011117"		"M3011117"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
42.635	1245757	42.635	1095178			33.384	672497	32.926	1237
42.829	1109					33.528	1056	33.387	788219
						33.819	2697	33.607	1245
						34.665	1086	33.685	1078
						34.686	1874	33.825	3416
						37.856	7927	34.678	1724
						42.626	148097	34.693	1580
						42.641	164213	37.857	13229
								42.640	213144

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011117"		"M3011117"				"M3011117"		"M3011117"			"M3011117"		"M3011117"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.948	54815	11.948	42847	424	240	28.250	1235	11.947	3326	188	9.551	339381	9.552	48307
32.034	2048	28.280	3095	426	241	28.280	1489	17.466	1110	189	13.432	9746	13.435	9831
		28.299	1801	428		28.302	1987	28.251	1008		15.784	221299	15.783	34987
		34.235	2546	430		33.389	1537	28.300	2657		16.163	1572	17.019	6791
		34.258	1942	498		34.244	221117	33.385	6545		17.020	44053		
				500		34.428	1371	34.243	40360		17.464	2643		
						37.857	1776	37.857	2950		20.983	1257		
						37.878	2627							

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	33.392	1428	42.618	1127270
512	42.621	1335319		
	42.726	1119		
	42.776	1053		
	42.814	1655		
	42.974	1460		

7B
EPA 680 Continuing Calibration Data

Pace Analytical Services, Inc.

SDG No.: 12010053

Instrument ID:	GCMS03	Calibration Date:	1/12/2012	Time:	6:22
Lab File ID:	M3011128	Start Cal Date:	8/16/2011	Time:	11:44
Client ID:	CCV3-0111D	End Cal Date:	8/16/2011	Time:	16:39
GC Column:	DB-XLB				

NEA File ID: S:\Lab Data\GCMS-SV\EPA-680\TRC_LRF12010053a\[CCV3-0111C.xls]Sheet1

COMPOUND	Average RRF	CCV RRF	MIN RRF	%D	MAX %D
1 CI1	1.120	1.196	0.005	6.83	20
$ 2 Tetrachloro-m-xylene	0.204	0.193	0.005	-5.27	20
3 CI2	1.103	1.123	0.005	1.80	20
5 CI3	0.939	0.947	0.005	0.81	20
6 CI4	0.775	0.735	0.005	-5.17	20
8 CI5	0.778	0.764	0.005	-1.76	20
9 CI6	0.796	0.800	0.005	0.53	20
11 CI7	0.943	0.921	0.005	-2.35	20
13 CI8	1.020	0.944	0.005	-7.54	20
17 CI10	1.029	0.920	0.005	-10.6	20
$ 13C-DCBP	1.017	0.980	0.005	-3.68	20

FORM VII-CLP-EPA 680-1

Pace Analytical - NY Lab

PCB Report EPA 680

Data file : \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011128.d
Lab Smp Id: CCV3-0111D Client Smp ID: CCV3-0111D
Inj Date : 12-JAN-2012 06:22
Operator : RMS Inst ID: GCMS03.i
Smp Info : CCV3-0111D
Misc Info : RS M3011128
Comment   :
Method   : \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\680low.m
Meth Date : 12-Jan-2012 07:49 roys Quant Type: ISTD
Cal Date : 16-AUG-2011 16:39 Cal File: M3081609.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000 Sample Compound Amounts Loaded
Integrator: HP RTE Compound Sublist: EPA680.sub
Target Version: 4.14
Processing Host: NEA88

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/uL)	AMOUNTS ON-COL (ng/uL)
* 4 Phenanthrene-d10	188	15.808	15.808	(1.000)	213145	0.80000	
* 13 Chrysene-d12	240	34.283	34.283	(1.000)	216139	0.80000	
1 Cl1	188	9.564	9.564	(0.279)	327337	1.00000	1.06
$ 2 Tetrachloro-m-xylene	244	11.972	11.972	(0.349)	54632	1.00000	0.968
3 Cl2	222	13.457	13.457	(0.393)	306017	1.00000	1.05
5 Cl3	256	17.040	17.040	(0.497)	263556	1.00000	1.02
6 Cl4	292	17.488	17.488	(0.510)	403673	2.00000	1.94
7 RTstd-BZ-104	326	20.073	20.073	(0.586)	629412	2.00000	2.04
8 Cl5	326	25.931	25.931	(0.756)	431487	2.00000	2.04
9 Cl6	360	26.230	26.230	(0.765)	449358	2.00000	2.04
10 RTstd-BZ-77	292	27.228	27.228	(0.794)	615368	2.00000	2.14
11 Cl7	394	28.313	28.313	(0.826)	790710	3.00000	3.02
12 Cl8	430	33.407	33.407	(0.974)	776527	3.00000	2.85
14 RTstd-BZ-208	464	37.889	37.889	(1.105)	1016671	4.00000	3.87
15 Cl10	498	42.658	42.658	(1.244)	1288471	5.00000	4.57
$ 16 Decachloro-13C12-Biphenyl	510	42.646	42.646	(1.244)	1371591	5.00000	4.92

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011128.d

Date : 12-JAN-2012 06:22

Client ID: CCV3-0111D

Instrument: GCMS03.i

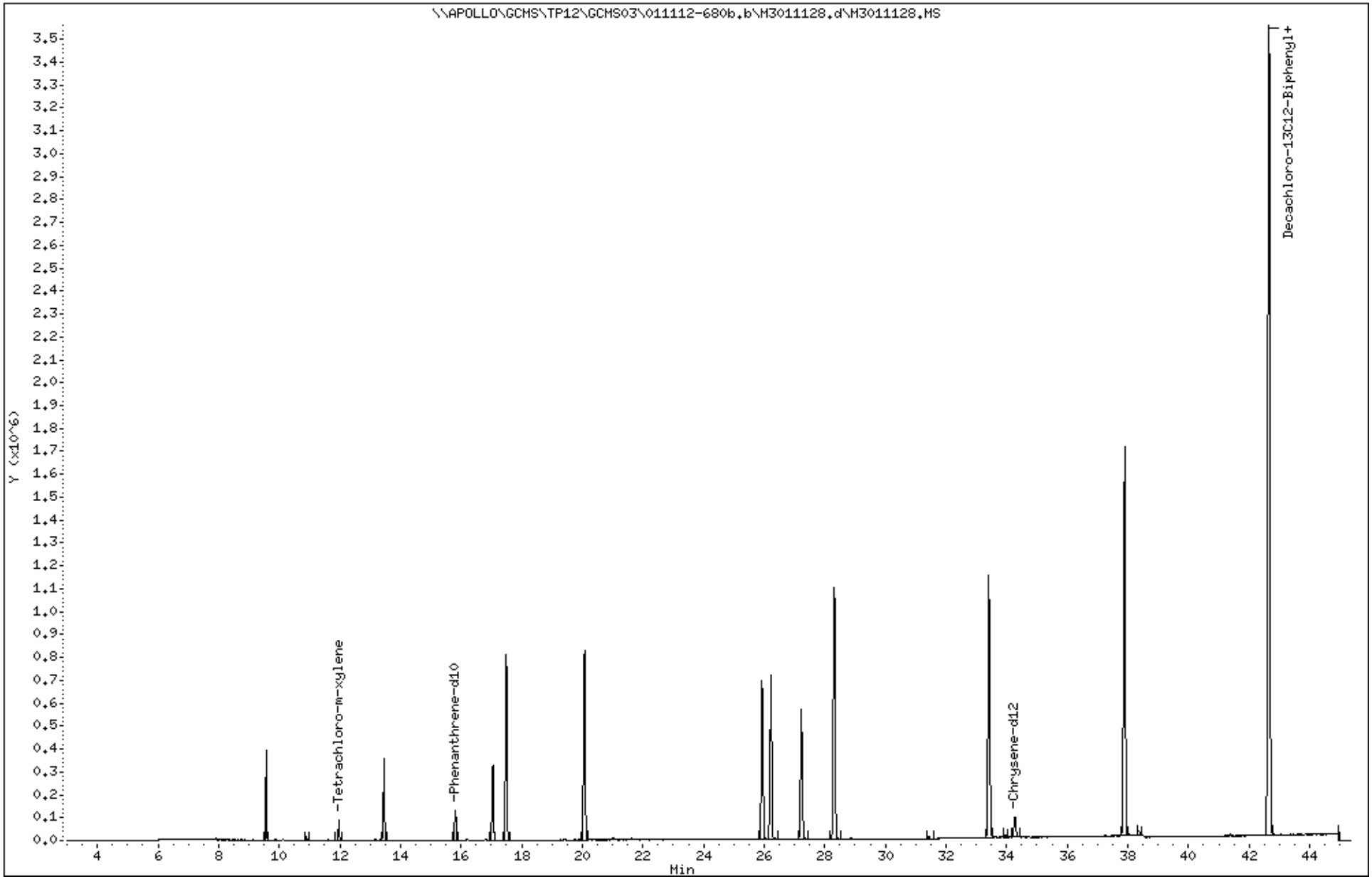
Sample Info: CCV3-0111D

Volume Injected (uL): 2.0

Operator: RMS

Column phase: DBXLB

Column diameter: 0.25



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	CCV3-0111D
Matrix:	Standard	Lab Sample ID:	CCV3-0111D
Sample weight:	1	Date Received:	N/A
% Moisture	0 %	Date Extracted:	N/A
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/12/2012
Dilution Factor:	1	Time Analyzed:	6:22

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
9.568	334589	9.571	116270	2.9	1.1199	0.000920	0.0100	1.07	
				Mono Total:		0.000920	0.0100	1.07	

Dichlorobiphenyls									
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
13.457	313936	13.457	210956	1.5	1.1027	0.000600	0.0100	1.02	
				Di Total:		0.000600	0.0100	1.02	

Trichlorobiphenyls									
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.045	264704	17.047	266652	1.0	0.9390	0.00116	0.0100	1.01	
				Tri Total:		0.00116	0.0100	1.01	

Tetrachlorobiphenyls									
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
17.491	411165	17.490	318960	1.3	0.7752	0.000680	0.0200	1.90	
				Tetra Total:		0.000680	0.0200	1.90	

Pentachlorobiphenyls									
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
25.934	427217	25.934	260038	1.6	0.7775	0.00120	0.0200	1.96	
				Penta Total:		0.00120	0.0200	1.96	

Hexachlorobiphenyls									
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
26.226	447608	26.222	371077	1.2	0.7961	0.00120	0.0200	2.01	
				Hexa Total:		0.00120	0.0200	2.01	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
28.312	772562	28.316	768107	1.0	0.9430	0.00188	0.0300	2.93	
				Hepta Total:		0.00188	0.0300	2.93	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
33.413	791573	33.412	693719	1.1	1.0205	0.00184	0.0300	2.77	
				Octa Total:		0.00184	0.0300	2.77	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
				Nona Total:		0.00420	0.0500	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug/mL	Reporting Limit ug/mL	Report Amount ug/mL	Flag
42.666	1286331	42.667	1139228	1.1	1.0294	0.00420	0.0500	4.47	
				Deca Total:		0.00420	0.0500	4.47	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.971	54067	11.972	42280	1.3	0.2041		0.947	
				TCMX Total:			0.947	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.647	1369877	42.647	1180878	1.2	1.0171		4.82	
				Deca Total:			4.82	

TCMX Recovery % 94.7 %

Deca Recovery 96.3 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.278	223723	34.274	45769	4.9	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011128"		"M3011128"		"M3011128"			
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.568	334589	9.571	116270				
13.456	10301	13.463	1481				
15.810	214040	15.808	3251				
16.184	2233						
17.048	46508						
17.477	1841						
17.501	1471						
21.006	1414						
27.214	1172						
27.244	1813						

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011128"		"M3011128"		"M3011128"						"M3011128"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.165	1950	13.165	1300							9.568	334589
13.457	313936	13.457	210956							13.456	10301
17.041	9288	17.051	2857							15.810	214040
17.490	178074	17.489	31180							16.184	2233
20.066	6358	27.223	23828							17.048	46508
24.144	1218									17.477	1841
25.929	5166									17.501	1471
25.956	2896									21.006	1414
26.222	8966									27.214	1172
27.233	140017									27.244	1813

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011128"		"M3011128"			
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.045	264704	17.047	266652		
17.489	41046	17.496	30678		
20.066	207734	20.075	71206		
21.003	6824	21.007	6684		
21.641	4470	21.642	4488		
25.934	204132	25.934	66271		
26.210	4463	26.226	1899		
26.228	4151	27.237	5847		
27.239	11711	28.311	2779		
28.308	31223				

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011128"		"M3011128"				"M3011128"		"M3011128"		"M3011128"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.045	264704	17.047	266652			9.568	334589	20.070	383522	20.070	629109
17.489	41046	17.496	30678			13.456	10301	25.934	260038	22.041	1072
20.066	207734	20.075	71206			15.810	214040	26.212	8125	25.934	427217
21.003	6824	21.007	6684			16.184	2233	26.227	9747	26.219	24716
21.641	4470	21.642	4488			17.048	46508	28.317	293828	28.313	199446
25.934	204132	25.934	66271			17.477	1841	31.445	4625	31.434	3133
26.210	4463	26.226	1899			17.501	1471	33.428	14972	33.394	3803
26.228	4151	27.237	5847			21.006	1414	33.976	2711	33.426	6265
27.239	11711	28.311	2779			27.214	1172	37.892	93017	33.973	2169
28.308	31223					27.244	1813			37.886	21795
										37.914	12328

Extracted Ion Current Profiles

Trichlorobiphenyls											
				"M3011128"		"M3011128"					
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				17.490	318960	17.491	411165				
				20.063	15015	20.070	15540				
				24.136	3643	24.145	4558				
				25.933	27460	25.923	13355				
				26.223	210292	25.941	18614				
				27.232	454478	26.219	104971				
				27.551	2283	27.228	609530				
				28.295	5025	27.467	1088				
				28.316	9951	27.553	1629				
				28.863	3106	28.281	1521				
				33.360	2194	28.309	4608				
				33.417	48542	28.350	1193				
				37.851	1174	28.860	1616				
				37.889	1588	33.410	6812				
				37.917	1784	33.432	6232				

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011128"		"M3011128"			"M3011128"		"M3011128"		"M3011128"		
m/z 292		m/z 290		m/z 220	m/z 222		m/z 360		m/z 362		
17.491	411165	17.490	318960		13.165	1950	25.769	1097	26.222	371077	
20.070	15540	20.063	15015		13.457	313936	26.226	447608	27.542	1736	
24.145	4558	24.136	3643		17.041	9288	27.545	2127	28.282	2290	
25.923	13355	25.933	27460		17.490	178074	28.301	7861	28.313	7870	
25.941	18614	26.223	210292		20.066	6358	28.326	6233	28.863	4387	
26.219	104971	27.232	454478		24.144	1218	28.861	5252	29.240	1452	
27.228	609530	27.551	2283		25.929	5166	29.257	1152	33.419	98483	
27.467	1088	28.295	5025		25.956	2896	33.411	217840	37.885	2047	
27.553	1629	28.316	9951		26.222	8966	37.893	11259	37.916	1255	
28.281	1521	28.863	3106		27.233	140017	42.668	42220	42.632	6705	
28.309	4608	33.360	2194				42.696	13045	42.663	13910	
28.350	1193	33.417	48542								
28.860	1616	37.851	1174								
33.410	6812	37.889	1588								
33.432	6232	37.917	1784								

Extracted Ion Current Profiles

Tetrachlorobiphenyls						
	"M3011128"		"M3011128"			
m/z 288	m/z 324		m/z 326		m/z 328	m/z 289
	20.070	383522	20.070	629109		
	25.934	260038	22.041	1072		
	26.212	8125	25.934	427217		
	26.227	9747	26.219	24716		
	28.317	293828	28.313	199446		
	31.445	4625	31.434	3133		
	33.428	14972	33.394	3803		
	33.976	2711	33.426	6265		
	37.892	93017	33.973	2169		
			37.886	21795		
			37.914	12328		

Extracted Ion Current Profiles

Pentachlorobiphenyls									
"M3011128"		"M3011128"			"M3011128"		"M3011128"		"M3011128"
m/z 326		m/z 324		m/z 254	m/z 256		m/z 258		m/z 392
20.070	629109	20.070	383522		17.045	264704	17.047	266652	
22.041	1072	25.934	260038		17.489	41046	17.496	30678	
25.934	427217	26.212	8125		20.066	207734	20.075	71206	
26.219	24716	26.227	9747		21.003	6824	21.007	6684	
28.313	199446	28.317	293828		21.641	4470	21.642	4488	
31.434	3133	31.445	4625		25.934	204132	25.934	66271	
33.394	3803	33.428	14972		26.210	4463	26.226	1899	
33.426	6265	33.976	2711		26.228	4151	27.237	5847	
33.973	2169	37.892	93017		27.239	11711	28.311	2779	
37.886	21795				28.308	31223			
37.914	12328								

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011128"		"M3011128"					"M3011128"		"M3011128"		
m/z 394		m/z 396		m/z 398		m/z 322	m/z 360		m/z 362		m/z 323
28.312	772562	28.316	768107				25.769	1097	26.222	371077	
28.462	1858	31.436	7836				26.226	447608	27.542	1736	
28.536	1499	33.408	6158				27.545	2127	28.282	2290	
28.601	1259	33.432	4447				28.301	7861	28.313	7870	
31.436	7972	37.891	159996				28.326	6233	28.863	4387	
33.410	12853	37.964	1621				28.861	5252	29.240	1452	
37.893	292597	38.376	1369				29.257	1152	33.419	98483	
38.369	2685	41.372	1384				33.411	217840	37.885	2047	
41.371	2538	42.659	3749				37.893	11259	37.916	1255	
42.632	7062	42.688	4538				42.668	42220	42.632	6705	
42.659	4452						42.696	13045	42.663	13910	
42.687	5312										

Extracted Ion Current Profiles

Hexachlorobiphenyls									
"M3011128"		"M3011128"			"M3011128"			"M3011128"	
m/z 360		m/z 362		m/z 288	m/z 290		m/z 426	m/z 428	
25.769	1097	26.222	371077		17.490	318960		32.956	1516
26.226	447608	27.542	1736		20.063	15015		33.412	693719
27.545	2127	28.282	2290		24.136	3643		33.558	2022
28.301	7861	28.313	7870		25.933	27460		33.866	4576
28.326	6233	28.863	4387		26.223	210292		34.721	3029
28.861	5252	29.240	1452		27.232	454478		37.880	12500
29.257	1152	33.419	98483		27.551	2283		42.665	344849
33.411	217840	37.885	2047		28.295	5025		42.745	1973
37.893	11259	37.916	1255		28.316	9951			
42.668	42220	42.632	6705		28.863	3106			
42.696	13045	42.663	13910		33.360	2194			
					33.417	48542			
					37.851	1174			
					37.889	1588			
					37.917	1784			

Extracted Ion Current Profiles

Hexachlorobiphenyls													
"M3011128"						"M3011128"		"M3011128"					
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398	m/z 357
32.960	1123							28.312	772562	28.316	768107		
33.413	791573							28.462	1858	31.436	7836		
33.528	2468							28.536	1499	33.408	6158		
33.625	1900							28.601	1259	33.432	4447		
33.851	6052							31.436	7972	37.891	159996		
34.715	3736							33.410	12853	37.964	1621		
37.881	7683							37.893	292597	38.376	1369		
37.921	2448							38.369	2685	41.372	1384		
42.667	222788							41.371	2538	42.659	3749		
42.727	5461							42.632	7062	42.688	4538		
43.622	1129							42.659	4452				
44.537	1131							42.687	5312				

Extracted Ion Current Profiles

Heptachlorobiphenyls									
"M3011128"		"M3011128"			"M3011128"		"M3011128"		
m/z 394		m/z 396		m/z 322	m/z 324		m/z 326		m/z 462
28.312	772562	28.316	768107		20.070	383522	20.070	629109	
28.462	1858	31.436	7836		25.934	260038	22.041	1072	
28.536	1499	33.408	6158		26.212	8125	25.934	427217	
28.601	1259	33.432	4447		26.227	9747	26.219	24716	
31.436	7972	37.891	159996		28.317	293828	28.313	199446	
33.410	12853	37.964	1621		31.445	4625	31.434	3133	
37.893	292597	38.376	1369		33.428	14972	33.394	3803	
38.369	2685	41.372	1384		33.976	2711	33.426	6265	
41.371	2538	42.659	3749		37.892	93017	33.973	2169	
42.632	7062	42.688	4538				37.886	21795	
42.659	4452						37.914	12328	
42.687	5312								

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3011128"		"M3011128"			"M3011128"		"M3011128"				
m/z 464		m/z 466		m/z 390	m/z 428		m/z 430		m/z 432	m/z 391	
37.892	1030730	37.891	774995		32.956	1516	32.960	1123			
37.997	2277	38.157	1434		33.412	693719	33.413	791573			
38.058	1559	38.367	6532		33.558	2022	33.528	2468			
38.129	1211	41.373	1340		33.866	4576	33.625	1900			
38.223	1170	42.650	2181		34.721	3029	33.851	6052			
38.361	7044	42.680	8999		37.880	12500	34.715	3736			
38.419	1789				42.665	344849	37.881	7683			
41.359	1340				42.745	1973	37.921	2448			
41.400	1411						42.667	222788			
42.644	4536						42.727	5461			
42.680	8422						43.622	1129			
							44.537	1131			

Extracted Ion Current Profiles

Octachlorobiphenyls											
"M3011128"		"M3011128"						"M3011128"			
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462	
32.960	1123	32.956	1516					25.769	1097		
33.413	791573	33.412	693719					26.226	447608		
33.528	2468	33.558	2022					27.545	2127		
33.625	1900	33.866	4576					28.301	7861		
33.851	6052	34.721	3029					28.326	6233		
34.715	3736	37.880	12500					28.861	5252		
37.881	7683	42.665	344849					29.257	1152		
37.921	2448	42.745	1973					33.411	217840		
42.667	222788							37.893	11259		
42.727	5461							42.668	42220		
43.622	1129							42.696	13045		
44.537	1131										

Extracted Ion Current Profiles

Octachlorobiphenyls				
"M3011128"		"M3011128"		
m/z 464		m/z 466		m/z 425
37.892	1030730	37.891	774995	
37.997	2277	38.157	1434	
38.058	1559	38.367	6532	
38.129	1211	41.373	1340	
38.223	1170	42.650	2181	
38.361	7044	42.680	8999	
38.419	1789			
41.359	1340			
41.400	1411			
42.644	4536			
42.680	8422			

Extracted Ion Current Profiles

Nonachlorobiphenyls							
"M3011128"		"M3011128"				"M3011128"	
m/z 464		m/z 466		m/z 390	m/z 392	m/z 394	
37.892	1030730	37.891	774995			28.312	772562
37.997	2277	38.157	1434			28.462	1858
38.058	1559	38.367	6532			28.536	1499
38.129	1211	41.373	1340			28.601	1259
38.223	1170	42.650	2181			31.436	7972
38.361	7044	42.680	8999			33.410	12853
38.419	1789					37.893	292597
41.359	1340					38.369	2685
41.400	1411					41.371	2538
42.644	4536					42.632	7062
42.680	8422					42.659	4452
						42.687	5312

Extracted Ion Current Profiles

Decachlorobiphenyl									
"M3011128"		"M3011128"				"M3011128"		"M3011128"	
m/z 498		m/z 500		m/z 424	m/z 426	m/z 428		m/z 430	
33.406	1179	37.920	1027			32.956	1516	32.960	1123
37.873	1559	42.667	1139228			33.412	693719	33.413	791573
42.666	1286331					33.558	2022	33.528	2468
42.841	1205					33.866	4576	33.625	1900
43.075	1035					34.721	3029	33.851	6052
43.145	1024					37.880	12500	34.715	3736
44.789	1050					42.665	344849	37.881	7683
						42.745	1973	37.921	2448
								42.667	222788
								42.727	5461
								43.622	1129
								44.537	1131

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011128"		"M3011128"				"M3011128"		"M3011128"			"M3011128"		"M3011128"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.971	54067	11.972	42280	424	240	28.300	2858	11.970	3684	188	9.568	334589	9.569	47379
32.069	1833	28.300	2033	426	241	28.326	2963	17.500	1956	189	13.456	10301	13.458	9523
		34.271	1982	428		33.426	1799	28.311	1886		15.810	214040	15.808	33750
				430		34.278	223723	33.399	2685		16.184	2233	17.041	7087
				498		34.499	1154	33.423	5409		17.048	46508		
				500		34.573	1266	34.274	45769		17.477	1841		
						37.884	3563	37.893	3648		17.501	1471		
											21.006	1414		
											27.214	1172		
											27.244	1813		

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.647	1369877	42.647	1180878
512	42.777	2189	42.846	1249
	43.644	1011	42.954	1058

QC Sample Raw Data

Quality Control Results
Method Blank

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: Method Blank (AP00226B)
Lab Sample ID: SBLK-60

Collection Date: N/A
Sample Matrix: POLYURETHANE FOAM
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-313-6	PCBs by EPA Method TO-10A/680	01/11/2012 11:26	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16874	EPA 3540C	01/05/2012 15:30	HAG	0.00m³	1.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00500	1.00	U	MS03-313-6
Dichlorobiphenyl	25512-42-9	ND	0.00500	1.00	U	MS03-313-6
Trichlorobiphenyl	25323-68-6	ND	0.00500	1.00	U	MS03-313-6
Tetrachlorobiphenyl	26914-33-0	ND	0.0100	1.00	U	MS03-313-6
Pentachlorobiphenyl	25429-29-2	ND	0.0100	1.00	U	MS03-313-6
Hexachlorobiphenyl	26601-64-9	ND	0.0100	1.00	U	MS03-313-6
Heptachlorobiphenyl	28655-71-2	ND	0.0150	1.00	U	MS03-313-6
Octachlorobiphenyl	55722-26-4	ND	0.0150	1.00	U	MS03-313-6
Nonachlorobiphenyl	53742-07-7	ND	0.0250	1.00	U	MS03-313-6
Decachlorobiphenyl	2051-24-3	ND	0.0250	1.00	U	MS03-313-6
Total PCB	1336-36-3	ND		1.00	U	MS03-313-6

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	64.3	70.1-116	*	MS03-313-6
Tetrachloro-meta-xylene	877-09-8	75.8	44.4-104		MS03-313-6

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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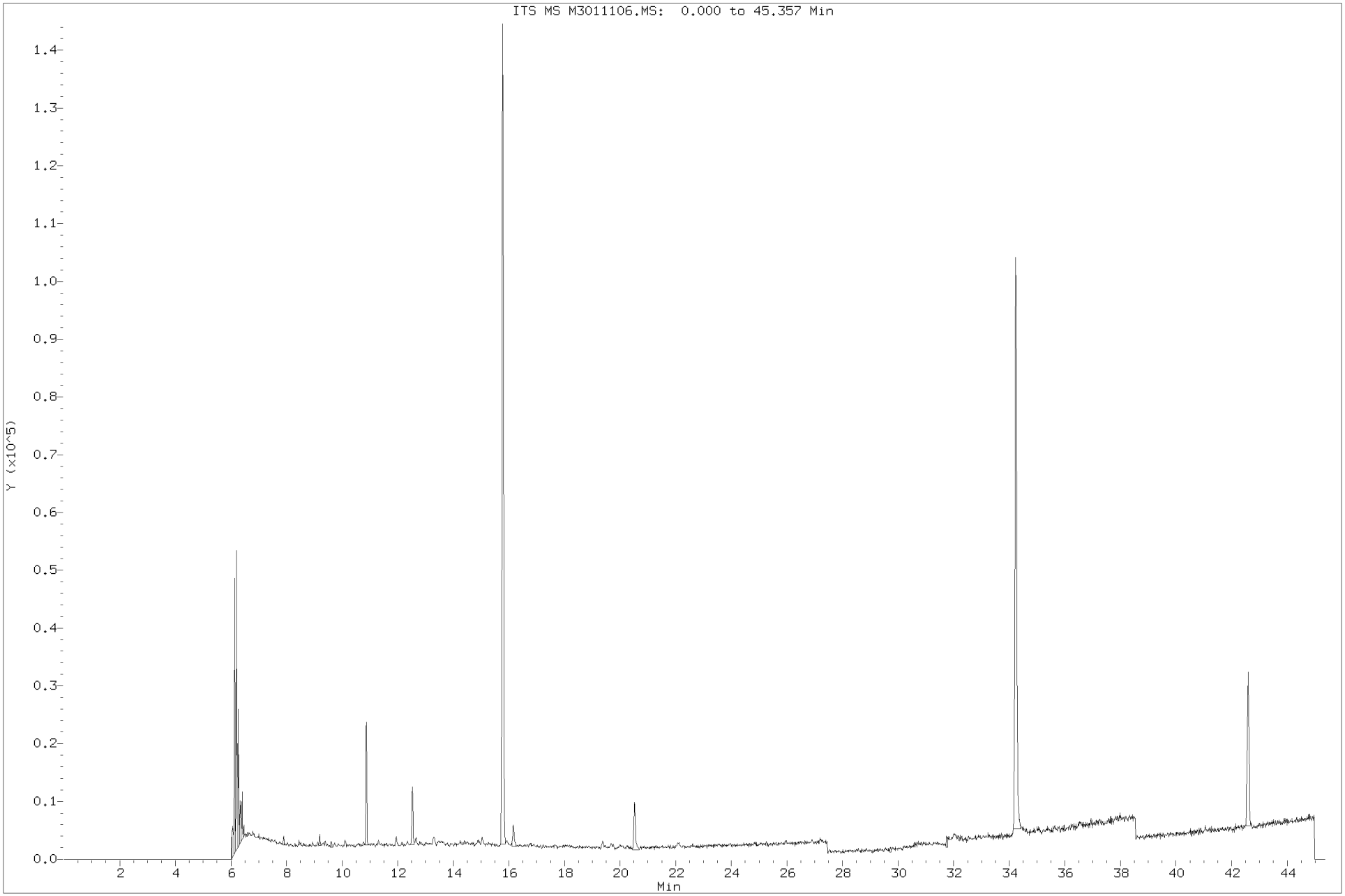
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011106.d/M3011106.MS
Injection Date: 11-JAN-2012 11:26
Instrument: GCMS03.i
Client Sample ID: AP00226BLANK



Form 1
PCB Homolog Report
Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	Method Blank
Matrix:	TO-10A PUF	Lab Sample ID:	AP00226B
Sample weight:	NA	Date Received:	N/A
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	11:26

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls								
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Mono Total:		0.00500	0.00500	ND	

Dichlorobiphenyls								
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Di Total:		0.00500	0.00500	ND	

Trichlorobiphenyls								
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Tri Total:		0.00500	0.00500	ND	

Tetrachlorobiphenyls								
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Tetra Total:		0.0100	0.0100	ND	

Pentachlorobiphenyls								
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Penta Total:		0.0100	0.0100	ND	

Hexachlorobiphenyls								
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Hexa Total:		0.0100	0.0100	ND	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Hepta Total:		0.0150	0.0150	ND	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Octa Total:		0.0150	0.0150	ND	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Deca Total:		0.0250	0.0250	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.946	934	11.949	675	1.4	0.2041		0.0152	
				TCMX Total:			0.0152	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT m/z 510	Quant Ion Area	Confirm Ion RT m/z 512	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor		Solution Concentration ug/mL	Flag
42.596	19729	42.598	16307	1.2	1.0171		0.0643	
				Deca Total:			0.0643	

TCMX Recovery %	75.8 %
Deca Recovery	64.3 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT m/z 240	Quant Ion Area	Confirm Ion RT m/z 241	Confirm Ion Area	Ratio 4.3 - 5.9	Response Factor		Solution Concentration ug/mL	Flag
34.230	241368	34.230	48141	5.0	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011106"		"M3011106"		"M3011106"		"M3011106"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.777	229234	15.778	3344	6.134	4173		
16.153	2475			6.202	8456		
				6.268	2667		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011106"		"M3011106"		"M3011106"		"M3011106"		"M3011106"		"M3011106"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				6.134	4173			15.778	23417	15.777	229234
				6.202	8456			16.164	1948	16.153	2475
				6.268	2667						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011106"		"M3011106"		"M3011106"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
20.522	7921			13.297	1485

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011106"		"M3011106"		"M3011106"		"M3011106"		"M3011106"		"M3011106"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
20.522	7921			15.778	23417	15.777	229234				
				16.164	1948	16.153	2475				

Extracted Ion Current Profiles

Tetrachlorobiphenyls					
"M3011106"	"M3011106"	"M3011106"	"M3011106"	"M3011106"	"M3011106"
m/z 292	m/z 290	m/z 220	m/z 222	m/z 360	m/z 362
		9.197 1086			

Extracted Ion Current Profiles

Pentachlorobiphenyls					
"M3011106"	"M3011106"	"M3011106"	"M3011106"	"M3011106"	"M3011106"
m/z 326	m/z 324	m/z 254	m/z 256	m/z 258	m/z 392
			20.522 7921		

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011106"		"M3011106"				"M3011106"		"M3011106"			"M3011106"		"M3011106"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.946	934(M)	11.949	675	424	240	34.230	241368	34.230	48141	188	15.777	229234	15.775	36726
26.469	273	34.220	2353	426	241					189	16.153	2475		
32.019	2203	34.240	2631	428					24944(M)					
32.094	253			430										
				498										
				500										

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	42.596	19729	42.598	16307
512				

Quality Control Results
Lab Control Sample

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: Lab Control Sample (AP00226L)
Lab Sample ID: LCS-60

Collection Date: N/A
Sample Matrix: POLYURETHANE FOAM
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-313-4	PCBs by EPA Method TO-10A/680	01/11/2012 09:47	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16874	EPA 3540C	01/05/2012 15:30	HAG	0.00m³	1.00 mL	NA

Analyte Spiked	CAS No.	Added (ug)	LCS (ug)	LCS % Rec.	Q[1]	Limits (%)
Monochlorobiphenyl	27323-18-8	0.500	0.00	12.5	*	28.7-78.9
Dichlorobiphenyl	25512-42-9	0.500	0.00	14.1	*	30.8-82.6
Trichlorobiphenyl	25323-68-6	0.500	0.00	17.4	*	34.4-86.8
Tetrachlorobiphenyl	26914-33-0	1.00	0.163	16.3	*	34.6-86.9
Pentachlorobiphenyl	25429-29-2	1.00	0.212	21.2	*	37.8-91.9
Hexachlorobiphenyl	26601-64-9	1.00	0.221	22.1	*	40.9-94.8
Heptachlorobiphenyl	28655-71-2	1.50	0.322	21.4	*	41.7-98.0
Octachlorobiphenyl	55722-26-4	1.50	0.325	21.7	*	43.2-102
Decachlorobiphenyl	2051-24-3	2.50	0.691	27.6	*	46.4-102

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	32.6	70.1-116	*	MS03-313-4
Tetrachloro-meta-xylene	877-09-8	25.7	44.4-104	*	MS03-313-4

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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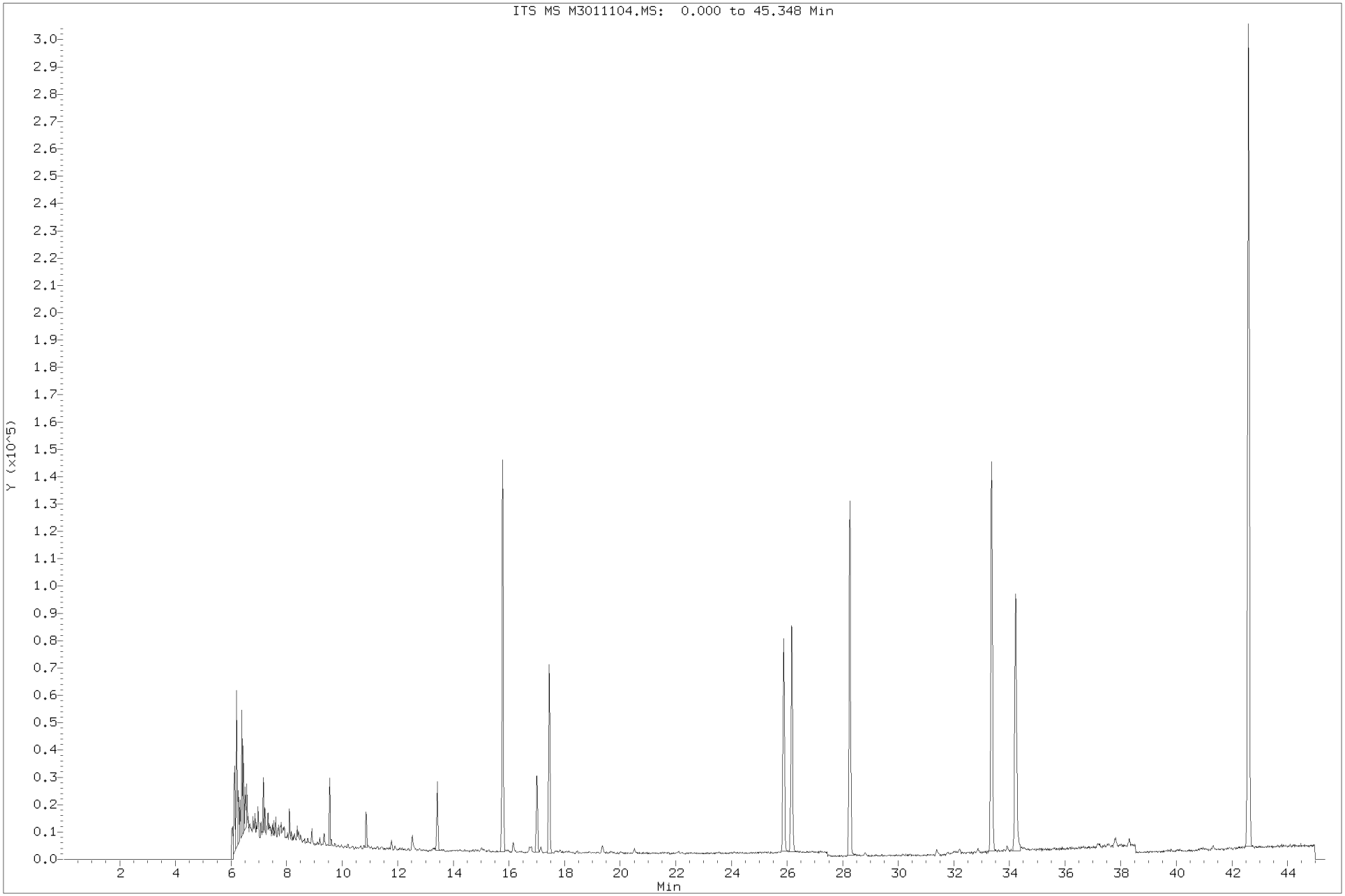
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011104.d/M3011104.MS
Injection Date: 11-JAN-2012 09:47
Instrument: GCMS03.i
Client Sample ID: AP00226LCS



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	LCS
Matrix:	TO-10A PUF	Lab Sample ID:	AP00226L
Sample volume:	N/A	Date Received:	N/A
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	9:47

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
9.550	20128	9.550	7620	2.6	1.1199	0.00500	0.00500	0.0625	
				Mono Total:		0.00500	0.00500	0.0625	

Dichlorobiphenyls									
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
13.422	22350	13.420	14873	1.5	1.1027	0.00500	0.00500	0.0705	
				Di Total:		0.00500	0.00500	0.0705	

Trichlorobiphenyls									
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
17.003	23489	17.004	22969	1.0	0.9390	0.00500	0.00500	0.0870	
				Tri Total:		0.00500	0.00500	0.0870	

Tetrachlorobiphenyls									
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
17.447	36394	17.445	27881	1.3	0.7752	0.0100	0.0100	0.163	
				Tetra Total:		0.0100	0.0100	0.163	

Pentachlorobiphenyls									
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
25.881	48619	25.884	29043	1.7	0.7775	0.0100	0.0100	0.212	
				Penta Total:		0.0100	0.0100	0.212	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug	ug	ug	
26.169	50664	26.173	41225	1.2	0.7961	0.0100	0.0100	0.221	
				Hexa Total:		0.0100	0.0100	0.221	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug	ug	ug	
28.260	87194	28.260	86438	1.0	0.9430	0.0150	0.0150	0.322	
				Hepta Total:		0.0150	0.0150	0.322	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug	ug	ug	
33.359	95447	33.357	81021	1.2	1.0205	0.0150	0.0150	0.325	
				Octa Total:		0.0150	0.0150	0.325	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug	ug	ug	
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug	ug	ug	
42.597	204552	42.598	173822	1.2	1.0294	0.0250	0.0250	0.691	
				Deca Total:		0.0250	0.0250	0.691	

Tetrachloro-meta-xylene: Surrogate Analyte									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration		Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL		
11.950	302	11.950	163	1.9	0.2041		0.00515		
				TCMX Total:			0.00515		

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.580	9536	42.585	8029	1.2	1.0171		0.0326	
				Deca Total:			0.0326	

TCMX Recovery % 25.7 %

Deca Recovery 32.6 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.220	230030	34.218	47326	4.9	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.550	20128	6.820	1214	6.047	2671	9.550	4672
11.776	1211	7.168	11656	6.130	2882	13.421	1714
13.419	1096	7.220	3595	6.198	6546		
15.769	225845	7.298	1346	6.266	3278		
16.150	2560	7.777	2296	6.331	1555		
17.001	4482	8.104	3180	6.397	3488		
		8.274	1098	6.509	1292		
		8.383	2237	6.554	1047		
		8.505	1465	7.862	1020		
		8.907	2262	9.550	8256		
		9.349	1595	13.421	11267		
		9.550	7620				
		10.207	1143				
		10.947	1121				
		11.898	1408				
		15.765	3554				

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.422	22350	13.420	14873	6.047	2671	9.550	4672	13.418	1638	9.550	20128
17.445	15909	17.451	2840	6.130	2882	13.421	1714	15.770	23661	11.776	1211
25.886	1068			6.198	6546			16.152	1782	13.419	1096
26.169	1210			6.266	3278			16.732	2032	15.769	225845
				6.331	1555			17.004	12220	16.150	2560
				6.397	3488			17.441	1243	17.001	4482
				6.509	1292			25.878	3007		
				6.554	1047						
				7.862	1020						
				9.550	8256						
				13.421	11267						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011104"		"M3011104"		"M3011104"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.003	23489	17.004	22969	6.047	1194
17.443	3467	17.443	3072	6.330	1432
25.882	24009	25.882	8178	6.403	1034
26.183	1145			6.436	1250
28.265	3766			6.710	1005
				7.001	1628
				7.079	1153
				7.850	1058
				8.497	1181
				8.619	1086
				11.048	1301
				17.010	1445
				17.449	4414
				25.885	3070
				26.163	1334

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.003	23489	17.004	22969	13.418	1638	9.550	20128	25.884	29043	25.881	48619
17.443	3467	17.443	3072	15.770	23661	11.776	1211	26.164	1328	26.163	3178
25.882	24009	25.882	8178	16.152	1782	13.419	1096	28.258	34950	28.258	22956
26.183	1145			16.732	2032	15.769	225845	33.359	2014	33.357	1145
28.265	3766			17.004	12220	16.150	2560				
				17.441	1243	17.001	4482				
				25.878	3007						

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
25.884	30650	25.879	24672	17.445	27881	17.447	36394	17.445	18068	17.445	19842
28.263	7827	26.166	2267	25.875	3492	25.881	3639	25.876	1727	25.878	3902
		28.260	10147	26.169	25391	26.173	13136	26.173	3003	26.170	3617
				28.261	1152	33.365	1475			28.247	2319
				33.358	6470					33.357	1188

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 292		m/z 290		m/z 220		m/z 222		m/z 360		m/z 362	
17.447	36394	17.445	27881	9.193	1462	13.422	22350	26.169	50664	26.173	41225
25.881	3639	25.875	3492	17.007	1308	17.445	15909	28.258	1622	33.364	12222
26.173	13136	26.169	25391	17.447	23921	25.886	1068	33.359	26285	42.608	1955
33.365	1475	28.261	1152	25.877	2649	26.169	1210	42.605	10734		
		33.358	6470	26.166	5304						

Extracted Ion Current Profiles

Tetrachlorobiphenyls									
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 288		m/z 324		m/z 326		m/z 328		m/z 289	
26.169	19416	25.884	29043	25.881	48619	25.884	30650	25.885	18561
28.248	2516	26.164	1328	26.163	3178	28.263	7827	26.166	4292
33.358	12566	28.258	34950	28.258	22956			28.261	5367
		33.359	2014	33.357	1145			33.354	2736

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 326		m/z 324		m/z 254		m/z 256		m/z 258		m/z 392	
25.881	48619	25.884	29043	25.879	24672	17.003	23489	17.004	22969	28.260	38542
26.163	3178	26.164	1328	26.166	2267	17.443	3467	17.443	3072	42.593	1810
28.258	22956	28.258	34950	28.260	10147	25.882	24009	25.882	8178	42.618	1111
33.357	1145	33.359	2014			26.183	1145				
						28.265	3766				

Extracted Ion Current Profiles

Pentachlorobiphenyls													
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 394		m/z 396		m/z 398		m/z 322		m/z 360		m/z 362		m/z 323	
28.260	87194	28.260	86438	28.260	47565	28.260	21141	26.169	50664	26.173	41225	26.172	9726
33.349	1528					33.361	2051	28.258	1622	33.364	12222	28.257	4317
42.599	2269							33.359	26285	42.608	1955	33.352	3094
								42.605	10734			33.382	1860

Extracted Ion Current Profiles

Hexachlorobiphenyls											
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 360		m/z 362		m/z 288		m/z 290		m/z 426		m/z 428	
26.169	50664	26.173	41225	26.169	19416	17.445	27881	33.357	31867	33.357	81021
28.258	1622	33.364	12222	28.248	2516	25.875	3492	42.600	45612	42.597	56104
33.359	26285	42.608	1955	33.358	12566	26.169	25391				
42.605	10734					28.261	1152				
						33.358	6470				

Extracted Ion Current Profiles

Hexachlorobiphenyls															
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
33.359	95447	33.360	61566	33.358	17072	28.260	38542	28.260	87194	28.260	86438	28.260	47565	28.241	1607
42.569	9123	42.569	3929	42.593	19864	42.593	1810	33.349	1528					28.262	2555
42.603	23452	42.604	10392	42.637	4505	42.618	1111	42.599	2269					33.366	4314
42.662	1358													42.585	2705
														42.605	3316

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 394		m/z 396		m/z 322		m/z 324		m/z 326		m/z 462	
28.260	87194	28.260	86438	28.260	21141	25.884	29043	25.881	48619	37.819	1368
33.349	1528			33.361	2051	26.164	1328	26.163	3178	42.603	1386
42.599	2269					28.258	34950	28.258	22956		
						33.359	2014	33.357	1145		

Extracted Ion Current Profiles

Heptachlorobiphenyls													
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 464		m/z 466		m/z 390		m/z 428		m/z 430		m/z 432		m/z 391	
37.819	1585	37.847	1212	42.603	1661	33.357	81021	33.359	95447	33.360	61566	33.357	2835
38.317	1285	42.584	1560			42.597	56104	42.569	9123	42.569	3929	42.594	7418
42.593	2073							42.603	23452	42.604	10392		
								42.662	1358				

Extracted Ion Current Profiles

Octachlorobiphenyls											
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462	
33.359	95447	33.357	81021	33.358	17072	26.167	26597	26.169	50664	37.819	1368
42.569	9123	42.597	56104	42.593	19864	28.255	1257	28.258	1622	42.603	1386
42.603	23452			42.637	4505	33.360	31743	33.359	26285		
42.662	1358					42.597	23032	42.605	10734		

Extracted Ion Current Profiles

Octachlorobiphenyls					
"M3011104"		"M3011104"		"M3011104"	
m/z 464		m/z 466		m/z 425	
37.819	1585	37.847	1212	42.594	5865
38.317	1285	42.584	1560		
42.593	2073				

Extracted Ion Current Profiles

Nonachlorobiphenyls									
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 464		m/z 466		m/z 390		m/z 392		m/z 394	
37.819	1585	37.847	1212	42.603	1661	28.260	38542	28.260	87194
38.317	1285	42.584	1560			42.593	1810	33.349	1528
42.593	2073					42.618	1111	42.599	2269

FALSE

Extracted Ion Current Profiles

Decachlorobiphenyl											
"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"		"M3011104"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.597	204552	42.598	173822	42.583	7448	33.357	31867	33.357	81021	33.359	95447
				42.607	7529	42.600	45612	42.597	56104	42.569	9123
				42.655	1023					42.603	23452
										42.662	1358

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011104"		"M3011104"				"M3011104"		"M3011104"			"M3011104"		"M3011104"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.950	302	28.248	313	424	240	34.220	230030	34.218	47326	188	9.550	20128	7.167	1581
16.463	353	28.273	265	426	241	34.417	1321			189	11.776	1211	7.552	2227
17.153	819	31.125	285	428							13.419	1096	7.778	4154
31.127	382	34.215	5018	430							15.769	225845	7.810	1379
32.015	2159			498							16.150	2560	7.850	1787
				500							17.001	4482	7.949	1237
													8.031	1314
													8.105	15883
													8.198	1291
													8.283	2784
													8.383	10337
													8.426	3320
													8.505	5694
													8.582	1762
													8.649	3507
													8.780	1412
													8.828	1752
													8.911	5333
													8.990	1203
													9.196	3504
													9.348	7810
													9.438	1991
													9.549	4532
													9.593	1096
													9.731	1101
													9.779	1032
													9.843	2013
													9.966	2415
													10.088	1551
													10.208	1006
													10.677	1300
													10.779	1440
													11.901	1654
													12.085	1055
													12.386	1658
													12.580	1918
													13.416	1352
													15.771	35637
													17.008	1276

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	34.233	349	42.585	8029
512	42.580	9536		

Quality Control Results
Lab Control Sample - Duplicate
Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: Lab Control Sample - Duplicate (AP00226S
Lab Sample ID: LCSD-60

Collection Date: N/A
Sample Matrix: POLYURETHANE FOAM
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-313-5	PCBs by EPA Method TO-10A/680	01/11/2012 10:37	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16874	EPA 3540C	01/05/2012 15:30	HAG	0.00m³	1.00 mL	NA

Analyte Spiked	CAS No.	Added (ug)	LCSD (ug)	LCSD % Rec.	Q[1]	Limits (%)	Precision: LCS % Rec.	Precision: RPD	Precision: Q[1]	Precision: Limits (%)
Monochlorobiphenyl	27323-18-8	0.500	0.351	70.3		28.7-78.9	12.5	200	*	40
Dichlorobiphenyl	25512-42-9	0.500	0.340	68.0		30.8-82.6	14.1	200	*	40
Trichlorobiphenyl	25323-68-6	0.500	0.358	71.6		34.4-86.8	17.4	200	*	40
Tetrachlorobiphenyl	26914-33-0	1.00	0.651	65.1		34.6-86.9	16.3	200	*	40
Pentachlorobiphenyl	25429-29-2	1.00	0.682	68.2		37.8-91.9	21.2	200	*	40
Hexachlorobiphenyl	26601-64-9	1.00	0.707	70.7		40.9-94.8	22.1	200	*	40
Heptachlorobiphenyl	28655-71-2	1.50	1.06	70.8		41.7-98.0	21.4	200	*	40
Octachlorobiphenyl	55722-26-4	1.50	1.02	68.0		43.2-102	21.7	200	*	40
Decachlorobiphenyl	2051-24-3	2.50	1.62	64.6		46.4-102	27.6	200	*	40

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	75.9	70.1-116		MS03-313-5
Tetrachloro-meta-xylene	877-09-8	65.8	44.4-104		MS03-313-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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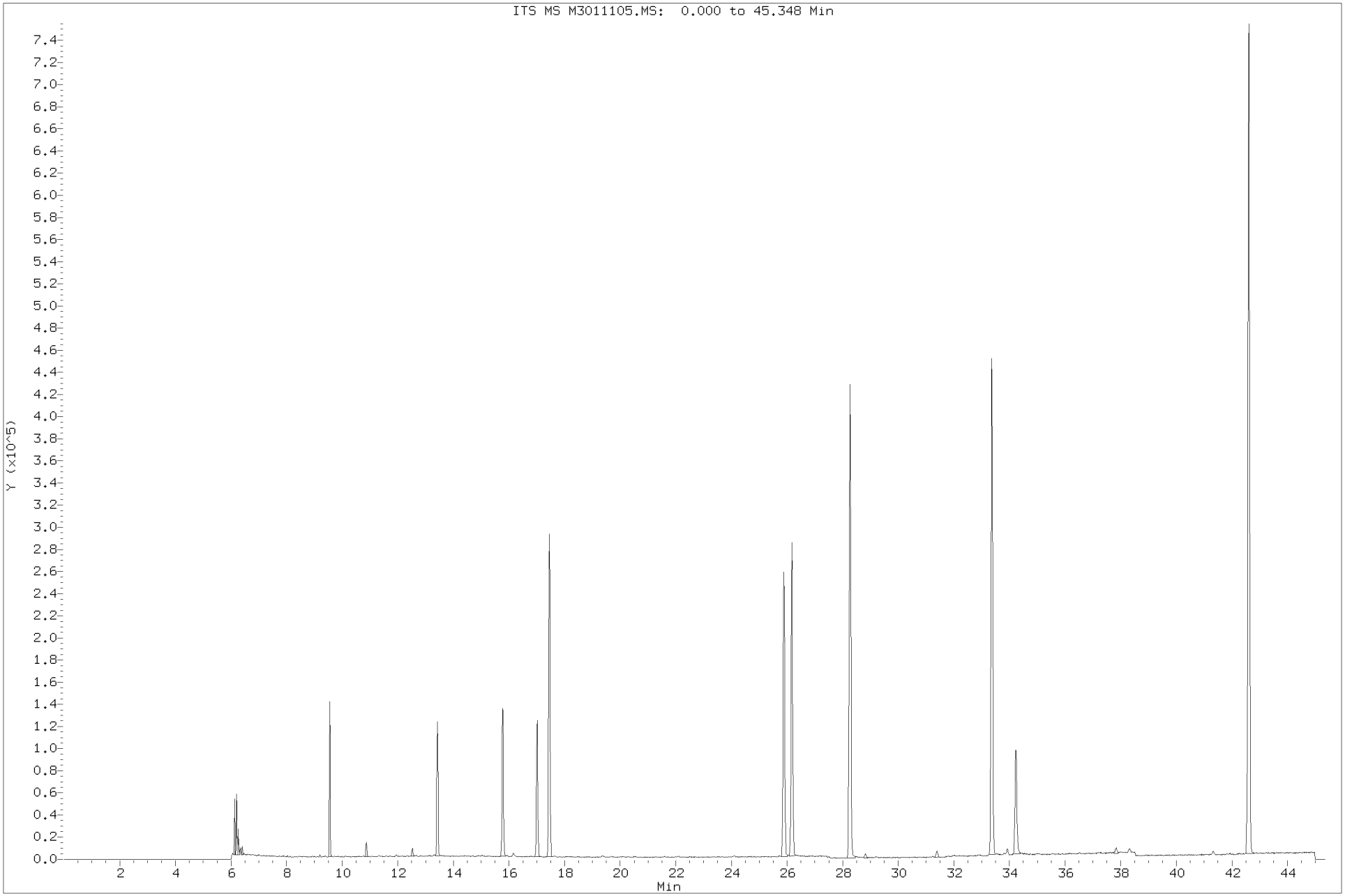
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680.b\M3011105.d/M3011105.MS
Injection Date: 11-JAN-2012 10:37
Instrument: GCMS03.i
Client Sample ID: AP00226S



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	LCSD
Matrix:	TO-10A PUF	Lab Sample ID:	AP00226S
Sample volume:	N/A	Date Received:	N/A
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	10:37

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
9.553	115952	9.554	40364	2.9	1.1199	0.00500	0.00500	0.351	
				Mono Total:		0.00500	0.00500	0.351	

Dichlorobiphenyls									
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
13.426	110413	13.426	75120	1.5	1.1027	0.00500	0.00500	0.340	
				Di Total:		0.00500	0.00500	0.340	

Trichlorobiphenyls									
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
17.011	99003	17.010	96003	1.0	0.9390	0.00500	0.00500	0.358	
				Tri Total:		0.00500	0.00500	0.358	

Tetrachlorobiphenyls									
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
17.450	148739	17.449	115938	1.3	0.7752	0.0100	0.0100	0.651	
				Tetra Total:		0.0100	0.0100	0.651	

Pentachlorobiphenyls									
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
25.887	160417	25.886	97424	1.6	0.7775	0.0100	0.0100	0.682	
				Penta Total:		0.0100	0.0100	0.682	

Hexachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 360		m/z 362		1.0 to 1.4		ug	ug	ug	
26.175	165848	26.175	138281	1.2	0.7961	0.0100	0.0100	0.707	
				Hexa Total:		0.0100	0.0100	0.707	

Heptachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 394		m/z 396		0.9 to 1.2		ug	ug	ug	
28.266	295049	28.266	288204	1.0	0.9430	0.0150	0.0150	1.06	
				Hepta Total:		0.0150	0.0150	1.06	

Octachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 430		m/z 428		0.9 to 1.3		ug	ug	ug	
33.365	306905	33.363	257127	1.2	1.0205	0.0150	0.0150	1.02	
				Octa Total:		0.0150	0.0150	1.02	

Nonachlorobiphenyls									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 464		m/z 466		1.1 to 1.5		ug	ug	ug	
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor	MDL	Reporting Limit	Report Amount	Flag
m/z 498		m/z 500		0.9 to 1.3		ug	ug	ug	
42.605	490117	42.608	422412	1.2	1.0294	0.0250	0.0250	1.62	
				Deca Total:		0.0250	0.0250	1.62	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 244		m/z 242		1.1 - 1.5			ug/mL	
11.943	791	11.945	643	1.2	0.2041		0.0132	
				TCMX Total:			0.0132	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.590	22739	42.607	19058	1.2	1.0171		0.0759	
				Deca Total:			0.0759	

TCMX Recovery %	65.8 %
Deca Recovery	75.9 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.229	235752	34.225	47278	5.0	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.553	115952	9.554	40364	6.134	4810	9.555	25849
13.425	3818	15.779	3427	6.201	8923	13.427	7994
15.774	231338			6.268	2927		
16.150	2435			6.402	1034		
17.012	17435			9.555	46662		
				13.427	53650		
				17.009	1894		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.426	110413	13.426	75120	6.134	4810	9.555	25849	13.428	7755	9.553	115952
17.010	3344	17.011	1269	6.201	8923	13.427	7994	15.778	24685	13.425	3818
17.450	63032	17.451	11326	6.268	2927			16.162	2098	15.774	231338
25.889	2903			6.402	1034			17.013	50781	16.150	2435
26.162	1867			9.555	46662			17.445	7097	17.012	17435
26.186	1732			13.427	53650			25.880	9318		
				17.009	1894						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011105"		"M3011105"		"M3011105"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.011	99003	17.010	96003	6.206	1174
17.451	14926	17.447	13122	6.297	1019
25.887	76741	25.889	25262	13.297	1437
26.182	3582	28.275	1755	13.417	1073
28.263	11917			17.008	4796
				17.448	17191
				25.884	9279
				26.190	3893

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.011	99003	17.010	96003	13.428	7755	9.553	115952	25.886	97424	25.887	160417
17.451	14926	17.447	13122	15.778	24685	13.425	3818	26.176	6328	26.174	9303
25.887	76741	25.889	25262	16.162	2098	15.774	231338	28.265	113847	28.263	72638
26.182	3582	28.275	1755	17.013	50781	16.150	2435	31.398	1816	33.361	1948
28.263	11917			17.445	7097	17.012	17435	33.368	3959	33.384	1586
				25.880	9318			33.397	1569		
								33.920	1147		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
25.888	103180	17.452	3465	17.449	115938	17.450	148739	17.450	75820	17.448	83615
26.173	5663	25.886	76569	24.098	1024	24.104	1354	25.876	3013	25.883	13900
28.265	26789	26.173	7301	25.883	11080	25.889	12649	25.899	2901	26.174	10755
33.371	1295	28.265	33029	26.175	80584	26.173	40263	26.180	9794	28.269	7559
		33.345	1185	28.243	1974	33.366	5017			33.349	1944
		33.382	2114	28.270	3639					33.372	2243
				28.823	1053						
				33.370	19887						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 292		m/z 290		m/z 220		m/z 222		m/z 360		m/z 362	
17.450	148739	17.449	115938	9.198	1169	13.426	110413	26.175	165848	26.175	138281
24.104	1354	24.098	1024	17.011	4857	17.010	3344	28.255	3182	28.256	2151
25.889	12649	25.883	11080	17.451	99201	17.450	63032	28.279	2480	28.279	1827
26.173	40263	26.175	80584	25.893	9015	25.889	2903	28.822	1823	28.820	1640
33.366	5017	28.243	1974	26.176	17518	26.162	1867	33.364	82161	33.368	34316
		28.270	3639			26.186	1732	42.597	12393	42.605	7141
		28.823	1053					42.624	11090		
		33.370	19887								

Extracted Ion Current Profiles

Tetrachlorobiphenyls									
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 288		m/z 324		m/z 326		m/z 328		m/z 289	
26.175	61189	25.886	97424	25.887	160417	25.888	103180	25.887	58539
28.269	7618	26.176	6328	26.174	9303	26.173	5663	26.176	11509
33.365	40435	28.265	113847	28.263	72638	28.265	26789	28.267	17383
		31.398	1816	33.361	1948	33.371	1295	33.355	5061
		33.368	3959	33.384	1586			33.378	2534
		33.397	1569						
		33.920	1147						

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 326		m/z 324		m/z 254		m/z 256		m/z 258		m/z 392	
25.887	160417	25.886	97424	17.452	3465	17.011	99003	17.010	96003	28.265	126628
26.174	9303	26.176	6328	25.886	76569	17.451	14926	17.447	13122	31.381	1426
28.263	72638	28.265	113847	26.173	7301	25.887	76741	25.889	25262	33.362	2424
33.361	1948	31.398	1816	28.265	33029	26.182	3582	28.275	1755	42.609	6185
33.384	1586	33.368	3959	33.345	1185	28.263	11917				
		33.397	1569	33.382	2114						
		33.920	1147								

Extracted Ion Current Profiles

Pentachlorobiphenyls													
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 394		m/z 396		m/z 398		m/z 322		m/z 360		m/z 362		m/z 323	
28.266	295049	28.266	288204	28.266	158861	28.265	68718	26.175	165848	26.175	138281	26.173	31327
31.398	3017	31.394	2996	31.398	1640	31.388	1176	28.255	3182	28.256	2151	28.260	15051
33.352	3264	33.339	1159	33.365	1651	33.370	5976	28.279	2480	28.279	1827	33.363	17102
33.384	1842	33.367	3014	42.612	2981			28.822	1823	28.820	1640		
42.591	5146	42.603	1065					33.364	82161	33.368	34316		
		42.620	1220					42.597	12393	42.605	7141		
								42.624	11090				

Extracted Ion Current Profiles

Hexachlorobiphenyls											
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 360		m/z 362		m/z 288		m/z 290		m/z 426		m/z 428	
26.175	165848	26.175	138281	26.175	61189	17.449	115938	33.363	100285	33.363	257127
28.255	3182	28.256	2151	28.269	7618	24.098	1024	42.603	104204	33.812	1563
28.279	2480	28.279	1827	33.365	40435	25.883	11080	42.674	2557	42.552	6641
28.822	1823	28.820	1640			26.175	80584			42.608	96186
33.364	82161	33.368	34316			28.243	1974			42.649	13053
42.597	12393	42.605	7141			28.270	3639			42.686	1105
42.624	11090					28.823	1053				
						33.370	19887				

Extracted Ion Current Profiles

Hexachlorobiphenyls															
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
33.365	306905	33.364	198322	33.365	49854	28.265	126628	28.266	295049	28.266	288204	28.266	158861	28.268	13449
33.808	1885	33.817	1451	42.601	61937	31.381	1426	31.398	3017	31.394	2996	31.398	1640	33.353	7011
42.605	87980	42.575	7357			33.362	2424	33.352	3264	33.339	1159	33.365	1651	33.384	4639
		42.608	23810			42.609	6185	33.384	1842	33.367	3014	42.612	2981	42.620	15751
								42.591	5146	42.603	1065				
										42.620	1220				

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 394		m/z 396		m/z 322		m/z 324		m/z 326		m/z 462	
28.266	295049	28.266	288204	28.265	68718	25.886	97424	25.887	160417	37.841	2104
31.398	3017	31.394	2996	31.388	1176	26.176	6328	26.174	9303	38.323	1747
33.352	3264	33.339	1159	33.370	5976	28.265	113847	28.263	72638	42.603	4620
33.384	1842	33.367	3014			31.398	1816	33.361	1948		
42.591	5146	42.603	1065			33.368	3959	33.384	1586		
		42.620	1220			33.397	1569				
						33.920	1147				

Extracted Ion Current Profiles

Heptachlorobiphenyls													
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 464		m/z 466		m/z 390		m/z 428		m/z 430		m/z 432		m/z 391	
37.835	2914	37.834	2042	42.611	4618	33.363	257127	33.365	306905	33.364	198322	33.363	9849
38.330	2328	38.328	1059			33.812	1563	33.808	1885	33.817	1451	42.609	20105
42.610	7111	42.591	1840			42.552	6641	42.605	87980	42.575	7357		
		42.614	2612			42.608	96186			42.608	23810		
						42.649	13053						
						42.686	1105						

Extracted Ion Current Profiles

Octachlorobiphenyls											
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462	
33.365	306905	33.363	257127	33.365	49854	26.176	86936	26.175	165848	37.841	2104
33.808	1885	33.812	1563	42.601	61937	28.255	3225	28.255	3182	38.323	1747
42.605	87980	42.552	6641			33.364	99886	28.279	2480	42.603	4620
		42.608	96186			42.608	51070	28.822	1823		
		42.649	13053					33.364	82161		
		42.686	1105					42.597	12393		
								42.624	11090		

Extracted Ion Current Profiles

Octachlorobiphenyls					
"M3011105"		"M3011105"		"M3011105"	
m/z 464		m/z 466		m/z 425	
37.835	2914	37.834	2042	42.590	6293
38.330	2328	38.328	1059	42.611	7767
42.610	7111	42.591	1840		
		42.614	2612		

Extracted Ion Current Profiles

Nonachlorobiphenyls									
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 464		m/z 466		m/z 390		m/z 392		m/z 394	
37.835	2914	37.834	2042	42.611	4618	28.265	126628	28.266	295049
38.330	2328	38.328	1059			31.381	1426	31.398	3017
42.610	7111	42.591	1840			33.362	2424	33.352	3264
		42.614	2612			42.609	6185	33.384	1842
								42.591	5146

FALSE

Extracted Ion Current Profiles

Decachlorobiphenyl											
"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"		"M3011105"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.605	490117	42.608	422412	42.609	42991	33.363	100285	33.363	257127	33.365	306905
						42.603	104204	33.812	1563	33.808	1885
						42.674	2557	42.552	6641	42.605	87980
								42.608	96186		
								42.649	13053		
								42.686	1105		

Extracted Ion Current Profiles

TCMX				TCMX
"M3011105"		"M3011105"		
m/z 244		m/z 242		
11.943	791(M)	11.945	643	424
26.463	274	28.257	999	426
31.114	283	33.372	260	428
32.011	2161	34.228	5088	430
				498
				500

chrysene - d_{12}	Chrysene-d12			
	"M3011105"		"M3011105"	
	m/z 240		m/z 241	
240	28.285	1266	33.350	1360
241	34.229	235752	33.371	1922
	34.468	1576	34.225	47278
	34.618	1099		

phenanthrene - d_{10}	Phenanthrene-d10			
	"M3011105"		"M3011105"	
	m/z 188		m/z 189	
188	9.553	115952	9.553	17600
189	13.425	3818	13.425	3672
	15.774	231338	15.773	35897
	16.150	2435	17.009	2999
	17.012	17435		

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	33.372	260	33.355	397
512	42.590	22739	42.592	19058(M)
			42.607	8024

Quality Control Results
Method Blank

Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: Method Blank (AP00233B)
Lab Sample ID: SBLK-61

Collection Date: N/A
Sample Matrix: POLYURETHANE FOAM
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-314-18	PCBs by EPA Method TO-4A/680	01/11/2012 22:10	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16875	EPA 3540C	01/05/2012 15:30	HAG	0.00m³	1.00 mL	NA

Analyte	CAS No.	Result (ug)	PQL	Dilution Factor	Flags	File ID
Monochlorobiphenyl	27323-18-8	ND	0.00500	1.00	U	MS03-314-18
Dichlorobiphenyl	25512-42-9	ND	0.00500	1.00	U	MS03-314-18
Trichlorobiphenyl	25323-68-6	ND	0.00500	1.00	U	MS03-314-18
Tetrachlorobiphenyl	26914-33-0	ND	0.0100	1.00	U	MS03-314-18
Pentachlorobiphenyl	25429-29-2	ND	0.0100	1.00	U	MS03-314-18
Hexachlorobiphenyl	26601-64-9	ND	0.0100	1.00	U	MS03-314-18
Heptachlorobiphenyl	28655-71-2	ND	0.0150	1.00	U	MS03-314-18
Octachlorobiphenyl	55722-26-4	ND	0.0150	1.00	U	MS03-314-18
Nonachlorobiphenyl	53742-07-7	ND	0.0250	1.00	U	MS03-314-18
Decachlorobiphenyl	2051-24-3	ND	0.0250	1.00	U	MS03-314-18
Total PCB	1336-36-3	ND		1.00	U	MS03-314-18

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	64.0	42.5-134		MS03-314-18
Tetrachloro-meta-xylene	877-09-8	64.0	17.9-137		MS03-314-18

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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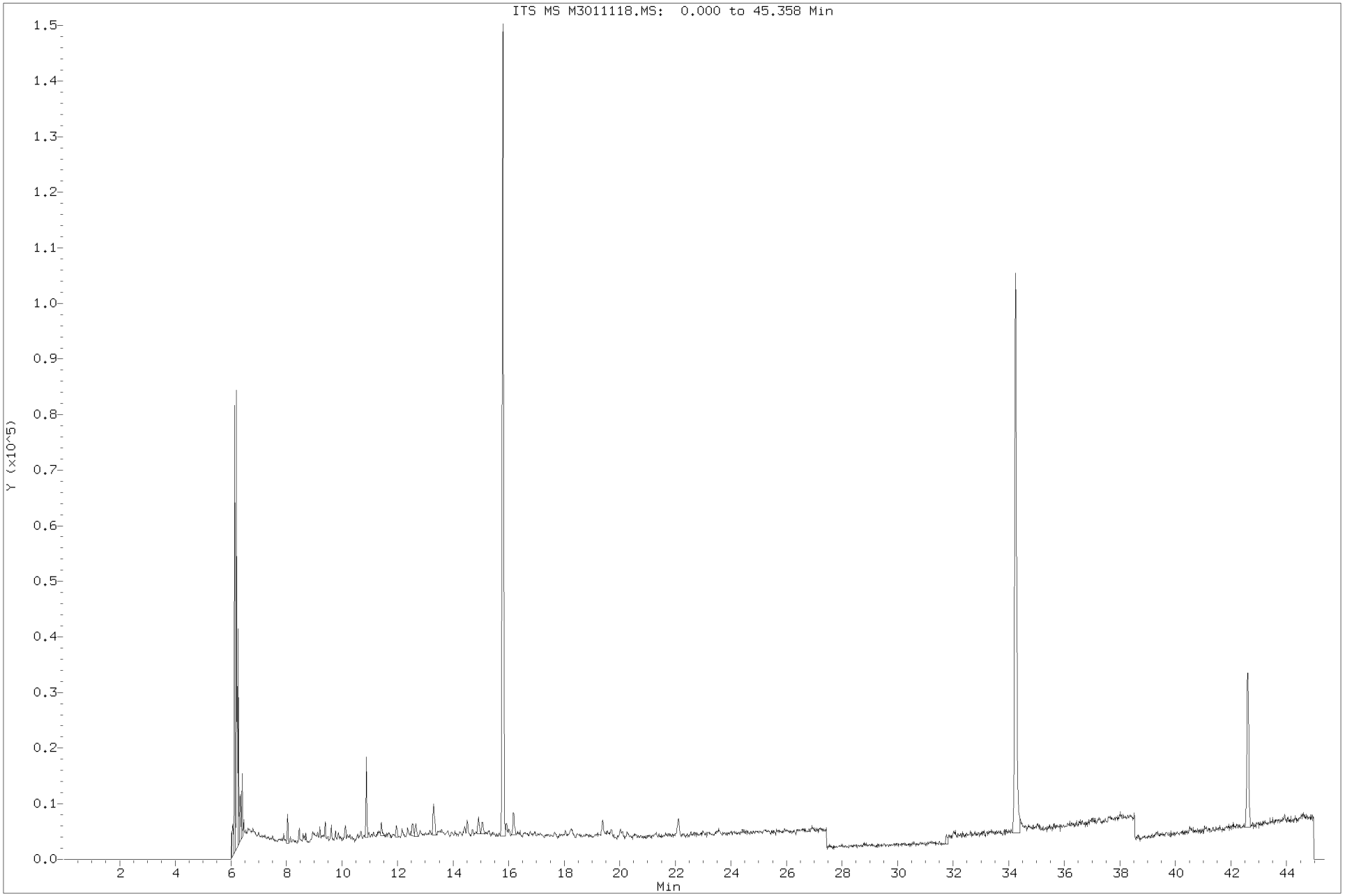
Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011118.d/M3011118.MS
Injection Date: 11-JAN-2012 22:10
Instrument: GCMS03.i
Client Sample ID: AP00233BLANK



Form 1
PCB Homolog Report
Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	Method Blank
Matrix:	TO-4A PUF	Lab Sample ID:	AP00233B
Sample weight:	NA	Date Received:	N/A
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	22:10

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls								
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Mono Total:		0.00500	0.00500	ND	

Dichlorobiphenyls								
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Di Total:		0.00500	0.00500	ND	

Trichlorobiphenyls								
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Tri Total:		0.00500	0.00500	ND	

Tetrachlorobiphenyls								
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Tetra Total:		0.0100	0.0100	ND	

Pentachlorobiphenyls								
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Penta Total:		0.0100	0.0100	ND	

Hexachlorobiphenyls								
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Hexa Total:		0.0100	0.0100	ND	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Hepta Total:		0.0150	0.0150	ND	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Octa Total:		0.0150	0.0150	ND	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Deca Total:		0.0250	0.0250	ND	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.954	823	11.957	674	1.2	0.2041		0.0128	
				TCMX Total:			0.0128	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT m/z 510	Quant Ion Area	Confirm Ion RT m/z 512	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor		Solution Concentration ug/mL	Flag
42.605	20480	42.608	17592	1.2	1.0171		0.0640	
				Deca Total:			0.0640	

TCMX Recovery %	64.0 %
Deca Recovery	64.0 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT m/z 240	Quant Ion Area	Confirm Ion RT m/z 241	Confirm Ion Area	Ratio 4.3 - 5.9	Response Factor		Solution Concentration ug/mL	Flag
34.243	251872	34.241	52320	4.8	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011118"		"M3011118"		"M3011118"		"M3011118"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
15.790	247749	15.783	2677	6.137	8158	8.042	1922
16.168	2773	15.811	1484	6.207	10551	9.400	1573
				6.273	4064	9.612	1418
				6.339	1010		
				6.408	1318		
				8.042	1642		
				9.401	1988		
				9.616	1535		
				14.402	1002		
				15.920	2100		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011118"		"M3011118"		"M3011118"		"M3011118"		"M3011118"		"M3011118"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				6.137	8158	8.042	1922	15.795	25643	15.790	247749
				6.207	10551	9.400	1573	16.177	2265	16.168	2773
				6.273	4064	9.612	1418				
				6.339	1010						
				6.408	1318						
				8.042	1642						
				9.401	1988						
				9.616	1535						
				14.402	1002						
				15.920	2100						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011118"		"M3011118"		"M3011118"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
				13.307	4237

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011118"		"M3011118"		"M3011118"		"M3011118"		"M3011118"		"M3011118"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
				15.795	25643	15.790	247749				
				16.177	2265	16.168	2773				

Extracted Ion Current Profiles

Tetrachlorobiphenyls					
"M3011118"	"M3011118"	"M3011118"	"M3011118"	"M3011118"	"M3011118"
m/z 292	m/z 290	m/z 220	m/z 222	m/z 360	m/z 362
		9.206 1102			

Extracted Ion Current Profiles

Hexachlorobiphenyls							
"M3011118"	"M3011118"	"M3011118"	"M3011118"	"M3011118"	"M3011118"	"M3011118"	"M3011118"
m/z 430	m/z 432	m/z 356	m/z 392	m/z 394	m/z 396	m/z 398	m/z 357
							41.637 1025
							42.261 1181

Extracted Ion Current Profiles

TCMX				TCMX
"M3011118"		"M3011118"		
m/z 244		m/z 242		
11.954	823(M)	11.957	674	424
15.027	297	17.668	285	426
31.130	390	18.682	282	428
32.026	2082	19.338	290	430
		34.240	5799	498
				500

chrysene - d_{12}	Chrysene-d12			
	"M3011118"		"M3011118"	
	m/z 240		m/z 241	
240	34.243	251872	34.241	52320
241	34.471	1235		
	34.508	1240		

phenanthrene - d_{10}	Phenanthrene-d10			
	"M3011118"		"M3011118"	
	m/z 188		m/z 189	
188	15.790	247749	9.210	1041
189	16.168	2773	13.291	1033
			14.915	1594
			15.061	1073
			15.272	1078
			15.386	1057
			15.473	1088
			15.789	40334
			17.056	1098
			17.360	1038
			20.379	1107

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	34.229	309	42.608	17592
512	42.605	20480		

Quality Control Results
Lab Control Sample
Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: Lab Control Sample (AP00233L)
Lab Sample ID: LCS-61

Collection Date: N/A
Sample Matrix: POLYURETHANE FOAM
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-314-19	PCBs by EPA Method TO-4A/680	01/11/2012 22:59	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16875	EPA 3540C	01/05/2012 15:30	HAG	0.00m³	1.00 mL	NA

Analyte Spiked	CAS No.	Added (ug)	LCS (ug)	LCS % Rec.	Q[1]	Limits (%)
Monochlorobiphenyl	27323-18-8	0.500	0.367	73.4		28.7-78.9
Dichlorobiphenyl	25512-42-9	0.500	0.350	70.0		30.8-82.6
Trichlorobiphenyl	25323-68-6	0.500	0.359	71.8		34.4-86.8
Tetrachlorobiphenyl	26914-33-0	1.00	0.668	66.8		34.6-86.9
Pentachlorobiphenyl	25429-29-2	1.00	0.668	66.8		37.8-91.9
Hexachlorobiphenyl	26601-64-9	1.00	0.703	70.3		40.9-94.8
Heptachlorobiphenyl	28655-71-2	1.50	1.06	70.7		41.7-98.0
Octachlorobiphenyl	55722-26-4	1.50	1.01	67.4		43.2-102
Decachlorobiphenyl	2051-24-3	2.50	1.60	64.1		46.4-102

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	83.8	42.5-134		MS03-314-19
Tetrachloro-meta-xylene	877-09-8	73.7	17.9-137		MS03-314-19

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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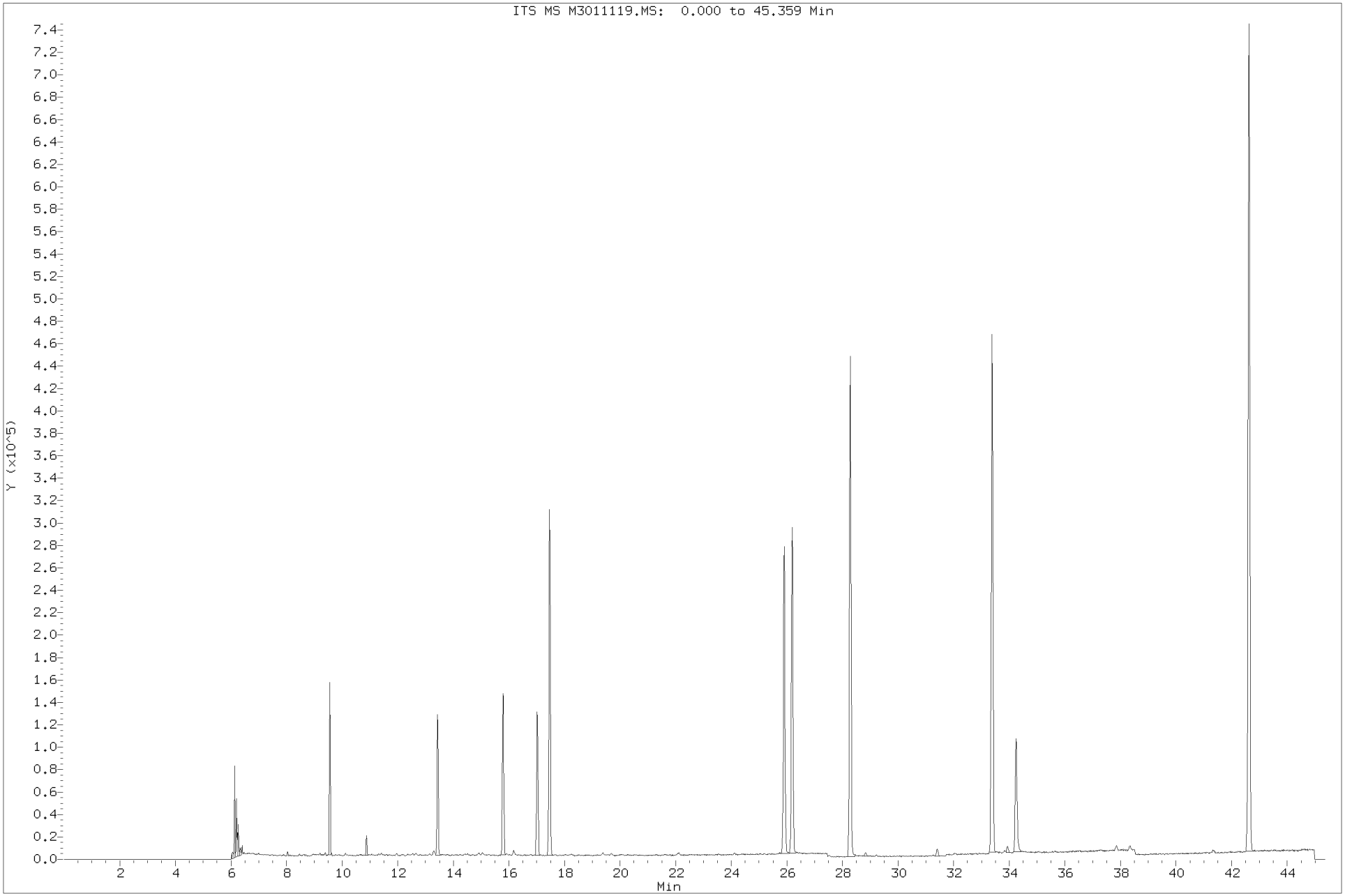
Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011119.d/M3011119.MS
Injection Date: 11-JAN-2012 22:59
Instrument: GCMS03.i
Client Sample ID: AP00233LCS



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	LCS
Matrix:	TO-4A PUF	Lab Sample ID:	AP00233L
Sample volume:	N/A	Date Received:	N/A
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	22:59

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
9.559	127039	9.559	42823	3.0	1.1199	0.00500	0.00500	0.367	
				Mono Total:		0.00500	0.00500	0.367	

Dichlorobiphenyls									
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
13.436	119310	13.434	78175	1.5	1.1027	0.00500	0.00500	0.350	
				Di Total:		0.00500	0.00500	0.350	

Trichlorobiphenyls									
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
17.020	104165	17.024	103381	1.0	0.9390	0.00500	0.00500	0.359	
				Tri Total:		0.00500	0.00500	0.359	

Tetrachlorobiphenyls									
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
17.464	159900	17.464	122723	1.3	0.7752	0.0100	0.0100	0.668	
				Tetra Total:		0.0100	0.0100	0.668	

Pentachlorobiphenyls									
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
25.902	164991	25.903	103220	1.6	0.7775	0.0100	0.0100	0.668	
				Penta Total:		0.0100	0.0100	0.668	

Hexachlorobiphenyls									
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
26.191	172877	26.191	143137	1.2	0.7961	0.0100	0.0100	0.703	
				Hexa Total:		0.0100	0.0100	0.703	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
28.278	309138	28.281	300445	1.0	0.9430	0.0150	0.0150	1.06	
				Hepta Total:		0.0150	0.0150	1.06	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
33.382	318945	33.382	274827	1.2	1.0205	0.0150	0.0150	1.01	
				Octa Total:		0.0150	0.0150	1.01	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
42.625	509346	42.625	446974	1.1	1.0294	0.0250	0.0250	1.60	
				Deca Total:		0.0250	0.0250	1.60	

Tetrachloro-meta-xylene: Surrogate Analyte								
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL	Flag
11.956	929	11.952	678	1.4	0.2041		0.0147	
				TCMX Total:			0.0147	

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.609	26326	42.622	20851	1.3	1.0171		0.0838	
				Deca Total:			0.0838	

TCMX Recovery % 73.7 %

Deca Recovery 83.8 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.246	247165	34.242	51129	4.8	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.559	127039	9.559	42823	6.135	6603	8.039	1616
13.434	4528	15.784	3969	6.203	8127	9.396	1085
15.787	241851			6.269	3011	9.560	28777
16.165	2538			8.040	1350	13.440	8386
17.025	18177			9.396	1437		
				9.559	48322		
				13.436	56362		
				15.920	1656		
				17.026	2127		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.436	119310	13.434	78175	6.135	6603	8.039	1616	13.439	7696	9.559	127039
17.026	3873	17.463	13166	6.203	8127	9.396	1085	15.793	24719	13.434	4528
17.465	69144			6.269	3011	9.560	28777	16.174	2196	15.787	241851
25.904	3362			8.040	1350	13.440	8386	17.022	53483	16.165	2538
26.192	3787			9.396	1437			17.471	7782	17.025	18177
				9.559	48322			25.904	10103		
				13.436	56362						
				15.920	1656						
				17.026	2127						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011119"		"M3011119"		"M3011119"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.020	104165	17.024	103381	7.008	1447
17.469	16518	17.466	13365	8.627	1442
25.901	80404	25.903	28431	11.060	1034
26.193	4232	28.279	1404	13.304	4248
28.276	12701			13.435	1504
				17.026	5012
				17.466	17504
				25.904	9869
				26.187	2499
				26.204	1174

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.020	104165	17.024	103381	13.439	7696	9.559	127039	25.903	103220	25.902	164991
17.469	16518	17.466	13365	15.793	24719	13.434	4528	26.193	6898	26.191	8794
25.901	80404	25.903	28431	16.174	2196	15.787	241851	28.280	115732	28.286	77256
26.193	4232	28.279	1404	17.022	53483	16.165	2538	31.405	1999	33.375	2162
28.276	12701			17.471	7782	17.025	18177	33.381	5725	33.404	1388
				25.904	10103			33.938	1160		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
25.902	107286	17.461	3546	17.464	122723	17.464	159900	17.464	78230	17.462	87329
26.192	5840	25.904	82505	24.115	1074	24.112	1495	25.901	6510	25.898	14689
28.280	27269	26.181	3945	25.899	11284	25.904	13604	26.185	10374	26.191	11348
		26.205	3326	26.191	83547	26.194	42878			28.268	3353
		28.279	34870	28.277	6841	28.275	1772			28.291	4723
		33.376	1401	28.845	1219	33.381	5339			33.359	1313
		33.409	1212	33.376	14092					33.380	1602
				33.408	7298						

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 292		m/z 290		m/z 220		m/z 222		m/z 360		m/z 362	
17.464	159900	17.464	122723	9.202	1172	13.436	119310	26.191	172877	26.191	143137
24.112	1495	24.115	1074	17.024	5075	17.026	3873	28.267	3880	28.838	1596
25.904	13604	25.899	11284	17.462	104347	17.465	69144	28.303	1877	33.384	39308
26.194	42878	26.191	83547	25.897	8822	25.904	3362	28.835	2097	42.622	6435
28.275	1772	28.277	6841	26.192	17999	26.192	3787	33.383	85246		
33.381	5339	28.845	1219					42.621	25351		
		33.376	14092								
		33.408	7298								

Extracted Ion Current Profiles

Tetrachlorobiphenyls									
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 288		m/z 324		m/z 326		m/z 328		m/z 289	
25.895	1142	25.903	103220	25.902	164991	25.902	107286	25.903	61224
26.191	64290	26.193	6898	26.191	8794	26.192	5840	26.182	12148
28.266	5277	28.280	115732	28.286	77256	28.280	27269	28.281	17327
28.285	1235	31.405	1999	33.375	2162			33.373	4652
28.297	2356	33.381	5725	33.404	1388			33.394	5614
33.386	39995	33.938	1160						

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 326		m/z 324		m/z 254		m/z 256		m/z 258		m/z 392	
25.902	164991	25.903	103220	17.461	3546	17.020	104165	17.024	103381	28.281	136086
26.191	8794	26.193	6898	25.904	82505	17.469	16518	17.466	13365	31.412	1445
28.286	77256	28.280	115732	26.181	3945	25.901	80404	25.903	28431	33.372	1365
33.375	2162	31.405	1999	26.205	3326	26.193	4232	28.279	1404	33.395	1436
33.404	1388	33.381	5725	28.279	34870	28.276	12701			37.857	1002
		33.938	1160	33.376	1401					42.629	7104
				33.409	1212						

Extracted Ion Current Profiles

Pentachlorobiphenyls													
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 394		m/z 396		m/z 398		m/z 322		m/z 360		m/z 362		m/z 323	
28.278	309138	28.281	300445	28.282	163072	28.279	69142	26.191	172877	26.191	143137	26.195	33323
31.408	3235	31.415	3108	31.409	1889	31.413	1219	28.267	3880	28.838	1596	28.279	16115
33.391	4412	33.384	3859	33.362	1181	33.382	5787	28.303	1877	33.384	39308	33.391	17464
33.420	1063			33.390	1259			28.835	2097	42.622	6435		
42.612	4005			42.606	1266			33.383	85246				
42.646	2197							42.621	25351				

Extracted Ion Current Profiles

Hexachlorobiphenyls											
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 360		m/z 362		m/z 288		m/z 290		m/z 426		m/z 428	
26.191	172877	26.191	143137	25.895	1142	17.464	122723	33.382	104324	33.382	274827
28.267	3880	28.838	1596	26.191	64290	24.115	1074	42.631	99553	42.575	9515
28.303	1877	33.384	39308	28.266	5277	25.899	11284	42.672	10405	42.623	111063
28.835	2097	42.622	6435	28.285	1235	26.191	83547			42.684	4132
33.383	85246			28.297	2356	28.277	6841				
42.621	25351			33.386	39995	28.845	1219				
						33.376	14092				
						33.408	7298				

Extracted Ion Current Profiles

Hexachlorobiphenyls															
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
33.382	318945	33.382	200315	33.384	51177	28.281	136086	28.278	309138	28.281	300445	28.282	163072	28.281	13757
33.840	2070	42.628	39254	42.629	64268	31.412	1445	31.408	3235	31.415	3108	31.409	1889	33.378	14082
42.623	90759					33.372	1365	33.391	4412	33.384	3859	33.362	1181	33.938	1001
42.704	1001					33.395	1436	33.420	1063			33.390	1259	42.257	2112
						37.857	1002	42.612	4005			42.606	1266	42.469	1012
						42.629	7104	42.646	2197					42.614	16763

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 394		m/z 396		m/z 322		m/z 324		m/z 326		m/z 462	
28.278	309138	28.281	300445	28.279	69142	25.903	103220	25.902	164991	37.852	1863
31.408	3235	31.415	3108	31.413	1219	26.193	6898	26.191	8794	38.329	1868
33.391	4412	33.384	3859	33.382	5787	28.280	115732	28.286	77256	42.606	2128
33.420	1063					31.405	1999	33.375	2162	42.640	2203
42.612	4005					33.381	5725	33.404	1388		
42.646	2197					33.938	1160				

Extracted Ion Current Profiles

Heptachlorobiphenyls													
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 464		m/z 466		m/z 390		m/z 428		m/z 430		m/z 432		m/z 391	
37.851	2975	37.858	2128	42.618	2668	33.382	274827	33.382	318945	33.382	200315	33.370	4837
38.347	2282	42.606	1770			42.575	9515	33.840	2070	42.628	39254	33.396	4827
42.605	2208	42.638	1925			42.623	111063	42.623	90759			42.586	3220
42.636	3340					42.684	4132	42.704	1001			42.613	5253
												42.636	10451

Extracted Ion Current Profiles

Octachlorobiphenyls											
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462	
33.382	318945	33.382	274827	33.384	51177	26.193	90603	26.191	172877	37.852	1863
33.840	2070	42.575	9515	42.629	64268	28.284	4093	28.267	3880	38.329	1868
42.623	90759	42.623	111063			33.382	101038	28.303	1877	42.606	2128
42.704	1001	42.684	4132			42.625	52423	28.835	2097	42.640	2203
								33.383	85246		
								42.621	25351		

Extracted Ion Current Profiles

Octachlorobiphenyls					
"M3011119"		"M3011119"		"M3011119"	
m/z 464		m/z 466		m/z 425	
37.851	2975	37.858	2128	42.579	1513
38.347	2282	42.606	1770	42.601	3670
42.605	2208	42.638	1925	42.627	9254
42.636	3340				

Extracted Ion Current Profiles

Nonachlorobiphenyls									
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 464		m/z 466		m/z 390		m/z 392		m/z 394	
37.851	2975	37.858	2128	42.618	2668	28.281	136086	28.278	309138
38.347	2282	42.606	1770			31.412	1445	31.408	3235
42.605	2208	42.638	1925			33.372	1365	33.391	4412
42.636	3340					33.395	1436	33.420	1063
						37.857	1002	42.612	4005
						42.629	7104	42.646	2197

FALSE

Extracted Ion Current Profiles

Decachlorobiphenyl											
"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"		"M3011119"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.625	509346	42.625	446974	42.623	25746	33.382	104324	33.382	274827	33.382	318945
				42.647	14921	42.631	99553	42.575	9515	33.840	2070
						42.672	10405	42.623	111063	42.623	90759
								42.684	4132	42.704	1001

Extracted Ion Current Profiles

TCMX					Chrysene-d12					Phenanthrene-d10				
"M3011119"		"M3011119"				"M3011119"		"M3011119"			"M3011119"		"M3011119"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.956	929	11.952	678	424	240	34.246	247165	33.375	1550	188	9.559	127039	9.559	18242
15.031	309	17.478	420	426	241	34.489	1789	33.394	1907	189	13.434	4528	13.435	4344
19.368	338	19.687	347	428				34.242	51129		15.787	241851	15.786	38986
31.167	255	28.276	607	430							16.165	2538	16.172	1329
32.042	2264	34.251	5464	498							17.025	18177	16.334	1070
37.106	262			500									17.023	3695

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	33.373	377	42.599	20851(M)
512	42.609	26326	42.622	10410

Quality Control Results
Lab Control Sample - Duplicate
Job Number: 12010053

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: 115058 KEITH MIDDLE SCHOOL
Client Sample ID: Lab Control Sample - Duplicate (AP00233S
Lab Sample ID: LCSD-61

Collection Date: N/A
Sample Matrix: POLYURETHANE FOAM
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS03-314-20	PCBs by EPA Method TO-4A/680	01/11/2012 23:48	RMS	NA	NA	Agilent, J&W DB-XLB, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	16875	EPA 3540C	01/05/2012 15:30	HAG	0.00m³	1.00 mL	NA

Analyte Spiked	CAS No.	Added (ug)	LCSD (ug)	LCSD % Rec.	Q[1]	Limits (%)	Precision: LCS % Rec.	Precision: RPD	Precision: Q[1]	Precision: Limits (%)
Monochlorobiphenyl	27323-18-8	0.500	0.375	74.9		28.7-78.9	73.4	2.02		40
Dichlorobiphenyl	25512-42-9	0.500	0.357	71.5		30.8-82.6	70.0	2.12		40
Trichlorobiphenyl	25323-68-6	0.500	0.373	74.5		34.4-86.8	71.8	3.69		40
Tetrachlorobiphenyl	26914-33-0	1.00	0.698	69.8		34.6-86.9	66.8	4.39		40
Pentachlorobiphenyl	25429-29-2	1.00	0.697	69.7		37.8-91.9	66.8	4.25		40
Hexachlorobiphenyl	26601-64-9	1.00	0.748	74.8		40.9-94.8	70.3	6.20		40
Heptachlorobiphenyl	28655-71-2	1.50	1.10	73.3		41.7-98.0	70.7	3.61		40
Octachlorobiphenyl	55722-26-4	1.50	1.02	67.9		43.2-102	67.4	0.739		40
Decachlorobiphenyl	2051-24-3	2.50	1.65	65.9		46.4-102	64.1	2.77		40

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Decachloro[13C12]biphenyl	105600-27-9	73.8	42.5-134		MS03-314-20
Tetrachloro-meta-xylene	877-09-8	68.1	17.9-137		MS03-314-20

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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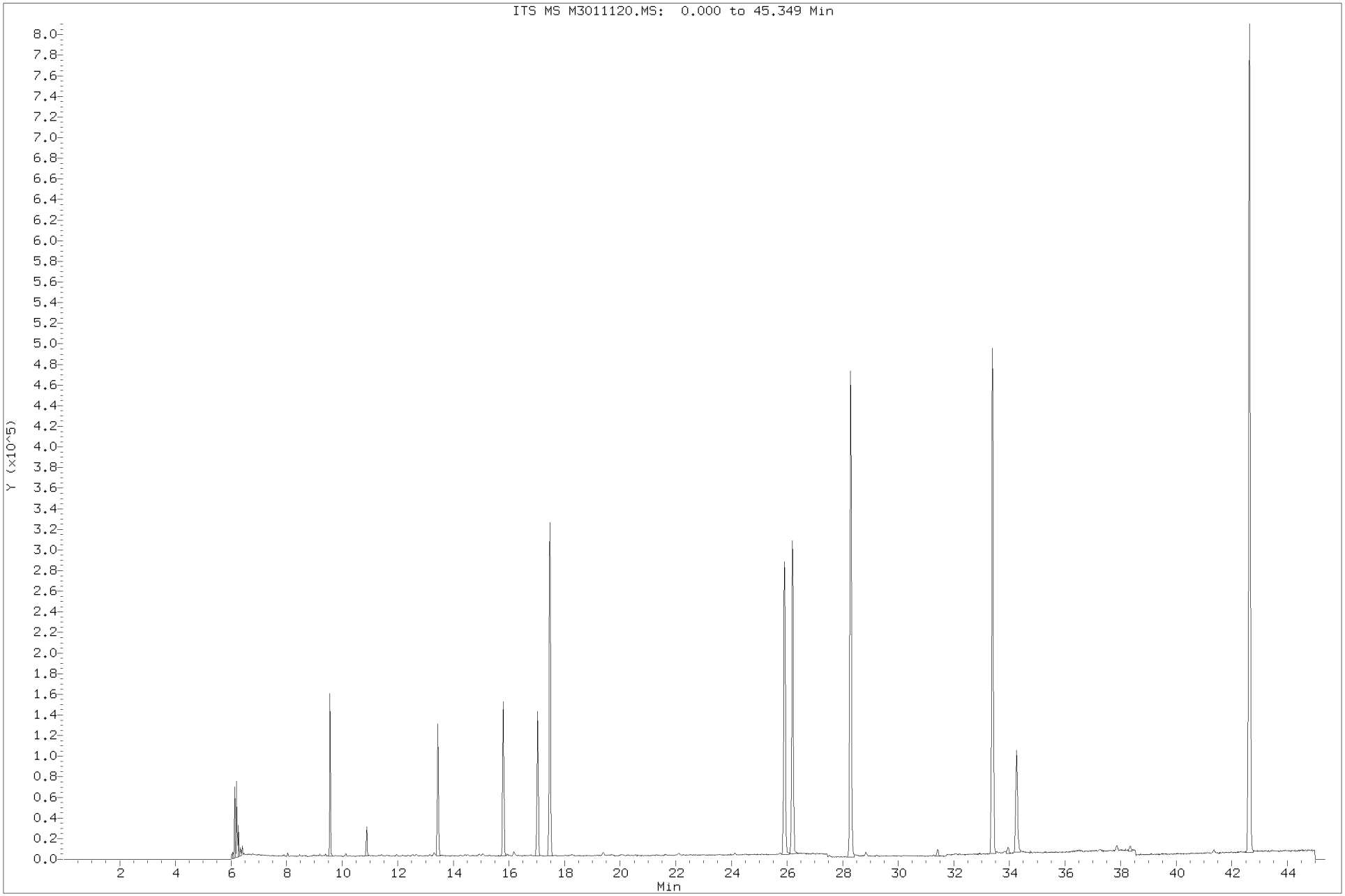
2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com

Data File: \\APOLLO\GCMS\TP12\GCMS03\011112-680b.b\M3011120.d/M3011120.MS
Injection Date: 11-JAN-2012 23:48
Instrument: GCMS03.i
Client Sample ID: AP00233S



Form 1
PCB Homolog Report

Pace Analytical Services, Inc.

		SDG No.:	12010053
ELAP ID No.:	11078	Client ID:	LCSD
Matrix:	TO-4A PUF	Lab Sample ID:	AP00233S
Sample volume:	N/A	Date Received:	N/A
% Moisture	0 %	Date Extracted:	1/5/2012
Method:	EPA 680 (GC/MS)	Date Analyzed:	1/11/2012
Dilution Factor:	1	Time Analyzed:	23:48

GC Column: J&W, DB-XLB, 30m length, 0.25mm ID, 0.25µm Film

Monochlorobiphenyls									
Quant Ion RT m/z 188	Quant Ion Area	Confirm Ion RT m/z 190	Confirm Ion Area	Ratio 2.5 to 3.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
9.563	131109	9.566	44277	3.0	1.1199	0.00500	0.00500	0.375	
				Mono Total:		0.00500	0.00500	0.375	

Dichlorobiphenyls									
Quant Ion RT m/z 222	Quant Ion Area	Confirm Ion RT m/z 224	Confirm Ion Area	Ratio 1.3 to 1.7	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
13.444	123142	13.444	82151	1.5	1.1027	0.00500	0.00500	0.357	
				Di Total:		0.00500	0.00500	0.357	

Trichlorobiphenyls									
Quant Ion RT m/z 256	Quant Ion Area	Confirm Ion RT m/z 258	Confirm Ion Area	Ratio 0.8 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
17.029	109293	17.029	108708	1.0	0.9390	0.00500	0.00500	0.373	
				Tri Total:		0.00500	0.00500	0.373	

Tetrachlorobiphenyls									
Quant Ion RT m/z 292	Quant Ion Area	Confirm Ion RT m/z 290	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
17.473	169002	17.469	128497	1.3	0.7752	0.0100	0.0100	0.698	
				Tetra Total:		0.0100	0.0100	0.698	

Pentachlorobiphenyls									
Quant Ion RT m/z 326	Quant Ion Area	Confirm Ion RT m/z 324	Confirm Ion Area	Ratio 1.4 to 1.8	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
25.911	173856	25.912	107353	1.6	0.7775	0.0100	0.0100	0.697	
				Penta Total:		0.0100	0.0100	0.697	

Hexachlorobiphenyls									
Quant Ion RT m/z 360	Quant Ion Area	Confirm Ion RT m/z 362	Confirm Ion Area	Ratio 1.0 to 1.4	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
26.198	186164	26.198	148254	1.3	0.7961	0.0100	0.0100	0.748	
				Hexa Total:		0.0100	0.0100	0.748	

Heptachlorobiphenyls									
Quant Ion RT m/z 394	Quant Ion Area	Confirm Ion RT m/z 396	Confirm Ion Area	Ratio 0.9 to 1.2	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
28.289	323840	28.289	319913	1.0	0.9430	0.0150	0.0150	1.10	
				Hepta Total:		0.0150	0.0150	1.10	

Octachlorobiphenyls									
Quant Ion RT m/z 430	Quant Ion Area	Confirm Ion RT m/z 428	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
33.392	324613	33.392	282679	1.1	1.0205	0.0150	0.0150	1.02	
				Octa Total:		0.0150	0.0150	1.02	

Nonachlorobiphenyls									
Quant Ion RT m/z 464	Quant Ion Area	Confirm Ion RT m/z 466	Confirm Ion Area	Ratio 1.1 to 1.5	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
				Nona Total:		0.0250	0.0250	ND	

Decachlorobiphenyl									
Quant Ion RT m/z 498	Quant Ion Area	Confirm Ion RT m/z 500	Confirm Ion Area	Ratio 0.9 to 1.3	Response Factor	MDL ug	Reporting Limit ug	Report Amount ug	Flag
42.634	530165	42.633	463646	1.1	1.0294	0.0250	0.0250	1.65	
				Deca Total:		0.0250	0.0250	1.65	

Tetrachloro-meta-xylene: Surrogate Analyte									
Quant Ion RT m/z 244	Quant Ion Area	Confirm Ion RT m/z 242	Confirm Ion Area	Ratio 1.1 - 1.5	Response Factor		Solution Concentration ug/mL		Flag
11.963	868	11.961	722	1.2	0.2041		0.0136		
				TCMX Total:			0.0136		

Decachloro ^{13}C Biphenyl: Surrogate Analyte								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 510		m/z 512		0.9 to 1.3			ug/mL	
42.614	23469	42.618	21775	1.1	1.0171		0.0738	
				Deca Total:			0.0738	

TCMX Recovery %	68.1 %
Deca Recovery	73.8 %

Chrysene-d_{12} Internal Standard								
Quant Ion RT	Quant Ion Area	Confirm Ion RT	Confirm Ion Area	Ratio	Response Factor		Solution Concentration	Flag
m/z 240		m/z 241		4.3 - 5.9			ug/mL	
34.256	249958	34.252	51253	4.9	1.0000		0.800	
				Chrysene-d_{12}:			0.800	

Extracted Ion Current Profiles

Monochlorobiphenyls							
"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 188		m/z 190		m/z 152		m/z 153	
RT	Area	RT	Area	RT	Area	RT	Area
9.563	131109	9.566	44277	6.138	7245	8.044	1385
13.441	3857	15.796	4274	6.208	9274	9.565	29060
15.792	247803			6.273	3348	13.444	8616
16.169	2671			6.408	1229		
17.034	19301			8.045	1120		
				9.403	1235		
				9.566	52085		
				13.443	59890		
				15.927	1198		
				17.025	2106		

Extracted Ion Current Profiles

Dichlorobiphenyls											
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 222		m/z 224		m/z 152		m/z 153		m/z 186		m/z 188	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
13.444	123142	13.444	82151	6.138	7245	8.044	1385	13.444	8512	9.563	131109
17.030	4252	17.027	1481	6.208	9274	9.565	29060	15.798	24757	13.441	3857
17.471	71527	17.465	13137	6.273	3348	13.444	8616	16.187	2150	15.792	247803
25.906	3474			6.408	1229			17.031	56012	16.169	2671
26.207	4021			8.045	1120			17.473	7700	17.034	19301
				9.403	1235			25.909	10426		
				9.566	52085						
				13.443	59890						
				15.927	1198						
				17.025	2106						

Extracted Ion Current Profiles

Dichlorobiphenyls					
"M3011120"		"M3011120"		"M3011120"	
m/z 256		m/z 258		m/z 221	
RT	Area	RT	Area	RT	Area
17.029	109293	17.029	108708	7.012	1047
17.467	15943	17.470	13883	8.633	1300
25.911	83296	25.914	28573	13.307	2770
26.205	4236	28.281	1014	13.433	1715
28.293	12494			17.035	5419
				17.467	18844
				25.909	10905
				26.197	3891

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 256		m/z 258		m/z 186		m/z 188		m/z 324		m/z 326	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
17.029	109293	17.029	108708	13.444	8512	9.563	131109	25.912	107353	25.911	173856
17.467	15943	17.470	13883	15.798	24757	13.441	3857	26.193	6786	26.199	10291
25.911	83296	25.914	28573	16.187	2150	15.792	247803	28.293	123247	28.290	81171
26.205	4236	28.281	1014	17.031	56012	16.169	2671	31.424	1969	31.418	1410
28.293	12494			17.473	7700	17.034	19301	33.353	1106	33.384	3996
				25.909	10426			33.391	5568	33.942	1072
								33.949	1178		

Extracted Ion Current Profiles

Trichlorobiphenyls											
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 328		m/z 254		m/z 290		m/z 292		m/z 294		m/z 255	
RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area
25.909	112640	17.462	3483	17.469	128497	17.473	169002	17.470	82595	17.472	92989
26.198	7074	25.907	85891	24.122	1103	24.124	1424	25.895	2908	25.914	15197
28.292	27437	26.192	8094	25.910	12012	25.913	13171	25.921	3537	26.193	8334
		28.286	36467	26.199	89068	26.198	44918	26.203	10829	26.212	4184
		33.378	1759	28.295	6762	28.282	1501			28.293	8345
				28.844	1402	33.385	5154			33.389	2919
				33.389	21974					33.412	1675

Extracted Ion Current Profiles

Tetrachlorobiphenyls											
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 292		m/z 290		m/z 220		m/z 222		m/z 360		m/z 362	
17.473	169002	17.469	128497	9.210	1023	13.444	123142	26.198	186164	26.198	148254
24.124	1424	24.122	1103	17.031	5263	17.030	4252	28.298	6217	28.294	3515
25.913	13171	25.910	12012	17.471	109170	17.471	71527	28.842	2221	28.834	1795
26.198	44918	26.199	89068	25.912	8726	25.906	3474	33.387	88631	33.388	41184
28.282	1501	28.295	6762	26.197	18781	26.207	4021	42.621	17766	42.633	3900
33.385	5154	28.844	1402					42.671	4499	42.657	2268
		33.389	21974								

Extracted Ion Current Profiles

Tetrachlorobiphenyls									
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 288		m/z 324		m/z 326		m/z 328		m/z 289	
25.906	2286	25.912	107353	25.911	173856	25.909	112640	25.911	65487
26.199	67396	26.193	6786	26.199	10291	26.198	7074	26.189	8050
28.285	8308	28.293	123247	28.290	81171	28.292	27437	26.218	4898
28.835	1070	31.424	1969	31.418	1410			28.288	19209
33.388	41636	33.353	1106	33.384	3996			33.388	10939
		33.391	5568	33.942	1072				
		33.949	1178						

Extracted Ion Current Profiles

Pentachlorobiphenyls											
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 326		m/z 324		m/z 254		m/z 256		m/z 258		m/z 392	
25.911	173856	25.912	107353	17.462	3483	17.029	109293	17.029	108708	28.291	138953
26.199	10291	26.193	6786	25.907	85891	17.467	15943	17.470	13883	42.630	3382
28.290	81171	28.293	123247	26.192	8094	25.911	83296	25.914	28573	42.661	1062
31.418	1410	31.424	1969	28.286	36467	26.205	4236	28.281	1014		
33.384	3996	33.353	1106	33.378	1759	28.293	12494				
33.942	1072	33.391	5568								
		33.949	1178								

Extracted Ion Current Profiles

Pentachlorobiphenyls													
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 394		m/z 396		m/z 398		m/z 322		m/z 360		m/z 362		m/z 323	
28.289	323840	28.289	319913	28.290	169659	28.290	74452	26.198	186164	26.198	148254	26.197	32880
31.423	3448	31.421	3109	31.417	1790	31.418	1229	28.298	6217	28.294	3515	28.289	16769
33.376	2271	33.367	1296	42.661	1053	33.395	5897	28.842	2221	28.834	1795	33.398	18366
33.400	2296	33.387	2685					33.387	88631	33.388	41184		
42.619	3140	42.633	3412					42.621	17766	42.633	3900		
42.646	2613							42.671	4499	42.657	2268		

Extracted Ion Current Profiles

Hexachlorobiphenyls											
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 360		m/z 362		m/z 288		m/z 290		m/z 426		m/z 428	
26.198	186164	26.198	148254	25.906	2286	17.469	128497	33.386	109920	33.392	282679
28.298	6217	28.294	3515	26.199	67396	24.122	1103	42.632	121955	33.836	1096
28.842	2221	28.834	1795	28.285	8308	25.910	12012			42.563	1620
33.387	88631	33.388	41184	28.835	1070	26.199	89068			42.635	131566
42.621	17766	42.633	3900	33.388	41636	28.295	6762			42.707	1367
42.671	4499	42.657	2268			28.844	1402				
						33.389	21974				

Extracted Ion Current Profiles

Hexachlorobiphenyls															
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 430		m/z 432		m/z 356		m/z 392		m/z 394		m/z 396		m/z 398		m/z 357	
33.392	324613	33.389	212069	33.388	54137	28.291	138953	28.289	323840	28.289	319913	28.290	169659	28.289	14930
33.839	1510	42.626	20204	42.638	67359	42.630	3382	31.423	3448	31.421	3109	31.417	1790	33.393	13618
42.637	100363	42.642	21147			42.661	1062	33.376	2271	33.367	1296	42.661	1053	33.945	1224
								33.400	2296	33.387	2685			41.184	1014
								42.619	3140	42.633	3412			42.635	16405
								42.646	2613						

Extracted Ion Current Profiles

Heptachlorobiphenyls											
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 394		m/z 396		m/z 322		m/z 324		m/z 326		m/z 462	
28.289	323840	28.289	319913	28.290	74452	25.912	107353	25.911	173856	37.861	2278
31.423	3448	31.421	3109	31.418	1229	26.193	6786	26.199	10291	38.342	1918
33.376	2271	33.367	1296	33.395	5897	28.293	123247	28.290	81171	42.606	1615
33.400	2296	33.387	2685			31.424	1969	31.418	1410	42.644	3089
42.619	3140	42.633	3412			33.353	1106	33.384	3996		
42.646	2613					33.391	5568	33.942	1072		
						33.949	1178				

Extracted Ion Current Profiles

Heptachlorobiphenyls													
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 464		m/z 466		m/z 390		m/z 428		m/z 430		m/z 432		m/z 391	
37.868	3071	37.858	2481	42.605	1386	33.392	282679	33.392	324613	33.389	212069	33.380	4541
38.353	2475	38.337	1903	42.640	2190	33.836	1096	33.839	1510	42.626	20204	33.400	6040
42.615	3670	42.634	5093			42.563	1620	42.637	100363	42.642	21147	42.633	21858
42.653	3320					42.635	131566						
						42.707	1367						

Extracted Ion Current Profiles

Octachlorobiphenyls											
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 430		m/z 428		m/z 356		m/z 358		m/z 360		m/z 462	
33.392	324613	33.392	282679	33.388	54137	26.198	95621	26.198	186164	37.861	2278
33.839	1510	33.836	1096	42.638	67359	28.277	1690	28.298	6217	38.342	1918
42.637	100363	42.563	1620			28.299	1572	28.842	2221	42.606	1615
		42.635	131566			28.842	1197	33.387	88631	42.644	3089
		42.707	1367			33.396	107498	42.621	17766		
						42.596	9048	42.671	4499		
						42.626	14324				
						42.646	28652				

Extracted Ion Current Profiles

Octachlorobiphenyls					
"M3011120"		"M3011120"		"M3011120"	
m/z 464		m/z 466		m/z 425	
37.868	3071	37.858	2481	42.631	16424
38.353	2475	38.337	1903		
42.615	3670	42.634	5093		
42.653	3320				

Extracted Ion Current Profiles

Nonachlorobiphenyls									
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 464		m/z 466		m/z 390		m/z 392		m/z 394	
37.868	3071	37.858	2481	42.605	1386	28.291	138953	28.289	323840
38.353	2475	38.337	1903	42.640	2190	42.630	3382	31.423	3448
42.615	3670	42.634	5093			42.661	1062	33.376	2271
42.653	3320							33.400	2296
								42.619	3140
								42.646	2613

FALSE

Extracted Ion Current Profiles

Decachlorobiphenyl											
"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"		"M3011120"	
m/z 498		m/z 500		m/z 424		m/z 426		m/z 428		m/z 430	
42.634	530165	42.633	463646	42.638	43317	33.386	109920	33.392	282679	33.392	324613
						42.632	121955	33.836	1096	33.839	1510
								42.563	1620	42.637	100363
								42.635	131566		
								42.707	1367		

Extracted Ion Current Profiles

TCMX						Chrysene-d12					Phenanthrene-d10			
"M3011120"		"M3011120"				"M3011120"		"M3011120"			"M3011120"		"M3011120"	
m/z 244		m/z 242		TCMX	chrysene - d_{12}	m/z 240		m/z 241		phenanthrene - d_{10}	m/z 188		m/z 189	
11.963	868	11.961	722	424	240	28.301	1195	28.303	1057	188	9.563	131109	9.566	18866
31.143	436	17.979	265	426	241	33.398	1134	33.389	1877	189	13.441	3857	13.302	1012
32.039	1336	19.532	340	428		34.256	249958	33.412	1214		15.792	247803	13.443	4262
32.063	905	28.285	1127	430		34.571	1705	34.252	51253		16.169	2671	15.793	39519
32.113	327	28.311	725	498							17.034	19301	16.166	1182
36.219	311	34.251	6015	500									17.027	3844
													26.205	1019

Extracted Ion Current Profiles

	Deca C13			
Deca C13	m/z 510		m/z 512	
510	33.384	314	42.618	21775
512	42.614	23469		

Alpha Analytical Deliverable Package

Alpha SDG: L1200005
Client: TRC Environmental Consultants
Site: KEITH MIDDLE SCHOOL

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Sample Receipt

Sample Delivery Group Information

Sample Delivery Group Form

Laboratory Job number: L1200005

Project Number: 115058

Project Name: KEITH MIDDLE SCHOOL **Received:** 12/30/2011 16:30

Client Account: TRC Environmental Consultants **Received by:** DIANNE JANAK

Samples Delivered by: COURIER **Call Tracker #**

Bill Of Laden N/A **Trackingnum**

Coc Present Present

Container Status Intact **Sample IDs**

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt N/A **Are samples Properly Preserved?** Yes

Initial pH **preserved in house with** **Final pH**

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOHCovering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
N/A	Present/Intact	No	No	-	No	No

LIMS Chain of Custody

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jan 30 2012, 03:49 pm

Login Number: L1200005
Account: TRC-LOW-M TRC Environmental ConsultantsProject: 115058
Received: 30DEC11 Due Date: 16JAN12

Sample #	Client ID	Mat	PR	Collected	Container
L1200005-01	C-28	10	S0	29DEC11 00:00	1-Can-6

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list A2-DPKG-FULL Package Due Date: 01/17/12

A2-DPKG-FULL,CAN-RENT,FLOW-RENT,MCP,MCP-TO15,MCP-TO15-SIM

L1200005-02	B-28	10	S0	29DEC11 00:00	1-Can-6

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list Package Due Date: 01/17/12

CAN-RENT,FLOW-RENT,MCP-TO15,MCP-TO15-SIM

L1200005-03	A-28	10	S0	29DEC11 00:00	1-Can-6

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list Package Due Date: 01/17/12

CAN-RENT,FLOW-RENT,MCP-TO15,MCP-TO15-SIM

L1200005-04	BG-28	10	S0	29DEC11 00:00	1-Can-6

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list Package Due Date: 01/17/12

CAN-RENT,FLOW-RENT,MCP-TO15,MCP-TO15-SIM

L1200005-05	BG-28-DUP	10	S0	29DEC11 00:00	1-Can-6

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list Package Due Date: 01/17/12

CAN-RENT,FLOW-RENT,MCP-TO15,MCP-TO15-SIM

L1200005-06	TB-28	10	S0	29DEC11 00:00	1-Can-6

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list Package Due Date: 01/17/12

CAN-RENT,FLOW-RENT,MCP-TO15,MCP-TO15-SIM

Logged By: Dianne Janak

Chain of Custody

L1200005

CHAIN OF CUSTODY RECORD

Project Name: Keith Middle School

Project No.: 115058

Sampling Date(s): 12/29/11

Laboratory: ALPHA

Laboratory P.O.: 39601

Shipping Date(s): 12/30/11

Shipper's Name: TRC

Box No.: 0

	Sample Code	Sampled Date	Container Size	Container G/P	MATRIX	Source Description	ANALYSIS	Vacuum Start	Vacuum End	Serial Numbers Can	Serial Numbers Flow
1	C-28	12/29/11	6L	SUMMA	air	indoor air - faculty dining room	TO-15A VOCs	27.68	7.02	1516	281
2	B-28	12/29/11	6L	SUMMA	air	indoor air - auditorium	TO-15A VOCs	29.15	9.44	1655	139
3	A-28	12/29/11	6L	SUMMA	air	indoor air - hallway (rm 169)	TO-15A VOCs	29.25	9.98	634	428
	0				0	0	0				
4	BG-28	12/29/11	6L	SUMMA	air	background	TO-15A VOCs	29.08	8.90	939	248
5	BG-28-DUP	12/29/11	6L	SUMMA	air	background	TO-15A VOCs	28.72	9.32	641	228
6	TB-28	12/29/11	6L	SUMMA	air	trip blank	TO-15A VOCs	n/a	n/a	1660	117
	0										

Relinquished by: [signature] **Date/Time:** 12/30/11 10:50 **Relinquished by:**

Received by: [signature] **Date/Time:** 12/30/11 11:30 **Received by:** [signature] 12/30/11 1630

Remarks (*):

Rel'd [signature] 12/31/11 00:30

Rec'd [signature] 01/03/12 0900

Organics

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Initial Calibration

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Method File : TSIM111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 11:24:44 2011
Response Via : Initial Calibration

Calibration Files
0.02=R218556.D 0.04=R218557.D 0.1 =R218558.D 0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D
2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D 50 =R218566.D

		Compound	0.02	0.04	0.1	0.2	0.5	1.0	2.5	5.0	10	50	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------											
2)		dichlorodifluorome...	3.534	2.899	2.624	2.335	2.589	2.420	2.349	2.442	2.580	2.594	2.637	13.50
3)	C	chloromethane			0.809	0.708	0.756	0.703	0.663	0.717	0.753	0.740	0.731	5.99
4)		Freon-114	3.521	2.881	2.636	2.418	2.651	2.525	2.348	2.615	2.614	2.627	2.684	12.20
5)	C	vinyl chloride	1.141	0.897	0.844	0.770	0.866	0.814	0.774	0.841	0.881	0.868	0.870	12.01
6)	C	1,3-butadiene	0.708	0.565	0.535	0.497	0.547	0.528	0.477	0.553	0.564	0.561	0.554	11.15
7)	C	bromomethane	1.226	1.033	0.871	0.795	0.895	0.846	0.778	0.888	0.905	0.866	0.910	14.37
8)	C	chloroethane	0.518	0.453	0.369	0.349	0.377	0.370	0.326	0.383	0.386	0.367	0.390	14.24
9)		acetone					1.119	1.094	0.848	1.050	0.990	0.660	0.960	18.34
10)		trichlorofluoromet...	3.395	2.852	2.645	2.417	2.688	2.554	2.315	2.650	2.584	2.407	2.651	11.50
11)	C	acrylonitrile	0.616	0.509	0.352	0.389	0.349	0.382	0.330	0.441	0.436	0.339	0.414	21.82
12)	C	1,1-dichloroethene	1.875	1.548	1.441	1.306	1.465	1.390	1.249	1.438	1.401	1.254	1.437	12.58
13)	C	methylene chloride					1.244	1.092	0.908	1.021	0.986	0.857	1.018	13.58
14)		Freon 113	2.557	2.088	1.859	1.733	1.896	1.841	1.622	1.905	1.866	1.691	1.906	13.79
15)		Halothane	1.553	1.388	1.155	1.104	1.171	1.166	1.112	1.290	1.378	1.129	1.245	12.14
16)		trans-1,2-dichloro...	2.032	1.666	1.518	1.402	1.556	1.509	1.348	1.565	1.554	1.392	1.554	12.44
17)	C	1,1-dichloroethane	2.015	1.679	1.467	1.378	1.490	1.478	1.319	1.530	1.555	1.342	1.525	13.28
18)	C	MTBE	2.461	2.329	1.539	1.698	1.550	1.676	1.479	1.866	1.844	1.276	1.772	21.03
19)	C	2-butanone			1.355	1.431	1.201	1.315	1.122	1.448	1.365	0.868	1.263	15.37
20)		cis-1,2-dichloroet...	1.469	1.114	0.973	1.058	1.002	1.093	0.899	1.189	1.193	0.947	1.094	15.06
21)	C	chloroform	2.188	1.833	1.597	1.522	1.649	1.631	1.477	1.705	1.750	1.593	1.695	11.95
22)	C	1,2-dichloroethane	1.416	1.183	1.009	0.982	1.046	1.060	0.957	1.107	1.138	1.002	1.090	12.39
23)	I	1,4-difluorobenzene	----------ISTD----------											
24)	s	1,2-dichloroethane-D4	0.405	0.350	0.462	0.433	0.395	0.451	0.496	0.362	0.336	0.364	0.405	13.25
25)	C	1,1,1-trichloroethane	0.833	0.607	0.552	0.563	0.576	0.571	0.497	0.565	0.580	0.526	0.587	15.57
26)	C	benzene			0.771	0.738	0.692	0.679	0.589	0.671	0.697	0.625	0.683	8.46
27)	C	carbon tetrachloride	0.862	0.626	0.583	0.598	0.622	0.612	0.538	0.624	0.637	0.604	0.631	13.64
28)	C	1,2-dichloropropane	0.341	0.277	0.224	0.244	0.229	0.236	0.206	0.241	0.260	0.232	0.249	15.18
29)		bromodichloromethane	0.741	0.540	0.489	0.510	0.512	0.512	0.457	0.529	0.560	0.518	0.537	14.36
30)	C	trichloroethene	0.571	0.383	0.370	0.378	0.390	0.383	0.336	0.372	0.390	0.364	0.394	16.32

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Method File : TSIM111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 11:24:44 2011
Response Via : Initial Calibration

Calibration Files
0.02=R218556.D 0.04=R218557.D 0.1 =R218558.D 0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D
2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D 50 =R218566.D

		Compound	0.02	0.04	0.1	0.2	0.5	1.0	2.5	5.0	10	50	Avg	%RSD
31)	C	1,4-Dioxane			0.141	0.147	0.128	0.133	0.113	0.137	0.137	0.108	0.130	10.46
32)	C	cis-1,3-dichloropr...	0.490	0.361	0.309	0.344	0.326	0.341	0.296	0.355	0.385	0.360	0.356	15.05
33)	C	4-methyl-2-pentanone		0.575	0.377	0.433	0.381	0.425	0.373	0.430	0.443	0.341	0.420	16.13
34)		trans-1,3-dichloro...	0.447	0.340	0.279	0.326	0.302	0.328	0.277	0.353	0.376	0.342	0.337	14.73
35)	C	1,1,2-trichloroethane	0.398	0.307	0.254	0.283	0.266	0.275	0.236	0.283	0.299	0.263	0.286	15.43
36)	I	chlorobenzene-D5		----------ISTD----------										
37)	C	toluene		6.368	4.382	4.359	3.902	4.078	3.361	4.130	4.578	3.864	4.336	19.41
38)	s	toluene-D8	5.156	4.434	5.876	5.412	5.042	5.835	6.269	4.688	4.429	5.054	5.220	12.01
39)		dibromochloromethane	3.470	2.599	2.269	2.438	2.455	2.586	2.324	2.857	3.238	2.987	2.722	14.81
40)	C	1,2-dibromoethane	3.238	2.445	2.017	2.253	2.193	2.337	1.948	2.412	2.679	2.359	2.388	15.30
41)	C	tetrachloroethene	3.851	2.745	2.561	2.624	2.708	2.704	2.363	2.720	2.959	2.664	2.790	14.40
42)		1,1,1,2-tetrachlor...	2.417	1.882	1.592	1.746	1.730	1.811	1.604	1.965	2.102	1.781	1.863	13.34
43)	C	chlorobenzene	5.635	3.878	3.105	3.396	3.313	3.462	2.910	3.576	3.848	3.407	3.653	20.71
44)	C	ethylbenzene	8.260	5.825	3.959	4.621	4.168	4.675	3.832	5.121	5.413	4.396	5.027	25.89
45)	C	m+p-xylene	6.099	4.294	2.955	3.526	3.155	3.588	2.970	4.071	4.290	3.445	3.839	24.39
46)	C	bromoform	4.582	2.887	2.260	2.460	2.436	2.661	2.411	3.224	3.745	3.413	3.008	24.55
47)	C	styrene	3.662	2.678	2.007	2.431	2.222	2.582	2.151	3.002	3.222	2.674	2.663	19.29
48)	C	1,1,2,2-tetrachlor...	3.462	2.934	2.208	2.612	2.422	2.721	2.344	3.159	3.346	2.683	2.789	15.30
49)	C	o-xylene	7.054	4.804	3.035	3.646	3.257	3.701	3.060	4.229	4.452	3.546	4.078	29.42
50)	s	bromofluorobenzene	3.680	3.042	4.201	3.902	3.754	4.422	4.605	3.657	3.267	4.038	3.857	12.60
51)	C	isopropylbenzene	8.535	6.222	3.995	5.085	4.481	5.167	4.402	6.031	6.212	4.921	5.505	23.95
52)		4-ethyl toluene	5.863	4.603	3.097	4.157	3.852	4.527	4.078	5.846	5.983	4.744	4.675	20.56
53)		1,3,5-trimethylben...	7.030	4.830	2.686	3.563	3.185	3.734	3.362	4.781	4.857	3.879	4.191	29.68
54)		1,2,4-trimethylben...	5.053	3.789	2.375	3.174	2.854	3.500	3.199	4.626	4.892	3.872	3.733	23.92
55)		1,3-dichlorobenzene	5.380	3.262	2.570	2.937	2.832	3.198	2.714	3.834	4.212	3.697	3.464	24.67
56)	C	1,4-dichlorobenzene	5.336	3.310	2.590	2.904	2.804	3.186	2.679	3.777	4.187	3.745	3.452	24.50
57)		sec-butylbenzene	7.112	5.825	3.736	5.133	4.644	5.679	5.153	7.380	7.660	6.007	5.833	21.52
58)		p-isopropyltoluene	7.745	5.298	2.885	4.082	3.522	4.570	4.321	6.233	6.499	5.078	5.023	29.33
59)		1,2-dichlorobenzene	5.321	3.065	2.293	2.686	2.608	2.961	2.605	3.674	3.933	3.376	3.252	27.37
60)		n-butylbenzene				3.333	3.094	4.085	4.084	5.888	6.168	4.828	4.497	26.46
61)	C	1,2,4-trichloroben...		2.216	1.794	1.757	1.909	2.194	1.995	2.832	3.363	3.149	2.356	25.64

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Method File : TSIM111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 11:24:44 2011
Response Via : Initial Calibration

Calibration Files
0.02=R218556.D 0.04=R218557.D 0.1 =R218558.D 0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D
2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D 50 =R218566.D

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	2.5	5.0	10	50	Avg	%RSD
62)	naphthalene	1.040	0.494	0.393	0.349	0.394	0.378	0.540	0.612	0.550	0.528		40.29#
63)	1,2,3-Trichloroben...	2.441	1.836	1.764	1.949	2.217	2.135	2.914	3.374	3.114	2.416		24.28
64) C	hexachlorobutadiene	1.884	1.741	2.013	2.004	2.416	2.249	3.304	3.654	3.402	2.518		29.10

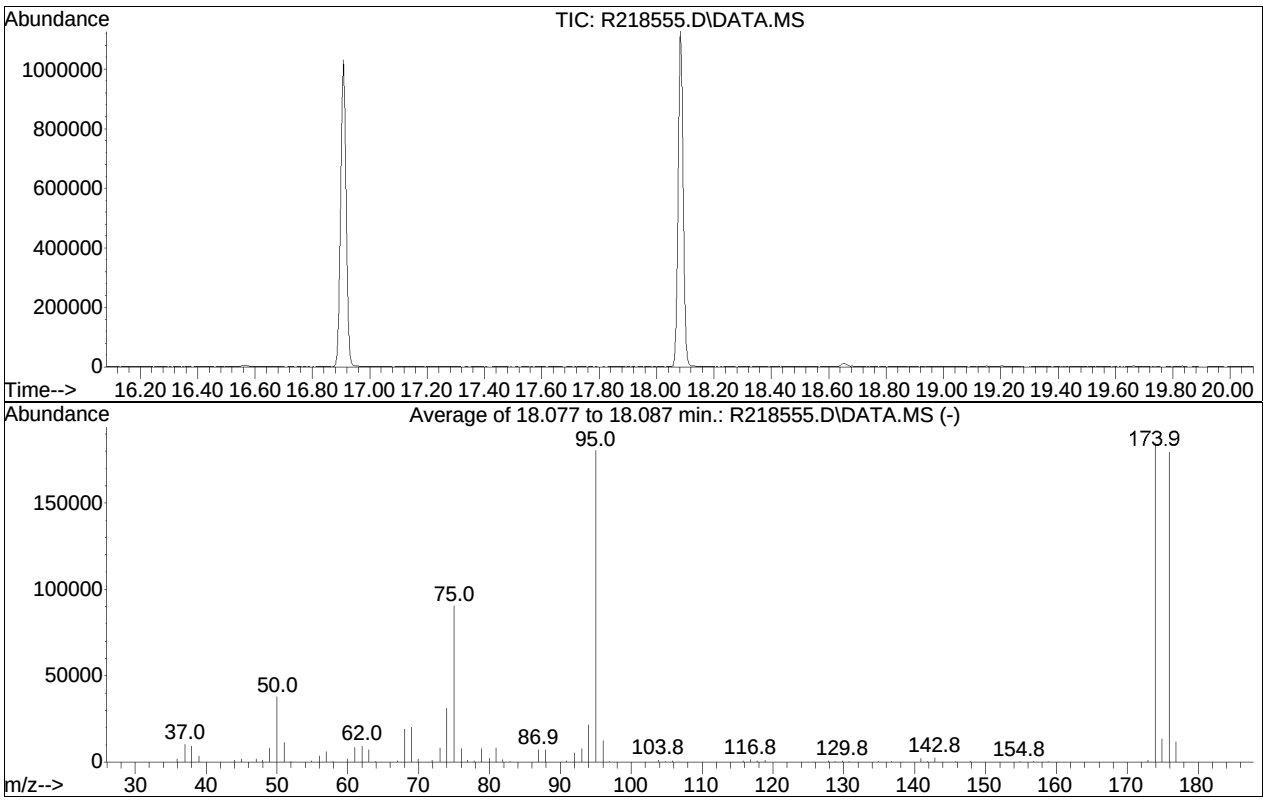
(#) = Out of Range

BFB

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218555.D
Acq On : 21 Dec 2011 4:06 pm
Operator : AIRPIANO2:RY
Sample : wg509972-1,3,250,250
Misc : wg509972
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 11:24:44 2011



AutoFind: Scans 3048, 3049, 3050; Background Corrected with Scan 3041

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.9	37712	PASS
75	95	30	66	50.2	90563	PASS
95	95	100	100	100.0	180416	PASS
96	95	5	9	7.0	12542	PASS
173	174	0.00	2	0.6	1202	PASS
174	95	50	120	102.5	184981	PASS
175	174	4	9	7.3	13457	PASS
176	174	93	101	97.0	179371	PASS
177	176	5	9	6.7	11971	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218556.D
Acq On : 21 Dec 2011 4:43 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.02
Misc : wg509972
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 11:24:30 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.368	49	234455	10.000	ppbV	0.00
Standard Area = 206707			Recovery = 113.42%			
23) 1,4-difluorobenzene	12.550	114	631211	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 96.61%			
36) chlorobenzene-D5	16.904	54	127241	10.000	ppbV	# 0.00
Standard Area = 128289			Recovery = 99.18%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	255750	11.191	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.91%			
38) toluene-D8	15.247	98	655996	10.997	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.97%			
50) bromofluorobenzene	18.089	95	468270	10.064	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.64%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.351	85	1657	0.029	ppbV	100
3) chloromethane	4.577	50	609	0.036	ppbV	95
4) Freon-114	4.728	85	1651	0.027	ppbV	97
5) vinyl chloride	4.894	62	535	0.027	ppbV	94
6) 1,3-butadiene	5.098	54	332	0.026	ppbV	94
7) bromomethane	5.479	94	575	0.028	ppbV	92
8) chloroethane	5.734	64	243	0.027	ppbV	94
9) acetone	6.622	43	4156	0.169	ppbV #	99
10) trichlorofluoromethane	6.791	101	1592	0.026	ppbV	100
11) acrylonitrile	7.216	53	289	0.028	ppbV	96
12) 1,1-dichloroethene	7.619	61	879	0.026	ppbV	98
13) methylene chloride	7.792	49	3322	0.139	ppbV	95
14) Freon 113	8.134	101	1199	0.027	ppbV	93
15) Halothane	8.712	117	728	0.024	ppbV #	82
16) trans-1,2-dichloroethene	8.950	61	953	0.026	ppbV	93
17) 1,1-dichloroethane	9.191	63	945	0.026	ppbV	97
18) MTBE	9.336	73	1154	0.026	ppbV #	93
19) 2-butanone	9.721	43	1572	0.046	ppbV	98
20) cis-1,2-dichloroethene	10.176	61	689	0.025	ppbV	95
21) chloroform	10.521	83	1026	0.026	ppbV #	86
22) 1,2-dichloroethane	11.360	62	664	0.026	ppbV #	55
25) 1,1,1-trichloroethane	11.644	97	1051	0.029	ppbV	98
26) benzene	12.156	78	2122	0.050	ppbV	98
27) carbon tetrachloride	12.326	117	1088	0.028	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218556.D
Acq On : 21 Dec 2011 4:43 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.02
Misc : wg509972
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 11:24:30 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	431	0.028 ppbV #	81
29) bromodichloromethane	13.297	83	936	0.028 ppbV	98
30) trichloroethene	13.343	130	721	0.031 ppbV	98
31) 1,4-Dioxane	13.412	88	629	0.073 ppbV #	73
32) cis-1,3-dichloropropene	14.316	75	618	0.028 ppbV #	87
33) 4-methyl-2-pentanone	14.408	43	1101	0.041 ppbV	99
34) trans-1,3-dichloropropene	14.879	75	564	0.025 ppbV #	85
35) 1,1,2-trichloroethane	15.069	97	502	0.028 ppbV	95
37) toluene	15.342	91	2607	0.050 ppbV	99
39) dibromochloromethane	15.748	129	883	0.024 ppbV	100
40) 1,2-dibromoethane	15.977	107	824	0.027 ppbV	100
41) tetrachloroethene	16.378	166	980	0.028 ppbV	92
42) 1,1,1,2-tetrachloroethane	16.931	131	615	0.025 ppbV	97
43) chlorobenzene	16.942	112	1434	0.032 ppbV #	50
44) ethylbenzene	17.234	91	2102	0.032 ppbV	99
45) m+p-xylene	17.366	91	3104	0.060 ppbV	98
46) bromoform	17.457	173	1166	0.028 ppbV	99
47) styrene	17.656	104	932	0.024 ppbV	98
48) 1,1,2,2-tetrachloroethane	17.737	83	881	0.022 ppbV	100
49) o-xylene	17.737	91	1795M4	0.033 ppbV	
51) isopropylbenzene	18.180	105	2172	0.028 ppbV	99
52) 4-ethyl toluene	18.677	105	1492	0.020 ppbV #	94
53) 1,3,5-trimethylbenzene	18.727	105	1789	0.029 ppbV	97
54) 1,2,4-trimethylbenzene	19.044	105	1286	0.022 ppbV	98
55) 1,3-dichlorobenzene	19.179	146	1369	0.028 ppbV	98
56) 1,4-dichlorobenzene	19.227	146	1358	0.028 ppbV	96
57) sec-butylbenzene	19.246	105	1810	0.019 ppbV	100
58) p-isopropyltoluene	19.361	119	1971	0.025 ppbV	96
59) 1,2-dichlorobenzene	19.492	146	1354	0.029 ppbV	97
60) n-butylbenzene	19.687	91	1306	0.017 ppbV	99
61) 1,2,4-trichlorobenzene	20.953	180	1820	0.051 ppbV	94
62) naphthalene	21.073	128	9178	0.133 ppbV	99
63) 1,2,3-Trichlorobenzene	21.330	180	2125	0.057 ppbV	94
64) hexachlorobutadiene	21.390	225	728	0.017 ppbV	93

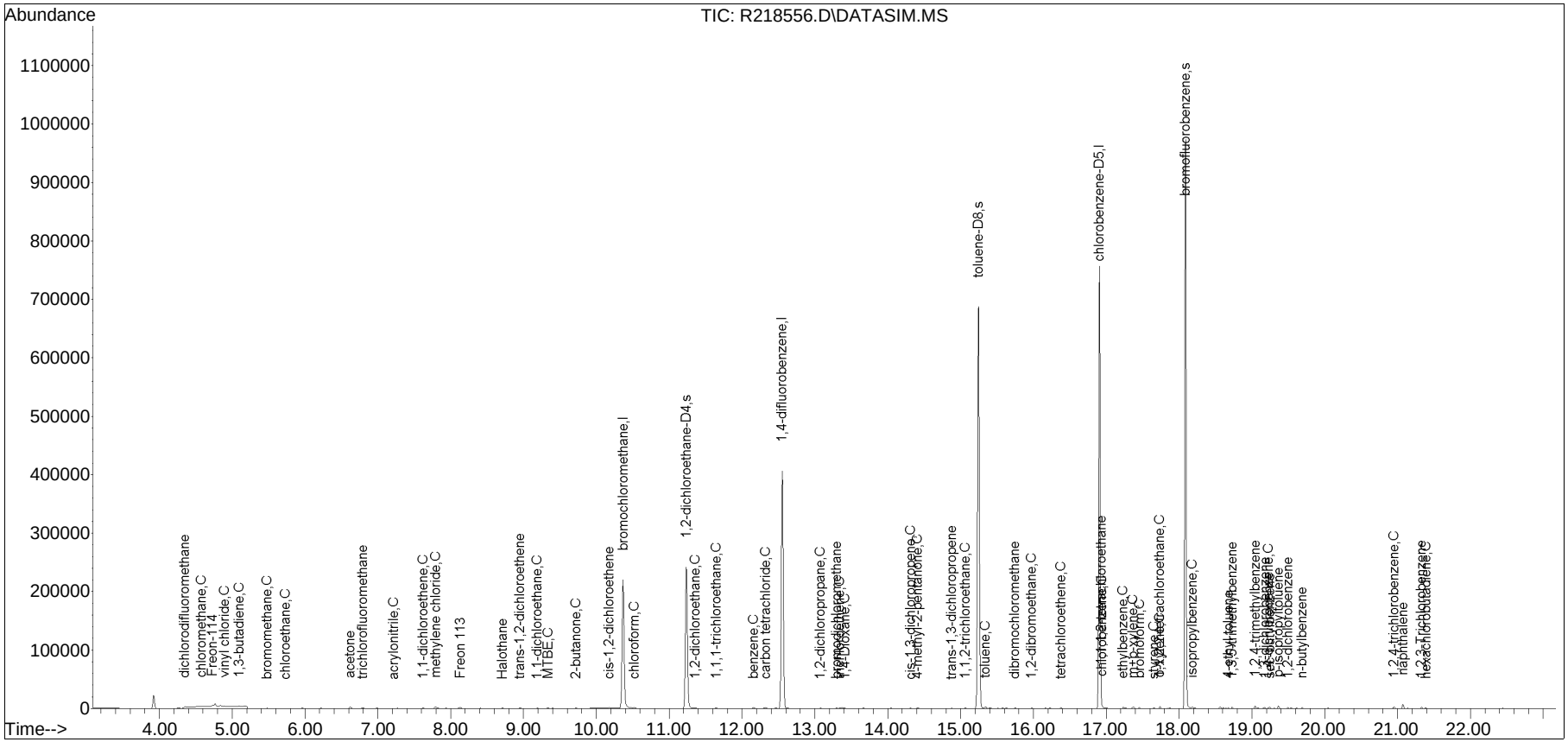
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218556.D
Acq On : 21 Dec 2011 4:43 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.02
Misc : wg509972
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 11:24:30 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

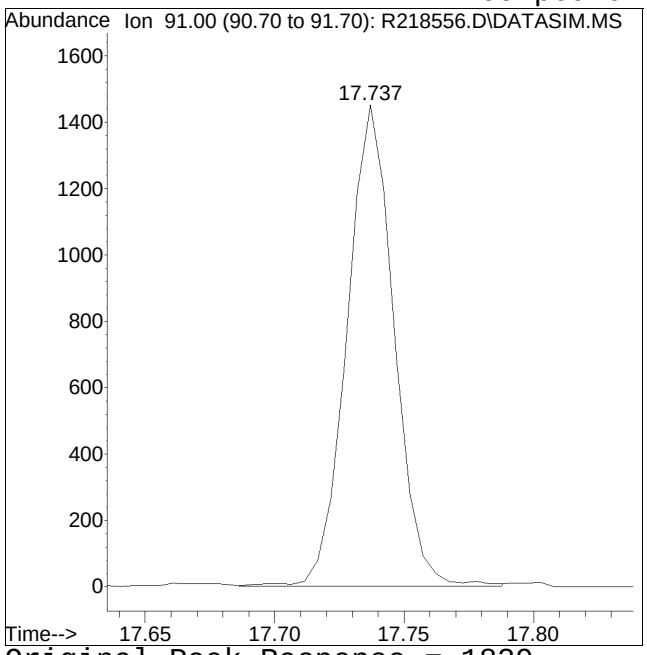


Manual Integration/Negative Proof Report

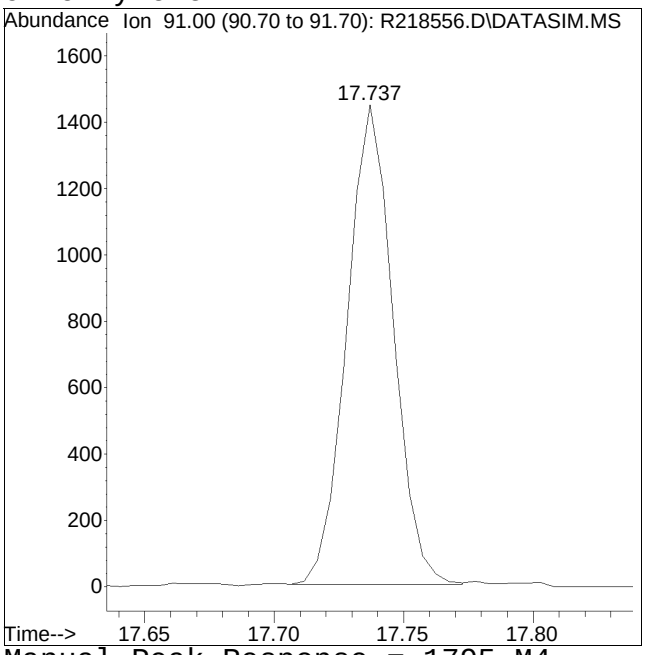
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218556.D
Date Inj'd : 12/21/2011 4:43 pm
Sample : ITO15-SIMSTD0.02

Method : TSIM111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 11:05 am

Compound #49: o-xylene



Original Peak Response = 1829



Manual Peak Response = 1795 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218557.D
Acq On : 21 Dec 2011 5:19 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.04
Misc : wg509972
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 11:13:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	209625	10.000	ppbV	0.00
Standard Area = 206707			Recovery = 101.41%			
23) 1,4-difluorobenzene	12.550	114	643442	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 98.48%			
36) chlorobenzene-D5	16.904	54	126603	10.000	ppbV	# 0.00
Standard Area = 128289			Recovery = 98.69%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	225157	9.665	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.65%			
38) toluene-D8	15.247	98	561316	9.457	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.57%			
50) bromofluorobenzene	18.084	95	385143	8.319	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 83.19%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	2431	0.047	ppbV	99
3) chloromethane	4.572	50	825	0.055	ppbV	96
4) Freon-114	4.728	85	2416	0.044	ppbV	95
5) vinyl chloride	4.889	62	752	0.043	ppbV	96
6) 1,3-butadiene	5.093	54	474	0.041	ppbV #	63
7) bromomethane	5.475	94	866	0.047	ppbV	94
8) chloroethane	5.726	64	380	0.047	ppbV #	87
9) acetone	6.618	43	4449	0.202	ppbV #	99
10) trichlorofluoromethane	6.786	101	2391	0.043	ppbV	100
11) acrylonitrile	7.211	53	427M6	0.046	ppbV	
12) 1,1-dichloroethene	7.619	61	1298	0.043	ppbV	98
13) methylene chloride	7.786	49	3630	0.170	ppbV	95
14) Freon 113	8.129	101	1751	0.044	ppbV	91
15) Halothane	8.712	117	1164	0.043	ppbV #	85
16) trans-1,2-dichloroethene	8.950	61	1397	0.043	ppbV	96
17) 1,1-dichloroethane	9.187	63	1408	0.044	ppbV	98
18) MTBE	9.332	73	1953	0.050	ppbV #	93
19) 2-butanone	9.721	43	2151	0.071	ppbV	99
20) cis-1,2-dichloroethene	10.177	61	934	0.037	ppbV	96
21) chloroform	10.521	83	1537	0.043	ppbV #	86
22) 1,2-dichloroethane	11.356	62	992	0.043	ppbV #	81
25) 1,1,1-trichloroethane	11.644	97	1561	0.043	ppbV	98
26) benzene	12.156	78	2677	0.062	ppbV	100
27) carbon tetrachloride	12.326	117	1610	0.040	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218557.D
Acq On : 21 Dec 2011 5:19 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.04
Misc : wg509972
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 11:13:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	713	0.046 ppbV #	91
29) bromodichloromethane	13.297	83	1389	0.041 ppbV	99
30) trichloroethene	13.344	130	986	0.041 ppbV	98
31) 1,4-Dioxane	13.413	88	650	0.074 ppbV #	80
32) cis-1,3-dichloropropene	14.311	75	928	0.041 ppbV #	86
33) 4-methyl-2-pentanone	14.409	43	1480	0.053 ppbV	97
34) trans-1,3-dichloropropene	14.879	75	876	0.039 ppbV #	88
35) 1,1,2-trichloroethane	15.063	97	791	0.043 ppbV	97
37) toluene	15.342	91	3225	0.062 ppbV	100
39) dibromochloromethane	15.748	129	1316	0.036 ppbV	99
40) 1,2-dibromoethane	15.978	107	1238	0.041 ppbV	99
41) tetrachloroethene	16.378	166	1390	0.040 ppbV	93
42) 1,1,1,2-tetrachloroethane	16.932	131	953	0.038 ppbV	97
43) chlorobenzene	16.943	112	1964	0.043 ppbV #	88
44) ethylbenzene	17.234	91	2950	0.046 ppbV	97
45) m+p-xylene	17.366	91	4349	0.084 ppbV	98
46) bromoform	17.457	173	1462	0.036 ppbV	100
47) styrene	17.656	104	1356	0.036 ppbV	98
48) 1,1,2,2-tetrachloroethane	17.737	83	1486	0.037 ppbV	97
49) o-xylene	17.737	91	2433	0.045 ppbV	98
51) isopropylbenzene	18.180	105	3151	0.041 ppbV	99
52) 4-ethyl toluene	18.674	105	2331	0.031 ppbV #	97
53) 1,3,5-trimethylbenzene	18.727	105	2446	0.040 ppbV	97
54) 1,2,4-trimethylbenzene	19.041	105	1919	0.033 ppbV	92
55) 1,3-dichlorobenzene	19.176	146	1652	0.034 ppbV	97
56) 1,4-dichlorobenzene	19.227	146	1676	0.035 ppbV	97
57) sec-butylbenzene	19.243	105	2950	0.032 ppbV	98
58) p-isopropyltoluene	19.358	119	2683	0.034 ppbV	100
59) 1,2-dichlorobenzene	19.492	146	1552	0.033 ppbV	95
60) n-butylbenzene	19.684	91	1748	0.023 ppbV	100
61) 1,2,4-trichlorobenzene	20.947	180	1122	0.031 ppbV	96
62) naphthalene	21.076	128	5267	0.077 ppbV	98
63) 1,2,3-Trichlorobenzene	21.333	180	1236	0.033 ppbV	94
64) hexachlorobutadiene	21.384	225	954	0.023 ppbV	96

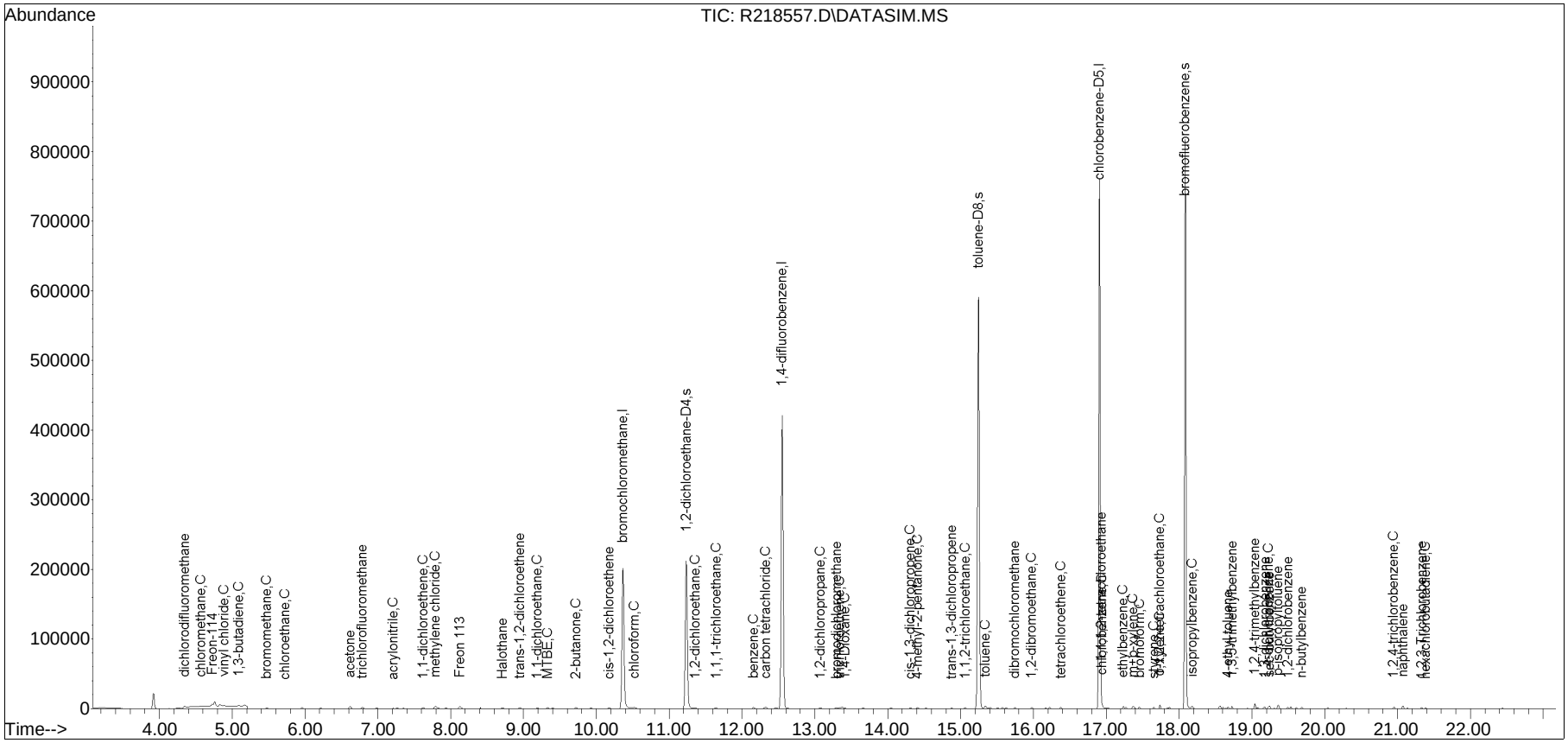
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218557.D
Acq On : 21 Dec 2011 5:19 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.04
Misc : wg509972
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 11:13:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

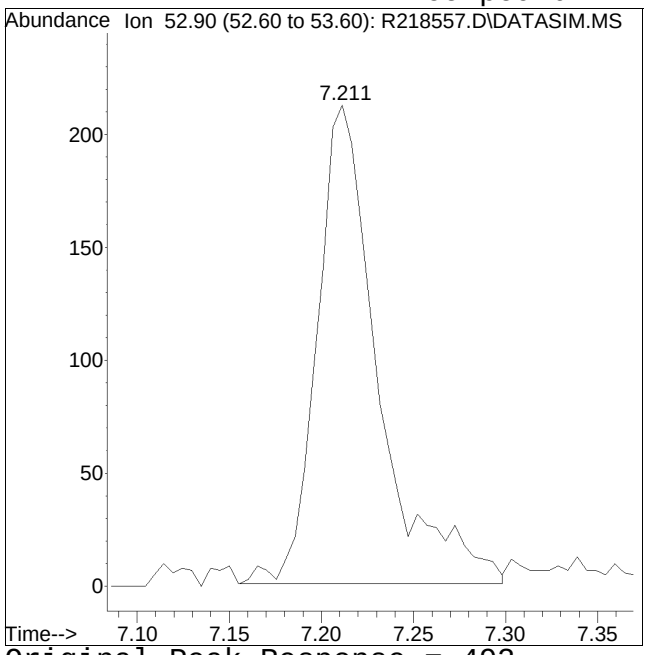


Manual Integration/Negative Proof Report

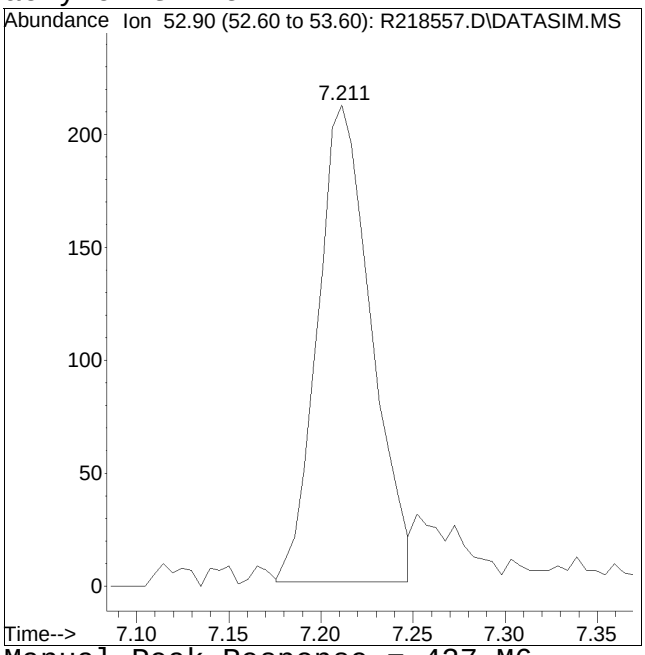
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218557.D
Date Inj'd : 12/21/2011 5:19 pm
Sample : ITO15-SIMSTD0.04

Method : TSIM111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 11:05 am

Compound #11: acrylonitrile



Original Peak Response = 492



Manual Peak Response = 427 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218558.D
Acq On : 21 Dec 2011 5:55 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.1
Misc : wg509972
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 11:12:48 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.362	49	197432	10.000	ppbV	0.00
Standard Area = 206707			Recovery = 95.51%			
23) 1,4-difluorobenzene	12.551	114	600081	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 91.84%			
36) chlorobenzene-D5	16.904	54	121141	10.000	ppbV	# 0.00
Standard Area = 128289			Recovery = 94.43%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	277277	12.763	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 127.63%			
38) toluene-D8	15.247	98	711881	12.534	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 125.34%			
50) bromofluorobenzene	18.089	95	508936	11.489	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.89%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	5181	0.107	ppbV	99
3) chloromethane	4.572	50	1598	0.113	ppbV	98
4) Freon-114	4.722	85	5204	0.101	ppbV	97
5) vinyl chloride	4.889	62	1667	0.100	ppbV	100
6) 1,3-butadiene	5.093	54	1057	0.097	ppbV	83
7) bromomethane	5.475	94	1719	0.098	ppbV	99
8) chloroethane	5.730	64	729	0.096	ppbV	97
9) acetone	6.613	43	5215	0.251	ppbV #	99
10) trichlorofluoromethane	6.786	101	5223	0.100	ppbV	100
11) acrylonitrile	7.211	53	694M6	0.080	ppbV	
12) 1,1-dichloroethene	7.619	61	2845	0.100	ppbV	100
13) methylene chloride	7.787	49	4468	0.222	ppbV	94
14) Freon 113	8.129	101	3670	0.098	ppbV	90
15) Halothane	8.712	117	2281	0.090	ppbV #	84
16) trans-1,2-dichloroethene	8.950	61	2997	0.097	ppbV	97
17) 1,1-dichloroethane	9.187	63	2897	0.096	ppbV	98
18) MTBE	9.328	73	3038	0.082	ppbV	97
19) 2-butanone	9.716	43	2676	0.094	ppbV	97
20) cis-1,2-dichloroethene	10.177	61	1922	0.082	ppbV	96
21) chloroform	10.521	83	3153	0.094	ppbV #	97
22) 1,2-dichloroethane	11.356	62	1992	0.091	ppbV #	89
25) 1,1,1-trichloroethane	11.641	97	3315	0.098	ppbV	99
26) benzene	12.156	78	4624	0.115	ppbV	100
27) carbon tetrachloride	12.326	117	3501	0.094	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218558.D
Acq On : 21 Dec 2011 5:55 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.1
Misc : wg509972
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 11:12:48 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	1342	0.093 ppbV #	91
29) bromodichloromethane	13.298	83	2933	0.092 ppbV	99
30) trichloroethene	13.344	130	2223	0.100 ppbV	97
31) 1,4-Dioxane	13.405	88	844	0.102 ppbV	96
32) cis-1,3-dichloropropene	14.311	75	1853	0.087 ppbV	90
33) 4-methyl-2-pentanone	14.399	43	2265	0.088 ppbV	98
34) trans-1,3-dichloropropene	14.879	75	1675	0.079 ppbV	91
35) 1,1,2-trichloroethane	15.063	97	1527	0.090 ppbV	96
37) toluene	15.342	91	5308	0.106 ppbV	99
39) dibromochloromethane	15.748	129	2749	0.079 ppbV	100
40) 1,2-dibromoethane	15.978	107	2444	0.084 ppbV	100
41) tetrachloroethene	16.378	166	3102	0.094 ppbV	92
42) 1,1,1,2-tetrachloroethane	16.932	131	1928	0.081 ppbV	95
43) chlorobenzene	16.943	112	3762	0.087 ppbV	95
44) ethylbenzene	17.234	91	4796	0.077 ppbV	98
45) m+p-xylene	17.366	91	7160	0.145 ppbV	97
46) bromoform	17.458	173	2738	0.070 ppbV	100
47) styrene	17.656	104	2431	0.067 ppbV	98
48) 1,1,2,2-tetrachloroethane	17.737	83	2675	0.070 ppbV	99
49) o-xylene	17.737	91	3677	0.072 ppbV	97
51) isopropylbenzene	18.181	105	4840	0.066 ppbV	99
52) 4-ethyl toluene	18.677	105	3752	0.053 ppbV #	96
53) 1,3,5-trimethylbenzene	18.727	105	3254	0.056 ppbV	96
54) 1,2,4-trimethylbenzene	19.041	105	2877	0.051 ppbV	92
55) 1,3-dichlorobenzene	19.176	146	3113	0.067 ppbV	97
56) 1,4-dichlorobenzene	19.227	146	3137	0.069 ppbV	97
57) sec-butylbenzene	19.243	105	4526	0.051 ppbV	99
58) p-isopropyltoluene	19.358	119	3495	0.046 ppbV	99
59) 1,2-dichlorobenzene	19.496	146	2778	0.062 ppbV	98
60) n-butylbenzene	19.684	91	3060	0.043 ppbV	98
61) 1,2,4-trichlorobenzene	20.953	180	2173	0.063 ppbV	94
62) naphthalene	21.073	128	5984	0.091 ppbV	98
63) 1,2,3-Trichlorobenzene	21.330	180	2224	0.063 ppbV	94
64) hexachlorobutadiene	21.381	225	2109	0.053 ppbV	95

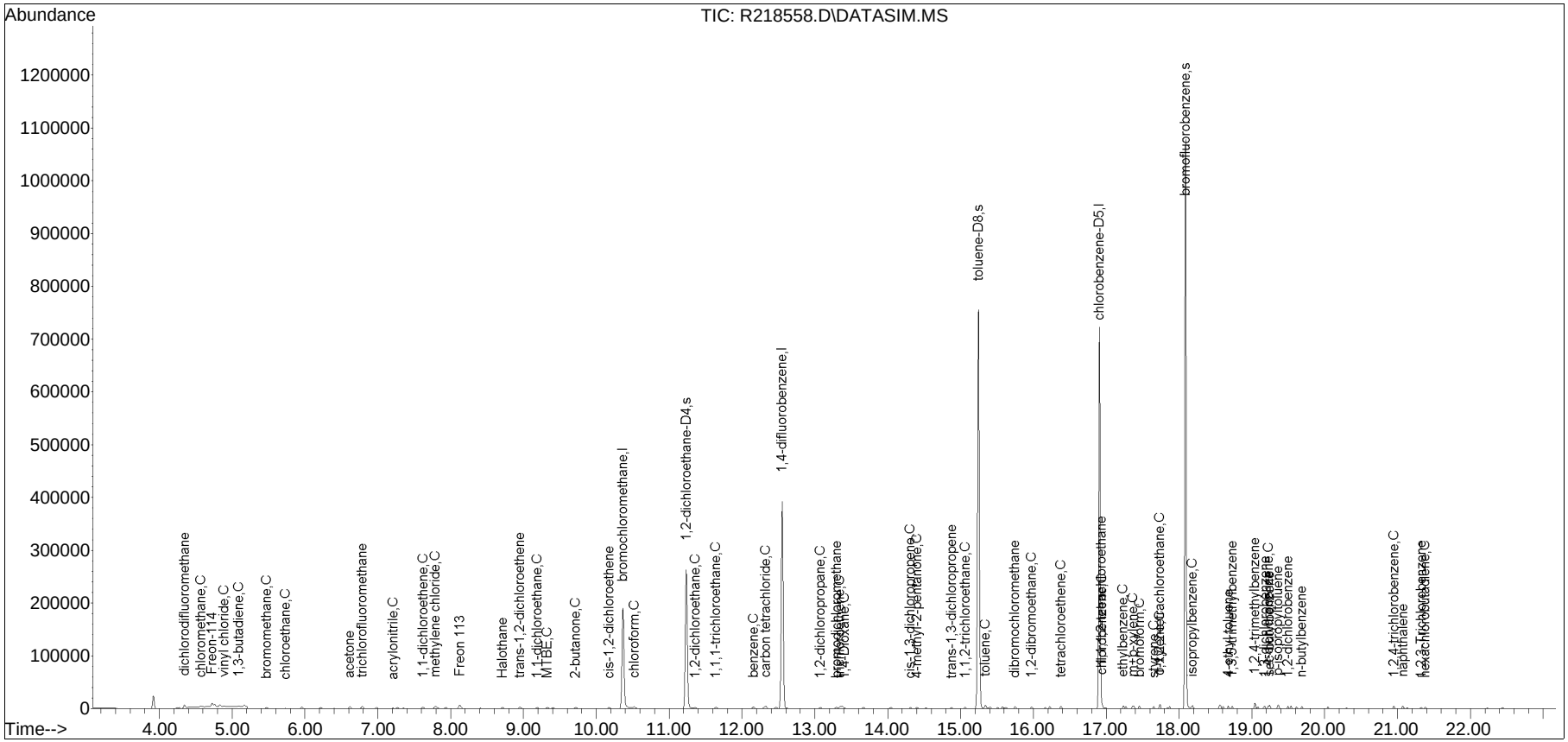
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218558.D
Acq On : 21 Dec 2011 5:55 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.1
Misc : wg509972
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 11:12:48 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

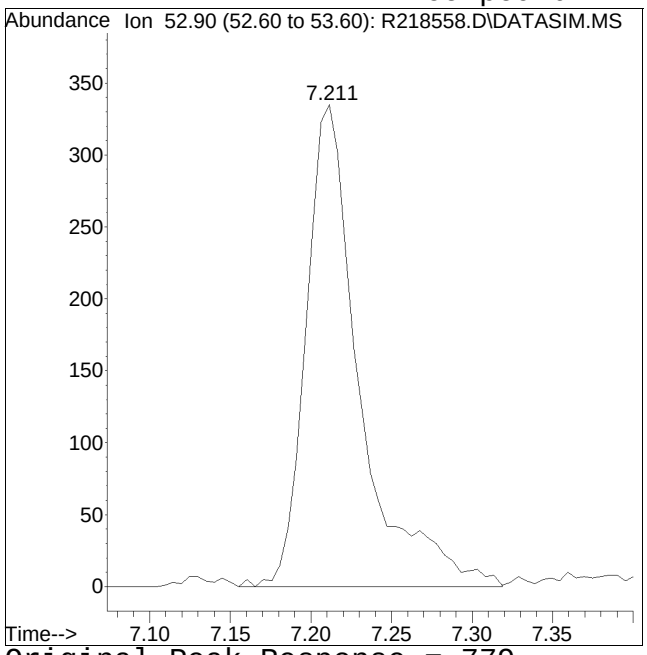


Manual Integration/Negative Proof Report

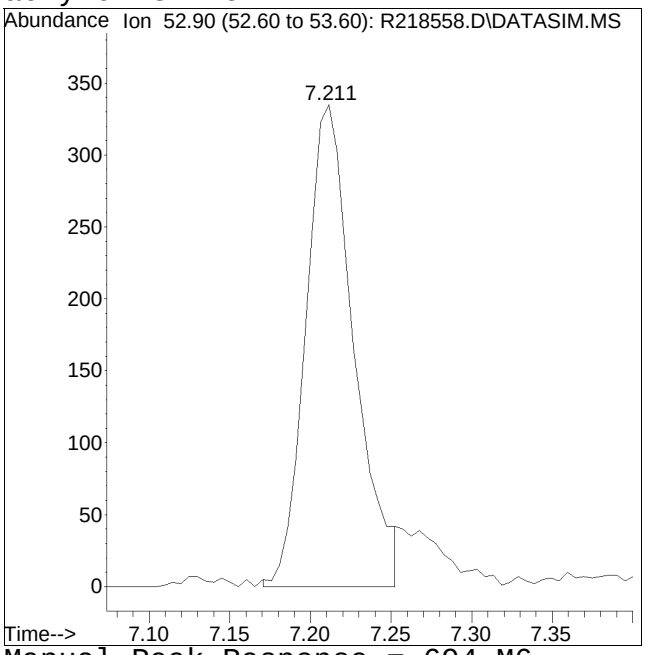
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218558.D
Date Inj'd : 12/21/2011 5:55 pm
Sample : ITO15-SIMSTD0.1

Method : TSIM111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 11:05 am

Compound #11: acrylonitrile



Original Peak Response = 779



Manual Peak Response = 694 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.2
Misc : wg509972
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 11:11:58 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	218766	10.000	ppbV	0.00
Standard Area = 206707			Recovery = 105.83%			
23) 1,4-difluorobenzene	12.550	114	607828	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 93.03%			
36) chlorobenzene-D5	16.904	54	122826	10.000	ppbV	# 0.00
Standard Area = 128289			Recovery = 95.74%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	263065	11.954	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.54%			
38) toluene-D8	15.247	98	664745	11.544	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.44%			
50) bromofluorobenzene	18.084	95	479247	10.671	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.71%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	10216	0.191	ppbV	100
3) chloromethane	4.572	50	3098	0.197	ppbV	100
4) Freon-114	4.728	85	10580	0.185	ppbV	97
5) vinyl chloride	4.889	62	3369	0.183	ppbV	100
6) 1,3-butadiene	5.093	54	2173	0.180	ppbV	92
7) bromomethane	5.475	94	3479	0.179	ppbV	99
8) chloroethane	5.730	64	1528	0.182	ppbV	97
9) acetone	6.613	43	8421	0.366	ppbV #	99
10) trichlorofluoromethane	6.791	101	10576	0.182	ppbV	99
11) acrylonitrile	7.211	53	1700M6	0.176	ppbV	
12) 1,1-dichloroethene	7.619	61	5715	0.182	ppbV	99
13) methylene chloride	7.786	49	6708	0.300	ppbV	96
14) Freon 113	8.129	101	7581	0.182	ppbV	92
15) Halothane	8.712	117	4832	0.171	ppbV #	84
16) trans-1,2-dichloroethene	8.950	61	6135	0.179	ppbV	97
17) 1,1-dichloroethane	9.191	63	6028	0.180	ppbV	99
18) MTBE	9.321	73	7429	0.182	ppbV	98
19) 2-butanone	9.711	43	6263	0.198	ppbV	99
20) cis-1,2-dichloroethene	10.177	61	4627	0.178	ppbV	94
21) chloroform	10.521	83	6659	0.179	ppbV	97
22) 1,2-dichloroethane	11.360	62	4295	0.177	ppbV	99
25) 1,1,1-trichloroethane	11.644	97	6845	0.199	ppbV	99
26) benzene	12.156	78	8970	0.220	ppbV	100
27) carbon tetrachloride	12.326	117	7273	0.192	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.2
Misc : wg509972
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 11:11:58 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	2967	0.202 ppbV #	92
29) bromodichloromethane	13.297	83	6195	0.193 ppbV	99
30) trichloroethene	13.343	130	4601	0.204 ppbV	98
31) 1,4-Dioxane	13.397	88	1789	0.214 ppbV	91
32) cis-1,3-dichloropropene	14.311	75	4178	0.194 ppbV	93
33) 4-methyl-2-pentanone	14.395	43	5267	0.202 ppbV	98
34) trans-1,3-dichloropropene	14.879	75	3967	0.185 ppbV	93
35) 1,1,2-trichloroethane	15.063	97	3445	0.201 ppbV	97
37) toluene	15.342	91	10707	0.211 ppbV	99
39) dibromochloromethane	15.748	129	5988	0.171 ppbV	99
40) 1,2-dibromoethane	15.977	107	5535	0.187 ppbV	100
41) tetrachloroethene	16.378	166	6446	0.193 ppbV	93
42) 1,1,1,2-tetrachloroethane	16.931	131	4290	0.178 ppbV	97
43) chlorobenzene	16.943	112	8343	0.190 ppbV	93
44) ethylbenzene	17.234	91	11352	0.180 ppbV	98
45) m+p-xylene	17.366	91	17325	0.347 ppbV	97
46) bromoform	17.457	173	6042	0.153 ppbV	99
47) styrene	17.656	104	5971	0.162 ppbV	98
48) 1,1,2,2-tetrachloroethane	17.737	83	6417	0.165 ppbV	99
49) o-xylene	17.737	91	8956	0.172 ppbV	98
51) isopropylbenzene	18.175	105	12492	0.169 ppbV	99
52) 4-ethyl toluene	18.660	105	10212	0.142 ppbV	96
53) 1,3,5-trimethylbenzene	18.711	105	8752	0.149 ppbV	97
54) 1,2,4-trimethylbenzene	19.025	105	7797	0.137 ppbV	93
55) 1,3-dichlorobenzene	19.163	146	7215	0.153 ppbV	98
56) 1,4-dichlorobenzene	19.211	146	7133	0.154 ppbV	98
57) sec-butylbenzene	19.230	105	12609	0.139 ppbV	99
58) p-isopropyltoluene	19.345	119	10027	0.131 ppbV	99
59) 1,2-dichlorobenzene	19.483	146	6599	0.146 ppbV	98
60) n-butylbenzene	19.671	91	8188	0.113 ppbV	99
61) 1,2,4-trichlorobenzene	20.944	180	4316	0.124 ppbV	95
62) naphthalene	21.064	128	9645	0.145 ppbV	99
63) 1,2,3-Trichlorobenzene	21.321	180	4333	0.121 ppbV	94
64) hexachlorobutadiene	21.373	225	4945	0.122 ppbV	95

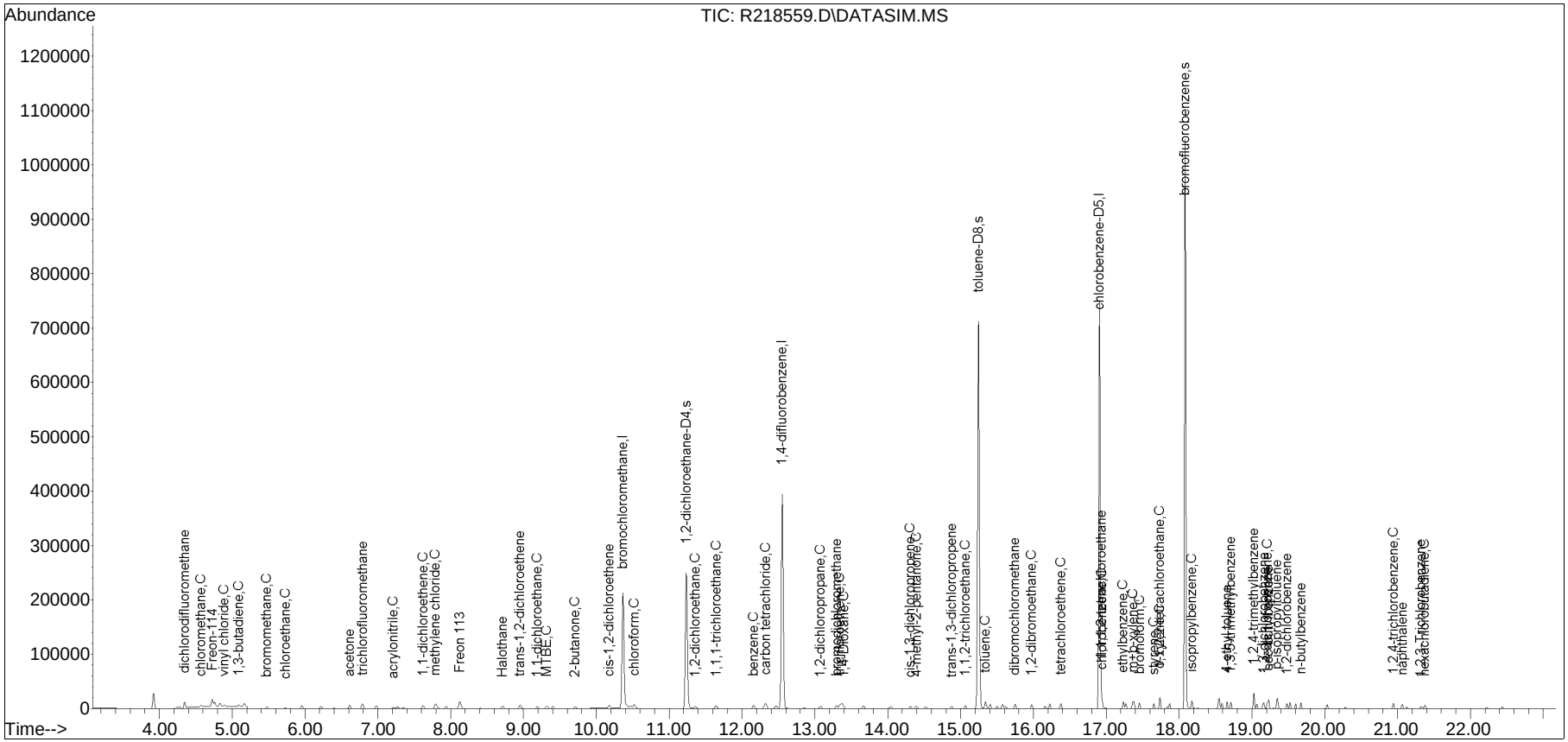
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.2
Misc : wg509972
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 11:11:58 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

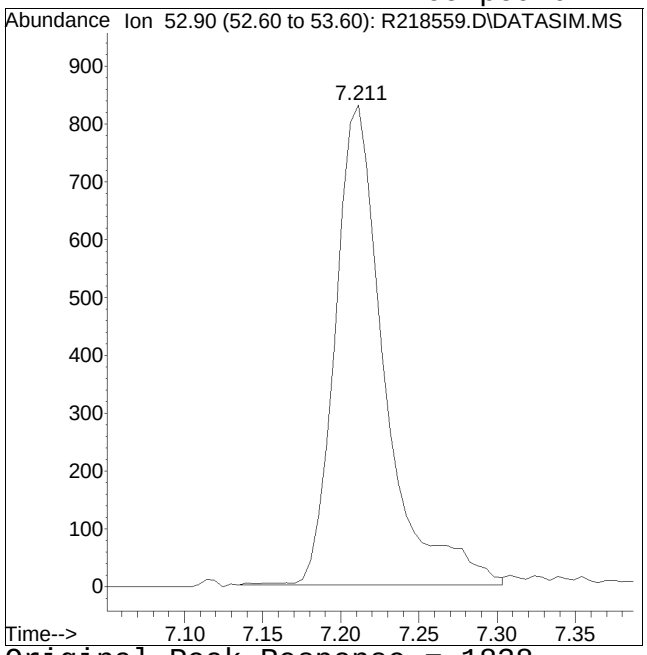


Manual Integration/Negative Proof Report

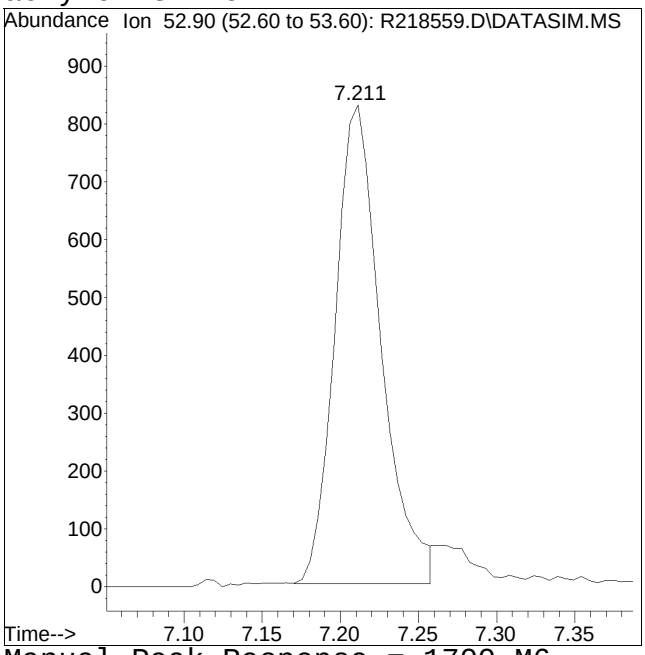
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218559.D
Date Inj'd : 12/21/2011 6:32 pm
Sample : ITO15-SIMSTD0.2

Method : TSIM111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 11:06 am

Compound #11: acrylonitrile



Original Peak Response = 1838



Manual Peak Response = 1700 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.5
Misc : wg509972
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 11:06:09 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.362	49	198171	10.000	ppbV	0.00
Standard Area = 206707			Recovery = 95.87%			
23) 1,4-difluorobenzene	12.551	114	597489	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 91.44%			
36) chlorobenzene-D5	16.904	54	117784	10.000	ppbV	# 0.00
Standard Area = 128289			Recovery = 91.81%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	235780	10.900	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.00%			
38) toluene-D8	15.247	98	593843	10.754	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.54%			
50) bromofluorobenzene	18.084	95	442137	10.266	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.66%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	25657	0.530	ppbV	100
3) chloromethane	4.572	50	7489	0.527	ppbV	100
4) Freon-114	4.728	85	26268	0.507	ppbV	97
5) vinyl chloride	4.889	62	8584	0.515	ppbV	100
6) 1,3-butadiene	5.093	54	5424	0.495	ppbV	95
7) bromomethane	5.475	94	8869	0.504	ppbV	98
8) chloroethane	5.730	64	3737	0.492	ppbV	100
9) acetone	6.608	43	11092	0.533	ppbV #	100
10) trichlorofluoromethane	6.791	101	26632	0.507	ppbV	100
11) acrylonitrile	7.206	53	3458	0.395	ppbV	99
12) 1,1-dichloroethene	7.619	61	14513	0.509	ppbV	100
13) methylene chloride	7.787	49	12329	0.609	ppbV	95
14) Freon 113	8.129	101	18782	0.498	ppbV	91
15) Halothane	8.712	117	11599	0.454	ppbV #	83
16) trans-1,2-dichloroethene	8.950	61	15420	0.497	ppbV	98
17) 1,1-dichloroethane	9.191	63	14759	0.487	ppbV	99
18) MTBE	9.313	73	15360	0.415	ppbV	98
19) 2-butanone	9.706	43	11904	0.415	ppbV	97
20) cis-1,2-dichloroethene	10.177	61	9925	0.421	ppbV	95
21) chloroform	10.521	83	16342	0.484	ppbV	97
22) 1,2-dichloroethane	11.356	62	10366	0.472	ppbV	98
25) 1,1,1-trichloroethane	11.644	97	17214	0.510	ppbV	99
26) benzene	12.156	78	20688	0.516	ppbV	100
27) carbon tetrachloride	12.326	117	18567	0.498	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.5
Misc : wg509972
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 11:06:09 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	6837	0.474	ppbV #	93
29) bromodichloromethane	13.298	83	15288	0.483	ppbV	99
30) trichloroethene	13.344	130	11662	0.525	ppbV	98
31) 1,4-Dioxane	13.390	88	3822	0.466	ppbV	97
32) cis-1,3-dichloropropene	14.311	75	9733	0.459	ppbV	93
33) 4-methyl-2-pentanone	14.381	43	11370	0.443	ppbV	97
34) trans-1,3-dichloropropene	14.879	75	9027	0.427	ppbV	94
35) 1,1,2-trichloroethane	15.063	97	7954	0.471	ppbV	96
37) toluene	15.342	91	22977	0.472	ppbV	100
39) dibromochloromethane	15.748	129	14459	0.430	ppbV	99
40) 1,2-dibromoethane	15.975	107	12913	0.455	ppbV	100
41) tetrachloroethene	16.378	166	15948	0.498	ppbV	92
42) 1,1,1,2-tetrachloroethane	16.926	131	10189	0.440	ppbV	98
43) chlorobenzene	16.943	112	19510	0.463	ppbV	96
44) ethylbenzene	17.234	91	24546	0.407	ppbV	98
45) m+p-xylene	17.376	91	37164	0.775	ppbV	97
46) bromoform	17.458	173	14349	0.378	ppbV	99
47) styrene	17.656	104	13083	0.370	ppbV	99
48) 1,1,2,2-tetrachloroethane	17.737	83	14266	0.383	ppbV	99
49) o-xylene	17.737	91	19184	0.385	ppbV	97
51) isopropylbenzene	18.175	105	26387	0.371	ppbV	99
52) 4-ethyl toluene	18.657	105	22687	0.330	ppbV	96
53) 1,3,5-trimethylbenzene	18.711	105	18755	0.333	ppbV	97
54) 1,2,4-trimethylbenzene	19.022	105	16808	0.308	ppbV	93
55) 1,3-dichlorobenzene	19.160	146	16681	0.369	ppbV	98
56) 1,4-dichlorobenzene	19.208	146	16513	0.371	ppbV	98
57) sec-butylbenzene	19.227	105	27350	0.315	ppbV	99
58) p-isopropyltoluene	19.342	119	20743	0.283	ppbV	99
59) 1,2-dichlorobenzene	19.480	146	15358	0.355	ppbV	98
60) n-butylbenzene	19.668	91	18221	0.263	ppbV	98
61) 1,2,4-trichlorobenzene	20.936	180	11240	0.337	ppbV	94
62) naphthalene	21.064	128	20574	0.323	ppbV	98
63) 1,2,3-Trichlorobenzene	21.321	180	11479	0.334	ppbV	94
64) hexachlorobutadiene	21.373	225	11801	0.303	ppbV	95

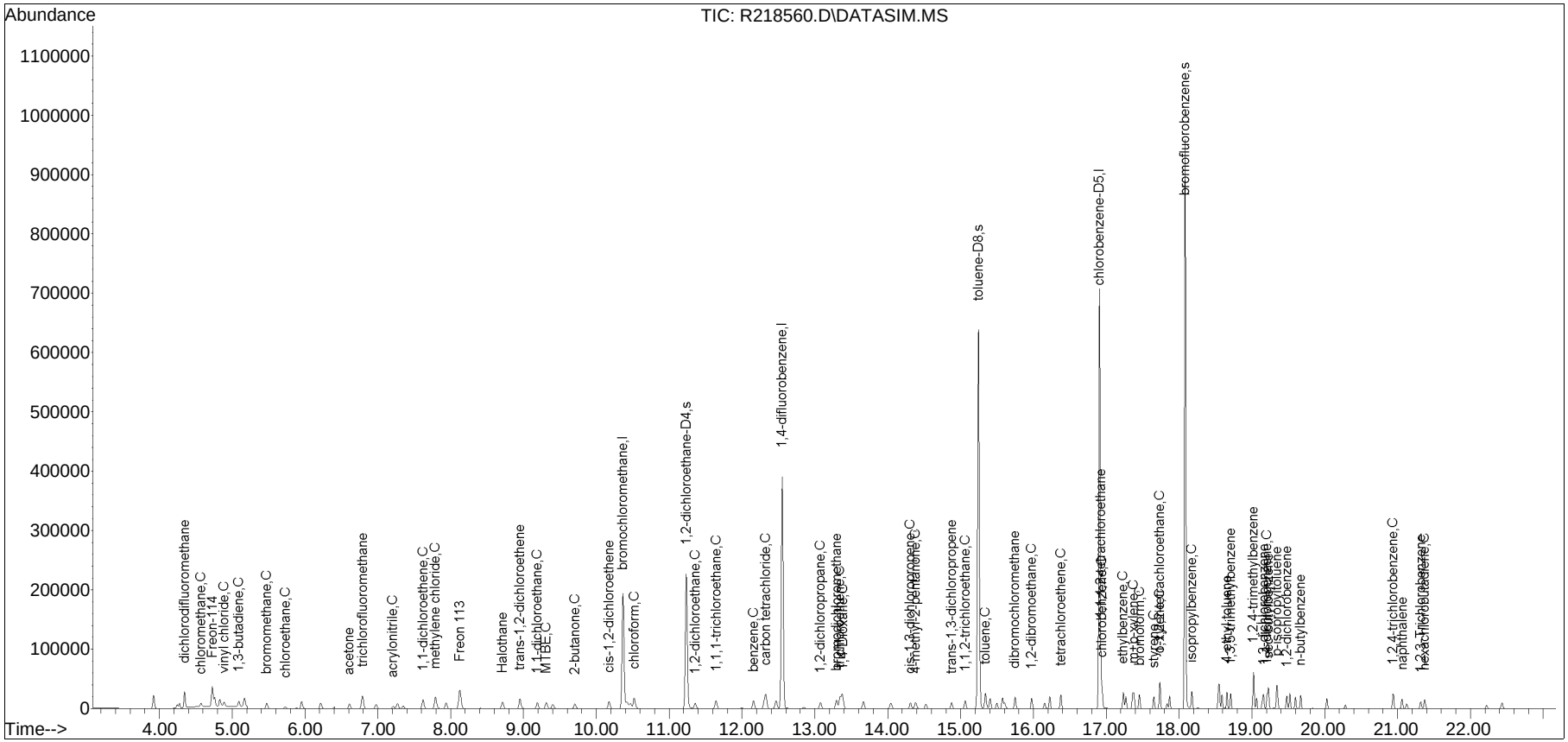
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.5
Misc : wg509972
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 11:06:09 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TSIM111221.M
Data File	: R218560.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/21/2011 7:09 pm	Instrument	: Air Piano 2
Sample	: ITO15-SIMSTD0.5	Quant Date	: 12/22/2011 11:06 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD1.0
Misc : wg509972
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 11:10:19 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	200056	10.000	ppbV	0.00
Standard Area = 206707			Recovery = 96.78%			
23) 1,4-difluorobenzene	12.550	114	599464	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 91.75%			
36) chlorobenzene-D5	16.904	54	116791	10.000	ppbV	0.00
Standard Area = 128289			Recovery = 91.04%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	270149	12.448	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 124.48%			
38) toluene-D8	15.241	98	681531	12.447	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 124.47%			
50) bromofluorobenzene	18.084	95	516448	12.093	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.93%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	48413	0.991	ppbV	100
3) chloromethane	4.572	50	14055	0.979	ppbV	99
4) Freon-114	4.728	85	50523	0.966	ppbV	97
5) vinyl chloride	4.889	62	16277	0.967	ppbV	100
6) 1,3-butadiene	5.093	54	10553	0.954	ppbV	97
7) bromomethane	5.475	94	16925	0.953	ppbV	99
8) chloroethane	5.730	64	7405	0.965	ppbV	100
9) acetone	6.604	43	21893	1.042	ppbV #	99
10) trichlorofluoromethane	6.791	101	51094	0.964	ppbV	100
11) acrylonitrile	7.206	53	7647M6	0.866	ppbV	
12) 1,1-dichloroethene	7.619	61	27807	0.966	ppbV	99
13) methylene chloride	7.786	49	21855	1.070	ppbV	95
14) Freon 113	8.129	101	36828	0.967	ppbV	91
15) Halothane	8.712	117	23324	0.904	ppbV #	83
16) trans-1,2-dichloroethene	8.950	61	30186	0.964	ppbV	97
17) 1,1-dichloroethane	9.191	63	29569	0.966	ppbV	100
18) MTBE	9.302	73	33524	0.898	ppbV	98
19) 2-butanone	9.698	43	26303	0.908	ppbV	98
20) cis-1,2-dichloroethene	10.170	61	21857	0.919	ppbV	96
21) chloroform	10.521	83	32627	0.957	ppbV	97
22) 1,2-dichloroethane	11.356	62	21196	0.957	ppbV	98
25) 1,1,1-trichloroethane	11.644	97	34233	1.010	ppbV	99
26) benzene	12.156	78	40731	1.013	ppbV	99
27) carbon tetrachloride	12.326	117	36717	0.982	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD1.0
Misc : wg509972
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 11:10:19 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	14131	0.977	ppbV #	93
29) bromodichloromethane	13.297	83	30665	0.967	ppbV	99
30) trichloroethene	13.343	130	22964	1.031	ppbV	98
31) 1,4-Dioxane	13.374	88	7986	0.971	ppbV	95
32) cis-1,3-dichloropropene	14.311	75	20417	0.961	ppbV	93
33) 4-methyl-2-pentanone	14.371	43	25478	0.988	ppbV	98
34) trans-1,3-dichloropropene	14.879	75	19667	0.928	ppbV	94
35) 1,1,2-trichloroethane	15.063	97	16491	0.973	ppbV	97
37) toluene	15.342	91	47625	0.987	ppbV	100
39) dibromochloromethane	15.748	129	30201	0.905	ppbV	100
40) 1,2-dibromoethane	15.975	107	27289	0.969	ppbV	100
41) tetrachloroethene	16.378	166	31584	0.994	ppbV	92
42) 1,1,1,2-tetrachloroethane	16.926	131	21155	0.922	ppbV	98
43) chlorobenzene	16.942	112	40428	0.968	ppbV	96
44) ethylbenzene	17.234	91	54594	0.913	ppbV	98
45) m+p-xylene	17.376	91	83807	1.763	ppbV	98
46) bromoform	17.457	173	31080	0.825	ppbV	99
47) styrene	17.656	104	30156	0.860	ppbV	99
48) 1,1,2,2-tetrachloroethane	17.732	83	31778	0.861	ppbV	98
49) o-xylene	17.737	91	43230	0.875	ppbV	98
51) isopropylbenzene	18.175	105	60347	0.857	ppbV	99
52) 4-ethyl toluene	18.660	105	52869	0.774	ppbV	98
53) 1,3,5-trimethylbenzene	18.714	105	43611	0.781	ppbV	97
54) 1,2,4-trimethylbenzene	19.028	105	40875	0.757	ppbV	95
55) 1,3-dichlorobenzene	19.163	146	37352	0.834	ppbV	98
56) 1,4-dichlorobenzene	19.214	146	37215	0.844	ppbV	98
57) sec-butylbenzene	19.233	105	66321	0.769	ppbV	98
58) p-isopropyltoluene	19.345	119	53371	0.733	ppbV	99
59) 1,2-dichlorobenzene	19.483	146	34585	0.806	ppbV	98
60) n-butylbenzene	19.674	91	47704	0.694	ppbV	99
61) 1,2,4-trichlorobenzene	20.944	180	25627	0.775	ppbV	94
62) naphthalene	21.064	128	46063	0.730	ppbV	99
63) 1,2,3-Trichlorobenzene	21.321	180	25897	0.761	ppbV	94
64) hexachlorobutadiene	21.372	225	28217	0.731	ppbV	94

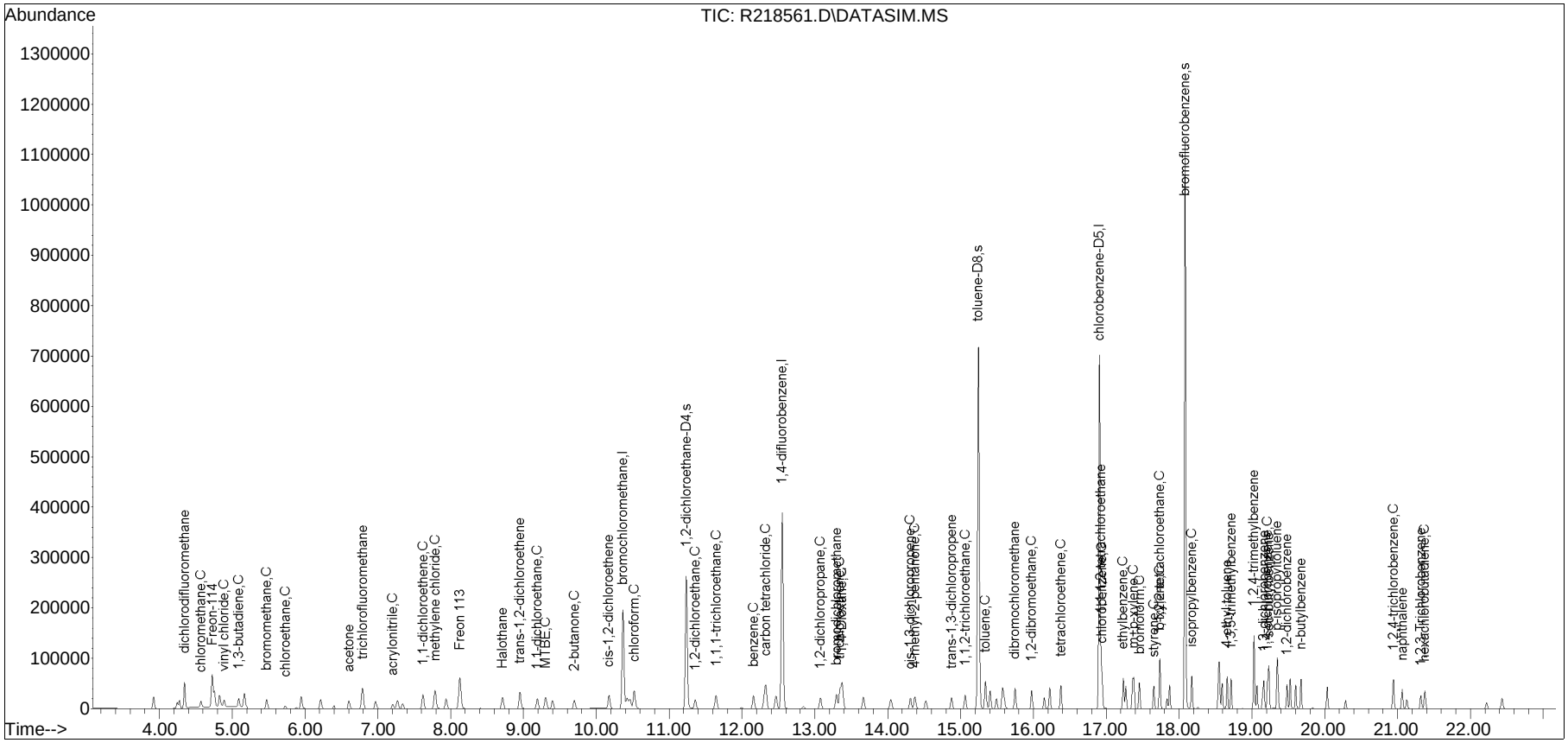
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD1.0
Misc : wg509972
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 11:10:19 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

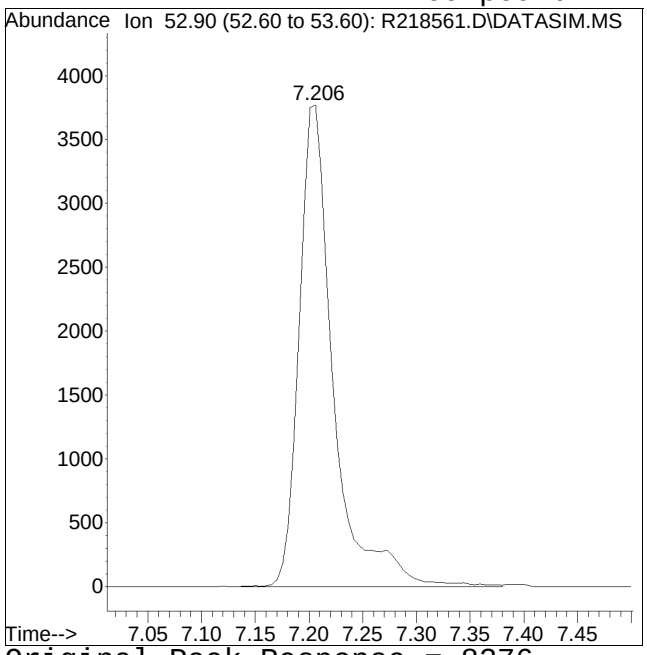


Manual Integration/Negative Proof Report

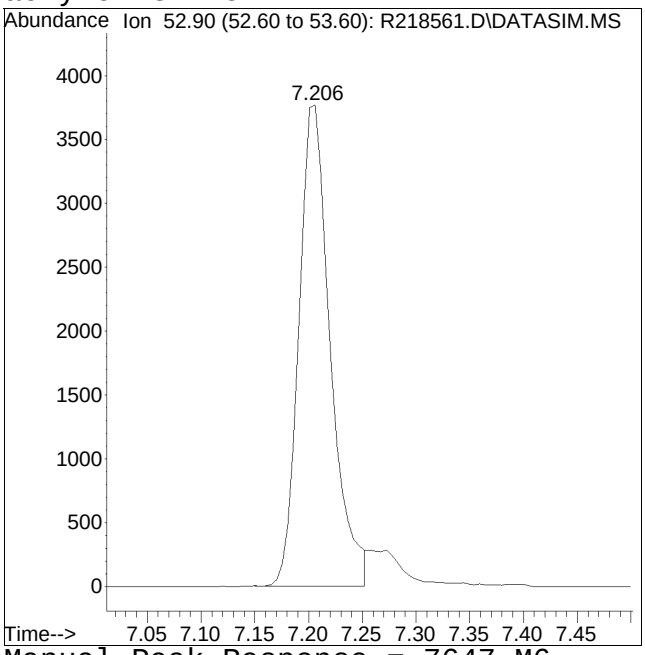
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218561.D
Date Inj'd : 12/21/2011 7:47 pm
Sample : ITO15-SIMSTD1.0

Method : TSIM111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 11:06 am

Compound #11: acrylonitrile



Original Peak Response = 8376



Manual Peak Response = 7647 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD2.5
Misc : wg509972
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 11:06:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.368	49	205035	10.000	ppbV	# 0.00
Standard Area = 206707			Recovery = 99.19%			
23) 1,4-difluorobenzene	12.551	114	637534	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 97.57%			
36) chlorobenzene-D5	16.904	54	126418	10.000	ppbV	0.00
Standard Area = 128289			Recovery = 98.54%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	316433	13.710	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 137.10%#			
38) toluene-D8	15.247	98	792563	13.372	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 133.72%#			
50) bromofluorobenzene	18.084	95	582149	12.593	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 125.93%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	120417	2.405	ppbV	100
3) chloromethane	4.572	50	34006	2.312	ppbV	100
4) Freon-114	4.728	85	120368	2.245	ppbV	97
5) vinyl chloride	4.889	62	39660	2.299	ppbV	100
6) 1,3-butadiene	5.093	54	24460	2.158	ppbV	98
7) bromomethane	5.475	94	39876	2.191	ppbV	99
8) chloroethane	5.730	64	16715	2.126	ppbV	99
9) acetone	6.594	43	43460	2.018	ppbV #	98
10) trichlorofluoromethane	6.791	101	118642	2.184	ppbV	100
11) acrylonitrile	7.201	53	16939	1.872	ppbV	99
12) 1,1-dichloroethene	7.619	61	64009	2.170	ppbV	99
13) methylene chloride	7.787	49	46551	2.223	ppbV	95
14) Freon 113	8.129	101	83154	2.129	ppbV	91
15) Halothane	8.712	117	56982	2.155	ppbV #	83
16) trans-1,2-dichloroethene	8.950	61	69115	2.154	ppbV	97
17) 1,1-dichloroethane	9.191	63	67621	2.155	ppbV	100
18) MTBE	9.294	73	75827	1.981	ppbV	98
19) 2-butanone	9.688	43	57494	1.936	ppbV	97
20) cis-1,2-dichloroethene	10.177	61	46107	1.892	ppbV	95
21) chloroform	10.521	83	75699	2.165	ppbV	98
22) 1,2-dichloroethane	11.356	62	49049	2.161	ppbV	98
25) 1,1,1-trichloroethane	11.644	97	79179	2.196	ppbV	99
26) benzene	12.156	78	93841	2.194	ppbV	99
27) carbon tetrachloride	12.326	117	85736	2.156	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD2.5
Misc : wg509972
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 11:06:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	32909	2.139	ppbV #	94
29) bromodichloromethane	13.298	83	72875	2.160	ppbV	99
30) trichloroethene	13.344	130	53575	2.262	ppbV	99
31) 1,4-Dioxane	13.359	88	18051	2.063	ppbV	96
32) cis-1,3-dichloropropene	14.311	75	47131	2.085	ppbV	93
33) 4-methyl-2-pentanone	14.362	43	59494	2.170	ppbV	98
34) trans-1,3-dichloropropene	14.879	75	44181	1.961	ppbV	94
35) 1,1,2-trichloroethane	15.063	97	37665	2.090	ppbV	97
37) toluene	15.342	91	106214	2.035	ppbV	100
39) dibromochloromethane	15.748	129	73459	2.034	ppbV	100
40) 1,2-dibromoethane	15.975	107	61568	2.019	ppbV	100
41) tetrachloroethene	16.378	166	74697	2.172	ppbV	92
42) 1,1,1,2-tetrachloroethane	16.926	131	50705	2.041	ppbV	98
43) chlorobenzene	16.943	112	91970	2.034	ppbV	96
44) ethylbenzene	17.234	91	121094	1.871	ppbV	98
45) m+p-xylene	17.376	91	187705	3.648	ppbV	98
46) bromoform	17.458	173	76198	1.869	ppbV	99
47) styrene	17.656	104	67970	1.791	ppbV	99
48) 1,1,2,2-tetrachloroethane	17.732	83	74077	1.855	ppbV	99
49) o-xylene	17.737	91	96700	1.809	ppbV	98
51) isopropylbenzene	18.175	105	139136	1.825	ppbV	99
52) 4-ethyl toluene	18.657	105	128896	1.744	ppbV	98
53) 1,3,5-trimethylbenzene	18.707	105	106249	1.758	ppbV	97
54) 1,2,4-trimethylbenzene	19.022	105	101118	1.729	ppbV	96
55) 1,3-dichlorobenzene	19.156	146	85767	1.770	ppbV	98
56) 1,4-dichlorobenzene	19.208	146	84672	1.773	ppbV	98
57) sec-butylbenzene	19.227	105	162863	1.746	ppbV	99
58) p-isopropyltoluene	19.339	119	136555	1.733	ppbV	99
59) 1,2-dichlorobenzene	19.476	146	82338	1.773	ppbV	98
60) n-butylbenzene	19.668	91	129087	1.734	ppbV	97
61) 1,2,4-trichlorobenzene	20.936	180	63051	1.761	ppbV	94
62) naphthalene	21.056	128	119351	1.747	ppbV	98
63) 1,2,3-Trichlorobenzene	21.313	180	67488	1.832	ppbV	94
64) hexachlorobutadiene	21.373	225	71086	1.702	ppbV	94

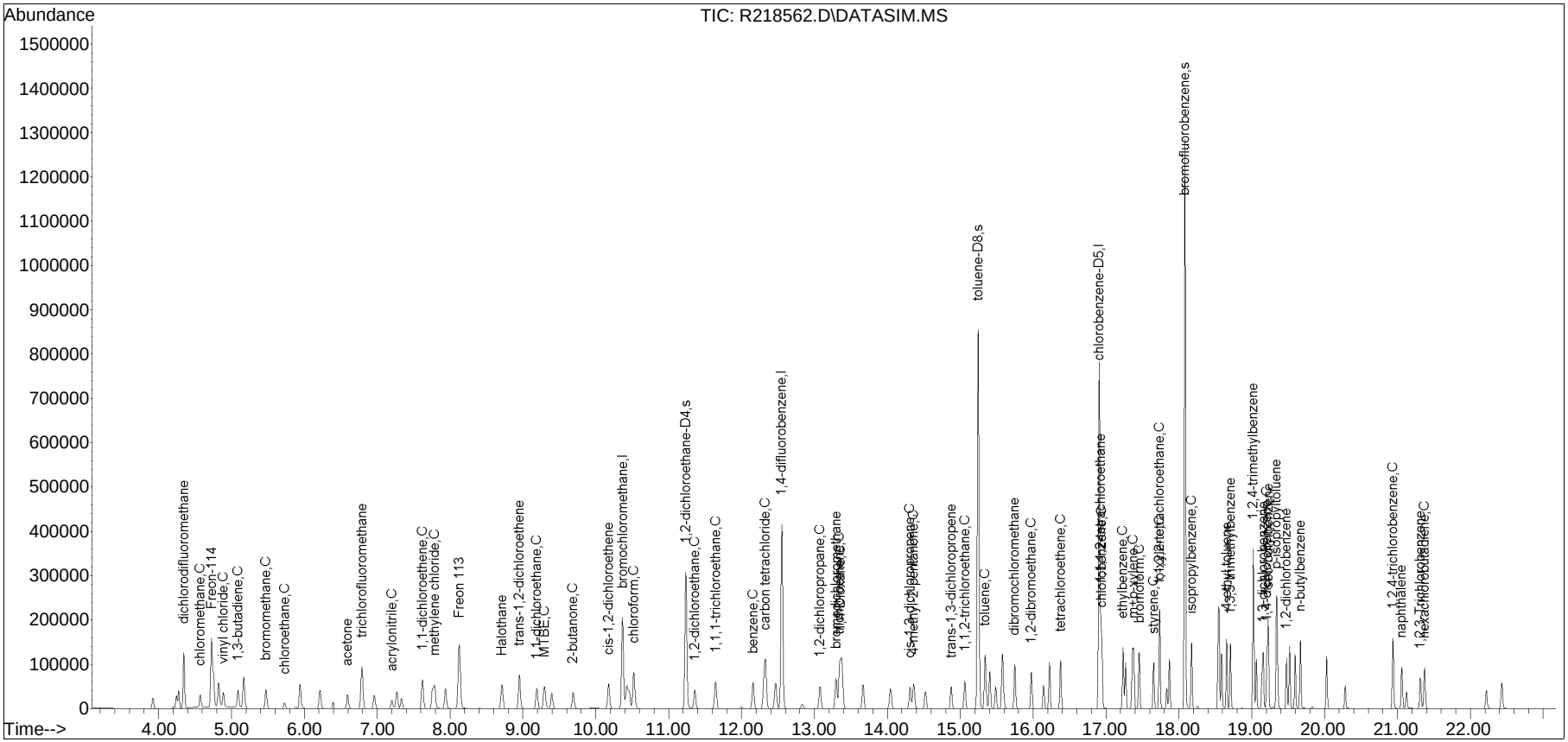
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD2.5
Misc : wg509972
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 11:06:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TSIM111221.M
Data File	: R218562.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/21/2011 8:23 pm	Instrument	: Air Piano 2
Sample	: ITO15-SIMSTD2.5	Quant Date	: 12/22/2011 11:06 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 11:05:08 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Oct 22 16:18:39 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) bromochloromethane	10.368	49	206707	10.000 ppbV	# 0.00
Standard Area = 206707			Recovery = 100.00%		
23) 1,4-difluorobenzene	12.551	114	653393	10.000 ppbV	0.00
Standard Area = 653393			Recovery = 100.00%		
36) chlorobenzene-D5	16.904	54	128289	10.000 ppbV	0.00
Standard Area = 128289			Recovery = 100.00%		
System Monitoring Compounds					
24) 1,2-dichloroethane-D4	11.235	65	236553	8.904 ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.04%		
38) toluene-D8	15.247	98	601462	10.450 ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.50%		
50) bromofluorobenzene	18.084	95	469107	10.417 ppbV	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.17%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	4.346	85	252371	6.243 ppbV	100
3) chloromethane	4.572	50	74136	4.526 ppbV	100
4) Freon-114	4.728	85	270272	6.768 ppbV	96
5) vinyl chloride	4.889	62	86960	5.617 ppbV	100
6) 1,3-butadiene	5.093	54	57134	5.166 ppbV	99
7) bromomethane	5.475	94	91735	6.795 ppbV	98
8) chloroethane	5.726	64	39625	6.106 ppbV	100
9) acetone	6.580	43	108556	5.892 ppbV #	98
10) trichlorofluoromethane	6.791	101	273868	7.238 ppbV	100
11) acrylonitrile	7.196	53	45622	5.628 ppbV	99
12) 1,1-dichloroethene	7.619	61	148660	5.912 ppbV	99
13) methylene chloride	7.787	49	105551	5.287 ppbV	95
14) Freon 113	8.129	101	196839	7.442 ppbV	91
15) Halothane	8.712	117	133281	7.089 ppbV #	83
16) trans-1,2-dichloroethene	8.950	61	161761	5.741 ppbV	97
17) 1,1-dichloroethane	9.191	63	158180	5.973 ppbV	100
18) MTBE	9.283	73	192901	7.114 ppbV	98
19) 2-butanone	9.678	43	149669	5.449 ppbV	97
20) cis-1,2-dichloroethene	10.177	61	122873	5.664 ppbV	96
21) chloroform	10.521	83	176224	6.017 ppbV	98
22) 1,2-dichloroethane	11.356	62	114420	5.635 ppbV	98
25) 1,1,1-trichloroethane	11.644	97	184729	4.584 ppbV	100
26) benzene	12.156	78	219183	4.060 ppbV	99
27) carbon tetrachloride	12.326	117	203821	4.876 ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 11:05:08 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Oct 22 16:18:39 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	78839	3.612 ppbV #	94
29) bromodichloromethane	13.298	83	172890	4.381 ppbV	99
30) trichloroethene	13.344	130	121382	4.458 ppbV	97
31) 1,4-Dioxane	13.344	88	44832	4.240 ppbV	93
32) cis-1,3-dichloropropene	14.311	75	115822	4.295 ppbV #	90
33) 4-methyl-2-pentanone	14.348	43	140491	3.135 ppbV	98
34) trans-1,3-dichloropropene	14.873	75	115469	4.551 ppbV	95
35) 1,1,2-trichloroethane	15.063	97	92342	4.450 ppbV	97
37) toluene	15.342	91	264887	4.817 ppbV	100
39) dibromochloromethane	15.748	129	183244	5.469 ppbV	99
40) 1,2-dibromoethane	15.975	107	154713	5.461 ppbV	98
41) tetrachloroethene	16.378	166	174479	5.783 ppbV	92
42) 1,1,1,2-tetrachloroethane	16.926	131	126044	5.444 ppbV	98
43) chlorobenzene	16.943	112	229392	5.296 ppbV	99
44) ethylbenzene	17.234	91	328454	5.219 ppbV	99
45) m+p-xylene	17.376	91	522224	10.646 ppbV	98
46) bromoform	17.458	173	206832	6.072 ppbV	100
47) styrene	17.656	104	192552	5.374 ppbV	99
48) 1,1,2,2-tetrachloroethane	17.732	83	202659	5.486 ppbV	98
49) o-xylene	17.737	91	271274	5.334 ppbV	98
51) isopropylbenzene	18.175	105	386850	5.459 ppbV	99
52) 4-ethyl toluene	18.657	105	374962	5.613 ppbV	99
53) 1,3,5-trimethylbenzene	18.707	105	306701	5.538 ppbV	98
54) 1,2,4-trimethylbenzene	19.022	105	296717	5.516 ppbV	97
55) 1,3-dichlorobenzene	19.156	146	245901M3	5.364 ppbV	
56) 1,4-dichlorobenzene	19.208	146	242254	5.332 ppbV	98
57) sec-butylbenzene	19.224	105	473375	5.609 ppbV	99
58) p-isopropyltoluene	19.339	119	399796	5.407 ppbV	100
59) 1,2-dichlorobenzene	19.476	146	235694	5.383 ppbV	98
60) n-butylbenzene	19.665	91	377659	5.843 ppbV	98
61) 1,2,4-trichlorobenzene	20.936	180	181633	5.834 ppbV	93
62) naphthalene	21.056	128	346666	5.142 ppbV	99
63) 1,2,3-Trichlorobenzene	21.313	180	186941	5.736 ppbV	93
64) hexachlorobutadiene	21.373	225	211909	6.206 ppbV	93

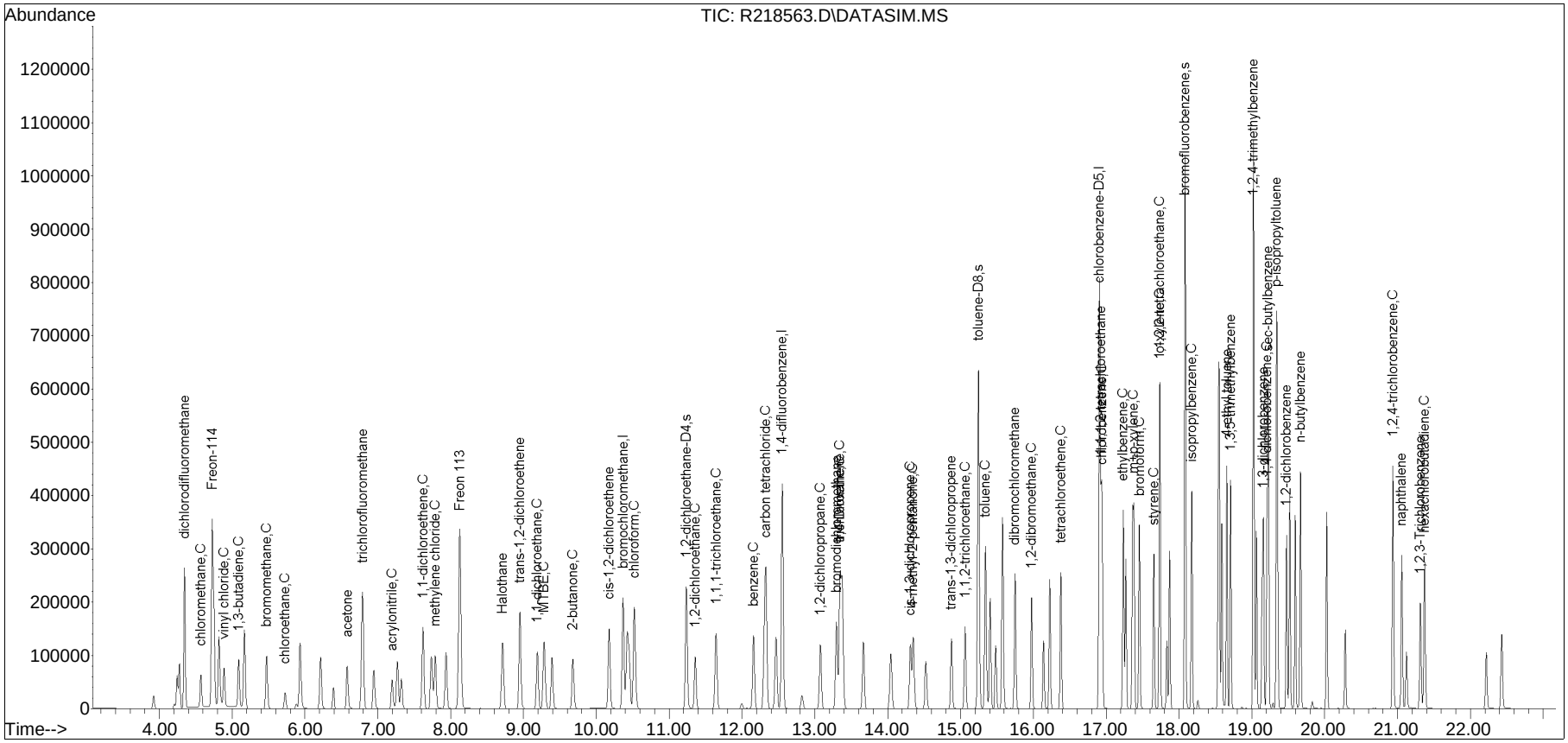
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 11:05:08 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Oct 22 16:18:39 2011
Response via : Initial Calibration

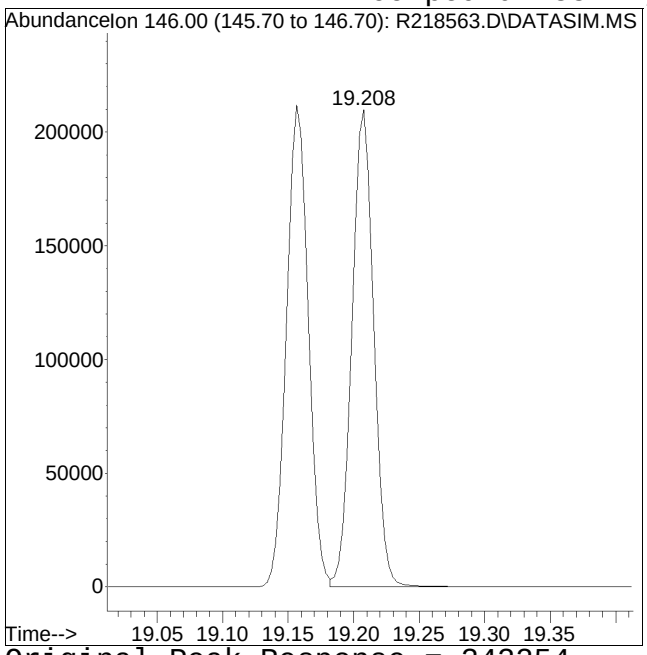
Sub List : Default - All compounds listed

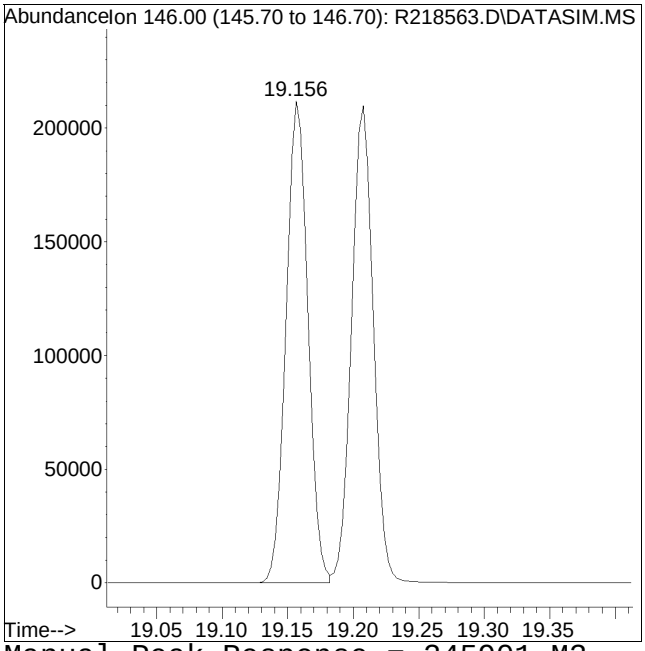


Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218563.D
Date Inj'd : 12/21/2011 9:01 pm
Sample : ITO15-SIMSTD5.0
Method : TSIM111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 11:04 am

Compound #55: 1,3-dichlorobenzene





Original Peak Response = 242254 Manual Peak Response = 245901 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD10.0
Misc : wg509972
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 11:06:30 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.368	49	211507	10.000	ppbV	# 0.00
Standard Area = 206707			Recovery = 102.32%			
23) 1,4-difluorobenzene	12.550	114	664431	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 101.69%			
36) chlorobenzene-D5	16.904	54	127955	10.000	ppbV	0.00
Standard Area = 128289			Recovery = 99.74%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	222990	9.270	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.70%			
38) toluene-D8	15.247	98	566688	9.446	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.46%			
50) bromofluorobenzene	18.084	95	418079	8.935	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.35%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	545786	10.568	ppbV	100
3) chloromethane	4.572	50	159305	10.500	ppbV	100
4) Freon-114	4.728	85	552957	9.997	ppbV	96
5) vinyl chloride	4.889	62	186278	10.467	ppbV	100
6) 1,3-butadiene	5.093	54	119336	10.207	ppbV	99
7) bromomethane	5.475	94	191373	10.194	ppbV	99
8) chloroethane	5.730	64	81724	10.078	ppbV	100
9) acetone	6.571	43	209465	9.429	ppbV #	98
10) trichlorofluoromethane	6.791	101	546595	9.753	ppbV	100
11) acrylonitrile	7.196	53	92295	9.886	ppbV	99
12) 1,1-dichloroethene	7.619	61	296242	9.738	ppbV	99
13) methylene chloride	7.786	49	208498	9.653	ppbV	94
14) Freon 113	8.129	101	394701	9.798	ppbV	91
15) Halothane	8.712	117	291500	10.687	ppbV #	83
16) trans-1,2-dichloroethene	8.950	61	328692	9.929	ppbV	97
17) 1,1-dichloroethane	9.191	63	328998	10.163	ppbV	100
18) MTBE	9.275	73	390083	9.882	ppbV	98
19) 2-butanone	9.670	43	288710	9.426	ppbV	97
20) cis-1,2-dichloroethene	10.177	61	252400	10.038	ppbV	96
21) chloroform	10.521	83	370116	10.263	ppbV	98
22) 1,2-dichloroethane	11.356	62	240684	10.279	ppbV	98
25) 1,1,1-trichloroethane	11.644	97	385297	10.255	ppbV	100
26) benzene	12.156	78	463199	10.391	ppbV	99
27) carbon tetrachloride	12.326	117	422991	10.204	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD10.0
Misc : wg509972
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 11:06:30 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	172959	10.787 ppbV #	95
29) bromodichloromethane	13.297	83	371832	10.575 ppbV	99
30) trichloroethene	13.343	130	258843	10.485 ppbV	98
31) 1,4-Dioxane	13.336	88	90949	9.975 ppbV	95
32) cis-1,3-dichloropropene	14.311	75	255968	10.866 ppbV #	79
33) 4-methyl-2-pentanone	14.344	43	294466	10.306 ppbV	98
34) trans-1,3-dichloropropene	14.873	75	249779	10.636 ppbV	96
35) 1,1,2-trichloroethane	15.063	97	198379	10.563 ppbV	98
37) toluene	15.342	91	585746	11.085 ppbV	100
39) dibromochloromethane	15.748	129	414353	11.336 ppbV	99
40) 1,2-dibromoethane	15.975	107	342769	11.106 ppbV	99
41) tetrachloroethene	16.378	166	378589	10.877 ppbV	91
42) 1,1,1,2-tetrachloroethane	16.926	131	268939	10.696 ppbV	98
43) chlorobenzene	16.943	112	492418	10.761 ppbV	98
44) ethylbenzene	17.234	91	692662	10.572 ppbV	99
45) m+p-xylene	17.376	91	1097735	21.075 ppbV	98
46) bromoform	17.457	173	479193	11.614 ppbV	100
47) styrene	17.656	104	412298	10.734 ppbV	99
48) 1,1,2,2-tetrachloroethane	17.732	83	428175	10.592 ppbV	99
49) o-xylene	17.737	91	569682	10.528 ppbV	98
51) isopropylbenzene	18.175	105	794815	10.300 ppbV	99
52) 4-ethyl toluene	18.664	105	765512	10.235 ppbV	97
53) 1,3,5-trimethylbenzene	18.717	105	621537	10.159 ppbV	98
54) 1,2,4-trimethylbenzene	19.032	105	626013	10.577 ppbV	97
55) 1,3-dichlorobenzene	19.166	146	538959	10.987 ppbV	98
56) 1,4-dichlorobenzene	19.217	146	535734	11.086 ppbV	97
57) sec-butylbenzene	19.233	105	980182	10.380 ppbV	99
58) p-isopropyltoluene	19.348	119	831643	10.428 ppbV	100
59) 1,2-dichlorobenzene	19.483	146	503237	10.704 ppbV	98
60) n-butylbenzene	19.675	91	789215	10.476 ppbV	98
61) 1,2,4-trichlorobenzene	20.936	180	430361	11.878 ppbV	93
62) naphthalene	21.064	128	782654	11.318 ppbV	99
63) 1,2,3-Trichlorobenzene	21.321	180	431773	11.579 ppbV	93
64) hexachlorobutadiene	21.373	225	467562	11.061 ppbV #	92

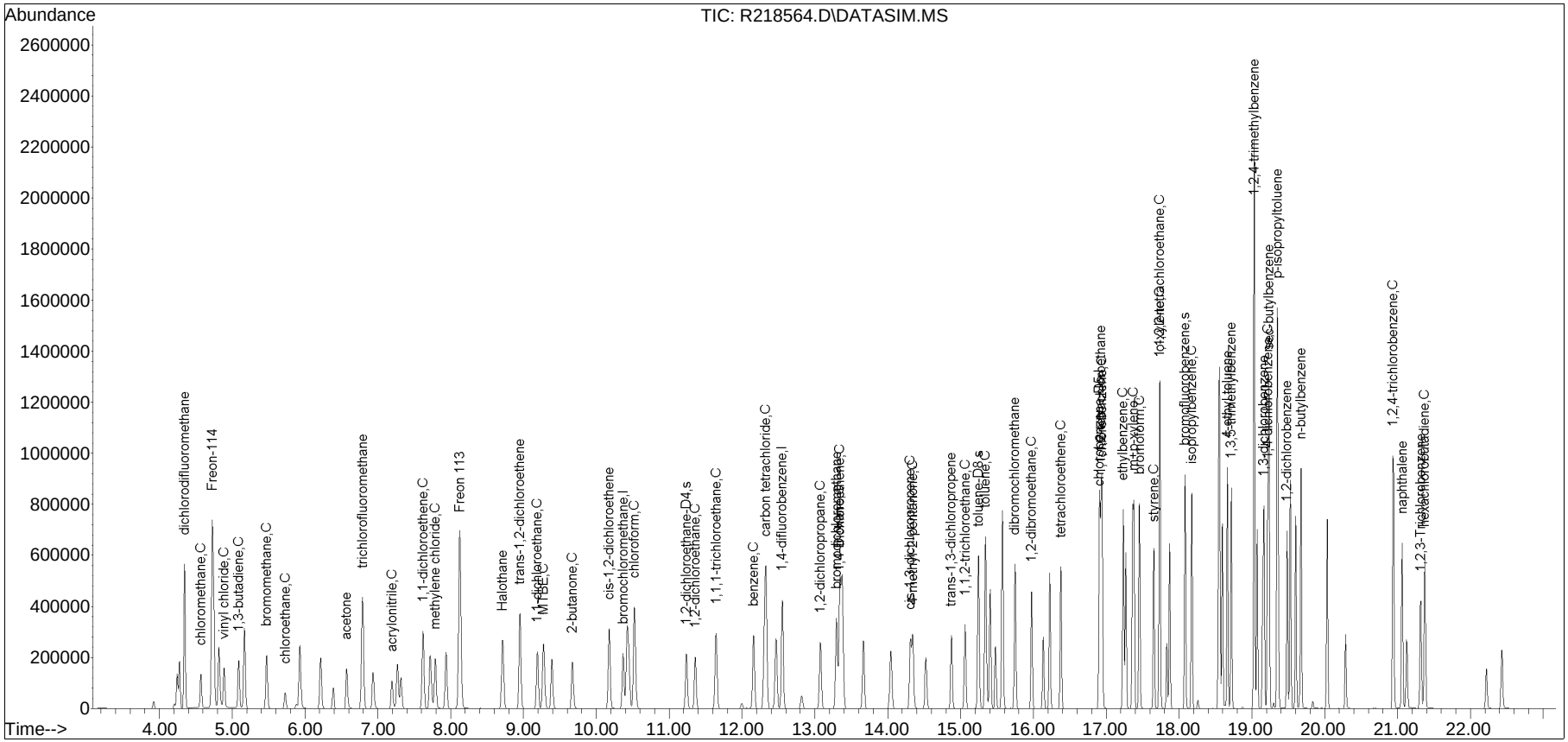
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD10.0
Misc : wg509972
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 11:06:30 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TSIM111221.M
Data File	: R218564.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/21/2011 9:37 pm	Instrument	: Air Piano 2
Sample	: ITO15-SIMSTD10.0	Quant Date	: 12/22/2011 11:06 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD50.0
Misc : wg509972
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 11:06:51 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) bromochloromethane	10.368	49	211747	10.000 ppbV	# 0.00
Standard Area = 206707			Recovery = 102.44%		
23) 1,4-difluorobenzene	12.557	114	671199	10.000 ppbV	0.00
Standard Area = 653393			Recovery = 102.73%		
36) chlorobenzene-D5	16.909	54	135778	10.000 ppbV	# 0.00
Standard Area = 128289			Recovery = 105.84%		
System Monitoring Compounds					
24) 1,2-dichloroethane-D4	11.240	65	244172	10.048 ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.48%		
38) toluene-D8	15.247	98	686249	10.780 ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.80%		
50) bromofluorobenzene	18.084	95	548218	11.042 ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.42%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	4.346	85	2746035	53.110 ppbV	100
3) chloromethane	4.566	50	783225	51.566 ppbV	100
4) Freon-114	4.722	85	2780768	50.219 ppbV	97
5) vinyl chloride	4.883	62	919143	51.591 ppbV	100
6) 1,3-butadiene	5.088	54	593476	50.701 ppbV	100
7) bromomethane	5.470	94	916820	48.782 ppbV	98
8) chloroethane	5.725	64	388745	47.885 ppbV	100
9) acetone	6.561	43	698880	31.424 ppbV	98
10) trichlorofluoromethane	6.786	101	2548770	45.425 ppbV	100
11) acrylonitrile	7.191	53	359312	38.442 ppbV	96
12) 1,1-dichloroethene	7.619	61	1327684	43.592 ppbV	98
13) methylene chloride	7.786	49	907789	41.979 ppbV	93
14) Freon 113	8.129	101	1790606	44.401 ppbV	90
15) Halothane	8.712	117	1195809	43.793 ppbV #	83
16) trans-1,2-dichloroethene	8.950	61	1473812	44.471 ppbV	97
17) 1,1-dichloroethane	9.191	63	1421154	43.853 ppbV	100
18) MTBE	9.267	73	1350936	34.183 ppbV	98
19) 2-butanone	9.663	43	919142	29.975 ppbV	96
20) cis-1,2-dichloroethene	10.176	61	1002192	39.811 ppbV	94
21) chloroform	10.527	83	1686769	46.720 ppbV	99
22) 1,2-dichloroethane	11.360	62	1060768	45.251 ppbV	98
25) 1,1,1-trichloroethane	11.644	97	1764289	46.487 ppbV	98
26) benzene	12.163	78	2097495	46.579 ppbV	99
27) carbon tetrachloride	12.333	117	2026079	48.384 ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD50.0
Misc : wg509972
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 11:06:51 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	778322	48.052 ppbV	97
29) bromodichloromethane	13.297	83	1738242	48.937 ppbV	99
30) trichloroethene	13.343	130	1222759	49.032 ppbV	99
31) 1,4-Dioxane	13.328	88	360947	39.188 ppbV #	62
32) cis-1,3-dichloropropene	14.311	75	1206840	50.717 ppbV #	85
33) 4-methyl-2-pentanone	14.334	43	1143824	39.628 ppbV	100
34) trans-1,3-dichloropropene	14.879	75	1147099	48.354 ppbV	98
35) 1,1,2-trichloroethane	15.063	97	883526	46.571 ppbV	98
37) toluene	15.342	91	2622963	46.780 ppbV	99
39) dibromochloromethane	15.753	129	2027930	52.282 ppbV	99
40) 1,2-dibromoethane	15.977	107	1601566	48.904 ppbV	98
41) tetrachloroethene	16.378	166	1808634	48.971 ppbV	90
42) 1,1,1,2-tetrachloroethane	16.931	131	1209266	45.324 ppbV	99
43) chlorobenzene	16.948	112	2313012	47.635 ppbV	98
44) ethylbenzene	17.239	91	2984592	42.928 ppbV	99
45) m+p-xylene	17.381	91	4677093	84.621 ppbV	98
46) bromoform	17.457	173	2317171	52.926 ppbV	99
47) styrene	17.656	104	1815079	44.533 ppbV	99
48) 1,1,2,2-tetrachloroethane	17.732	83	1821727	42.467 ppbV	99
49) o-xylene	17.737	91	2407039	41.918 ppbV	99
51) isopropylbenzene	18.175	105	3340533	40.795 ppbV	98
52) 4-ethyl toluene	18.670	105	3220856	40.580 ppbV	99
53) 1,3,5-trimethylbenzene	18.724	105	2633511	40.565 ppbV	98
54) 1,2,4-trimethylbenzene	19.038	105	2628417	41.849 ppbV	98
55) 1,3-dichlorobenzene	19.172	146	2509698	48.216 ppbV	98
56) 1,4-dichlorobenzene	19.223	146	2542510	49.582 ppbV	97
57) sec-butylbenzene	19.239	105	4078371	40.702 ppbV	99
58) p-isopropyltoluene	19.355	119	3447231	40.734 ppbV	99
59) 1,2-dichlorobenzene	19.489	146	2292048	45.942 ppbV	97
60) n-butylbenzene	19.678	91	3277457	40.998 ppbV	99
61) 1,2,4-trichlorobenzene	20.944	180	2137666	55.600 ppbV	94
62) naphthalene	21.064	128	3733078	50.873 ppbV	98
63) 1,2,3-Trichlorobenzene	21.321	180	2113929	53.421 ppbV	93
64) hexachlorobutadiene	21.381	225	2309383	51.485 ppbV #	89

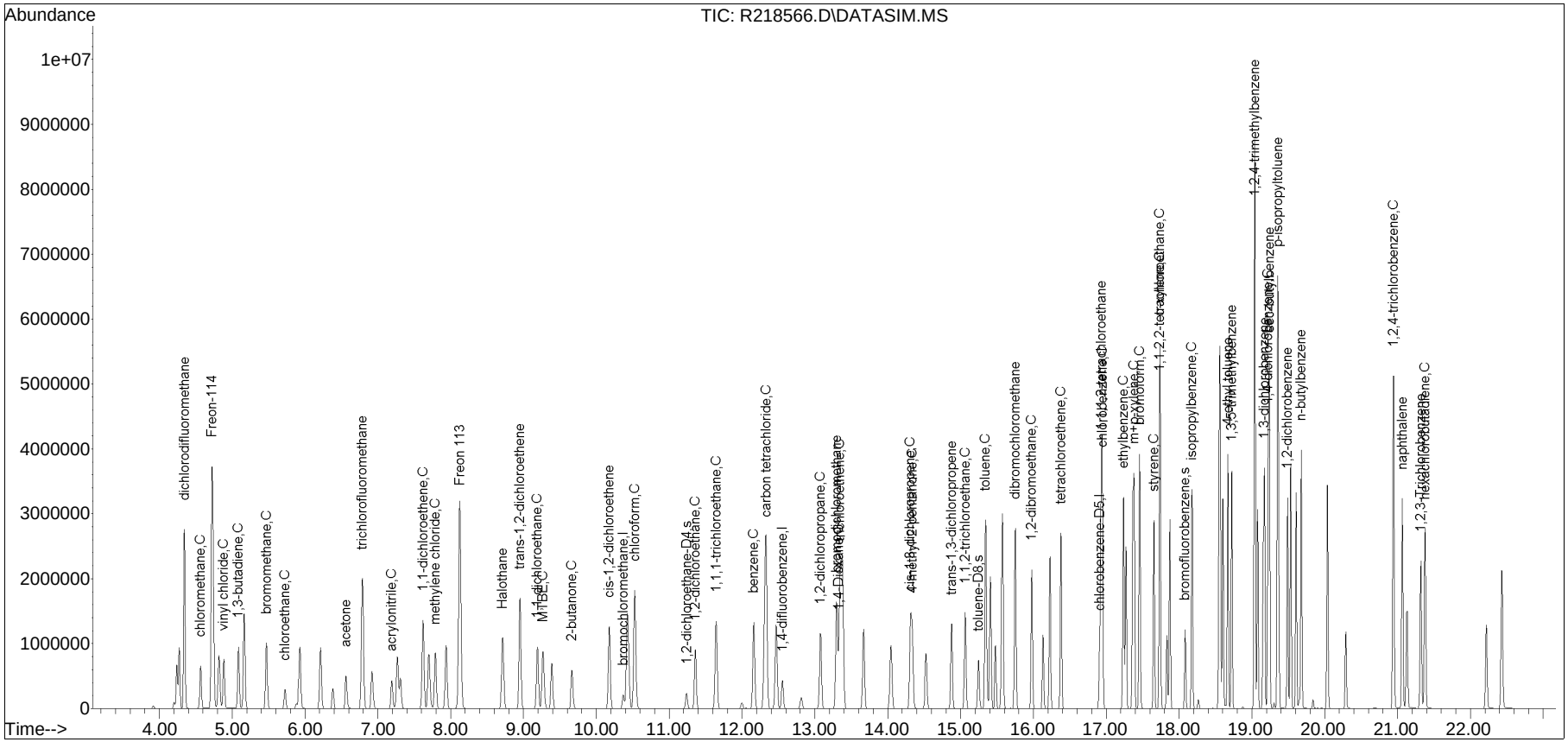
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD50.0
Misc : wg509972
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 11:06:51 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TSIM111221.M
Data File	: R218566.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/21/2011 10:51 pm	Instrument	: Air Piano 2
Sample	: ITO15-SIMSTD50.0	Quant Date	: 12/22/2011 11:06 am

There are no manual integrations or false positives in this file.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218571.D
Acq On : 22 Dec 2011 1:56 am
Operator : AIRPIANO2:RY
Sample : CTO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 11:27:01 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	98	0.00
2		dichlorodifluoromethane	2.637	2.505	5.0	101	0.00
3	C	chloromethane	0.731	0.719	1.6	99	0.00
4		Freon-114	2.684	2.641	1.6	99	0.00
5	C	vinyl chloride	0.870	0.850	2.3	99	0.00
6	C	1,3-butadiene	0.554	0.565	-2.0	101	0.00
7	C	bromomethane	0.910	0.876	3.7	97	0.00
8	C	chloroethane	0.390	0.349	10.5	90	0.00
9		acetone	0.960	0.774	19.4	73	0.00
10		trichlorofluoromethane	2.651	2.651	0.0	99	0.00
11	C	acrylonitrile	0.414	0.323	22.0	72	0.00
12	C	1,1-dichloroethene	1.437	1.403	2.4	96	0.00
13	C	methylene chloride	1.018	0.934	8.3	90	0.00
14		Freon 113	1.906	1.789	6.1	93	0.00
15		Halothane	1.245	1.187	4.7	91	0.00
16		trans-1,2-dichloroethene	1.554	1.147	26.2	72	0.00
17	C	1,1-dichloroethane	1.525	1.365	10.5	88	0.00
18	C	MTBE	1.772	1.432	19.2	76	0.00
19	C	2-butanone	1.263	0.927	26.6	63	0.00
20		cis-1,2-dichloroethene	1.094	0.956	12.6	79	0.00
21	C	chloroform	1.695	1.575	7.1	91	0.00
22	C	1,2-dichloroethane	1.090	0.986	9.5	88	0.00
23	I	1,4-difluorobenzene	1.000	1.000	0.0	103	0.00
24	s	1,2-dichloroethane-D4	0.405	0.377	6.9	107	0.00
25	C	1,1,1-trichloroethane	0.587	0.508	13.5	93	0.00
26	C	benzene	0.683	0.578	15.4	89	0.00
27	C	carbon tetrachloride	0.631	0.568	10.0	94	0.00
28	C	1,2-dichloropropane	0.249	0.204	18.1	87	0.00
29		bromodichloromethane	0.537	0.469	12.7	91	0.00
30	C	trichloroethene	0.394	0.339	14.0	94	0.00
31	C	1,4-Dioxane	0.130	0.109	16.2	82	0.00
32	C	cis-1,3-dichloropropene	0.356	0.310	12.9	90	0.00
33	C	4-methyl-2-pentanone	0.420	0.340	19.0	82	0.00
34		trans-1,3-dichloropropene	0.337	0.246	27.0	72	0.00
35	C	1,1,2-trichloroethane	0.286	0.236	17.5	86	0.00
36	I	chlorobenzene-D5	1.000	1.000	0.0	100	0.00
37	C	toluene	4.336	3.433	20.8	83	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218571.D
Acq On : 22 Dec 2011 1:56 am
Operator : AIRPIANO2:RY
Sample : CTO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 11:27:01 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	s	toluene-D8	5.220	5.138	1.6	110	0.00
39		dibromochloromethane	2.722	2.467	9.4	87	0.00
40	C	1,2-dibromoethane	2.388	2.010	15.8	84	0.00
41	C	tetrachloroethene	2.790	2.440	12.5	90	0.00
42		1,1,1,2-tetrachloroethane	1.863	1.537	17.5	78	0.00
43	C	chlorobenzene	3.653	3.006	17.7	84	0.00
44	C	ethylbenzene	5.027	3.922	22.0	77	0.00
45	C	m+p-xylene	3.839	3.043	20.7	75	0.00
46	C	bromoform	3.008	2.588	14.0	80	0.00
47	C	styrene	2.663	2.268	14.8	76	0.00
48	C	1,1,2,2-tetrachloroethane	2.789	2.333	16.3	74	0.00
49	C	o-xylene	4.078	3.170	22.3	75	0.00
50	s	bromofluorobenzene	3.857	3.942	-2.2	108	0.00
51	C	isopropylbenzene	5.505	4.295	22.0	71	0.00
52		4-ethyl toluene	4.675	4.182	10.5	72	0.00
53		1,3,5-trimethylbenzene	4.191	3.390	19.1	71	0.00
54		1,2,4-trimethylbenzene	3.733	3.337	10.6	72	0.00
55		1,3-dichlorobenzene	3.464	2.826	18.4	74	0.00
56	C	1,4-dichlorobenzene	3.452	2.778	19.5	74	0.00
57		sec-butylbenzene	5.833	4.957	15.0	67	0.00
58		p-isopropyltoluene	5.023	3.964	21.1	64	-0.01
59		1,2-dichlorobenzene	3.252	2.670	17.9	73	-0.01
60		n-butylbenzene	4.497	3.751	16.6	64	-0.01
61	C	1,2,4-trichlorobenzene	2.356	2.024	14.1	72	-0.03
62		naphthalene	5.278	3.711	29.7	69	-0.02
63		1,2,3-Trichlorobenzene	2.416	2.023	16.3	70	-0.03
64	C	hexachlorobutadiene	2.518	2.160	14.2	66	-0.03

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218571.D
Acq On : 22 Dec 2011 1:56 am
Operator : AIRPIANO2:RY
Sample : CTO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 11:27:01 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	203575	10.000	ppbV	# 0.00
Standard Area = 206707			Recovery = 98.48%			
23) 1,4-difluorobenzene	12.550	114	674895	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 103.29%			
36) chlorobenzene-D5	16.904	54	128624	10.000	ppbV	0.00
Standard Area = 128289			Recovery = 100.26%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	254147	9.291	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.91%			
38) toluene-D8	15.247	98	660882	9.844	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.44%			
50) bromofluorobenzene	18.084	95	507056	10.221	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.21%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.341	85	254990	4.751	ppbV	100
3) chloromethane	4.566	50	73204	4.918	ppbV	100
4) Freon-114	4.722	85	268793	4.920	ppbV	96
5) vinyl chloride	4.883	62	86501	4.886	ppbV	100
6) 1,3-butadiene	5.088	54	57556	5.108	ppbV	99
7) bromomethane	5.470	94	89133	4.810	ppbV	99
8) chloroethane	5.725	64	35497	4.471	ppbV	100
9) acetone	6.580	43	78778	4.029	ppbV #	98
10) trichlorofluoromethane	6.786	101	269835	5.000	ppbV	100
11) acrylonitrile	7.196	53	32891	3.898	ppbV	99
12) 1,1-dichloroethene	7.619	61	142848	4.884	ppbV	99
13) methylene chloride	7.786	49	95074	4.587	ppbV	94
14) Freon 113	8.124	101	182125	4.694	ppbV	91
15) Halothane	8.712	117	120809	4.768	ppbV #	82
16) trans-1,2-dichloroethene	8.950	61	116726	3.689	ppbV	97
17) 1,1-dichloroethane	9.187	63	138919	4.473	ppbV	100
18) MTBE	9.282	73	145783	4.042	ppbV	98
19) 2-butanone	9.678	43	94321	3.668	ppbV	97
20) cis-1,2-dichloroethene	10.176	61	97324	4.371	ppbV	94
21) chloroform	10.521	83	160315	4.647	ppbV	98
22) 1,2-dichloroethane	11.356	62	100339	4.522	ppbV	97
25) 1,1,1-trichloroethane	11.641	97	171381	4.326	ppbV	99
26) benzene	12.156	78	194935	4.230	ppbV	99
27) carbon tetrachloride	12.326	117	191750	4.506	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218571.D
Acq On : 22 Dec 2011 1:56 am
Operator : AIRPIANO2:RY
Sample : CTO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 11:27:01 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	68934	4.101	ppbV #	94
29) bromodichloromethane	13.297	83	158136	4.366	ppbV	99
30) trichloroethene	13.343	130	114288	4.300	ppbV	98
31) 1,4-Dioxane	13.351	88	36757	4.174	ppbV	97
32) cis-1,3-dichloropropene	14.311	75	104708	4.353	ppbV	93
33) 4-methyl-2-pentanone	14.353	43	114874	4.054	ppbV	99
34) trans-1,3-dichloropropene	14.873	75	83148	3.655	ppbV	95
35) 1,1,2-trichloroethane	15.063	97	79698	4.122	ppbV	97
37) toluene	15.342	91	220815	3.960	ppbV	100
39) dibromochloromethane	15.748	129	158645	4.531	ppbV	99
40) 1,2-dibromoethane	15.975	107	129275	4.209	ppbV	98
41) tetrachloroethene	16.378	166	156916	4.373	ppbV	91
42) 1,1,1,2-tetrachloroethane	16.926	131	98845	4.125	ppbV	99
43) chlorobenzene	16.942	112	193334	4.115	ppbV	99
44) ethylbenzene	17.234	91	252262	3.901	ppbV	99
45) m+p-xylene	17.381	91	391387	7.926	ppbV	98
46) bromoform	17.457	173	166451	4.302	ppbV	99
47) styrene	17.656	104	145888	4.259	ppbV	99
48) 1,1,2,2-tetrachloroethane	17.732	83	150031	4.182	ppbV	99
49) o-xylene	17.737	91	203848	3.886	ppbV	98
51) isopropylbenzene	18.175	105	276201	3.901	ppbV	99
52) 4-ethyl toluene	18.657	105	268961	4.473	ppbV	97
53) 1,3,5-trimethylbenzene	18.710	105	218021	4.045	ppbV	98
54) 1,2,4-trimethylbenzene	19.019	105	214634	4.470	ppbV	98
55) 1,3-dichlorobenzene	19.153	146	181734	4.079	ppbV	98
56) 1,4-dichlorobenzene	19.201	146	178678	4.024	ppbV	97
57) sec-butylbenzene	19.217	105	318779	4.249	ppbV	99
58) p-isopropyltoluene	19.329	119	254938	3.946	ppbV	98
59) 1,2-dichlorobenzene	19.463	146	171701	4.105	ppbV	98
60) n-butylbenzene	19.652	91	241247	4.171	ppbV	100
61) 1,2,4-trichlorobenzene	20.904	180	130141	4.294	ppbV	93
62) naphthalene	21.033	128	238648	3.515	ppbV	99
63) 1,2,3-Trichlorobenzene	21.281	180	130124	4.187	ppbV	93
64) hexachlorobutadiene	21.341	225	138930	4.289	ppbV	93

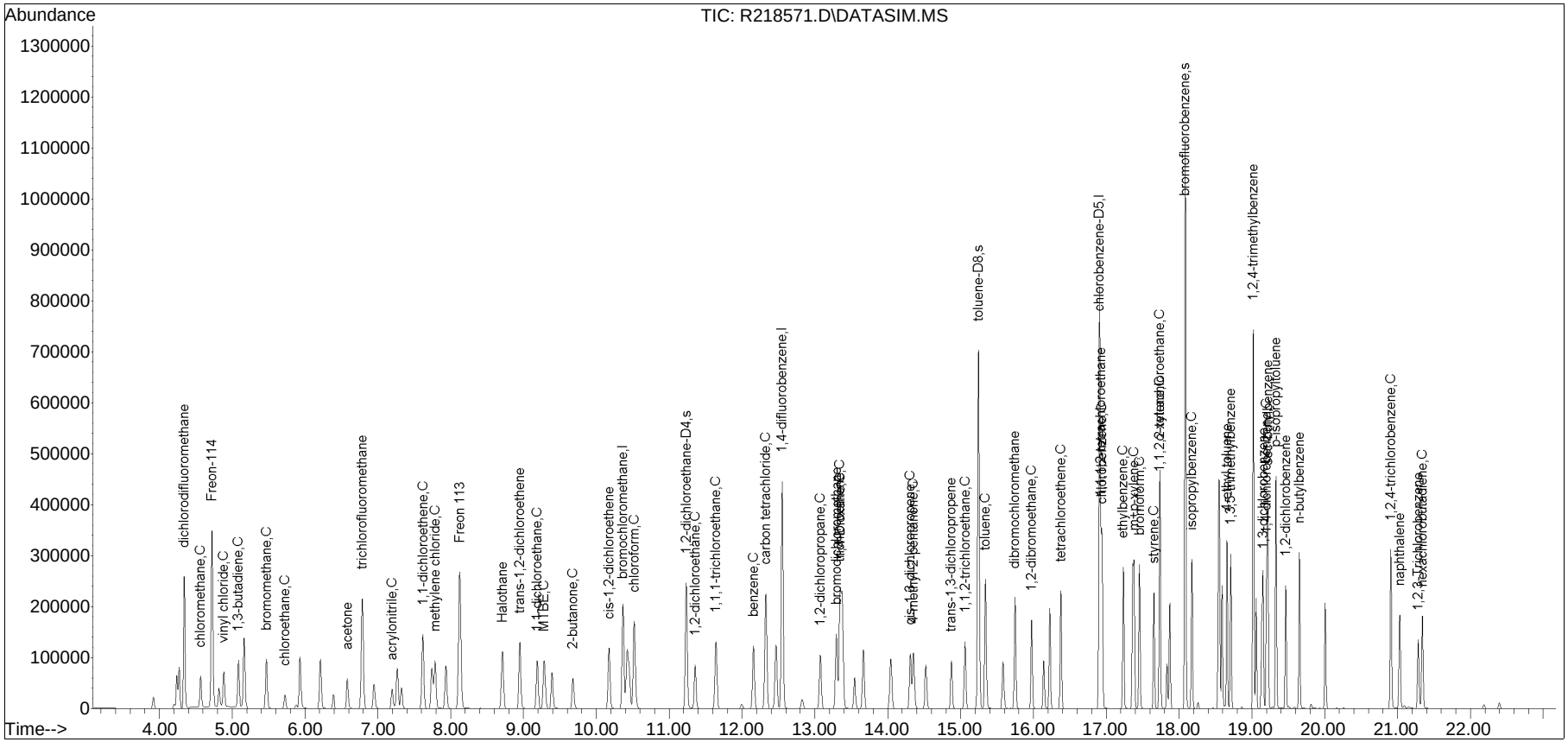
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218571.D
Acq On : 22 Dec 2011 1:56 am
Operator : AIRPIANO2:RY
Sample : CTO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 11:27:01 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TSIM111221.M
Data File	: R218571.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/22/2011 1:56 am	Instrument	: Air Piano 2
Sample	: CTO15-SIMSTD5.0	Quant Date	: 12/22/2011 11:26 am

There are no manual integrations or false positives in this file.

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jan 25 2012, 02:00 pm

Work Group: WG511603 for Department: 3 GC/MS

Created: 03-JAN-12 Due: Operator: mb

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1200005-01	C-28	S	MCP-TO15-SIM	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-02	B-28	S	MCP-TO15-SIM	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-03	A-28	S	MCP-TO15-SIM	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-04	BG-28	S	MCP-TO15-SIM	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-05	BG-28-DUP	S	MCP-TO15-SIM	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-06	TB-28	S	MCP-TO15-SIM	AIR	DONE	U	0128	0116	S0	Can-6
L1200006-01	VS-1-28	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-02	VS-4-28	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-03	VS-12-28	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-04	VS-8-28	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-05	VS-8-28-DUP	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-06	VS-BG-28	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-07	VS-TB-28	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
WG511603-1	MS BFB Tune Standard	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U				
WG511603-1	MS BFB Tune Standard	S	MCP-TO15-SIM	AIR	DONE	U				
WG511603-2	Continuing Calibrati	S	MCP-TO15-SIM	AIR	DONE	U				
WG511603-2	Continuing Calibrati	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U				
WG511603-3	Laboratory Control S	S	MCP-TO15-SIM	AIR	DONE	U				
WG511603-3	Laboratory Control S	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U				
WG511603-4	Laboratory Method Bl	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U				
WG511603-4	Laboratory Method Bl	S	MCP-TO15-SIM	AIR	DONE	U				
WG511603-5	Duplicate Sample	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U				
WG511603-5	Duplicate Sample	S	MCP-TO15-SIM	AIR	DONE	U				

Comments:

WG511603-5 L1200006-01

Sequence Logs

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

Sequence Name: C:\Smart\111221_TO15ICAL.SEQ
Date: 12-22-2011
Time: 09:47:24
Int. Std Volume: 100 cc

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
TA2122102	1	1	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.02	1	5	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.04	1	5	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.1	1	6	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.2	1	6	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.5	1	7	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD1.0	1	7	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD2.5	1	8	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD5.0	1	8	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD10.0	1	9	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD20.0	1	9	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD50.0	1	10	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD100.0	1	10	250	100	C:\Smart\Alpha_To15.MPT	12:00
BA2122101	1	1	250	100	C:\Smart\Alpha_To15.MPT	12:00
BA2122102	1	1	250	100	C:\Smart\Alpha_To15.MPT	12:00
CTO15-LLSTD10.0	1	2	250	100	C:\Smart\Alpha_To15.MPT	12:00
CTO15-SIMSTD5.0	1	2	125	100	C:\Smart\Alpha_To15.MPT	12:00

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AirPiano2

Internal Standard/Surrogate IDs: CSS11-004 CSS10-013

Date: 12/21/11

Internal Standard/Surrogate Volume: 100 mL

Analyst Initials: RY

EM Voltage: 1529

Full Scan ICAL# SIM ICAL# APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Misc Info	Comment
1	TA2122101	TO15_SFS	R218552	250ml	DO NOT USE
2	CTO15-LLSTD10	TO15_SFS	R218553	250ml SS11-040B	DO NOT USE
2	CTO15-SIMSTD5.0	TO15_SFS	R218554	125ml SS11-040B	DO NOT USE
1	TA2122102	TO15_SFS	R218555	250ml	TUNE
5	ITO15-SIMSTD0.02	TO15_SFS	R218556	SS11-036F 125ML 0.02	SIM ONLY
5	ITO15-SIMSTD0.04	TO15_SFS	R218557	SS11-036F 250ML 0.04	SIM ONLY
6	ITO15-SIMSTD0.1	TO15_SFS	R218558	SS11-036E 125ML 0.1	SIM ONLY
6	ITO15-SIMSTD0.2	TO15_SFS	R218559	SS11-036E 250ML 0.2	
7	ITO15-SIMSTD0.5	TO15_SFS	R218560	SS11-036D 125ML 0.5	
7	ITO15-SIMSTD1.0	TO15_SFS	R218561	SS11-036D 250ML 1.0	
8	ITO15-SIMSTD2.5	TO15_SFS	R218562	SS11-036C 125ML 2.5	
8	ITO15-SIMSTD5.0	TO15_SFS	R218563	SS11-036C 250ML 5.0	
9	ITO15-SIMSTD10.0	TO15_SFS	R218564	SS11-036B 125ML 10.0	
9	ITO15-SIMSTD20.0	TO15_SFS	R218565	SS11-036B 250ML 20.0	DID NOT USE FOR FULL SCAN OR SIM
10	ITO15-SIMSTD50.0	TO15_SFS	R218566	SS11-036A 125ML 50.0	
10	ITO15-LLSTD100.0	TO15_SFS	R218567	SS11-036A 250ML 100.0	NOT USED FOR SIM
1	BA2122101	TO15_SFS	R218568	250ml	
1	BA2122102	TO15_SFS	R218569	250ml	
2	CTO15-LLSTD10	TO15_SFS	R218570	250ml SS11-040B	LL ICV
2	CTO15-SIMSTD5.0	TO15_SFS	R218571	125ml SS11-040B	SIM ICV

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AirPiano2

Internal Standard/Surrogate IDs: CSS11-004 CSS10-013

Date: 01/05/12

Internal Standard/Surrogate Volume: 100 mL

Analyst Initials: RY/MB

EM Voltage: 1447

Full Scan ICAL# 6480 SIM ICAL# 6481 APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Misc Info	Comment
1	TA2010501	TO15_SFS	R218764	250ml	TUNE
2	CTO15-LLSTD10	TO15_SFS	R218765	250ml SS11-032B	LL LCS FAILED
3	CTO15-SIMSTD5.0	TO15_SFS	R218766	125ml SS11-040D	SIM LCS FAILED
		Pause			
1	TA2010502	TO15_SFS	R218767	250ml	TUNE
2	CTO15-LLSTD10	TO15_SFS	R218768	250ml SS11-032B	LL LCS
		Pause			
3	CTO15-SIMSTD5.0	TO15_SFS	R218769	125ml SS11-040D	SIM LCS
		Pause			
1	BA2010501	TO15_SFS	R218770	250ml	(INST) BLANK
1	BA2010502	TO15_SFS	R218771	250ml	1/30/12 JW ~~INSTRUMENT~~ BLANK
4	L1200005-06,3,250,250	TO15_SFS	R218772	WG511601,ICAL6480	
5	L1200006-07,3,250,250	TO15_SFS	R218773	WG511601,ICAL6480	
6	L1200005-01,3,250,250	TO15_SFS	R218774	WG511601,ICAL6480	
7	L1200005-02,3,250,250	TO15_SFS	R218775	WG511601,ICAL6480	
8	L1200005-03,3,250,250	TO15_SFS	R218776	WG511601,ICAL6480	
9	L1200005-04,3,250,250	TO15_SFS	R218777	WG511601,ICAL6480	
10	L1200005-05,3,250,250	TO15_SFS	R218778	WG511601,ICAL6480	
11	L1200006-01,3,250,250	TO15_SFS	R218779	WG511601,ICAL6480	
11	L1200006-01DUP,3,250,250	TO15_SFS	R218780	WG511601,ICAL6480	MCP-TO15, MCP-TO15-SIM-DUP
12	L1200006-02,3,250,250	TO15_SFS	R218781	WG511601,ICAL6480	

Alpha Analytical Air Lab
Instrument Run Log

13	L1200006-03,3,250,250	TO15_SFS	R218782	WG511601,ICAL6480	
14	L1200006-04,3,250,250	TO15_SFS	R218783	WG511601,ICAL6480	
15	L1200006-05,3,250,250	TO15_SFS	R218784	WG511601,ICAL6480	
16	L1200006-06,3,250,250	TO15_SFS	R218785	WG511601,ICAL6480	

Analytical Event

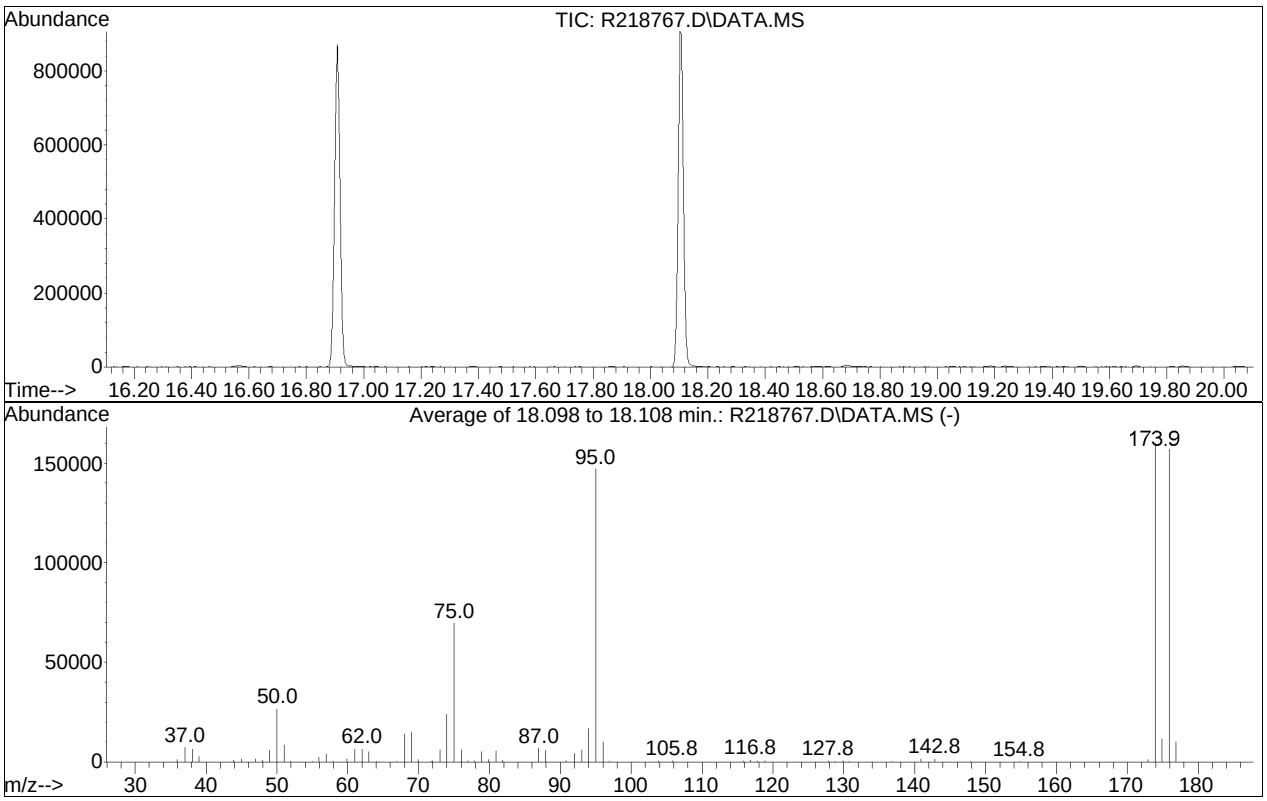
Continuing Calibration
BFB Tune

BFB

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218767.D
Acq On : 5 Jan 2012 4:30 pm
Operator : AIRPIANO2:MB
Sample : WG511603-1,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 11:24:44 2011



AutoFind: Scans 3052, 3053, 3054; Background Corrected with Scan 3045

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	26717	PASS
75	95	30	66	47.3	69645	PASS
95	95	100	100	100.0	147171	PASS
96	95	5	9	6.9	10124	PASS
173	174	0.00	2	0.8	1357	PASS
174	95	50	120	108.9	160211	PASS
175	174	4	9	7.4	11798	PASS
176	174	93	101	98.0	157011	PASS
177	176	5	9	6.6	10289	PASS

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218769.D
Acq On : 5 Jan 2012 18:04
Operator : AIRPIANO2:ry
Sample : WG511603-2,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 18:27:38 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	73	-0.01
21	C	chloroform	1.695	1.727	-1.9	74	0.00
23	I	1,4-difluorobenzene	1.000	1.000	0.0	74	0.00
26	C	benzene	0.683	0.647	5.3	71	0.00
30	C	trichloroethene	0.394	0.389	1.3	77	0.00
36	I	chlorobenzene-D5	1.000	1.000	0.0	70	0.00
41	C	tetrachloroethene	2.790	3.099	-11.1	80	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218769.D
Acq On : 5 Jan 2012 18:04
Operator : AIRPIANO2:ry
Sample : WG511603-2,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 18:27:38 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

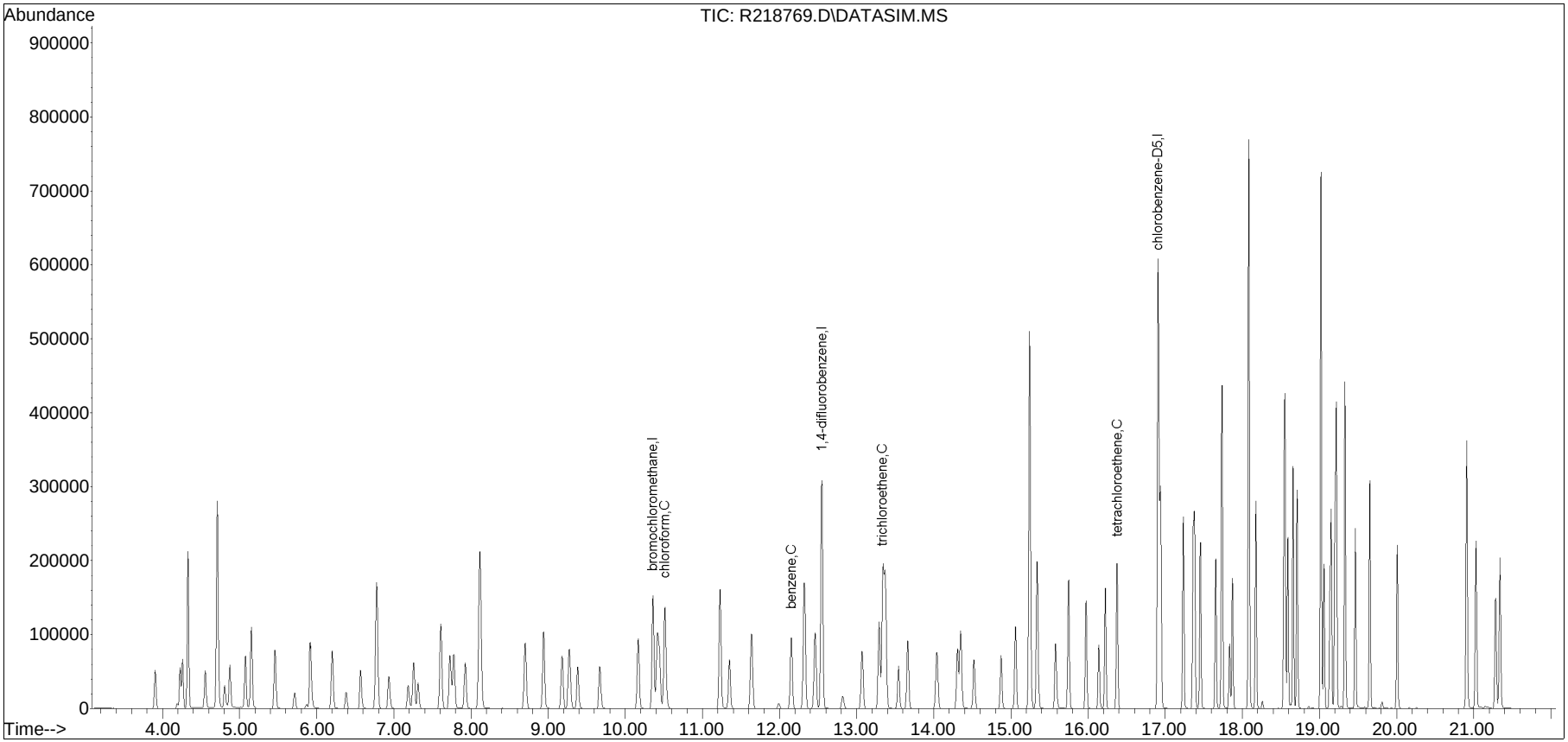
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.355	49	150860	10.000	ppbV	#-0.01
Standard Area = 150860			Recovery = 100.00%			
23) 1,4-difluorobenzene	12.550	114	481130	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 100.00%			
36) chlorobenzene-D5	16.904	54	89624	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	10.514	83	130242	5.095	ppbV	99
26) benzene	12.156	78	155616	4.737	ppbV	98
30) trichloroethene	13.336	130	93486	4.934	ppbV	99
41) tetrachloroethene	16.378	166	138892	5.555	ppbV	89

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

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218769.D
Acq On : 5 Jan 2012 18:04
Operator : AIRPIANO2:ry
Sample : WG511603-2,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 18:27:38 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2012Q	Method	: TSIM111221.M
Data File	: R218769.D	Operator	: AIRPIANO2:ry
Date Inj'd	: 1/5/2012 18:04	Instrument	: Air Piano 2
Sample	: WG511603-2,3,250,250	Quant Date	: 1/5/2012 6:27 pm

There are no manual integrations or false positives in this file.

Sample Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218772.D
Acq On : 5 Jan 2012 20:16
Operator : AIRPIANO2:MB
Sample : L1200005-06,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 06 12:12:49 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) bromochloromethane	10.355	49	162785	10.000 ppbV	#-0.01
Standard Area = 150860			Recovery = 107.90%		
23) 1,4-difluorobenzene	12.550	114	518398	10.000 ppbV	0.00
Standard Area = 481130			Recovery = 107.75%		
36) chlorobenzene-D5	16.904	54	92762	10.000 ppbV	0.00
Standard Area = 89624			Recovery = 103.50%		
System Monitoring Compounds					
Target Compounds					Qvalue
21) chloroform	10.515		0	N.D.	
26) benzene	12.156	78	501	0.014 ppbV	96
30) trichloroethene	13.336		0	N.D.	
41) tetrachloroethene	16.374		0	N.D.	

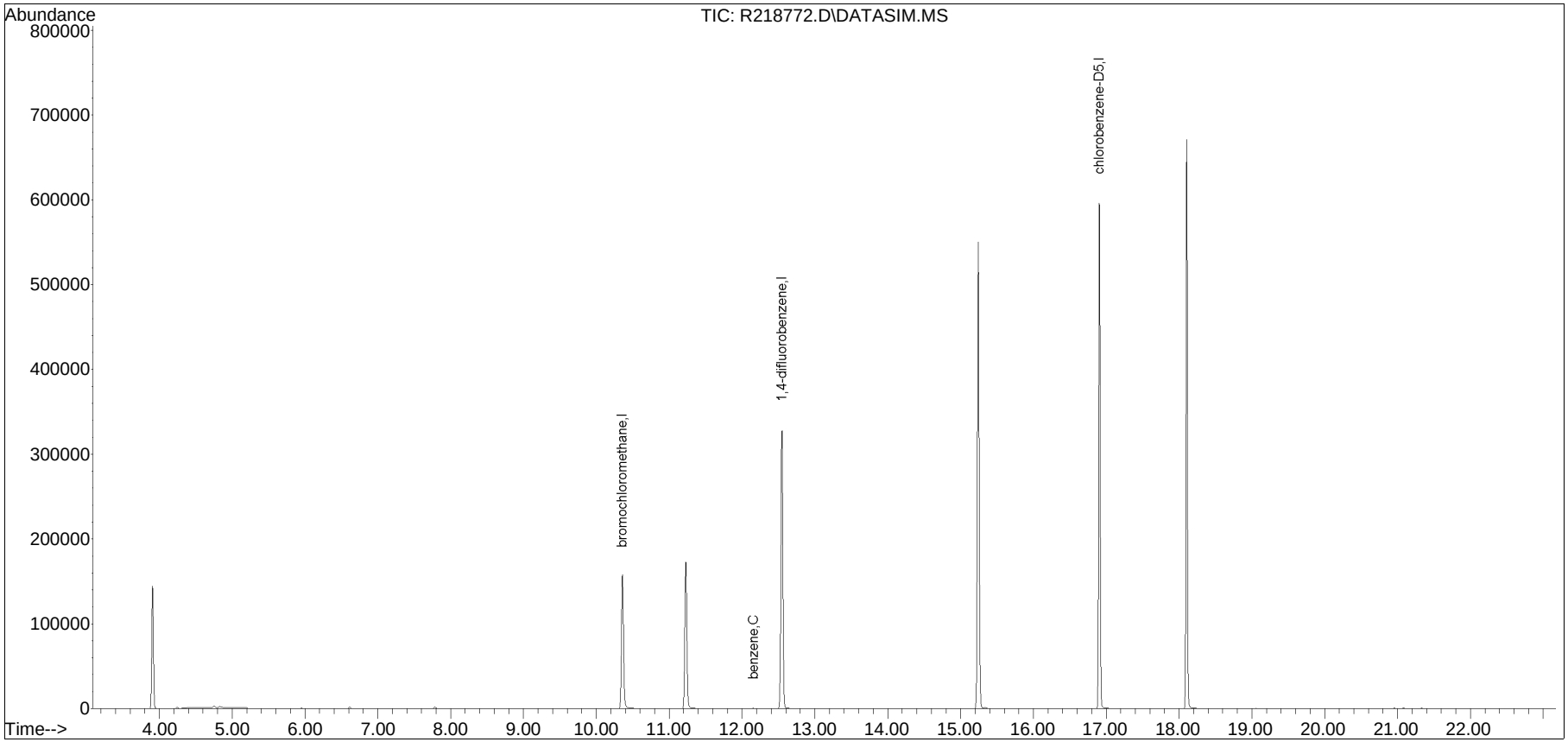
(#) = qualifier out of range (m) = manual integration (+) = signals summed

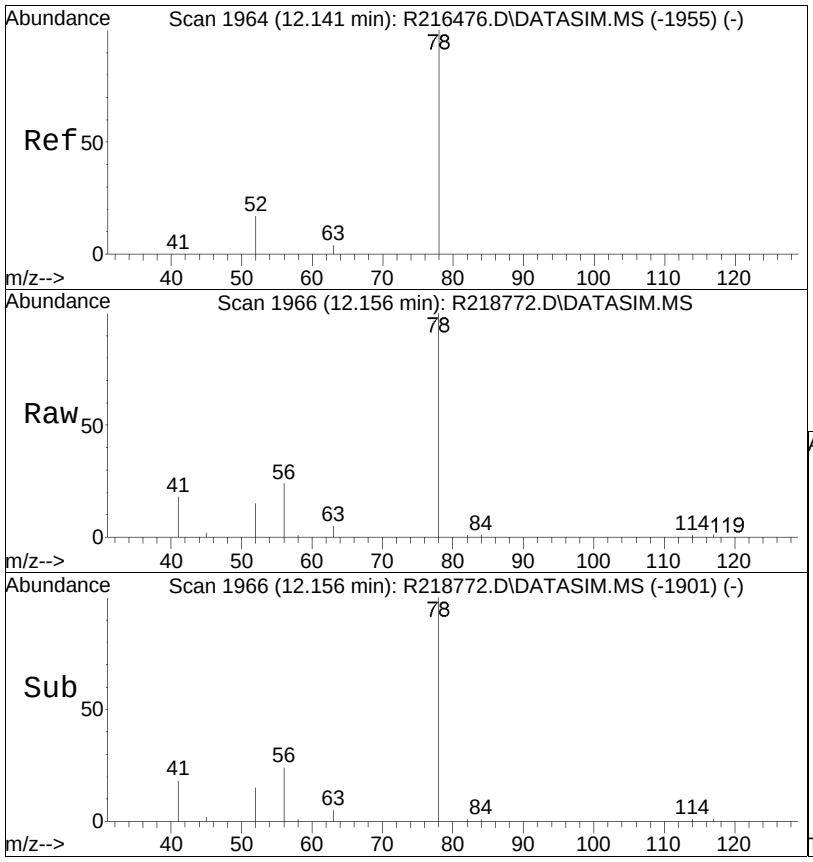
TSIM111221.M Fri Jan 06 12:14:28 2012 Page: 1

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218772.D
Acq On : 5 Jan 2012 20:16
Operator : AIRPIANO2:MB
Sample : L1200005-06,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 06 12:12:49 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

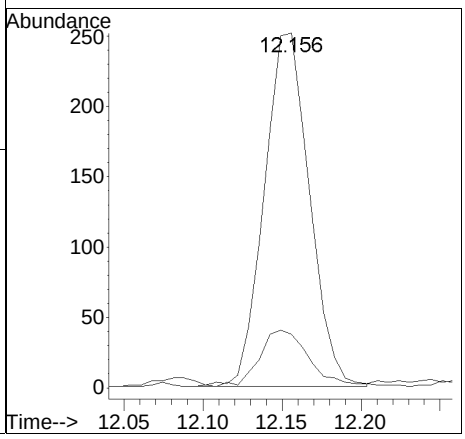




#26
benzene
Concen: 0.01 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218772.D
Acq: 5 Jan 2012 20:16

Tgt Ion: 78 Resp: 501

Ion	Ratio	Lower	Upper
78	100		
52	18.2	13.3	19.9

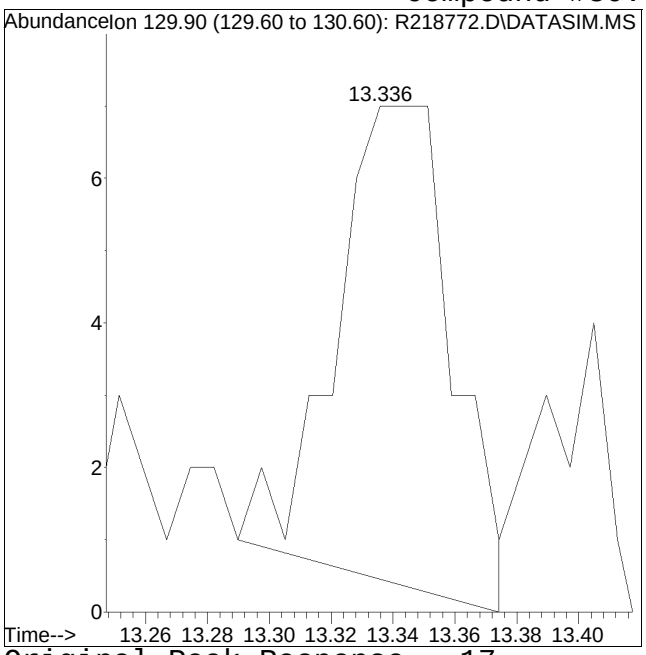


Manual Integration/Negative Proof Report

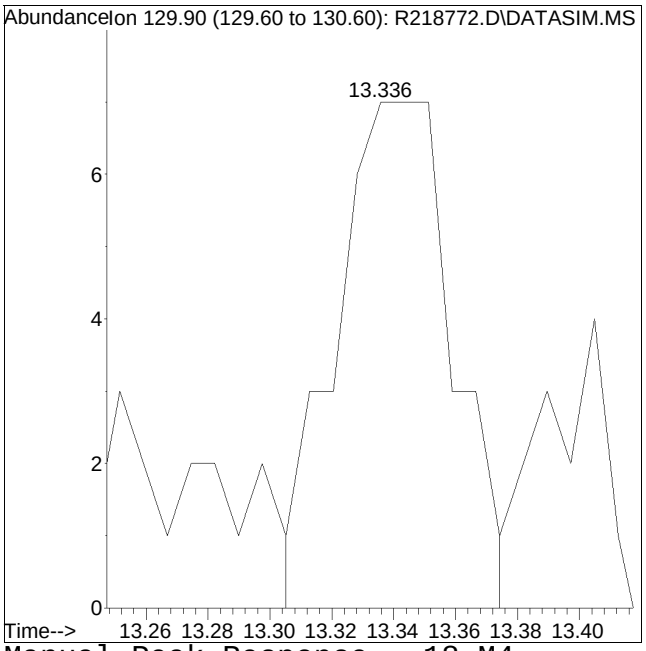
Data Path : O:\Forensics\Data\AIR2\2012
Data File : R218772.D
Date Inj'd : 1/5/2012 20:16
Sample : L1200005-06,3,250,250

QMethod : TSIM111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:13 am

Compound #30: trichloroethene



Original Peak Response = 17



Manual Peak Response = 18 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218774.D
Acq On : 5 Jan 2012 21:28
Operator : AIRPIANO2:MB
Sample : L1200005-01,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 06 09:12:40 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

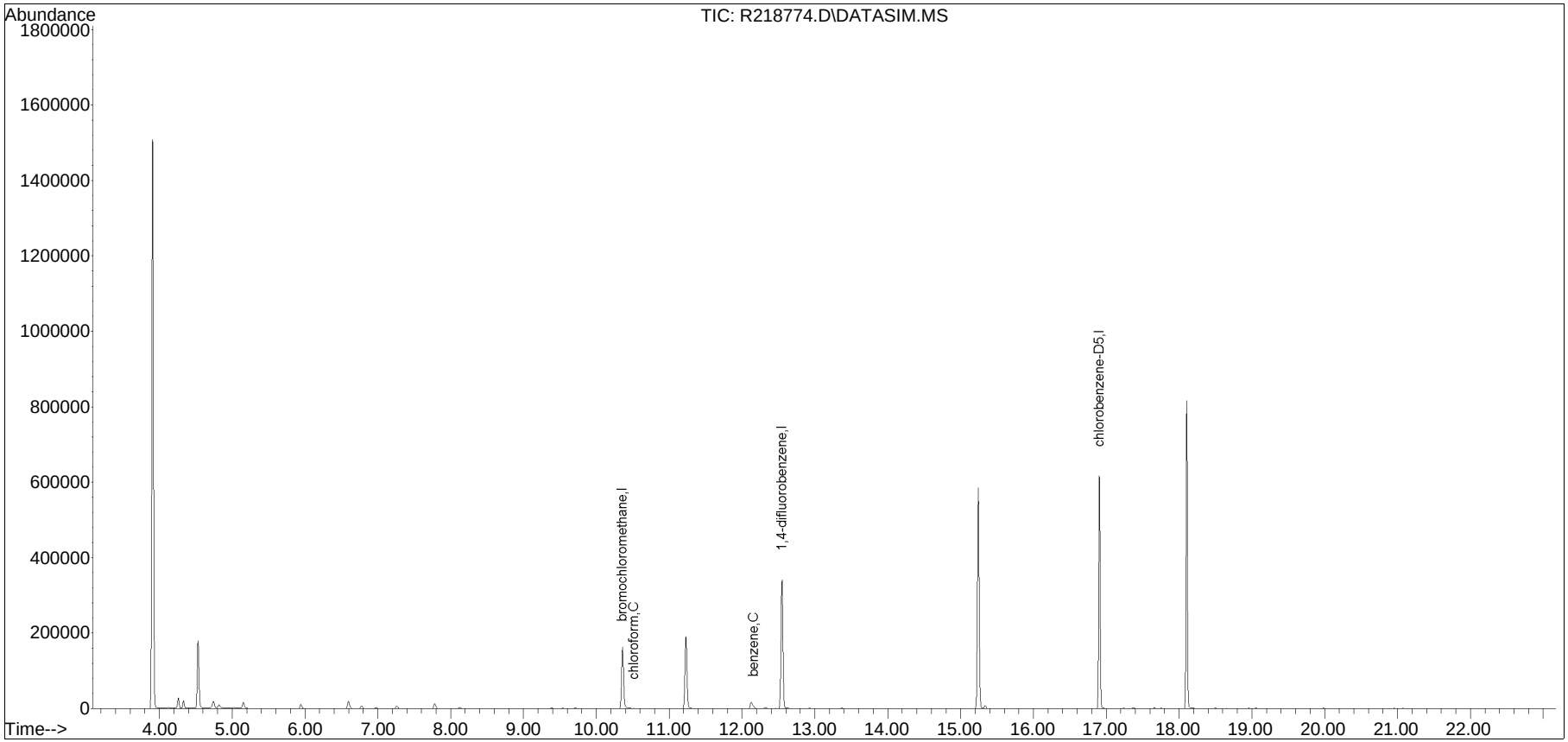
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) bromochloromethane	10.355	49	164028	10.000 ppbV	#-0.01
Standard Area = 150860			Recovery	= 108.73%	
23) 1,4-difluorobenzene	12.550	114	527150	10.000 ppbV	0.00
Standard Area = 481130			Recovery	= 109.56%	
36) chlorobenzene-D5	16.904	54	95564	10.000 ppbV	0.00
Standard Area = 89624			Recovery	= 106.63%	
System Monitoring Compounds					
Target Compounds					Qvalue
21) chloroform	10.514	83	436	0.016 ppbV #	84
26) benzene	12.156	78	6133	0.170 ppbV	98
30) trichloroethene	13.336		0	N.D.	
41) tetrachloroethene	16.378		0	N.D.	

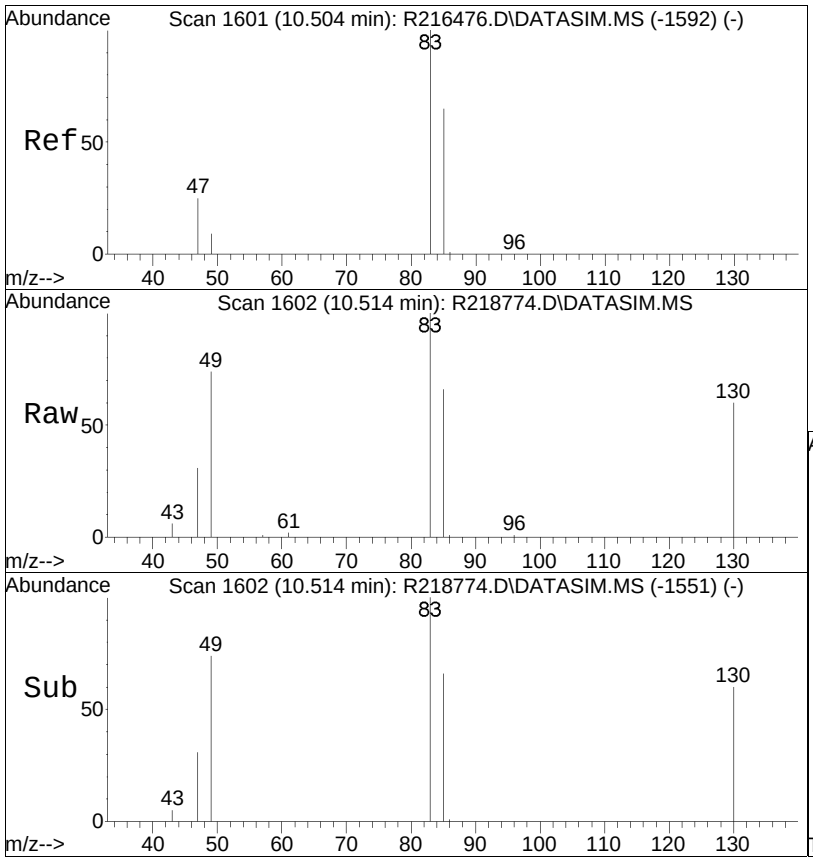
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218774.D
Acq On : 5 Jan 2012 21:28
Operator : AIRPIANO2:MB
Sample : L1200005-01,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 06 09:12:40 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

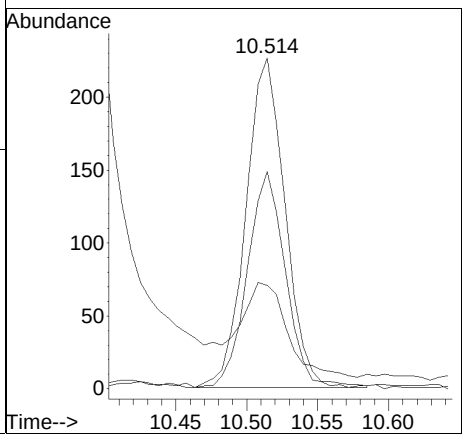


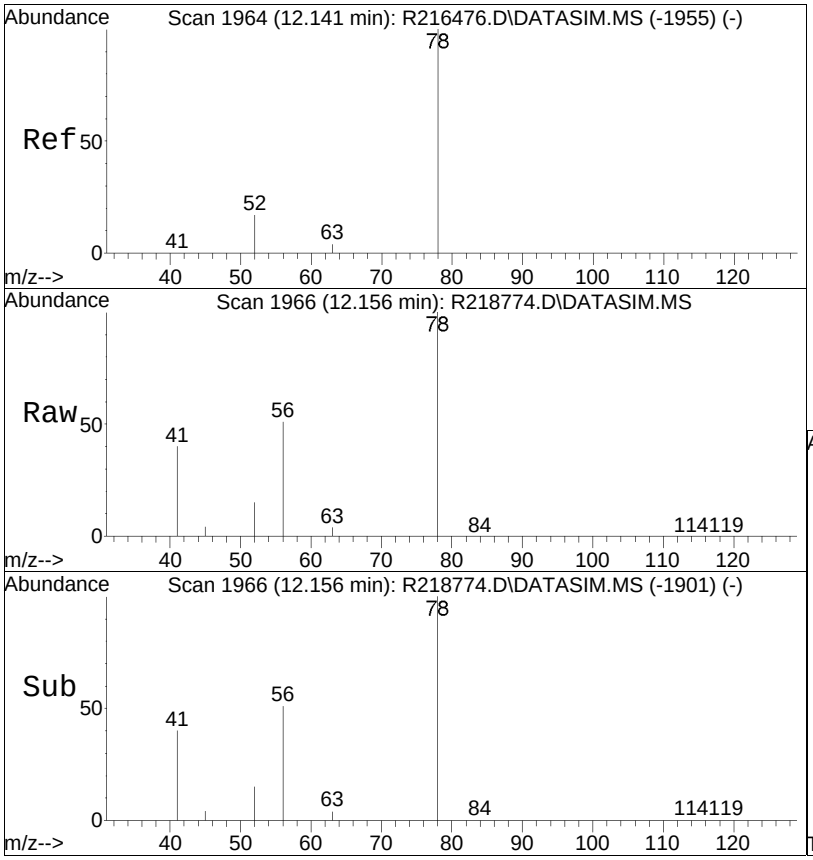


#21
chloroform
Concen: 0.02 ppbV
RT: 10.514 min Scan# 1602
Delta R.T. -0.007 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion: 83 Resp: 436

Ion	Ratio	Lower	Upper
83	100		
85	62.8	52.4	78.6
47	0.0	19.9	29.9#

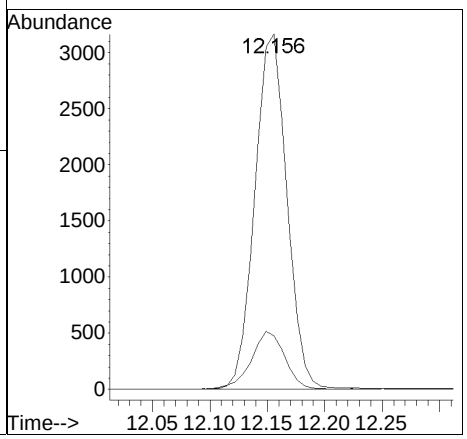




#26
benzene
Concen: 0.17 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion: 78 Resp: 6133

Ion	Ratio	Lower	Upper
78	100		
52	17.5	13.3	19.9



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218775.D
Acq On : 5 Jan 2012 22:04
Operator : AIRPIANO2:MB
Sample : L1200005-02,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 06 09:12:54 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) bromochloromethane	10.362	49	164103	10.000 ppbV	# 0.00
Standard Area = 150860			Recovery	= 108.78%	
23) 1,4-difluorobenzene	12.551	114	534281	10.000 ppbV	0.00
Standard Area = 481130			Recovery	= 111.05%	
36) chlorobenzene-D5	16.904	54	93047	10.000 ppbV	0.00
Standard Area = 89624			Recovery	= 103.82%	
System Monitoring Compounds					
Target Compounds					Qvalue
21) chloroform	10.515	83	474	0.017 ppbV #	84
26) benzene	12.156	78	5985	0.164 ppbV	99
30) trichloroethene	13.344	130	556	0.026 ppbV	99
41) tetrachloroethene	16.374		0	N.D.	

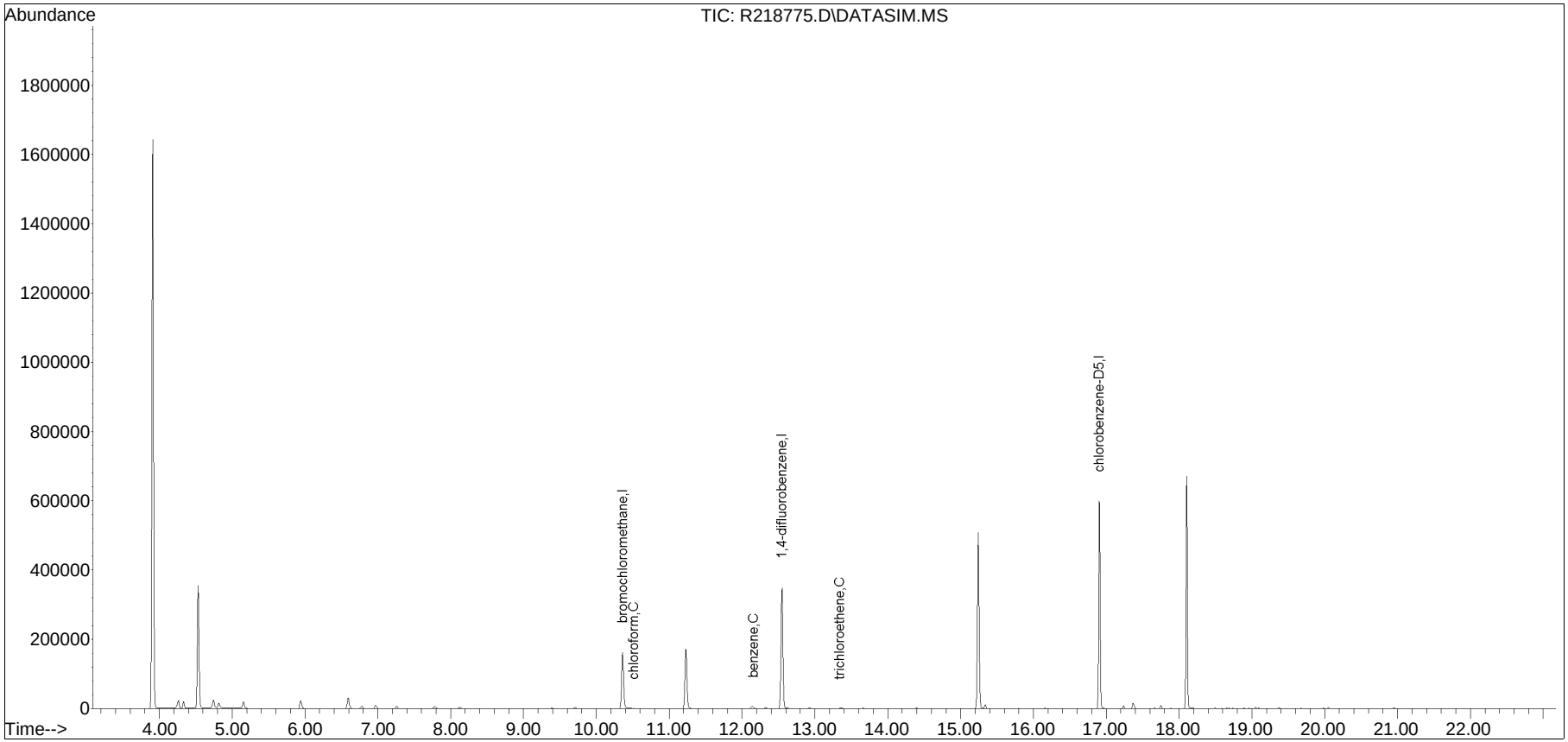
(#) = qualifier out of range (m) = manual integration (+) = signals summed

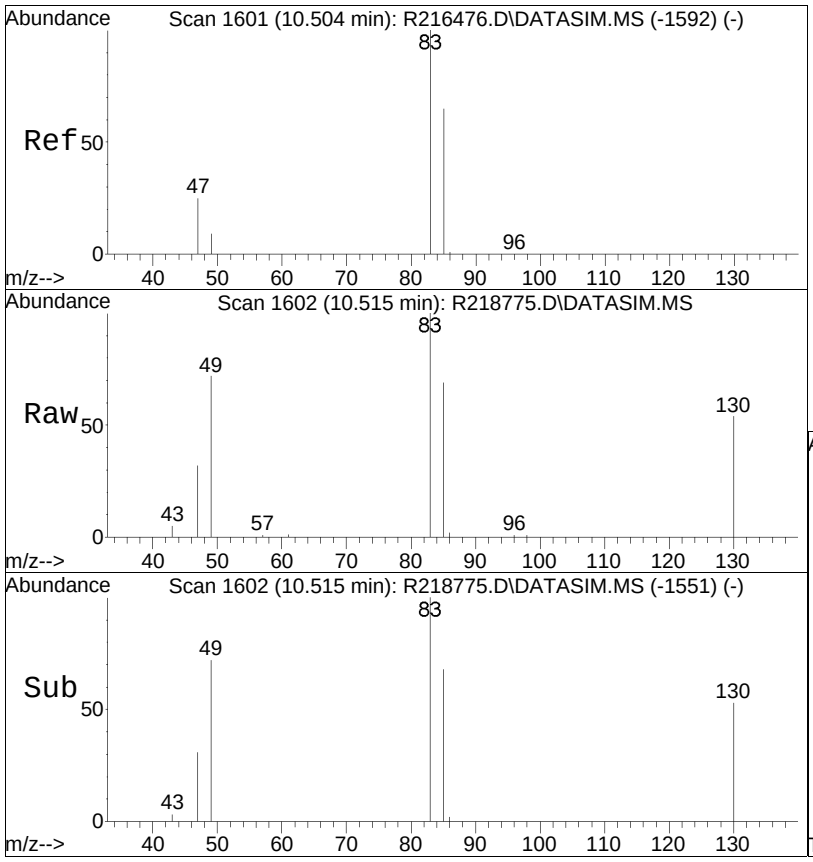
TSIM111221.M Fri Jan 06 13:26:47 2012 Page: 1

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218775.D
Acq On : 5 Jan 2012 22:04
Operator : AIRPIANO2:MB
Sample : L1200005-02,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 06 09:12:54 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

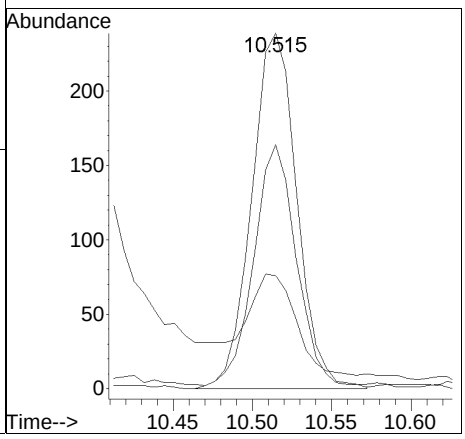


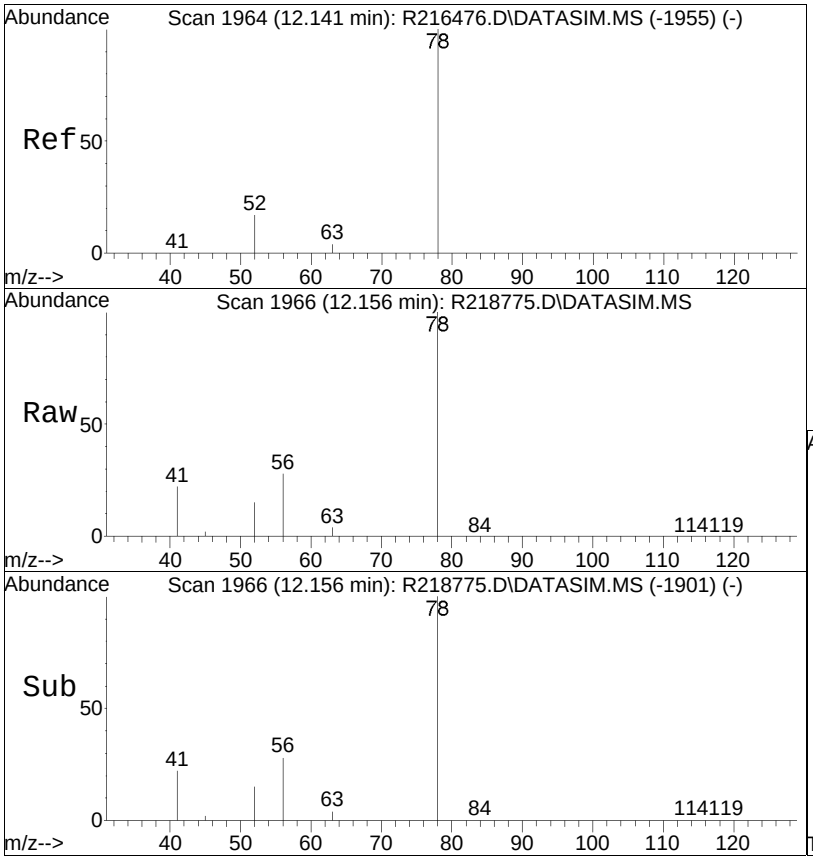


#21
chloroform
Concen: 0.02 ppbV
RT: 10.515 min Scan# 1602
Delta R.T. -0.006 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion: 83 Resp: 474

Ion	Ratio	Lower	Upper
83	100		
85	63.3	52.4	78.6
47	0.0	19.9	29.9#

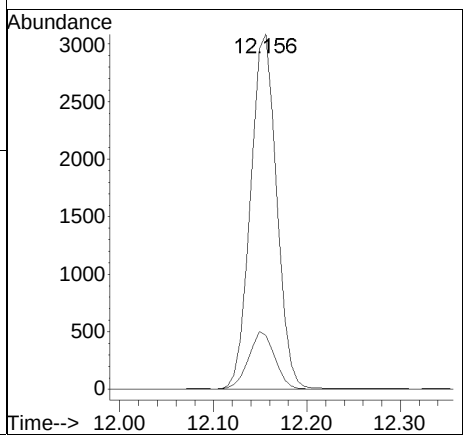


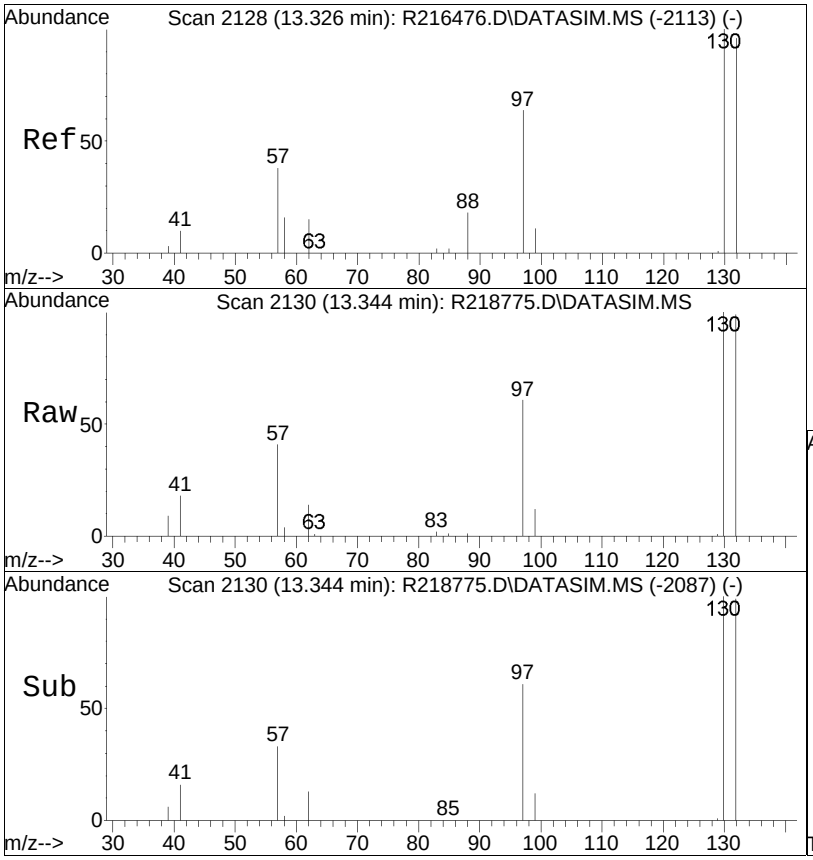


#26
benzene
Concen: 0.16 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion: 78 Resp: 5985

Ion	Ratio	Lower	Upper
78	100		
52	16.3	13.3	19.9

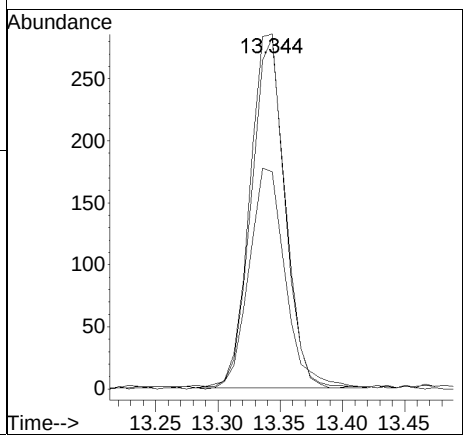




#30
trichloroethene
Concen: 0.03 ppbV
RT: 13.344 min Scan# 2130
Delta R.T. -0.000 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion:130 Resp: 556

Ion	Ratio	Lower	Upper
130	100		
132	96.4	77.4	116.2
97	64.7	50.0	75.0



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218776.D
Acq On : 5 Jan 2012 22:40
Operator : AIRPIANO2:MB
Sample : L1200005-03,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 06 09:13:08 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) bromochloromethane	10.355	49	160925	10.000 ppbV	#-0.01
Standard Area = 150860			Recovery	= 106.67%	
23) 1,4-difluorobenzene	12.550	114	526051	10.000 ppbV	0.00
Standard Area = 481130			Recovery	= 109.34%	
36) chlorobenzene-D5	16.904	54	91959	10.000 ppbV	0.00
Standard Area = 89624			Recovery	= 102.61%	
System Monitoring Compounds					
Target Compounds					Qvalue
21) chloroform	10.514	83	390	0.014 ppbV #	85
26) benzene	12.156	78	5077	0.141 ppbV	100
30) trichloroethene	13.336		0	N.D.	
41) tetrachloroethene	16.378		0	N.D.	

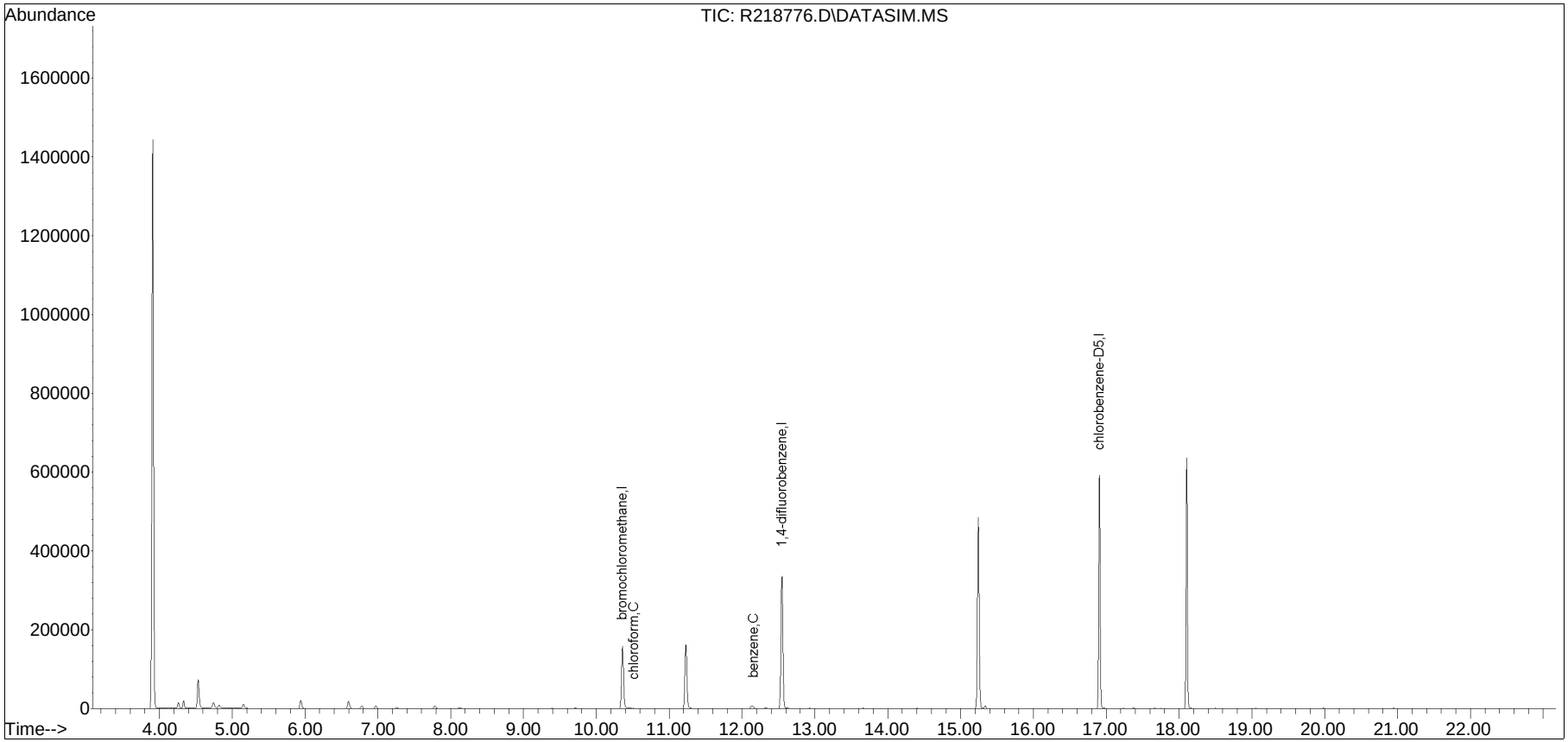
(#) = qualifier out of range (m) = manual integration (+) = signals summed

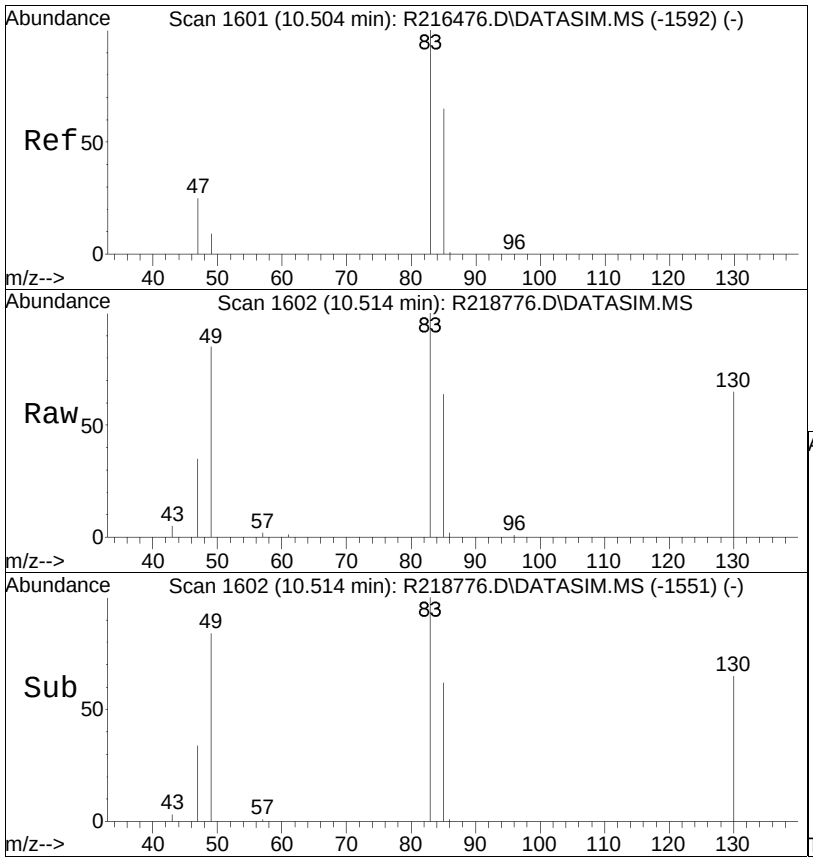
TSIM111221.M Fri Jan 06 13:27:11 2012 Page: 1

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218776.D
Acq On : 5 Jan 2012 22:40
Operator : AIRPIANO2:MB
Sample : L1200005-03,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 06 09:13:08 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

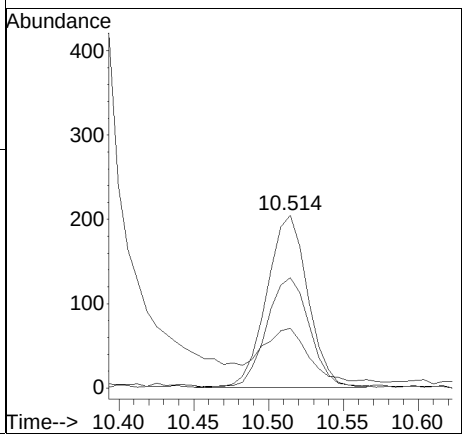


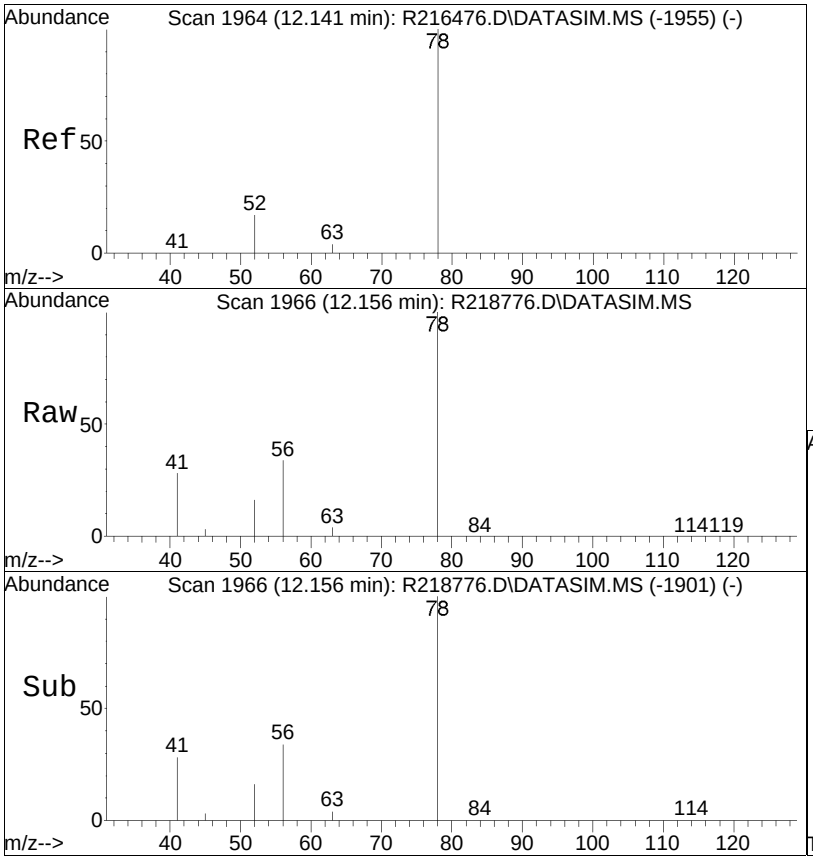


#21
chloroform
Concen: 0.01 ppbV
RT: 10.514 min Scan# 1602
Delta R.T. -0.007 min
Lab File: R218776.D
Acq: 5 Jan 2012 22:40

Tgt Ion: 83 Resp: 390

Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.4	78.6
47	0.0	19.9	29.9#

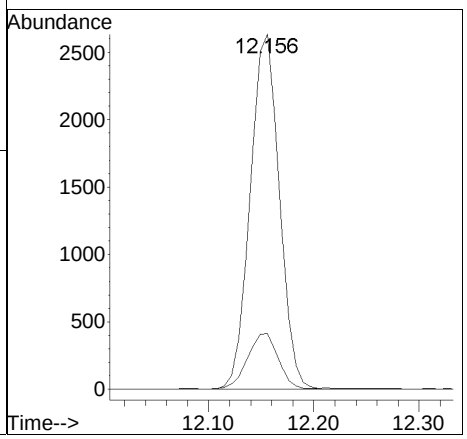




#26
benzene
Concen: 0.14 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218776.D
Acq: 5 Jan 2012 22:40

Tgt Ion: 78 Resp: 5077

Ion	Ratio	Lower	Upper
78	100		
52	16.4	13.3	19.9



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218777.D
Acq On : 5 Jan 2012 23:15
Operator : AIRPIANO2:MB
Sample : L1200005-04,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 06 09:13:25 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) bromochloromethane	10.356	49	163790	10.000 ppbV	#-0.01
Standard Area = 150860			Recovery	= 108.57%	
23) 1,4-difluorobenzene	12.551	114	537676	10.000 ppbV	0.00
Standard Area = 481130			Recovery	= 111.75%	
36) chlorobenzene-D5	16.907	54	94757	10.000 ppbV	0.00
Standard Area = 89624			Recovery	= 105.73%	
System Monitoring Compounds					
Target Compounds					Qvalue
21) chloroform	10.515	83	358	0.013 ppbV #	85
26) benzene	12.156	78	4533	0.123 ppbV	98
30) trichloroethene	13.343		0	N.D.	
41) tetrachloroethene	16.376		0	N.D.	

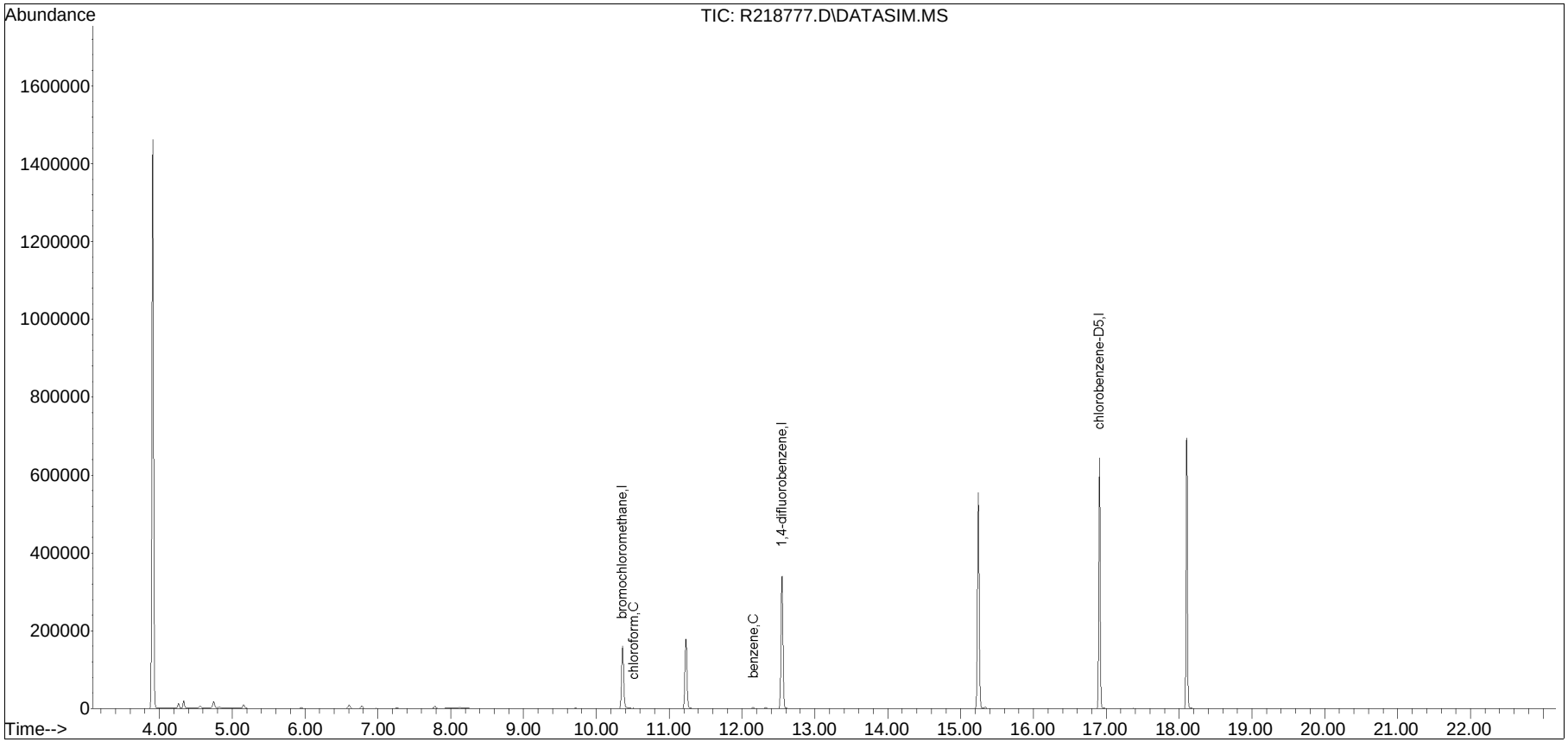
(#) = qualifier out of range (m) = manual integration (+) = signals summed

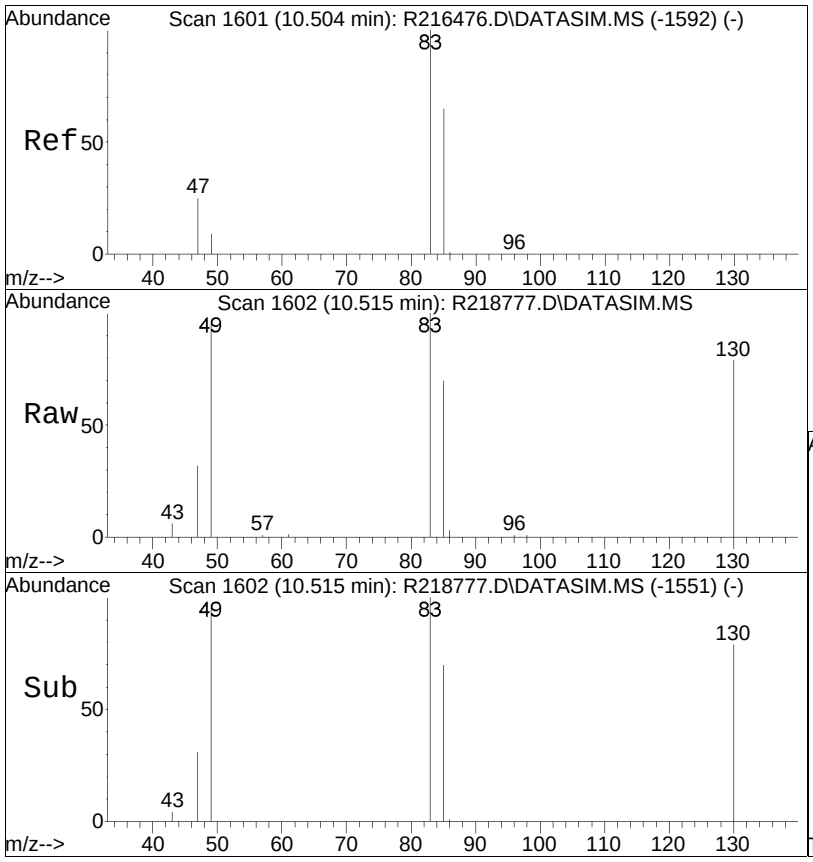
TSIM111221.M Fri Jan 06 13:27:50 2012 Page: 1

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218777.D
Acq On : 5 Jan 2012 23:15
Operator : AIRPIANO2:MB
Sample : L1200005-04,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 06 09:13:25 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

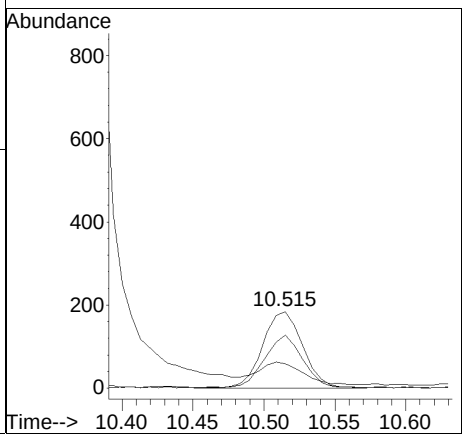


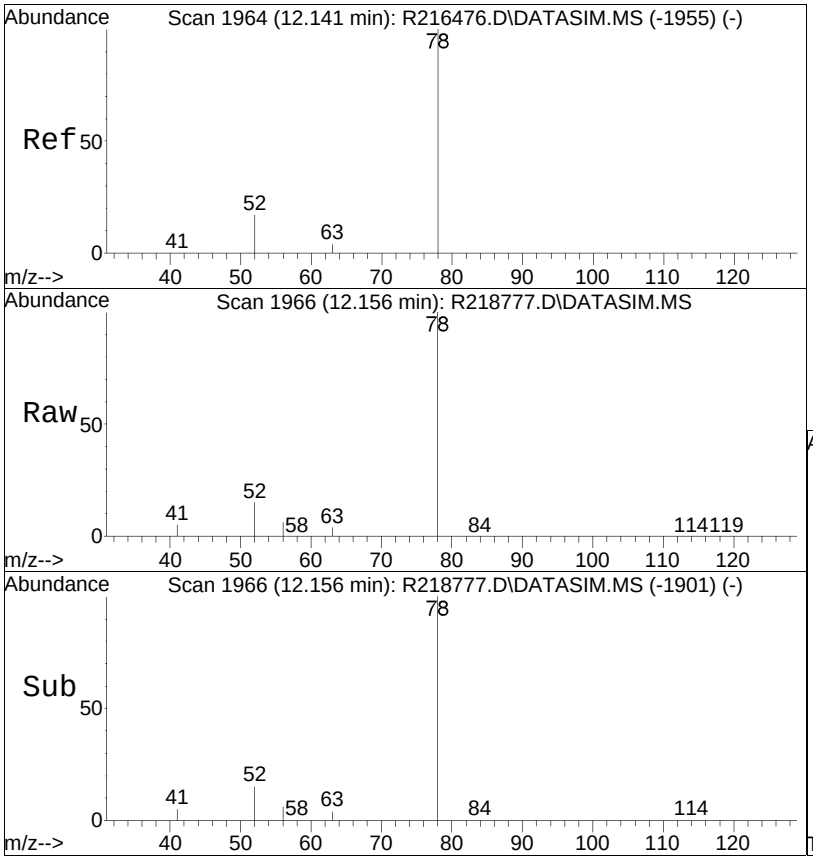


#21
chloroform
Concen: 0.01 ppbV
RT: 10.515 min Scan# 1602
Delta R.T. -0.006 min
Lab File: R218777.D
Acq: 5 Jan 2012 23:15

Tgt Ion: 83 Resp: 358

Ion	Ratio	Lower	Upper
83	100		
85	66.8	52.4	78.6
47	0.0	19.9	29.9#

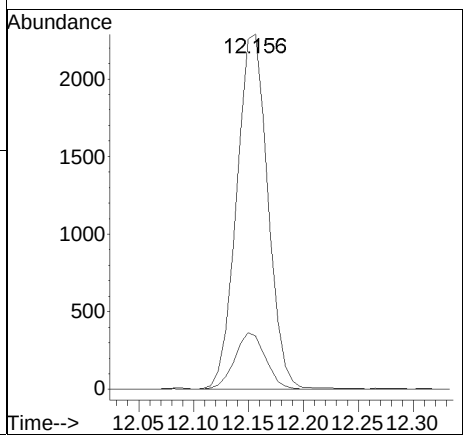




#26
benzene
Concen: 0.12 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. 0.000 min
Lab File: R218777.D
Acq: 5 Jan 2012 23:15

Tgt Ion: 78 Resp: 4533

Ion	Ratio	Lower	Upper
78	100		
52	15.6	13.3	19.9



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218778.D
Acq On : 5 Jan 2012 23:51
Operator : AIRPIANO2:MB
Sample : L1200005-05,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 06 13:27:05 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) bromochloromethane	10.355	49	160798	10.000 ppbV	#-0.01
Standard Area = 150860			Recovery	= 106.59%	
23) 1,4-difluorobenzene	12.550	114	513588	10.000 ppbV	0.00
Standard Area = 481130			Recovery	= 106.75%	
36) chlorobenzene-D5	16.907	54	90948	10.000 ppbV	0.00
Standard Area = 89624			Recovery	= 101.48%	
System Monitoring Compounds					
Target Compounds					Qvalue
21) chloroform	10.514	83	359	0.013 ppbV #	84
26) benzene	12.156	78	4431	0.126 ppbV	98
30) trichloroethene	13.336		0	N.D.	
41) tetrachloroethene	16.376		0	N.D.	

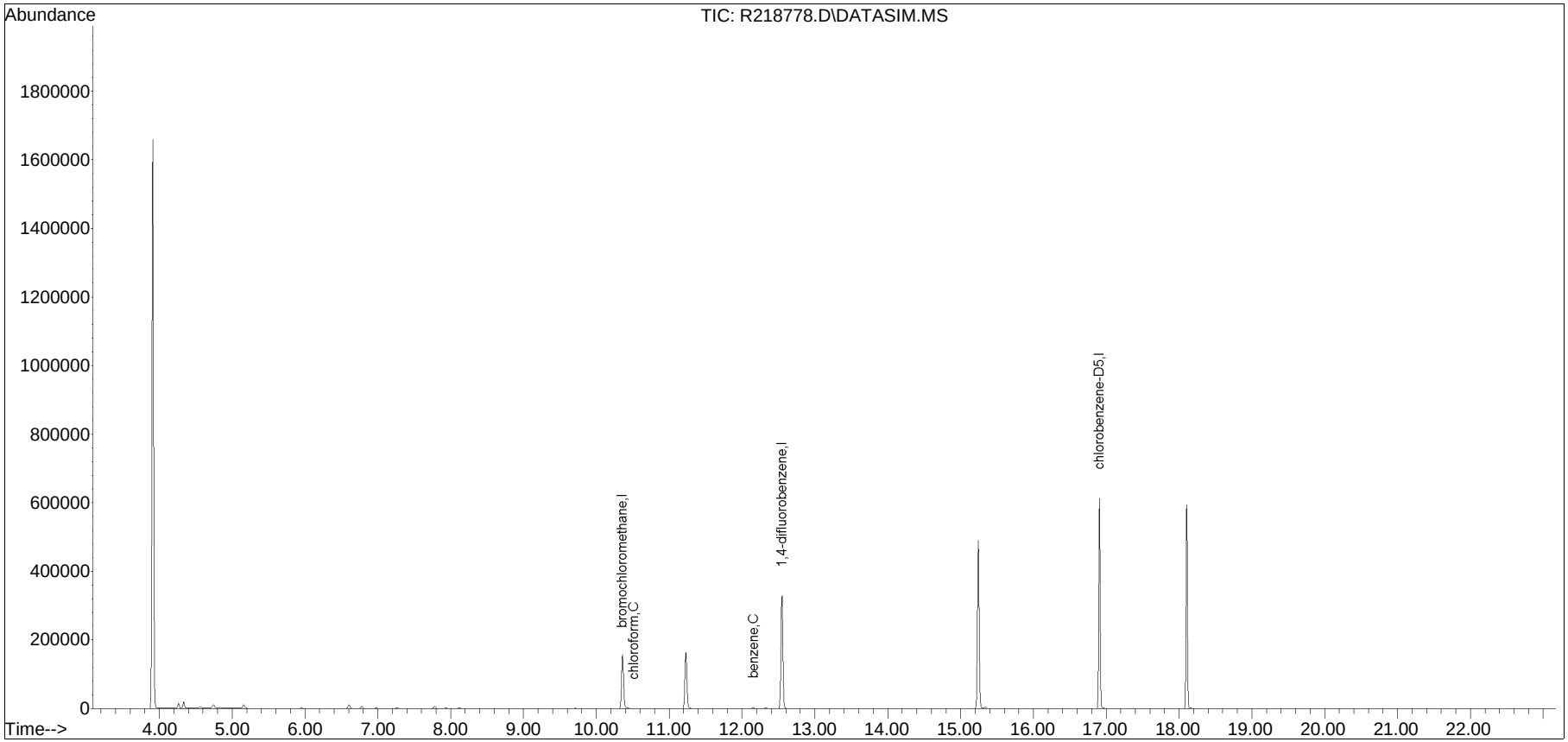
(#) = qualifier out of range (m) = manual integration (+) = signals summed

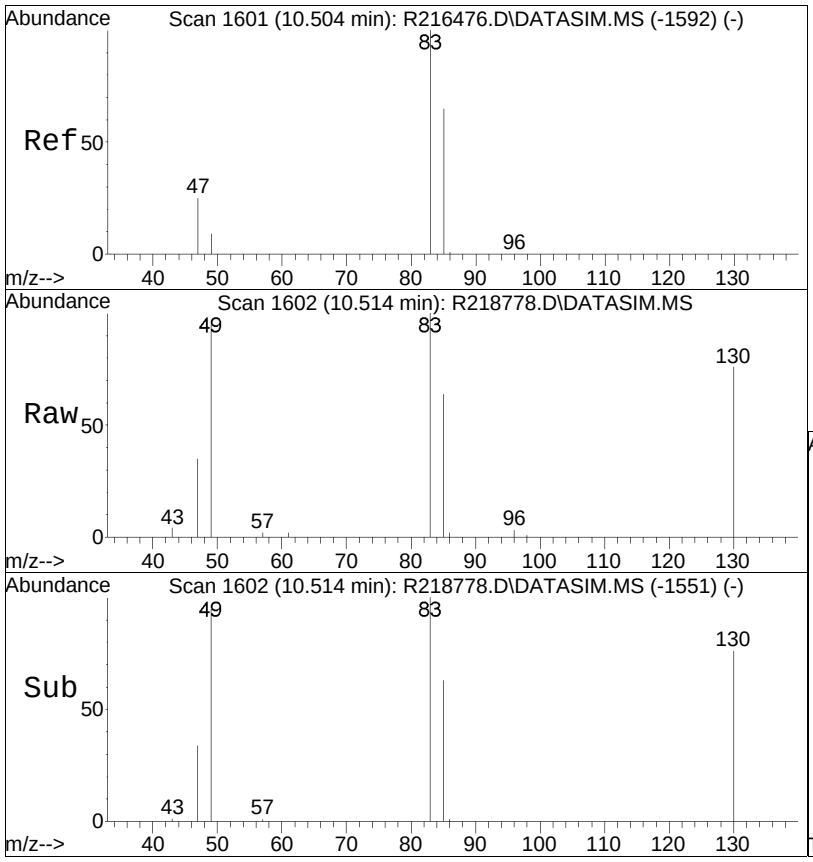
TSIM111221.M Fri Jan 06 13:28:48 2012 Page: 1

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218778.D
Acq On : 5 Jan 2012 23:51
Operator : AIRPIANO2:MB
Sample : L1200005-05,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 06 13:27:05 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

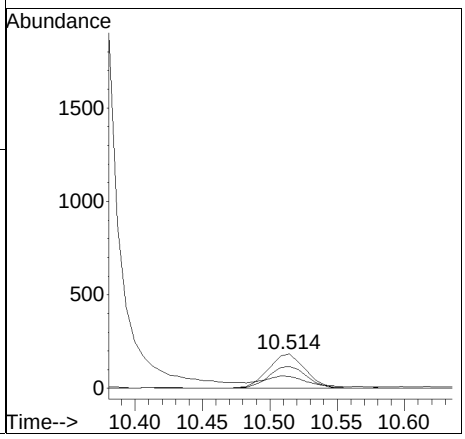


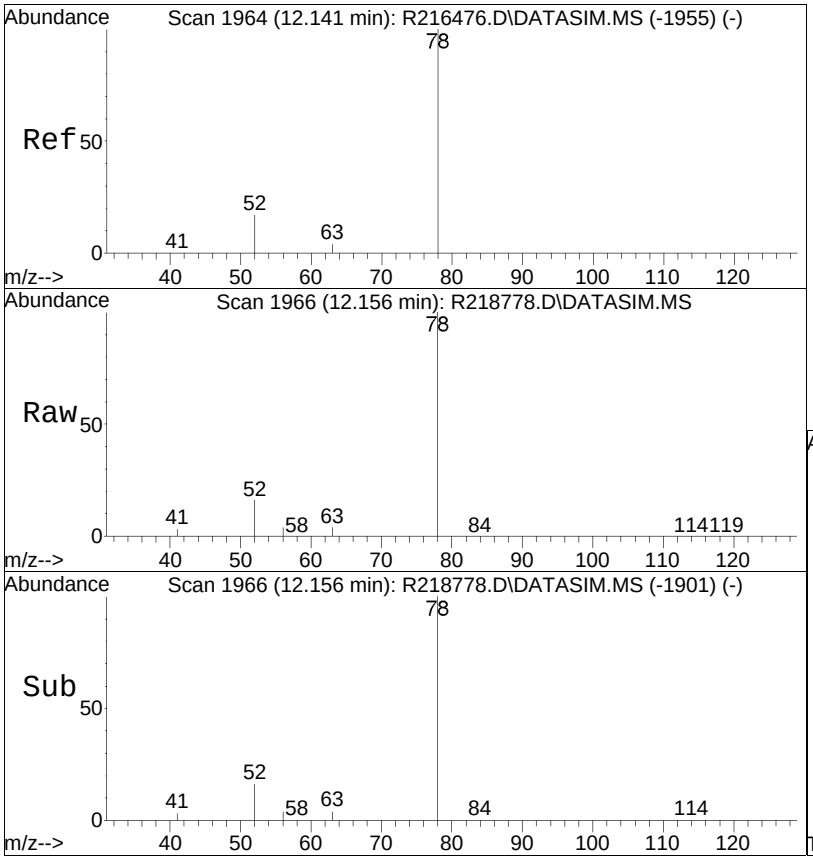


#21
chloroform
Concen: 0.01 ppbV
RT: 10.514 min Scan# 1602
Delta R.T. -0.007 min
Lab File: R218778.D
Acq: 5 Jan 2012 23:51

Tgt Ion: 83 Resp: 359

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.4	78.6
47	0.0	19.9	29.9#

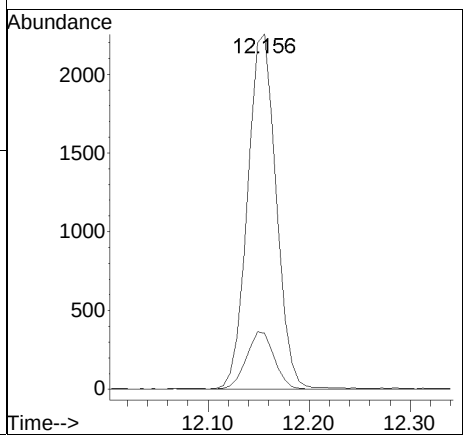




#26
benzene
Concen: 0.13 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218778.D
Acq: 5 Jan 2012 23:51

Tgt Ion: 78 Resp: 4431

Ion	Ratio	Lower	Upper
78	100		
52	15.7	13.3	19.9

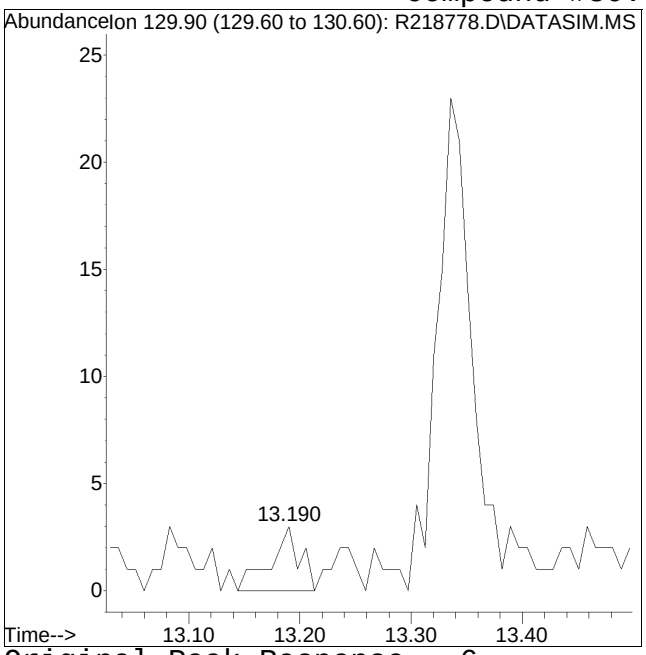


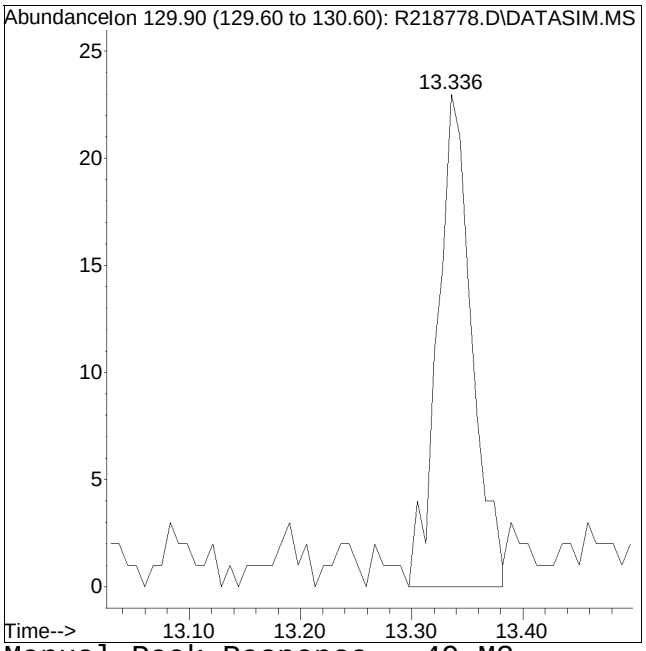
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218778.D
Date Inj'd : 1/5/2012 23:51
Sample : L1200005-05,3,250,250

Method : TSIM111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:14 am

Compound #30: trichloroethene





Original Peak Response = 6 Manual Peak Response = 49 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Method Blank
Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218771.D
Acq On : 5 Jan 2012 19:40
Operator : AIRPIANO2:MB
Sample : WG511603-4,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 06 09:11:05 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

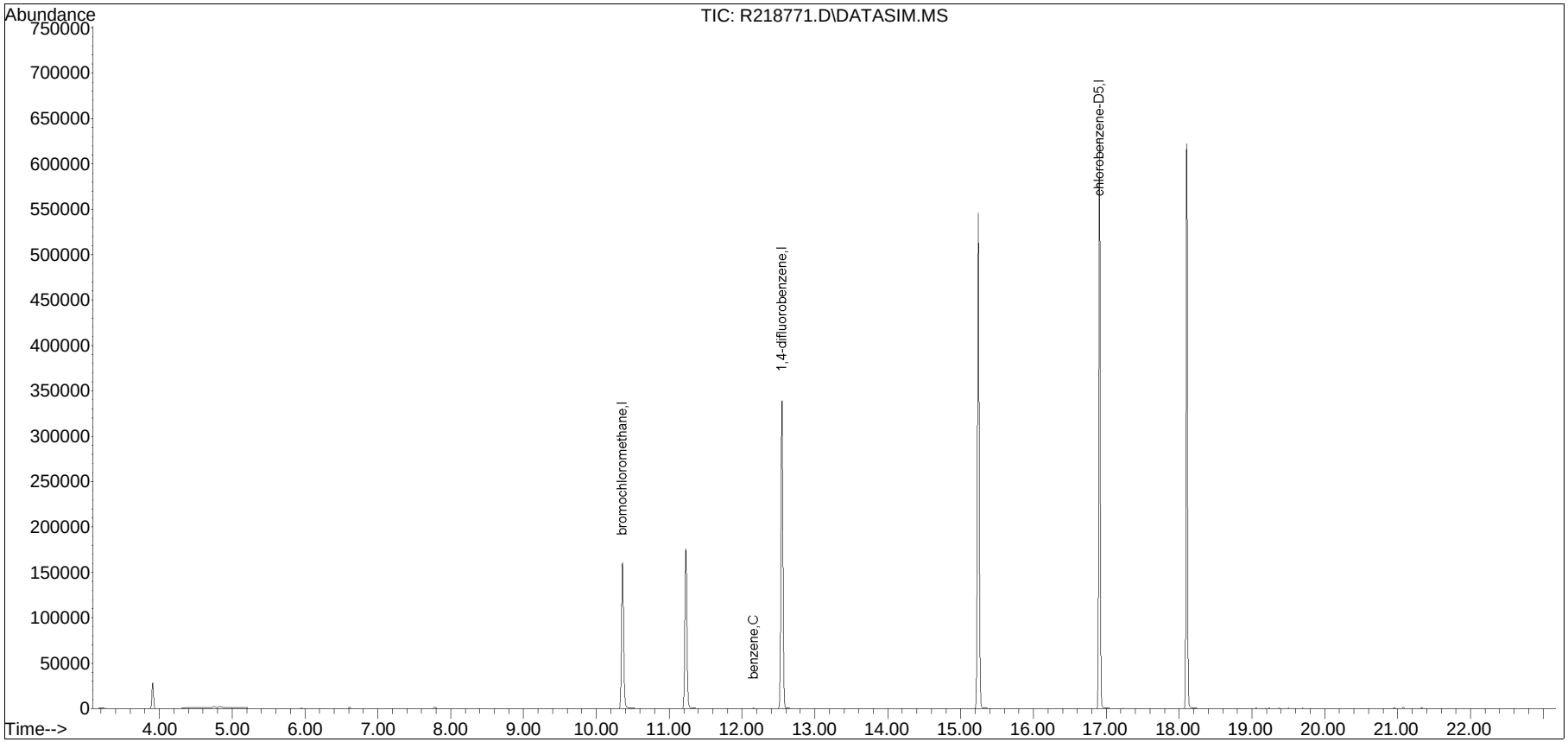
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.355	49	165082	10.000	ppbV	#-0.01
Standard Area = 150860			Recovery = 109.43%			
23) 1,4-difluorobenzene	12.551	114	534835	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 111.16%			
36) chlorobenzene-D5	16.907	54	93870	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 104.74%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	0.000		0	N.D.	d	
26) benzene	12.156	78	454	0.012	ppbV	99
30) trichloroethene	13.335		0	N.D.		
41) tetrachloroethene	16.376		0	N.D.		

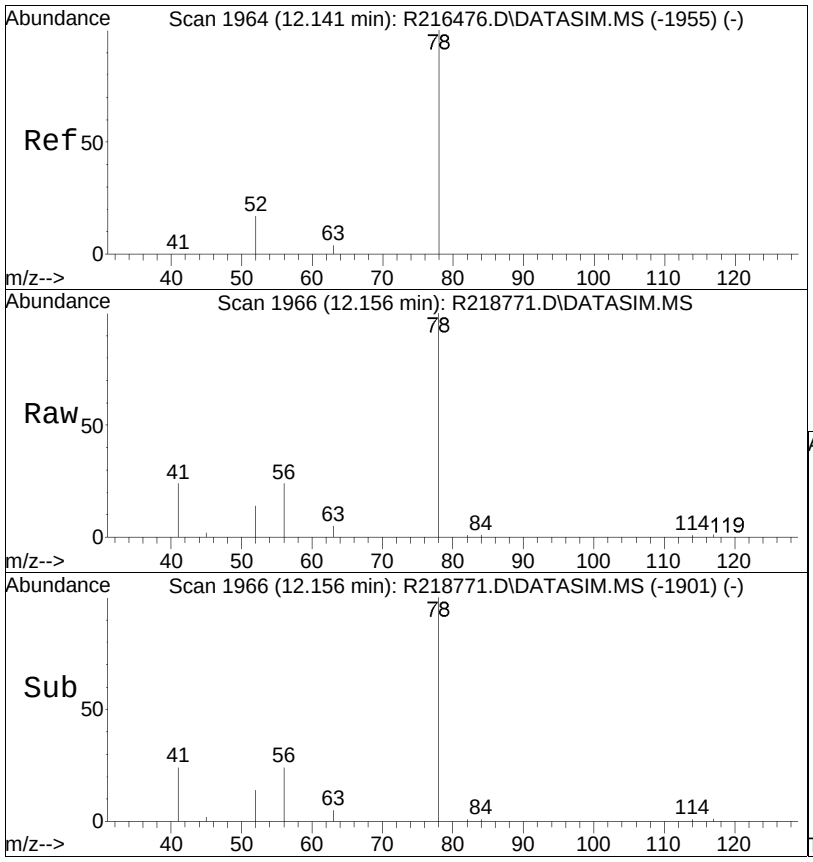
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218771.D
Acq On : 5 Jan 2012 19:40
Operator : AIRPIANO2:MB
Sample : WG511603-4,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 06 09:11:05 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

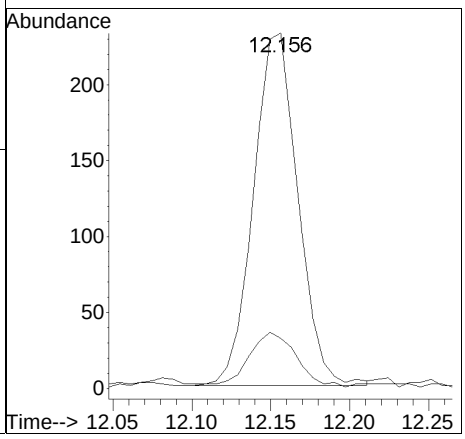




#26
benzene
Concen: 0.01 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. 0.000 min
Lab File: R218771.D
Acq: 5 Jan 2012 19:40

Tgt Ion: 78 Resp: 454

Ion	Ratio	Lower	Upper
78	100		
52	16.3	13.3	19.9

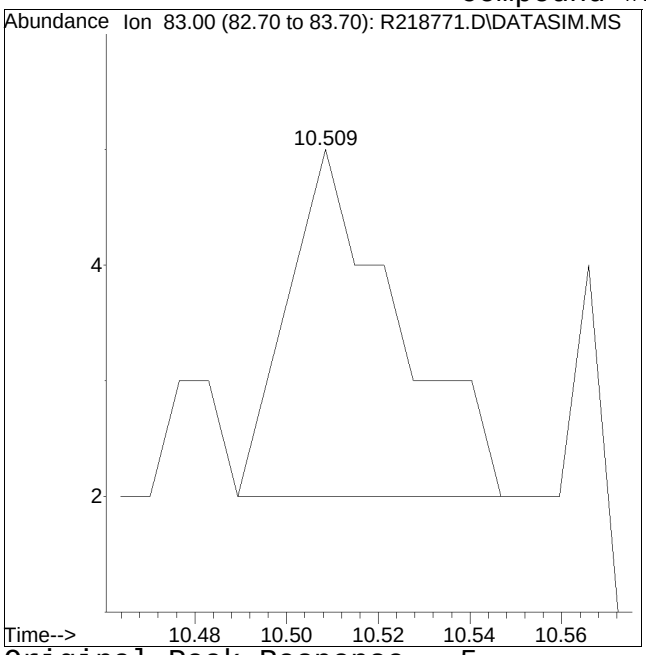


Manual Integration/Negative Proof Report

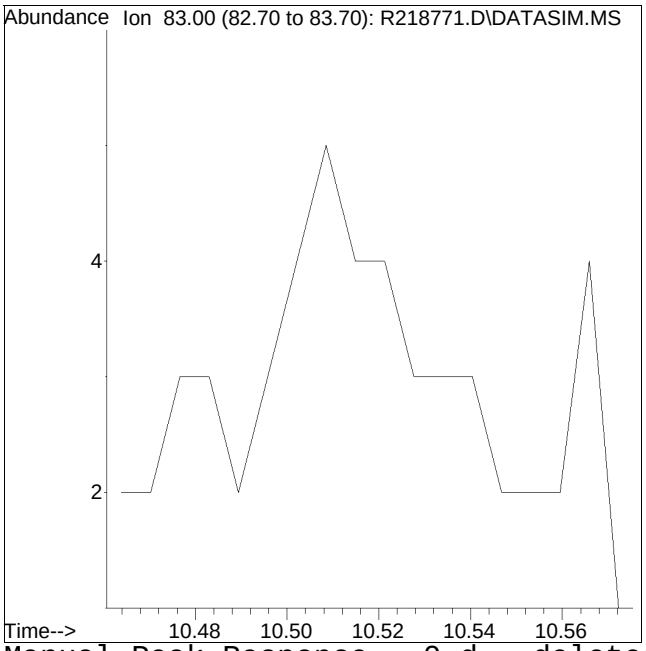
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218771.D
Date Inj'd : 1/5/2012 19:40
Sample : WG511603-4,3,250,250

Method : TSIM111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:11 am

Compound #21: chloroform



Original Peak Response = 5



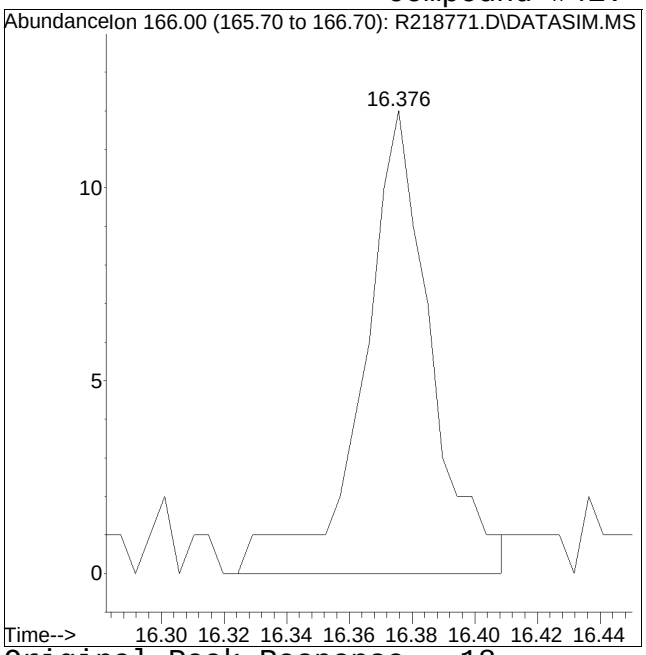
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

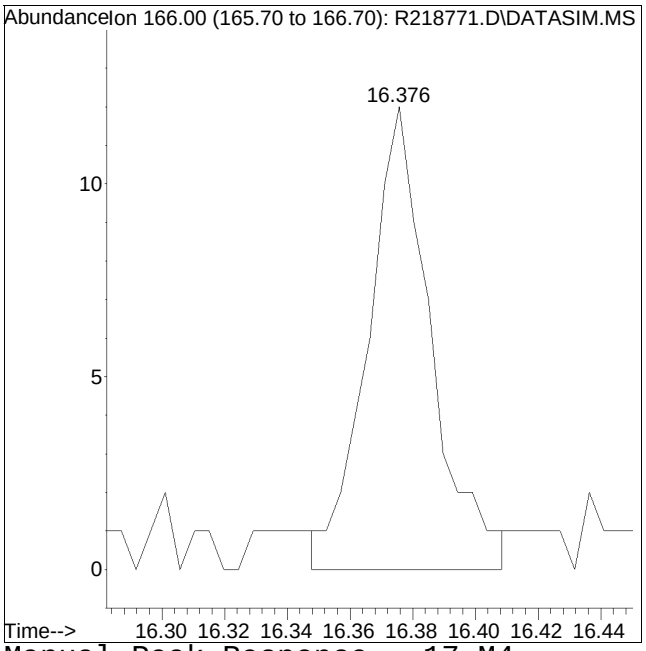
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218771.D
Date Inj'd : 1/5/2012 19:40
Sample : WG511603-4,3,250,250

Method : TSIM111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:11 am

Compound #41: tetrachloroethene



Original Peak Response = 18



Manual Peak Response = 17 M4

M4 = Poor automated baseline construction.

Batch Quality Control

LCS Raw Data

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218769.D
Acq On : 5 Jan 2012 18:04
Operator : AIRPIANO2:ry
Sample : WG511603-3,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 18:27:38 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	73	-0.01
21	C	chloroform	5.000	5.095	-1.9	74	0.00
23	I	1,4-difluorobenzene	10.000	10.000	0.0	74	0.00
26	C	benzene	5.000	4.737	5.3	71	0.00
30	C	trichloroethene	5.000	4.934	1.3	77	0.00
36	I	chlorobenzene-D5	10.000	10.000	0.0	70	0.00
41	C	tetrachloroethene	5.000	5.555	-11.1	80	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218769.D
Acq On : 5 Jan 2012 18:04
Operator : AIRPIANO2:ry
Sample : WG511603-3,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 18:27:38 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

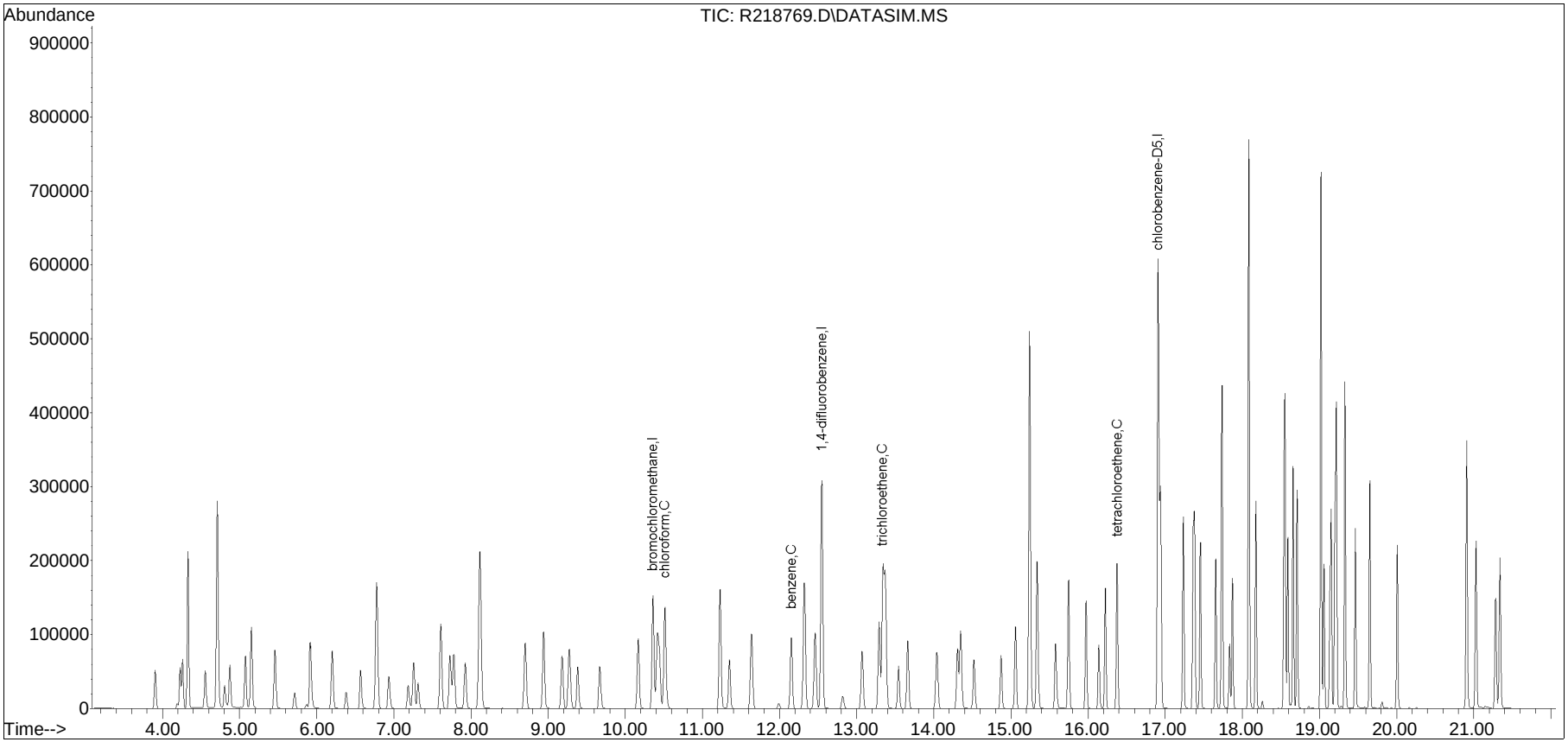
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) bromochloromethane	10.355	49	150860	10.000 ppbV	#-0.01
Standard Area = 150860			Recovery = 100.00%		
23) 1,4-difluorobenzene	12.550	114	481130	10.000 ppbV	0.00
Standard Area = 481130			Recovery = 100.00%		
36) chlorobenzene-D5	16.904	54	89624	10.000 ppbV	0.00
Standard Area = 89624			Recovery = 100.00%		
System Monitoring Compounds					
Target Compounds					Qvalue
21) chloroform	10.514	83	130242	5.095 ppbV	99
26) benzene	12.156	78	155616	4.737 ppbV	98
30) trichloroethene	13.336	130	93486	4.934 ppbV	99
41) tetrachloroethene	16.378	166	138892	5.555 ppbV	89

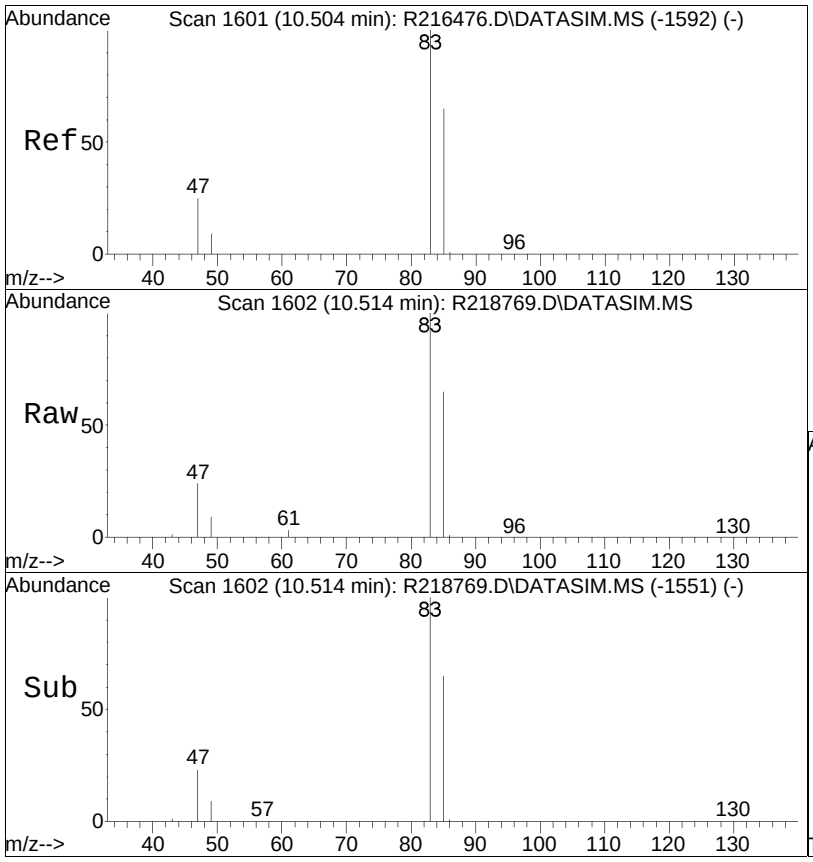
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218769.D
Acq On : 5 Jan 2012 18:04
Operator : AIRPIANO2:ry
Sample : WG511603-3,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 18:27:38 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

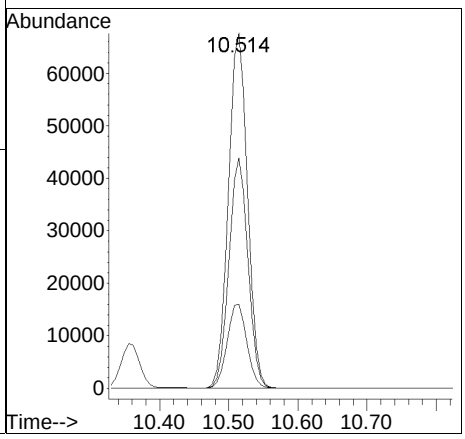


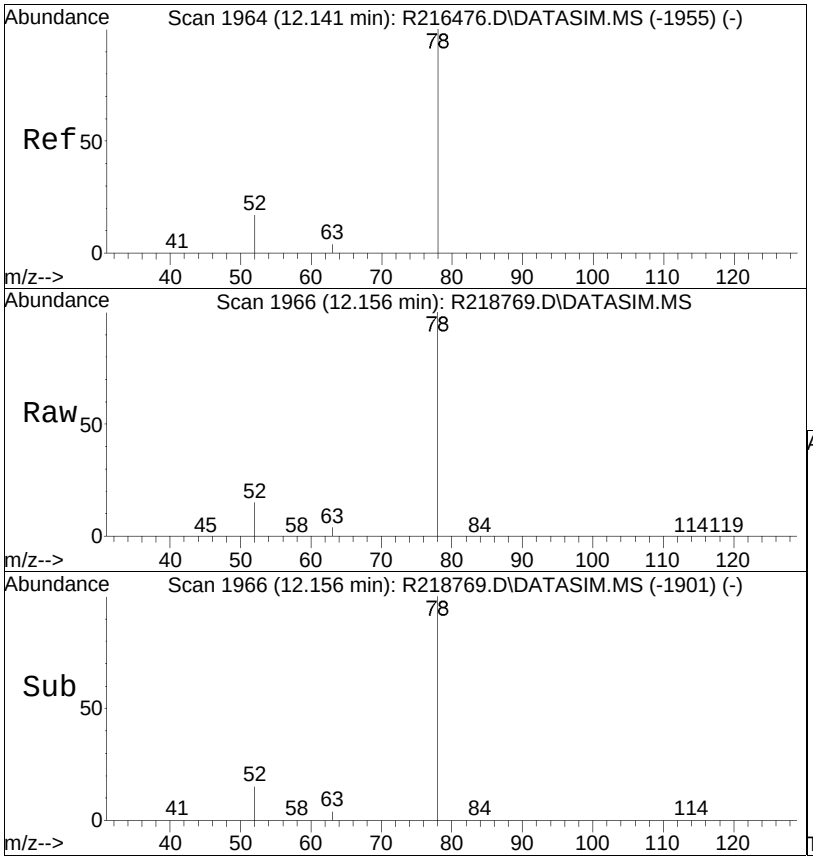


#21
chloroform
Concen: 5.09 ppbV
RT: 10.514 min Scan# 1602
Delta R.T. -0.007 min
Lab File: R218769.D
Acq: 5 Jan 2012 18:04

Tgt Ion: 83 Resp: 130242

Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.4	78.6
47	24.5	19.9	29.9

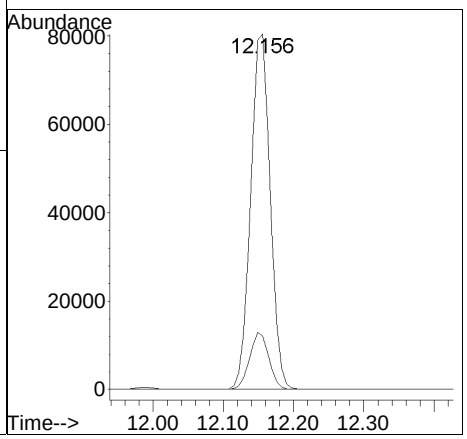


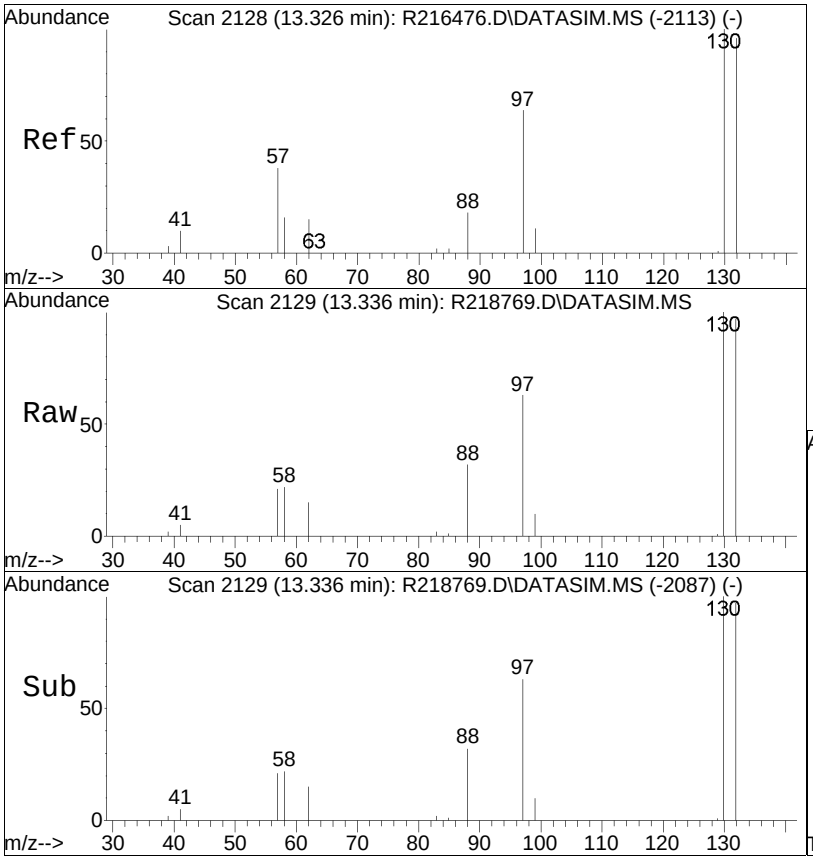


#26
benzene
Concen: 4.74 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218769.D
Acq: 5 Jan 2012 18:04

Tgt Ion: 78 Resp: 155616

Ion	Ratio	Lower	Upper
78	100		
52	15.7	13.3	19.9

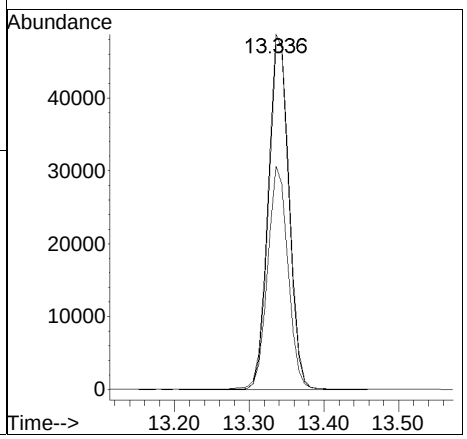


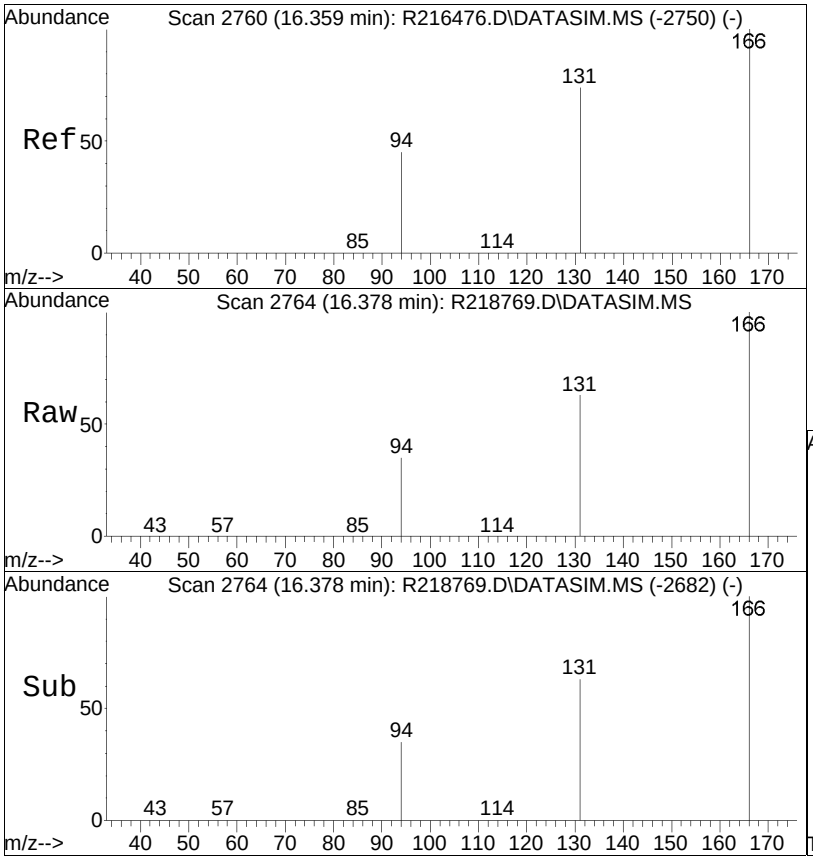


#30
trichloroethene
Concen: 4.93 ppbV
RT: 13.336 min Scan# 2129
Delta R.T. -0.008 min
Lab File: R218769.D
Acq: 5 Jan 2012 18:04

Tgt Ion:130 Resp: 93486

Ion	Ratio	Lower	Upper
130	100		
132	98.0	77.4	116.2
97	62.1	50.0	75.0

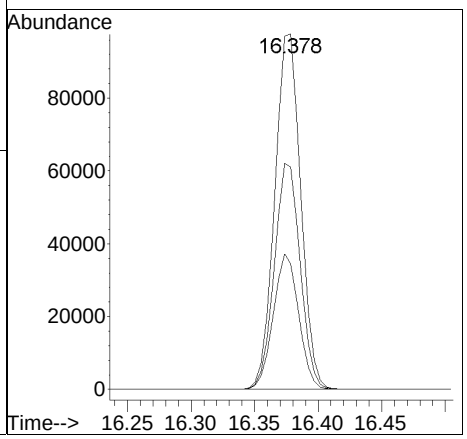




#41
tetrachloroethene
Concen: 5.55 ppbV
RT: 16.378 min Scan# 2764
Delta R.T. 0.000 min
Lab File: R218769.D
Acq: 5 Jan 2012 18:04

Tgt Ion:166 Resp: 138892

Ion	Ratio	Lower	Upper
166	100		
131	63.3	58.9	88.3
94	37.2	35.0	52.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2012Q	Method	: TSIM111221.M
Data File	: R218769.D	Operator	: AIRPIANO2:ry
Date Inj'd	: 1/5/2012 18:04	Instrument	: Air Piano 2
Sample	: WG511603-3,3,250,250	Quant Date	: 1/5/2012 6:27 pm

There are no manual integrations or false positives in this file.

Sample Utilized
For QC

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218779.D
Acq On : 6 Jan 2012 00:27
Operator : AIRPIANO2:MB
Sample : L1200006-01,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 06 09:13:53 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

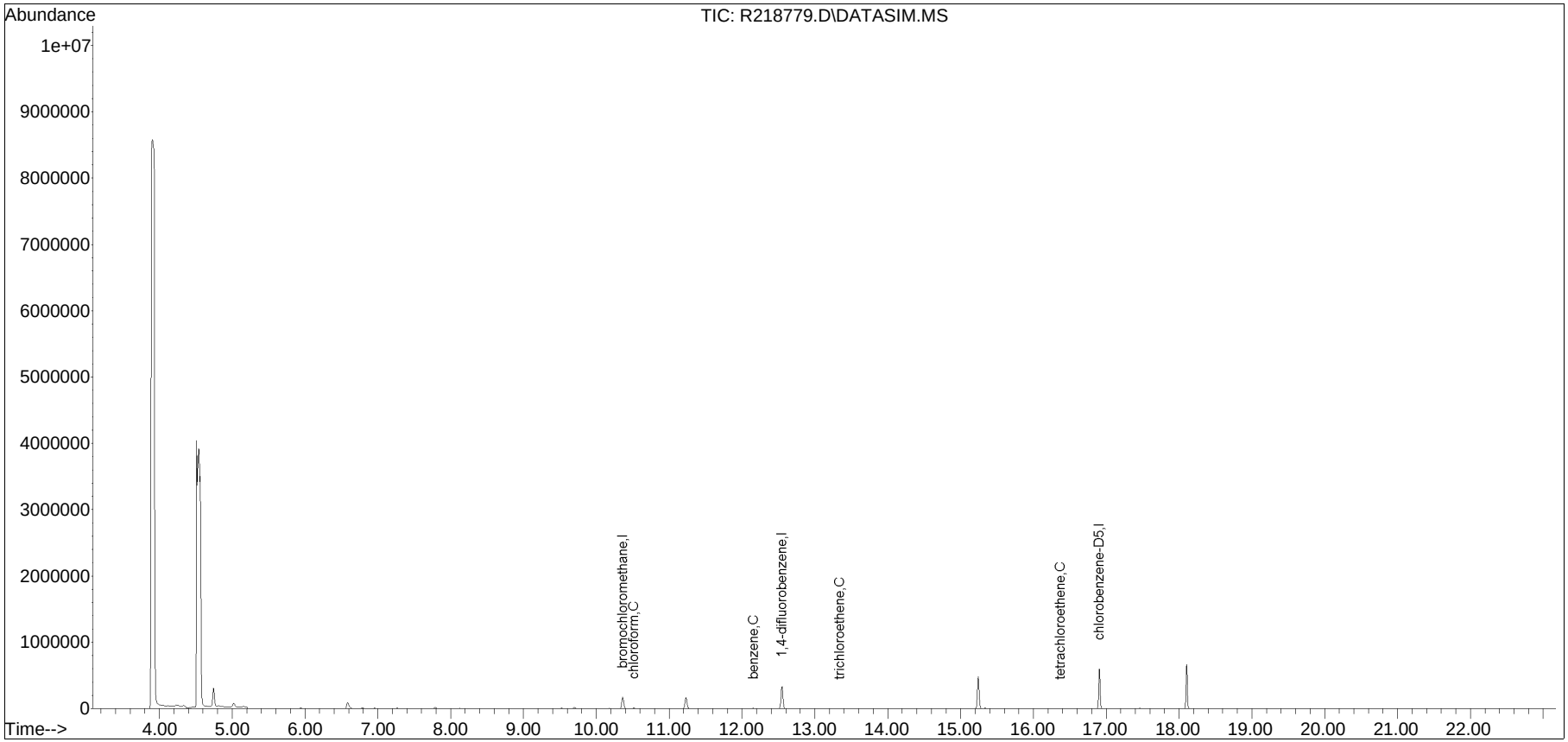
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.362	49	167793	10.000	ppbV	# 0.00
Standard Area = 150860			Recovery = 111.22%			
23) 1,4-difluorobenzene	12.551	114	518808	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 107.83%			
36) chlorobenzene-D5	16.904	54	92750	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 103.49%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	10.515	83	7090	0.249	ppbV	99
26) benzene	12.156	78	7546	0.213	ppbV	100
30) trichloroethene	13.344	130	302	0.015	ppbV	97
41) tetrachloroethene	16.374	166	2100	0.081	ppbV	89

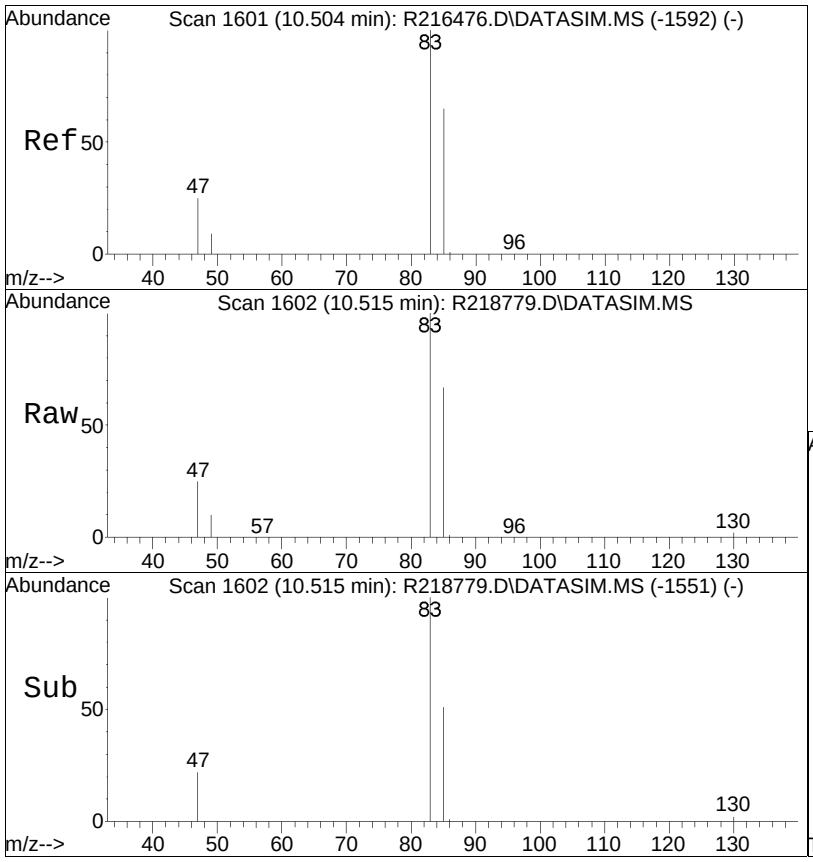
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218779.D
Acq On : 6 Jan 2012 00:27
Operator : AIRPIANO2:MB
Sample : L1200006-01,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 06 09:13:53 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

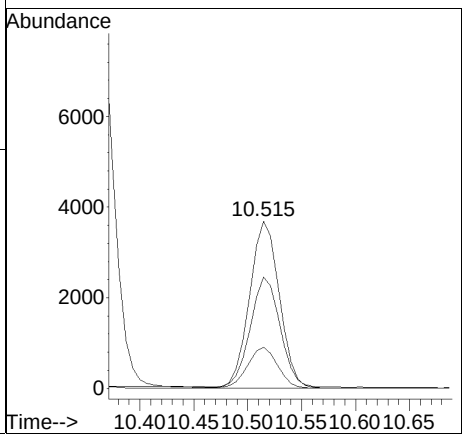


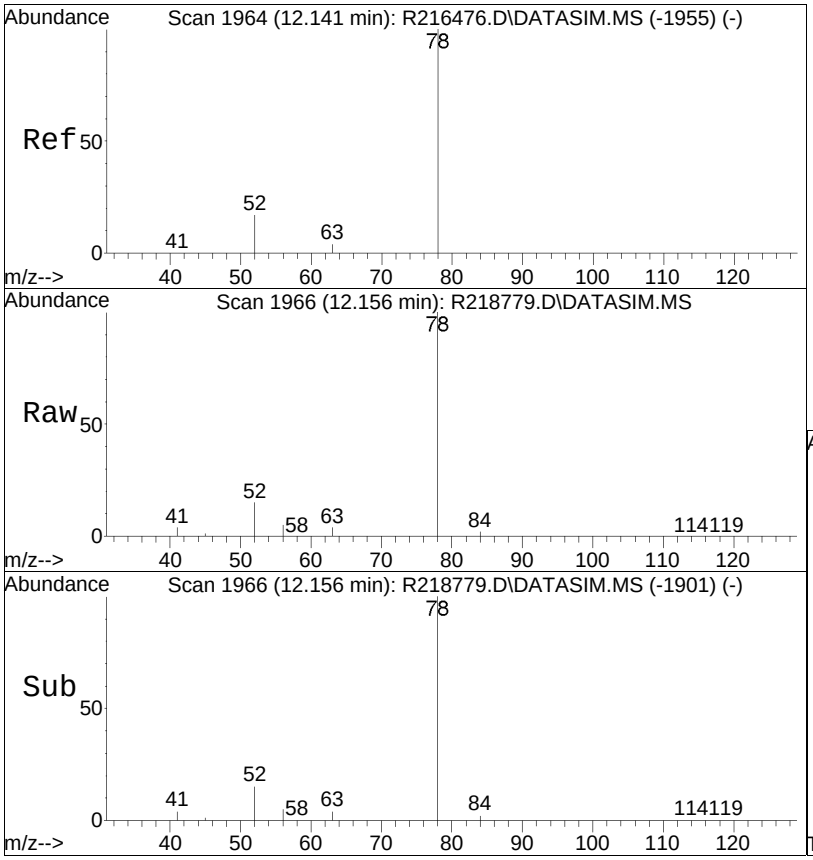


#21
chloroform
Concen: 0.25 ppbV
RT: 10.515 min Scan# 1602
Delta R.T. -0.006 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 83 Resp: 7090

Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.4	78.6
47	24.8	19.9	29.9

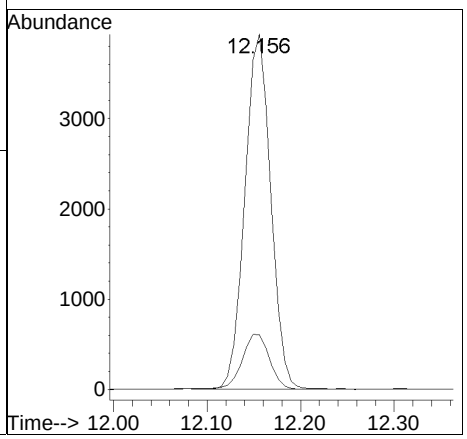


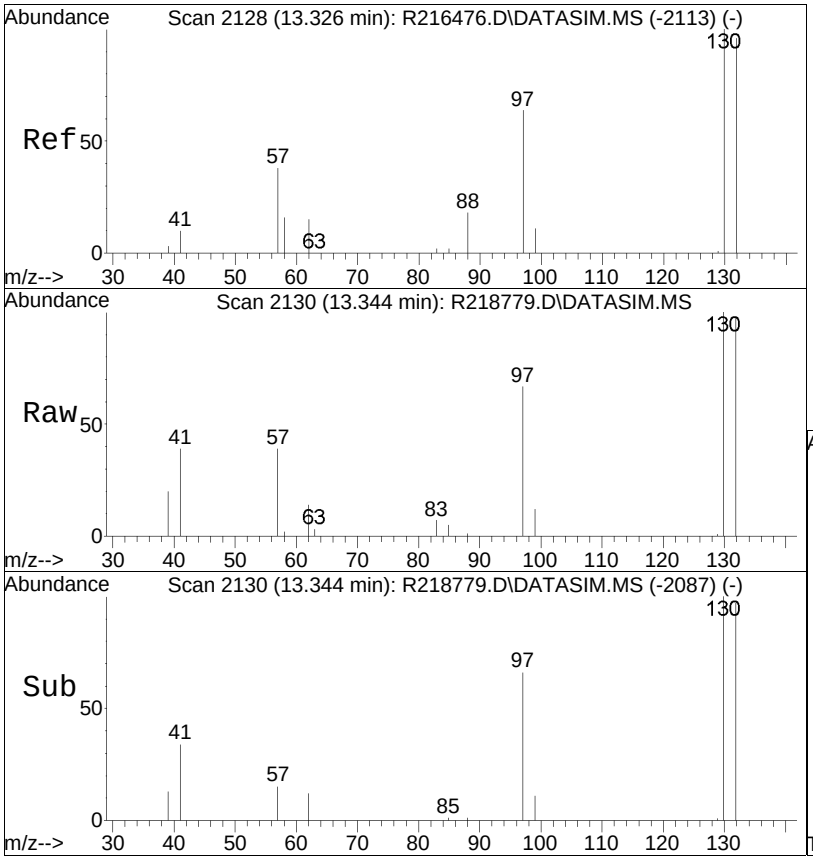


#26
benzene
Concen: 0.21 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 78 Resp: 7546

Ion	Ratio	Lower	Upper
78	100		
52	16.8	13.3	19.9

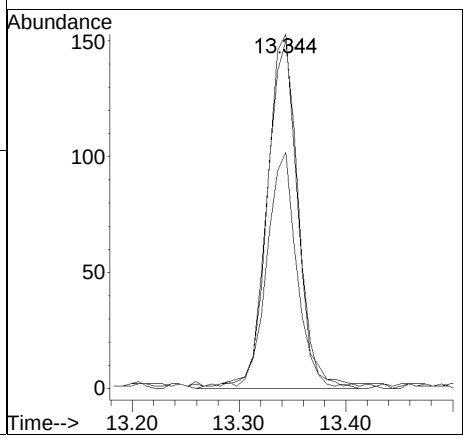


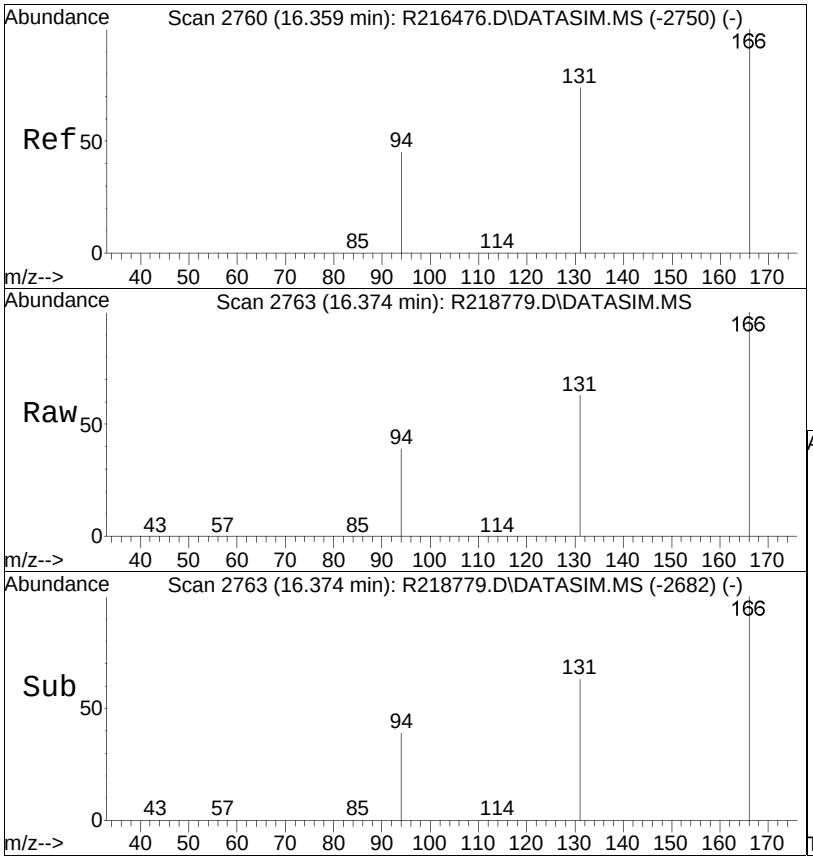


#30
trichloroethene
Concen: 0.01 ppbV
RT: 13.344 min Scan# 2130
Delta R.T. -0.000 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion:130 Resp: 302

Ion	Ratio	Lower	Upper
130	100		
132	96.7	77.4	116.2
97	67.5	50.0	75.0

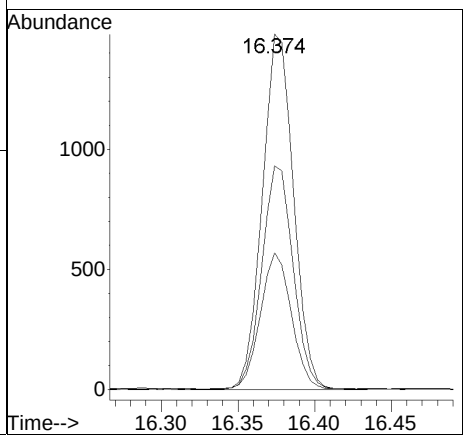




#41
tetrachloroethene
Concen: 0.08 ppbV
RT: 16.374 min Scan# 2763
Delta R.T. -0.004 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion:166 Resp: 2100

Ion	Ratio	Lower	Upper
166	100		
131	63.3	58.9	88.3
94	38.3	35.0	52.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2012Q	Method	: TSIM111221.M
Data File	: R218779.D	Operator	: AIRPIANO2:MB
Date Inj'd	: 1/6/2012 0:27	Instrument	: Air Piano 2
Sample	: L1200006-01,3,250,250	Quant Date	: 1/6/2012 9:15 am

There are no manual integrations or false positives in this file.

Duplicate Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218780.D
Acq On : 6 Jan 2012 1:03
Operator : AIRPIANO2:MB
Sample : WG511603-5,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 06 09:14:10 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

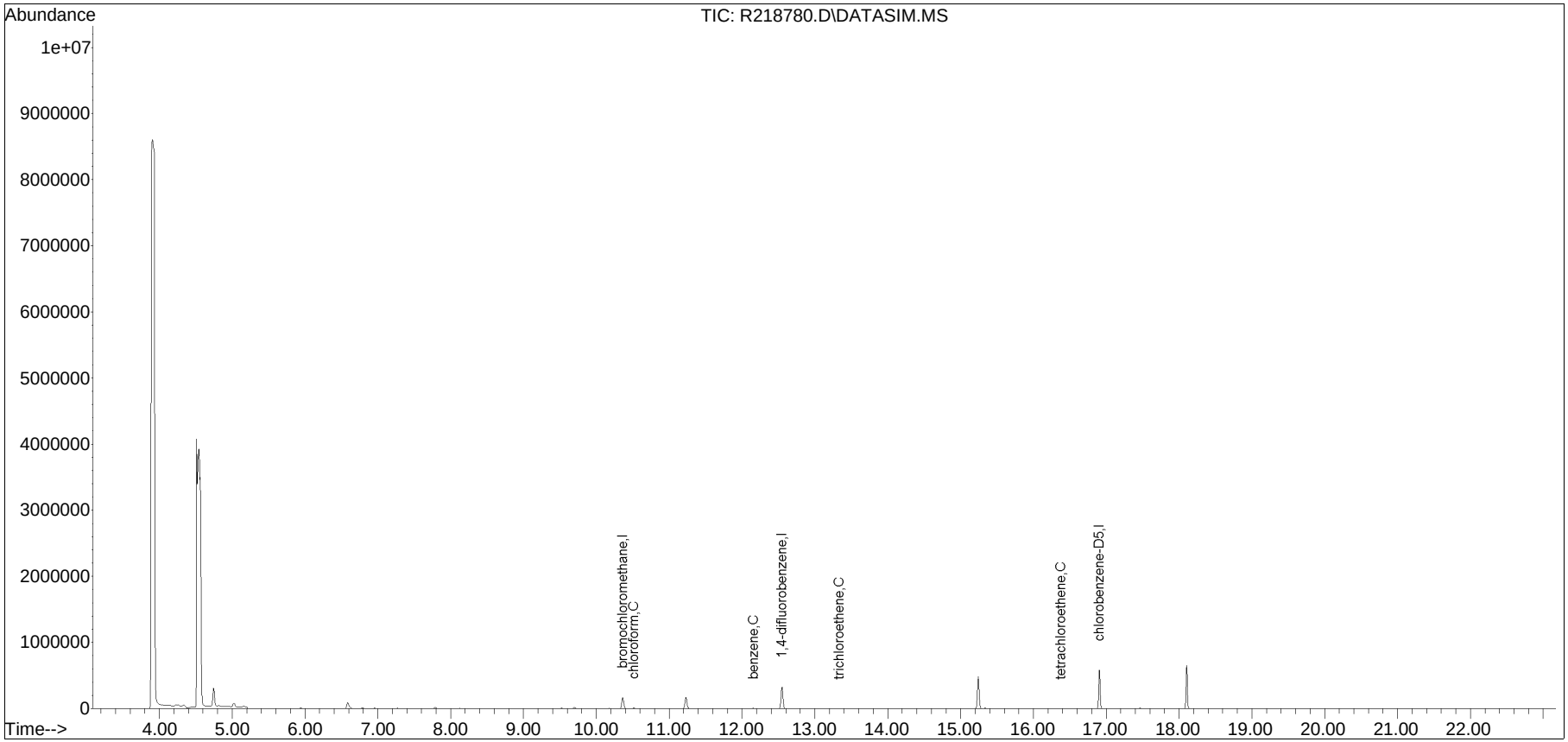
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	164731	10.000	ppbV	# 0.00
Standard Area = 150860			Recovery = 109.19%			
23) 1,4-difluorobenzene	12.550	114	507758	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 105.53%			
36) chlorobenzene-D5	16.904	54	90831	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 101.35%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	10.514	83	7126	0.255	ppbV	100
26) benzene	12.156	78	7594	0.219	ppbV	99
30) trichloroethene	13.336	130	307	0.015	ppbV	99
41) tetrachloroethene	16.378	166	2092	0.083	ppbV	89

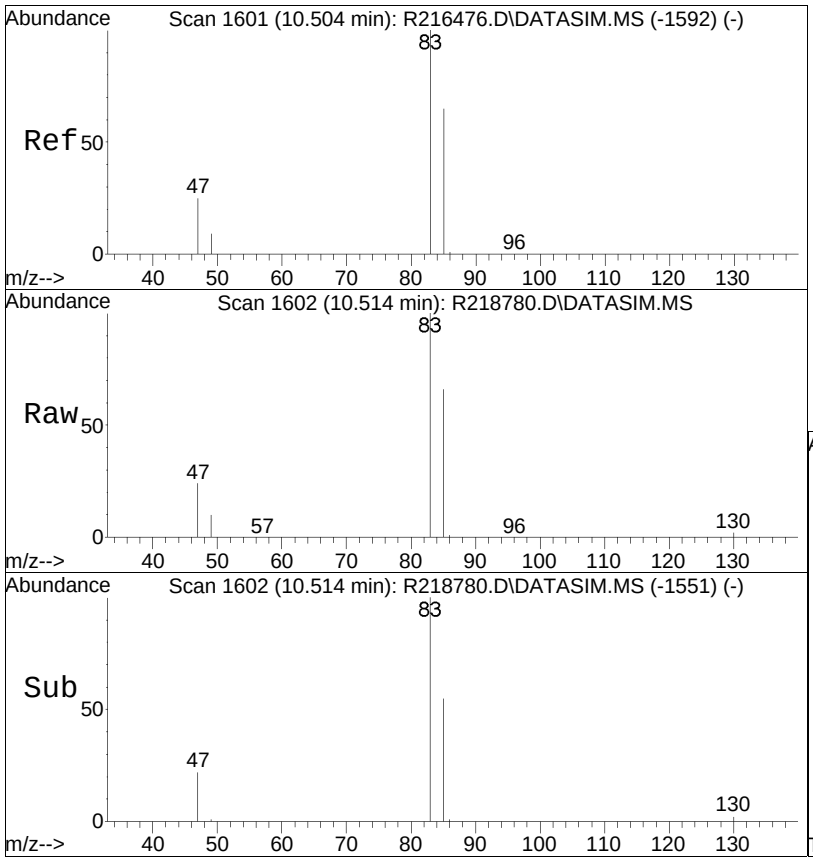
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218780.D
Acq On : 6 Jan 2012 1:03
Operator : AIRPIANO2:MB
Sample : WG511603-5,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 06 09:14:10 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

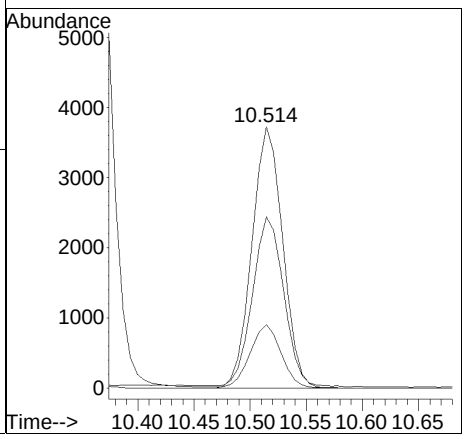


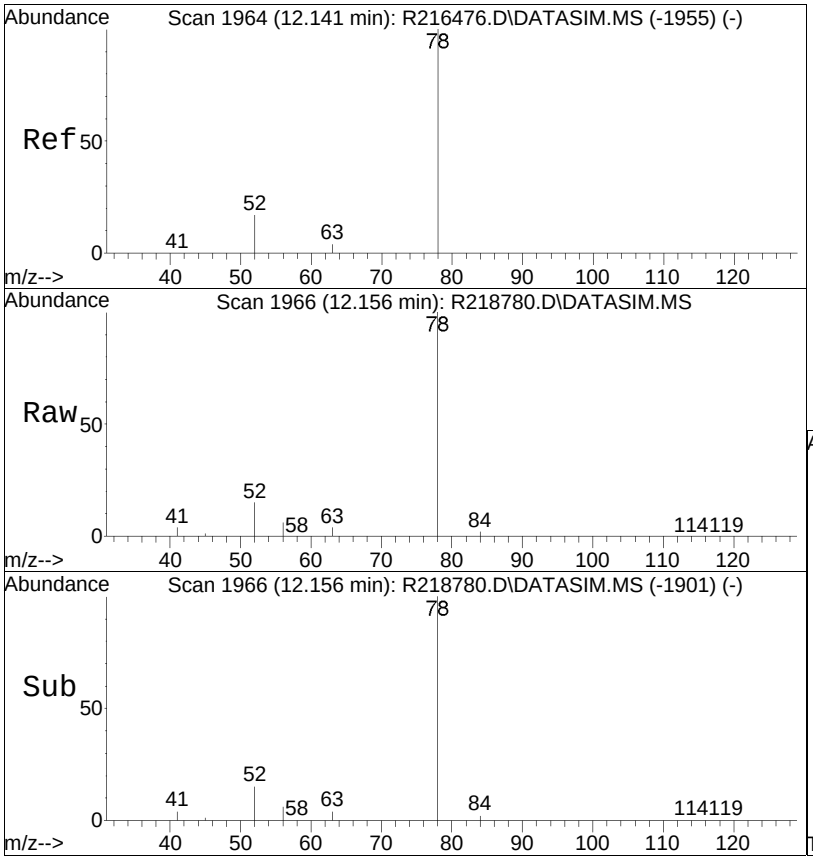


#21
chloroform
Concen: 0.26 ppbV
RT: 10.514 min Scan# 1602
Delta R.T. -0.007 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 83 Resp: 7126

Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.4	78.6
47	24.7	19.9	29.9

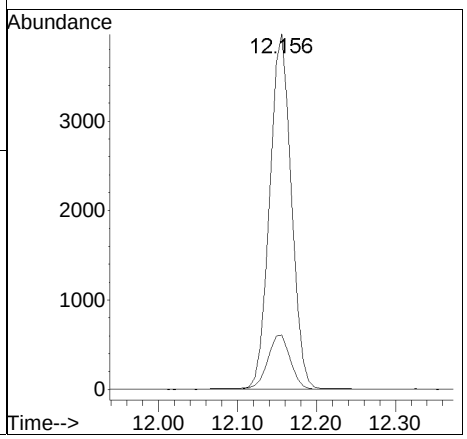


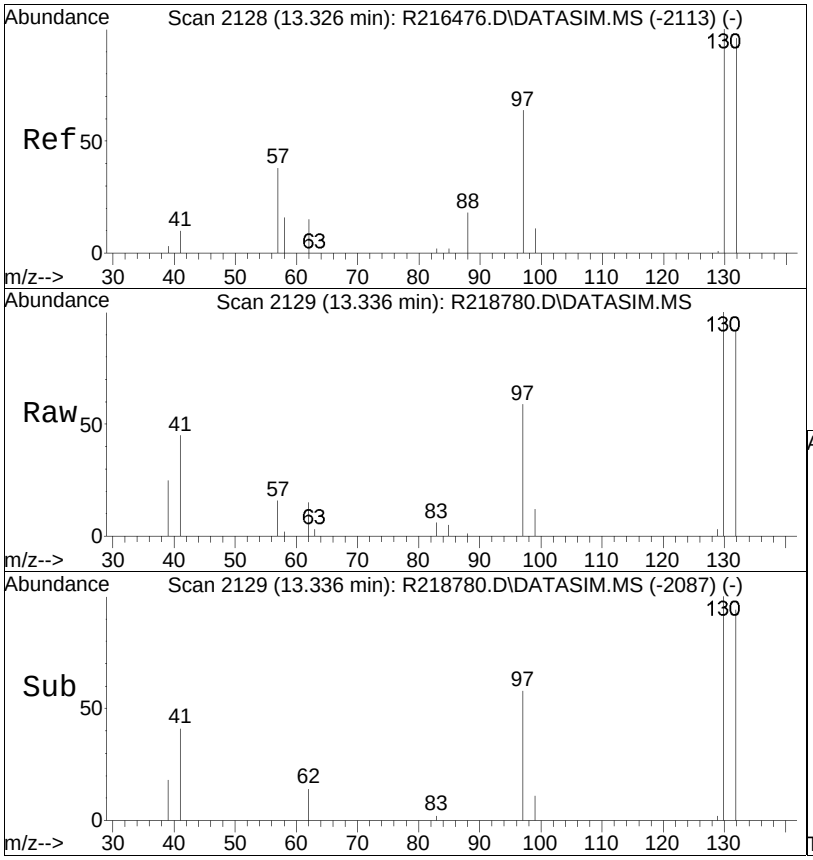


#26
benzene
Concen: 0.22 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 78 Resp: 7594

Ion	Ratio	Lower	Upper
78	100		
52	16.1	13.3	19.9

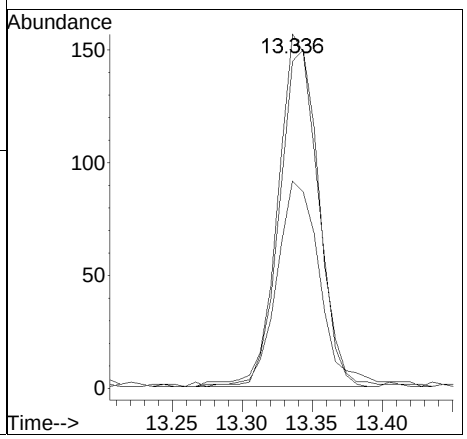


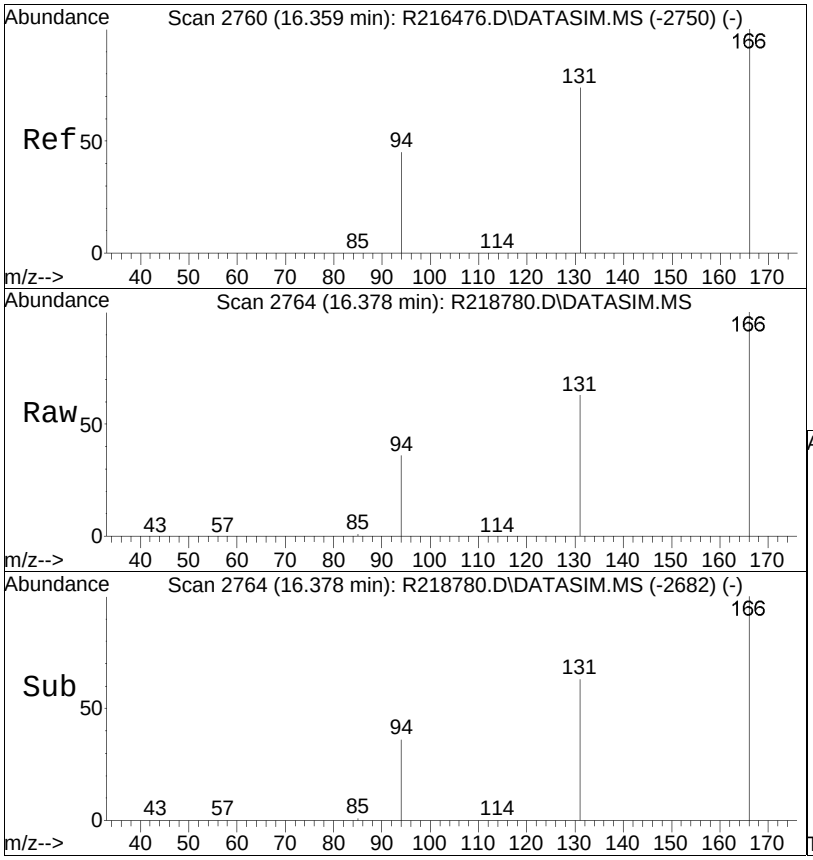


#30
trichloroethene
Concen: 0.02 ppbV
RT: 13.336 min Scan# 2129
Delta R.T. -0.008 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:130 Resp: 307

Ion	Ratio	Lower	Upper
130	100		
132	96.7	77.4	116.2
97	63.8	50.0	75.0

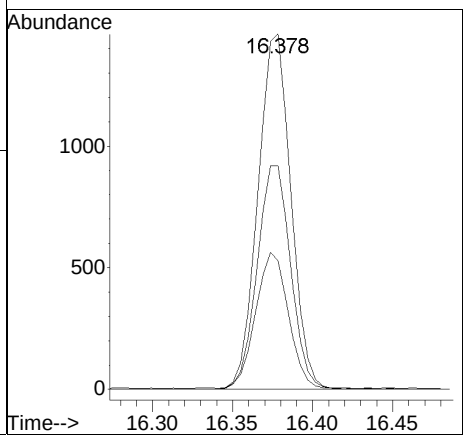




#41
tetrachloroethene
Concen: 0.08 ppbV
RT: 16.378 min Scan# 2764
Delta R.T. 0.000 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:166 Resp: 2092

Ion	Ratio	Lower	Upper
166	100		
131	64.0	58.9	88.3
94	37.9	35.0	52.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2012Q	Method	: TSIM111221.M
Data File	: R218780.D	Operator	: AIRPIANO2:MB
Date Inj'd	: 1/6/2012 1:03	Instrument	: Air Piano 2
Sample	: WG511603-5,3,250,250	Quant Date	: 1/6/2012 9:15 am

There are no manual integrations or false positives in this file.

Volatile Organics in Air
TO-15 Low Level

Initial Calibration

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221T\
Method File : TALL111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 09:10:18 2011
Response Via : Initial Calibration

Calibration Files
0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D 2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D
50 =R218566.D 100 =R218567.D

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	1.130	1.412	1.317	1.193	1.407	1.414	1.436	1.423	1.341	8.79
3)		propylene	0.536	0.622	0.537	0.510	0.512	0.563	0.566	0.550	0.549	6.50
4)		propane	0.686	0.694	0.639	0.559	0.570	0.612	0.616	0.587	0.620	8.08
5)		dichlorodifluoromethane	2.321	2.554	2.427	2.289	2.433	2.586	2.605	2.526	2.467	4.85
6)	C	chloromethane	0.746	0.833	0.756	0.688	0.773	0.805	0.782	0.750	0.767	5.65
7)		Freon-114	2.394	2.735	2.589	2.390	2.678	2.680	2.706	2.653	2.603	5.26
8)	C	methanol			0.677	0.620	0.738	0.660	0.506	0.535	0.623	14.16
9)	C	vinyl chloride	0.802	0.928	0.851	0.798	0.867	0.929	0.906	0.879	0.870	5.90
10)	C	1,3-butadiene	0.566	0.640	0.578	0.532	0.610	0.625	0.617	0.610	0.597	5.94
11)		butane	1.368	1.374	1.451	1.463	1.438	1.496	1.469	1.392	1.431	3.34
12)	C	acetaldehyde	0.294	0.233	0.227	0.192	0.223	0.232	0.180	0.182	0.220	16.94
13)	C	bromomethane	0.884	0.951	0.909	0.806	0.911	0.929	0.882	0.861	0.891	5.02
14)	C	chloroethane	0.372	0.418	0.392	0.352	0.408	0.405	0.387	0.378	0.389	5.53
15)		ethanol	0.517	0.490	0.501	0.480	0.543	0.518	0.379	0.430	0.482	11.10
16)		dichlorofluoromethane	2.123	2.332	2.271	1.973	2.370	2.287	2.073	2.095	2.191	6.52
17)	C	vinyl bromide	0.719	0.925	0.862	0.771	0.909	0.920	0.844	0.848	0.850	8.63
18)	C	acrolein	0.249	0.303	0.272	0.201	0.294	0.294	0.242	0.265	0.265	12.81
19)		acetone		1.344	1.181	0.924	1.144	1.089	0.710	0.840	1.033	21.21
20)	C	acetonitrile		0.923	1.012	0.561	0.756	0.680	0.478	0.547	0.708	28.39
21)		trichlorofluoromethane	2.500	2.697	2.579	2.348	2.673	2.633	2.432	2.372	2.529	5.39
22)		isopropyl alcohol		1.273	1.330	1.041	1.187	1.179	0.960	1.032	1.143	11.92
23)	C	acrylonitrile	0.579	0.502	0.526	0.448	0.574	0.573	0.431	0.485	0.515	11.31
24)		pentane	1.518	1.511	1.604	1.337	1.522	1.497	1.465	1.444	1.487	5.17
25)		ethyl ether	0.847	0.859	0.863	0.756	1.027	0.984	0.781	0.796	0.864	11.13
26)	C	1,1-dichloroethene	1.346	1.489	1.503	1.301	1.501	1.460	1.313	1.308	1.403	6.65
27)		tertiary butyl alcohol	1.564	1.500	1.560	1.418	1.591	1.612	1.339	1.455	1.505	6.30
28)	C	methylene chloride		1.297	1.104	0.973	1.079	1.051	0.905	0.912	1.046	12.98
29)	C	3-chloropropene	1.154	1.200	1.185	0.987	1.148	1.129	0.997	1.016	1.102	7.94
30)	C	carbon disulfide	2.179	2.553	2.364	2.366	2.557	2.664	2.439	2.449	2.447	6.10
31)		Freon 113	1.750	2.033	1.983	1.683	1.994	1.968	1.806	1.803	1.877	7.03

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221T\
Method File : TALL111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 09:10:18 2011
Response Via : Initial Calibration

Calibration Files
0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D 2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D
50 =R218566.D 100 =R218567.D

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
32)		trans-1,2-dichloroethene	1.576	1.800	1.760	1.596	1.811	1.795	1.571	1.640	1.694	6.35
33)	C	1,1-dichloroethane	1.473	1.562	1.567	1.406	1.612	1.644	1.414	1.451	1.516	6.06
34)	C	MTBE	1.747	1.750	1.873	1.647	2.058	2.051	1.423	1.675	1.778	11.99
35)	C	vinyl acetate	1.394	1.152	1.292	1.044	1.559	1.478	1.068	1.249	1.280	14.72
36)	C	2-butanone	1.479	1.333	1.411	1.172	1.495	1.413	0.895	1.089	1.286	16.62
37)		cis-1,2-dichloroethene	1.142	0.979	1.088	0.875	1.274	1.280	0.934	1.008	1.073	14.09
38)		Ethyl Acetate	0.095	0.125	0.152	0.135	0.195	0.184	0.131	0.175	0.149	22.74
39)	C	chloroform	1.347	1.677	1.511	1.400	1.621	1.686	1.551	1.691	1.560	8.52
40)		Tetrahydrofuran	0.777	0.651	0.645	0.534	0.706	0.673	0.472	0.688	0.643	15.11
41)		2,2-dichloropropane	1.263	1.433	1.395	1.295	1.496	1.567	1.449	1.594	1.437	8.22
42)	C	1,2-dichloroethane	0.969	1.022	1.022	0.941	1.103	1.119	0.999	1.075	1.031	6.14
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.386	0.369	0.374	0.314	0.363	0.369	0.355	0.426	0.369	8.46
45)		diisopropyl ether	0.177	0.140	0.169	0.144	0.169	0.172	0.131	0.184	0.161	12.23
46)		tert-butyl ethyl ether	0.648	0.543	0.644	0.551	0.670	0.667	0.468	0.632	0.603	12.19
47)	s	1,2-dichloroethane-D4	0.452	0.406	0.468	0.522	0.376	0.346	0.374	0.339	0.410	15.74
48)	C	1,1,1-trichloroethane	0.563	0.577	0.566	0.490	0.553	0.570	0.520	0.611	0.556	6.61
49)		1,1-dichloropropene	0.409	0.427	0.405	0.361	0.409	0.412	0.374	0.439	0.405	6.33
50)	C	benzene	0.796	0.728	0.724	0.626	0.711	0.735	0.660	0.776	0.720	7.74
51)		thiophene	0.450	0.424	0.397	0.377	0.421	0.443	0.395	0.474	0.423	7.66
52)	C	carbon tetrachloride	0.628	0.609	0.597	0.525	0.606	0.624	0.606	0.718	0.614	8.59
53)		cyclohexane	0.409	0.403	0.396	0.336	0.377	0.375	0.346	0.404	0.381	7.23
54)		tert-amyl methyl ether	0.572	0.525	0.580	0.497	0.602	0.612	0.440	0.599	0.553	10.94
55)		dibromomethane	0.381	0.340	0.348	0.311	0.356	0.359	0.327	0.395	0.352	7.78
56)	C	1,2-dichloropropane	0.263	0.254	0.250	0.214	0.247	0.269	0.243	0.299	0.255	9.50
57)		bromodichloromethane	0.565	0.540	0.540	0.488	0.551	0.590	0.548	0.672	0.562	9.42
58)	C	1,4-dioxane	0.124	0.150	0.133	0.119	0.146	0.146	0.113	0.150	0.135	11.02
59)	C	trichloroethene	0.368	0.382	0.381	0.325	0.367	0.382	0.369	0.440	0.377	8.33
60)	C	2,2,4-trimethylpentane	1.248	1.199	1.191	1.021	1.168	1.221	1.130	1.353	1.191	8.00
61)		heptane	0.502	0.452	0.441	0.380	0.425	0.444	0.401	0.476	0.440	8.86
62)		2,4,4-trimethyl-1-pentene	0.612	0.529	0.560	0.510	0.575	0.616	0.533	0.623	0.570	7.73

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221T\
Method File : TALL111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 09:10:18 2011
Response Via : Initial Calibration

Calibration Files
0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D 2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D
50 =R218566.D 100 =R218567.D

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
63)	C	cis-1,3-dichloropropene	0.339	0.321	0.354	0.301	0.368	0.393	0.373	0.464	0.364	13.71
64)	C	4-methyl-2-pentanone	0.519	0.436	0.476	0.409	0.469	0.482	0.369	0.469	0.454	10.38
65)		2,4,4-trimethyl-2-pentene	0.420	0.379	0.330	0.328	0.347	0.377	0.331	0.402	0.364	9.78
66)		trans-1,3-dichloropropene	0.339	0.302	0.335	0.282	0.358	0.378	0.352	0.463	0.351	15.55
67)	C	1,1,2-trichloroethane	0.322	0.256	0.279	0.241	0.280	0.292	0.265	0.335	0.284	11.31
68)	I	chlorobenzene-D5	----------ISTD----------									
69)	C	toluene	4.280	3.875	3.981	3.338	4.019	4.501	3.929	4.434	4.045	9.16
70)	s	toluene-D8	5.001	4.725	5.396	5.873	4.325	4.081	4.676	4.133	4.776	13.12
71)		2-methylthiophene	2.563	2.376	2.576	2.560	2.941	3.343	2.844	3.091	2.787	11.69
72)		1,3-dichloropropane	1.772	1.632	1.730	1.508	1.867	2.135	1.819	2.068	1.816	11.51
73)		2-hexanone	2.172	1.913	2.109	1.816	2.087	2.221	1.684	1.933	1.992	9.35
74)		3-methylthiophene	2.621	2.413	2.638	2.360	2.851	3.156	2.727	3.051	2.727	10.35
75)		dibromochloromethane	2.272	2.243	2.397	2.149	2.729	3.025	2.753	3.123	2.586	14.41
76)	C	1,2-dibromoethane	2.021	2.026	2.136	1.792	2.175	2.371	2.172	2.459	2.144	9.74
77)		butyl acetate	0.327	0.283	0.318	0.293	0.377	0.394	0.287	0.347	0.328	12.68
78)		octane	1.119	1.112	1.126	1.050	1.221	1.334	1.235	1.369	1.196	9.50
79)	C	tetrachloroethene	2.490	2.502	2.297	2.137	2.407	2.641	2.461	2.664	2.450	7.06
80)		1,1,1,2-tetrachloroethane	1.731	1.819	1.864	1.688	2.054	2.197	2.051	2.246	1.956	10.77
81)	C	chlorobenzene	3.118	3.092	3.099	2.668	3.217	3.570	3.346	3.793	3.238	10.51
82)	C	ethylbenzene	4.504	3.833	4.391	3.712	4.956	5.233	4.373	5.206	4.526	12.75
83)		2-ethylthiophene	2.710	2.559	2.840	2.489	3.187	3.527	2.908	3.431	2.957	13.14
84)	C	m+p-xylene	3.398	2.987	3.422	2.903	3.923	4.141	3.485	4.235	3.562	13.97
85)	C	bromoform	1.981	2.196	2.350	2.159	2.834	3.416	3.418	3.661	2.752	24.32
86)	C	styrene	2.333	2.103	2.512	2.092	2.862	3.104	2.659	3.200	2.608	16.33
87)	C	1,1,2,2-tetrachloroethane	2.181	2.167	2.465	2.192	2.948	3.129	2.605	3.019	2.588	15.47
88)	C	o-xylene	3.458	3.050	3.588	2.935	4.448	4.729	3.664	4.619	3.811	18.40
89)		1,2,3-trichloropropane	2.000	1.995	2.180	1.923	2.551	2.603	2.056	2.503	2.226	12.62
90)		nonane	2.581	2.365	2.611	2.340	2.955	3.320	2.886	3.078	2.767	12.63
91)	s	bromofluorobenzene	3.654	3.531	4.114	4.335	3.394	3.022	3.763	3.404	3.652	11.48
92)	C	isopropylbenzene	4.909	4.422	4.942	4.289	5.811	5.997	4.977	6.015	5.170	13.29
93)		bromobenzene	2.591	2.357	2.642	2.422	3.067	3.338	2.761	2.779	2.745	11.89

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221T\
Method File : TALL111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 09:10:18 2011
Response Via : Initial Calibration

Calibration Files
0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D 2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D
50 =R218566.D 100 =R218567.D

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
94)		2-chlorotoluene	1.343	1.293	1.329	1.241	1.650	1.763	1.607	1.874	1.513	15.91
95)		n-propylbenzene	1.157	1.081	1.218	1.151	1.620	1.701	1.504	1.872	1.413	21.20
96)		4-chlorotoluene	3.505	3.172	3.407	3.143	4.262	4.612	4.053	4.880	3.879	17.21
97)		4-ethyl toluene	3.930	3.745	4.298	3.941	5.593	5.748	4.847	6.095	4.775	19.49
98)		1,3,5-trimethylbenzene	3.403	3.105	3.515	3.247	4.584	4.638	3.931	4.988	3.926	18.37
99)		tert-butylbenzene	3.628	3.302	3.898	3.608	5.116	5.442	4.690	5.270	4.369	19.56
100)		1,2,4-trimethylbenzene	3.057	2.724	3.252	3.087	4.410	4.758	4.122	4.726	3.767	21.89
101)		decane	1.888	1.672	2.147	2.006	2.908	3.132	2.750	3.312	2.477	25.13
102)	C	Benzyl Chloride	1.966	1.831	2.278	2.158	3.293	3.700	3.395		2.660	29.08
103)		1,3-dichlorobenzene	2.567	2.399	2.714	2.391	3.316	3.720	3.452	4.172	3.091	21.63
104)	C	1,4-dichlorobenzene	2.552	2.419	2.700	2.337	3.301	3.665	3.520	4.163	3.082	21.83
105)		sec-butylbenzene	4.735	4.460	5.306	4.922	7.057	7.422	6.282	7.504	5.961	21.11
106)		1,2,3-trimethylbenzene	2.101	1.933	2.309	2.251	3.211	3.322	2.748	3.457	2.667	22.48
107)		p-isopropyltoluene	3.828	3.447	4.317	4.216	6.019	6.364	5.487	6.494	5.021	24.07
108)		1,2-dichlorobenzene	2.357	2.240	2.501	2.245	3.193	3.452	3.117	3.808	2.864	21.15
109)		n-butylbenzene	3.101	2.952	3.739	3.685	5.437	5.661	4.701	6.559	4.479	29.35
110)		indan	2.267	2.184	2.411	2.245	3.183	3.409	2.823	3.580	2.763	20.47
111)		indene	1.646	1.754	2.061	1.891	2.779	2.902	2.497	3.191	2.340	24.83
112)	C	1,2-dibromo-3-chloropropane	0.780	0.692	0.880	0.877	1.272	1.410	1.238	1.536	1.085	29.14
113)		undecane	1.507	1.493	1.847	1.775	2.741	2.903	2.623	3.344	2.279	31.07#
114)		1,2,4,5-tetramethylbenzene	0.881	0.919	1.136	1.305	1.833	1.704	1.468	1.875	1.390	28.38
115)		dodecane	1.196	1.297	1.542	1.498	1.979	2.487	2.461	3.036	1.937	34.33#
116)	C	1,2,4-trichlorobenzene	1.431	1.539	1.758	1.616	2.334	2.814	2.930		2.060	30.42#
117)		naphthalene	3.486	3.097	3.485	3.400	4.924	5.717	5.433	7.024	4.571	31.05#
118)		1,2,3-trichlorobenzene	1.405	1.526	1.689	1.723	2.407	2.834	2.817	3.591	2.249	34.91#
119)		benzothiophene	1.173	1.251	1.548	1.181	1.663	2.172	2.545	3.417	1.869	42.56#
120)	C	hexachlorobutadiene	1.653	1.637	1.967	1.863	2.690	3.082	3.157		2.293	29.02
121)		2-methylnaphthalene		0.641	0.699	0.881	1.101	0.813	1.284	1.821	1.034	39.98#
122)		1-methylnaphthalene		1.199	1.221	1.221	1.452	1.229	2.174	2.962	1.637	41.61#

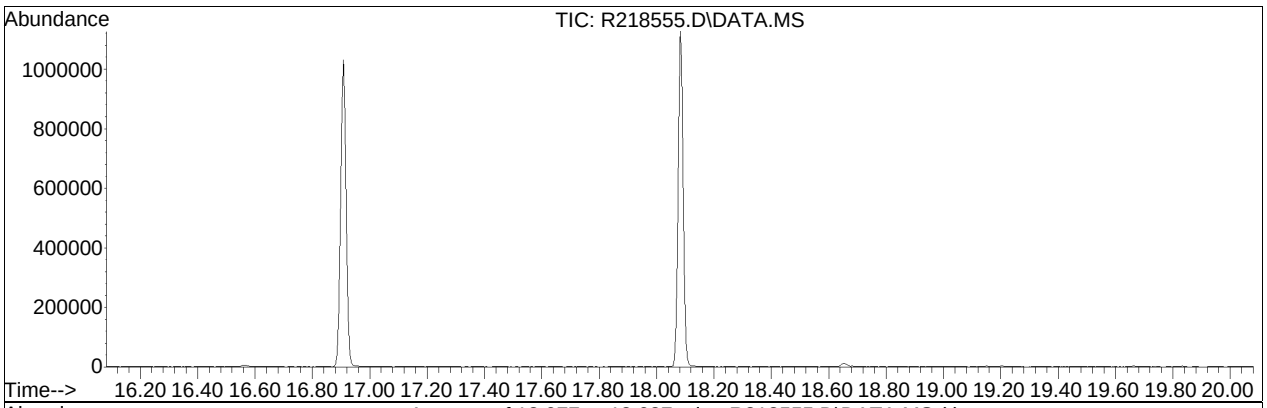
(#) = Out of Range

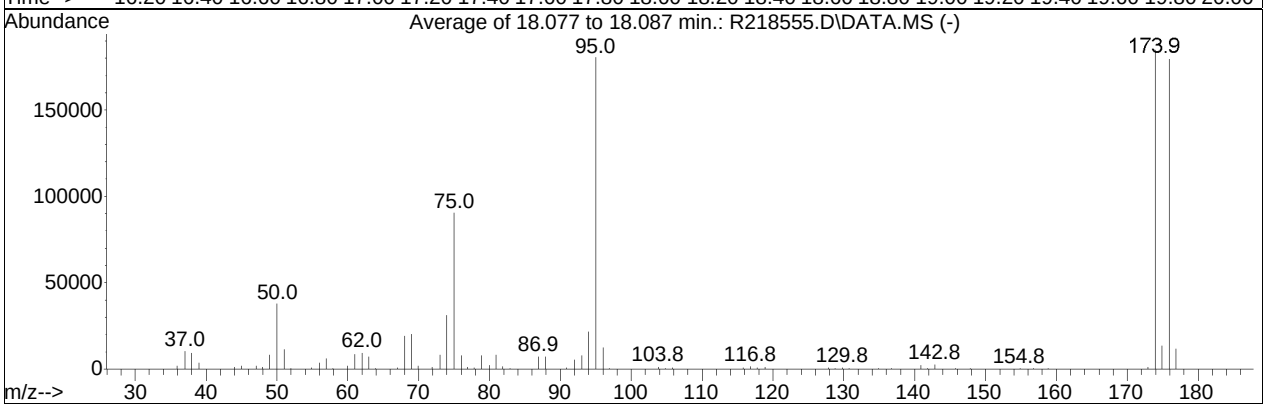
BFB

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218555.D
Acq On : 21 Dec 2011 4:06 pm
Operator : AIRPIANO2:RY
Sample : wg509913-1,3,250,250
Misc : wg509913
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 09:10:18 2011





AutoFind: Scans 3048, 3049, 3050; Background Corrected with Scan 3041

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.9	37712	PASS
75	95	30	66	50.2	90563	PASS
95	95	100	100	100.0	180416	PASS
96	95	5	9	7.0	12542	PASS
173	174	0.00	2	0.6	1202	PASS
174	95	50	120	102.5	184981	PASS
175	174	4	9	7.3	13457	PASS
176	174	93	101	97.0	179371	PASS
177	176	5	9	6.7	11971	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.2
Misc : wg509913
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 09:01:27 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	193934	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	482680	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	106350	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.234	65	218334	13.072	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 130.72%#			
70) toluene-D8	15.246	98	531822	12.252	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.52%			
91) bromofluorobenzene	18.082	95	388611	12.091	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.91%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	4384	0.160	ppbV #	90
3) propylene	4.248	41	2079M6	0.191	ppbV	
4) propane	4.280	29	2660	0.224	ppbV	94
5) dichlorodifluoromethane	4.345	85	9001	0.179	ppbV	94
6) chloromethane	4.576	50	2894	0.185	ppbV	98
7) Freon-114	4.726	85	9287	0.179	ppbV #	83
8) methanol	4.834	31	13840	1.081	ppbV #	66
9) vinyl chloride	4.893	62	3109	0.173	ppbV	90
10) 1,3-butadiene	5.092	54	2197	0.181	ppbV	86
11) butane	5.172	43	5305	0.183	ppbV #	91
12) acetaldehyde	4.764	29	5707	1.269	ppbV #	64
13) bromomethane	5.478	94	3429	0.190	ppbV	92
14) chloroethane	5.728	64	1443	0.184	ppbV #	81
15) ethanol	5.956	31	10026	0.999	ppbV #	84
16) dichlorofluoromethane	5.881	67	8236	0.186	ppbV #	85
17) vinyl bromide	6.216	106	2790	0.156	ppbV	86
18) acrolein	6.399	56	966	0.169	ppbV #	77
19) acetone	6.616	43	8541	0.405	ppbV #	89
20) acetonitrile	6.233	41	9542	0.723	ppbV	97
21) trichlorofluoromethane	6.785	101	9697	0.190	ppbV	86
22) isopropyl alcohol	6.981	45	8366	0.366	ppbV #	91
23) acrylonitrile	7.215	53	2244	0.202	ppbV #	84
24) pentane	7.266	43	5889	0.203	ppbV	99
25) ethyl ether	7.348	31	3285	0.172	ppbV	91
26) 1,1-dichloroethene	7.618	61	5222	0.184	ppbV #	85
27) tertiary butyl alcohol	7.803	59	6066	0.194	ppbV #	75
28) methylene chloride	7.791	49	5903	0.290	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.2
Misc : wg509913
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 09:01:27 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 3-chloropropene	7.935	41	4475	0.204 ppbV #	92
30) carbon disulfide	8.118	76	8451	0.164 ppbV #	1
31) Freon 113	8.133	101	6788	0.178 ppbV	88
32) trans-1,2-dichloroethene	8.949	61	6113	0.176 ppbV	92
33) 1,1-dichloroethane	9.190	63	5712	0.179 ppbV	95
34) MTBE	9.323	73	6777	0.170 ppbV #	68
35) vinyl acetate	9.399	43	5407	0.189 ppbV #	94
36) 2-butanone	9.709	43	5736	0.209 ppbV #	88
37) cis-1,2-dichloroethene	10.175	61	4430	0.178 ppbV #	86
38) Ethyl Acetate	10.481	61	367	0.103 ppbV #	34
39) chloroform	10.520	83	5223	0.160 ppbV	93
40) Tetrahydrofuran	11.025	42	3014M3	0.231 ppbV	
41) 2,2-dichloropropane	10.539	77	4899	0.161 ppbV #	91
42) 1,2-dichloroethane	11.355	62	3757	0.173 ppbV #	88
44) hexane	10.424	57	3726	0.209 ppbV #	81
45) diisopropyl ether	10.462	87	1705	0.205 ppbV #	1
46) tert-butyl ethyl ether	11.080	59	6256	0.194 ppbV	90
48) 1,1,1-trichloroethane	11.640	97	5438	0.198 ppbV	91
49) 1,1-dichloropropene	11.998	75	3953	0.199 ppbV	97
50) benzene	12.155	78	7687	0.217 ppbV	95
51) thiophene	12.304	84	4343	0.203 ppbV #	85
52) carbon tetrachloride	12.325	117	6061	0.201 ppbV	83
53) cyclohexane	12.467	56	3948	0.218 ppbV	93
54) tert-amyl methyl ether	12.859	73	5523	0.187 ppbV #	90
55) dibromomethane	13.051	93	3682	0.213 ppbV	91
56) 1,2-dichloropropane	13.081	63	2535	0.195 ppbV	96
57) bromodichloromethane	13.304	83	5451	0.191 ppbV #	85
58) 1,4-dioxane	13.404	88	1193	0.169 ppbV	91
59) trichloroethene	13.342	130	3550	0.193 ppbV	91
60) 2,2,4-trimethylpentane	13.373	57	12049	0.204 ppbV #	87
61) heptane	13.664	43	4845	0.226 ppbV	97
62) 2,4,4-trimethyl-1-pentene	14.049	57	5907	0.199 ppbV	90
63) cis-1,3-dichloropropene	14.305	75	3276	0.173 ppbV	94
64) 4-methyl-2-pentanone	14.389	43	5009	0.215 ppbV #	96
65) 2,4,4-trimethyl-2-pentene	14.515	55	4058	0.223 ppbV #	72
66) trans-1,3-dichloropropene	14.884	75	3268	0.179 ppbV #	75
67) 1,1,2-trichloroethane	15.068	97	3109	0.221 ppbV	96
69) toluene	15.341	91	9104	0.190 ppbV	96
71) 2-methylthiophene	15.406	97	5452	0.153 ppbV #	85
72) 1,3-dichloropropane	15.365	76	3768	0.166 ppbV #	81
73) 2-hexanone	15.619	43	4619	0.196 ppbV #	82

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.2
Misc : wg509913
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 09:01:27 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.575	97	5574	0.166	ppbV		95
75)	dibromochloromethane	15.752	129	4833	0.150	ppbV		98
76)	1,2-dibromoethane	15.976	107	4299	0.171	ppbV		84
77)	butyl acetate	16.162	73	695	0.166	ppbV		70
78)	octane	16.232	85	2380	0.168	ppbV	#	79
79)	tetrachloroethene	16.377	166	5296	0.189	ppbV	#	77
80)	1,1,1,2-tetrachloroethane	16.930	131	3681	0.158	ppbV		97
81)	chlorobenzene	16.947	112	6633	0.175	ppbV		94
82)	ethylbenzene	17.238	91	9580	0.172	ppbV		97
83)	2-ethylthiophene	17.273	97	5764	0.154	ppbV		99
84)	m+p-xylene	17.380	91	14457	0.328	ppbV		96
85)	bromoform	17.456	173	4213	0.116	ppbV		93
86)	styrene	17.654	104	4962	0.150	ppbV		95
87)	1,1,2,2-tetrachloroethane	17.736	83	4640	0.139	ppbV		98
88)	o-xylene	17.741	91	7356	0.146	ppbV		93
89)	1,2,3-trichloropropane	17.838	75	4255	0.154	ppbV	#	86
90)	nonane	17.873	43	5489	0.155	ppbV	#	96
92)	isopropylbenzene	18.179	105	10441	0.164	ppbV		91
93)	bromobenzene	18.256	77	5512	0.155	ppbV		96
94)	2-chlorotoluene	18.538	126	2857	0.152	ppbV		88
95)	n-propylbenzene	18.552	120	2460	0.136	ppbV		84
96)	4-chlorotoluene	18.588	91	7455	0.152	ppbV		97
97)	4-ethyl toluene	18.659	105	8360	0.137	ppbV		98
98)	1,3,5-trimethylbenzene	18.713	105	7239	0.147	ppbV		90
99)	tert-butylbenzene	19.024	119	7716	0.133	ppbV		94
100)	1,2,4-trimethylbenzene	19.027	105	6503	0.129	ppbV		96
101)	decane	19.065	57	4016	0.121	ppbV	#	97
102)	Benzyl Chloride	19.145	91	4182	0.106	ppbV		98
103)	1,3-dichlorobenzene	19.165	146	5461	0.138	ppbV		93
104)	1,4-dichlorobenzene	19.209	146	5429M3	0.139	ppbV		
105)	sec-butylbenzene	19.232	105	10072	0.128	ppbV		96
106)	1,2,3-trimethylbenzene	19.360	105	4468	0.126	ppbV	#	84
107)	p-isopropyltoluene	19.344	119	8143	0.120	ppbV		98
108)	1,2-dichlorobenzene	19.481	146	5014	0.137	ppbV		96
109)	n-butylbenzene	19.673	91	6595	0.110	ppbV	#	89
110)	indan	19.523	117	4821	0.133	ppbV	#	88
111)	indene	19.600	115	3500	0.113	ppbV	#	88
112)	1,2-dibromo-3-chloropr...	19.838	75	1658	0.111	ppbV	#	79
113)	undecane	20.043	57	3205	0.104	ppbV		95
114)	1,2,4,5-tetramethylben...	20.292	119	1873	0.103	ppbV	#	92
115)	dodecane	20.951	57	2543	0.096	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.2
Misc : wg509913
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 09:01:27 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.943	180	3043	0.102 ppbV #	93
117) naphthalene	21.063	128	7414	0.122 ppbV #	95
118) 1,2,3-trichlorobenzene	21.320	180	2989	0.099 ppbV	88
119) benzothiophene	21.131	134	2495	0.108 ppbV #	76
120) hexachlorobutadiene	21.380	225	3516	0.107 ppbV #	92
121) 2-methylnaphthalene	22.222	142	1079	0.125 ppbV #	87
122) 1-methylnaphthalene	22.435	142	2121	0.162 ppbV #	92

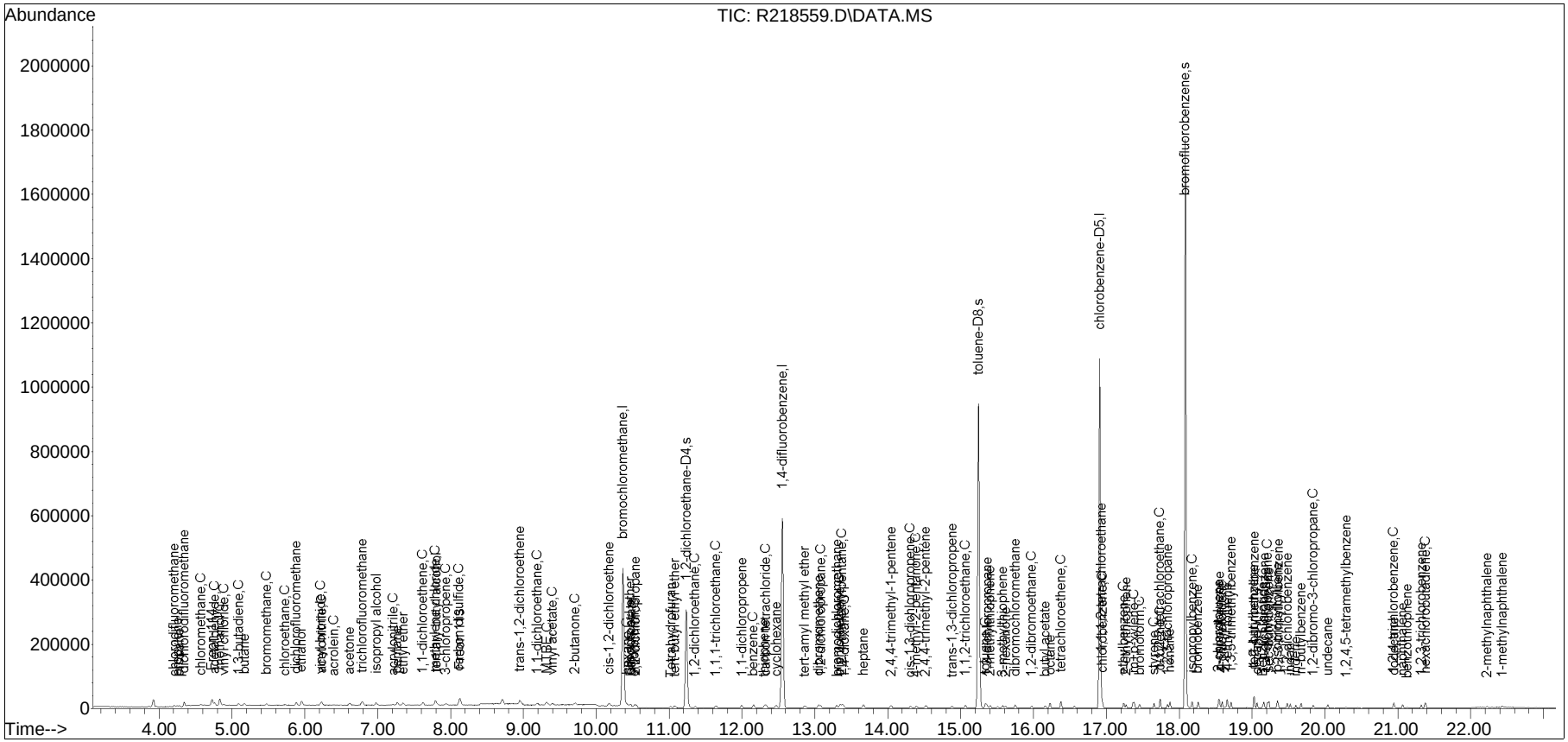
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.2
Misc : wg509913
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 09:01:27 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

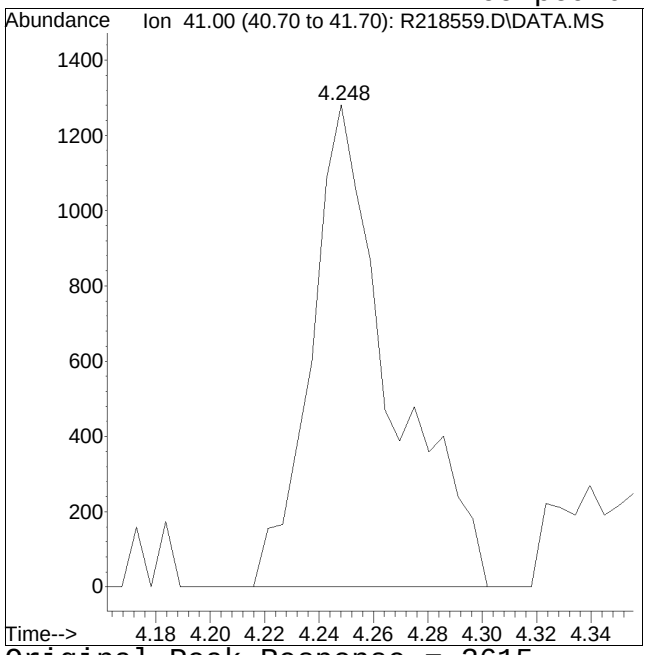


Manual Integration/Negative Proof Report

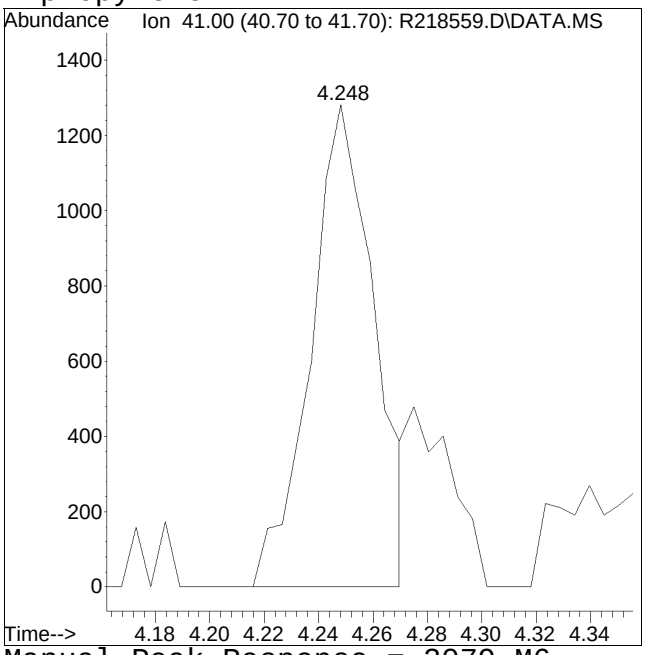
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218559.D
Date Inj'd : 12/21/2011 6:32 pm
Sample : ITO15-LLSTD0.2

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #3: propylene



Original Peak Response = 2615



Manual Peak Response = 2079 M6

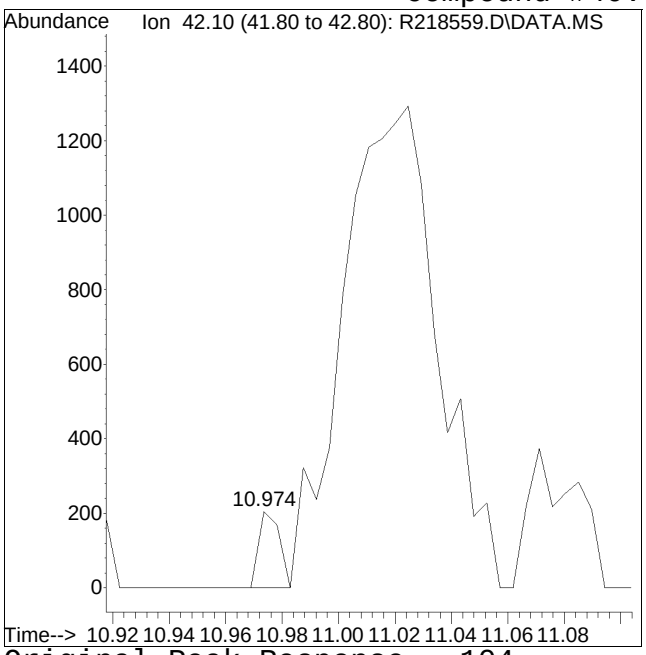
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

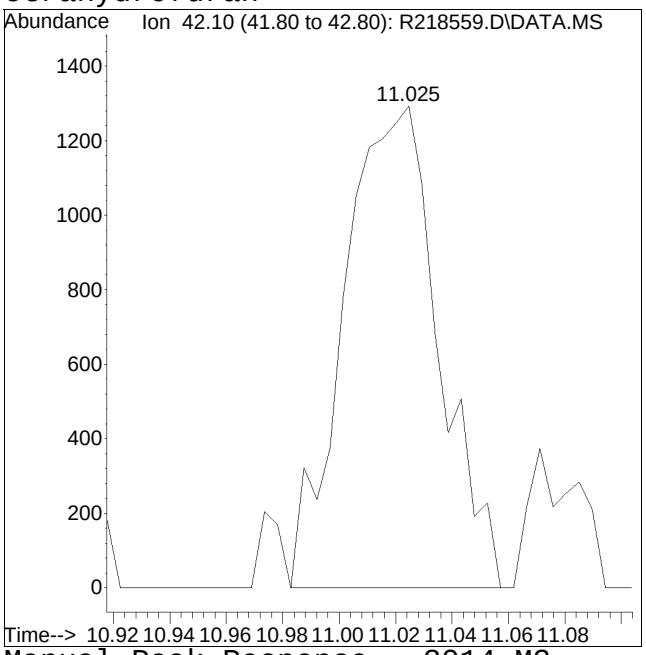
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218559.D
Date Inj'd : 12/21/2011 6:32 pm
Sample : ITO15-LLSTD0.2

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #40: Tetrahydrofuran





Original Peak Response = 104 Manual Peak Response = 3014 M3

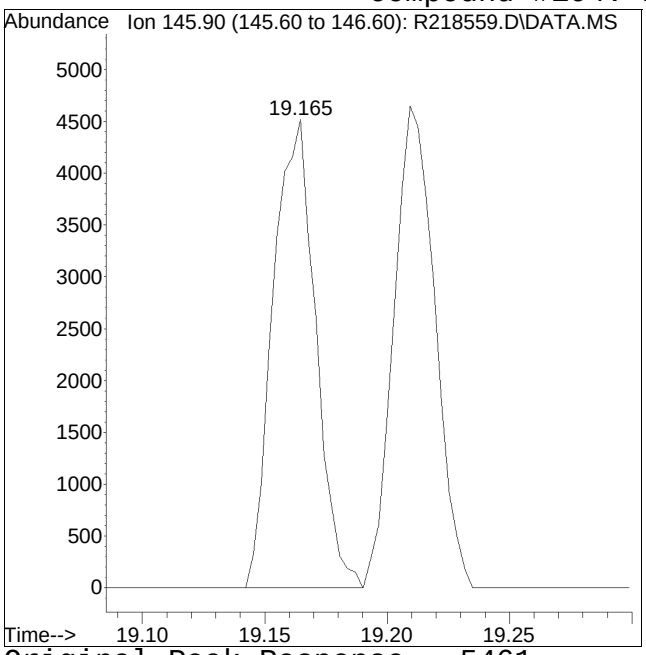
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

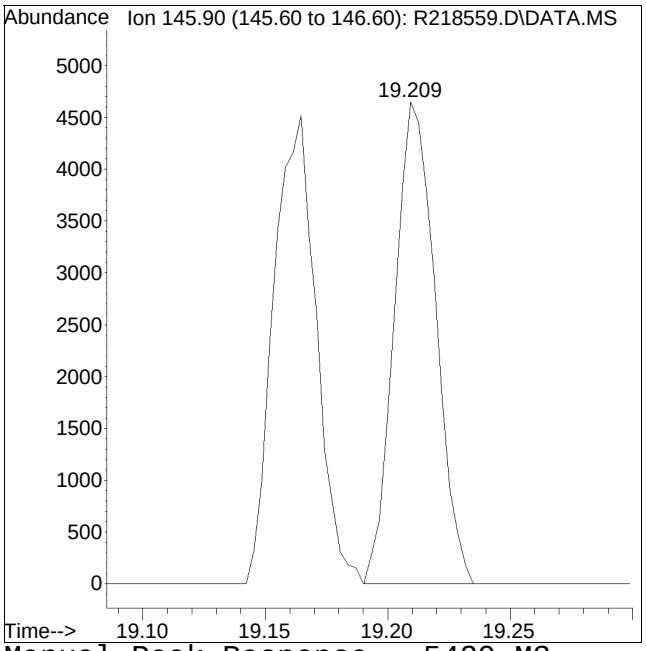
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218559.D
Date Inj'd : 12/21/2011 6:32 pm
Sample : ITO15-LLSTD0.2

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #104: 1,4-dichlorobenzene





Original Peak Response = 5461 Manual Peak Response = 5429 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.5
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:59:59 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	167668	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	479114	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	100926	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.234	65	194733	11.746	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.46%			
70) toluene-D8	15.246	98	476899	11.577	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.77%			
91) bromofluorobenzene	18.082	95	356335	11.683	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.83%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.211	51	11835	0.499	ppbV	95
3) propylene	4.248	41	5212M6	0.553	ppbV	
4) propane	4.275	29	5822	0.567	ppbV	96
5) dichlorodifluoromethane	4.345	85	21408	0.494	ppbV	97
6) chloromethane	4.571	50	6982	0.517	ppbV #	87
7) Freon-114	4.726	85	22927	0.510	ppbV	93
8) methanol	4.834	31	29321	2.649	ppbV #	86
9) vinyl chloride	4.893	62	7776	0.499	ppbV	97
10) 1,3-butadiene	5.097	54	5362	0.512	ppbV	88
11) butane	5.167	43	11521M4	0.459	ppbV	
12) acetaldehyde	4.764	29	9753	2.508	ppbV #	75
13) bromomethane	5.478	94	7969	0.511	ppbV	98
14) chloroethane	5.733	64	3505	0.516	ppbV #	86
15) ethanol	5.956	31	20528	2.365	ppbV	98
16) dichlorofluoromethane	5.886	67	19553	0.510	ppbV #	94
17) vinyl bromide	6.216	106	7755	0.503	ppbV	91
18) acrolein	6.415	56	2542	0.515	ppbV #	86
19) acetone	6.612	43	11270M3	0.617	ppbV	
20) acetonitrile	6.227	41	7742	0.679	ppbV	96
21) trichlorofluoromethane	6.794	101	22608	0.512	ppbV	90
22) isopropyl alcohol	6.977	45	10674	0.540	ppbV	98
23) acrylonitrile	7.205	53	4205	0.438	ppbV	86
24) pentane	7.271	43	12667	0.505	ppbV #	95
25) ethyl ether	7.348	31	7199	0.436	ppbV	95
26) 1,1-dichloroethene	7.624	61	12481	0.510	ppbV	96
27) tertiary butyl alcohol	7.797	59	12576	0.465	ppbV #	84
28) methylene chloride	7.791	49	10870	0.617	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.5
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:59:59 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	3-chloropropene	7.940	41	10059	0.531	ppbV		98
30)	carbon disulfide	8.123	76	21404	0.479	ppbV	#	11
31)	Freon 113	8.128	101	17041	0.517	ppbV		98
32)	trans-1,2-dichloroethene	8.957	61	15089	0.501	ppbV		92
33)	1,1-dichloroethane	9.190	63	13099	0.475	ppbV		100
34)	MTBE	9.312	73	14672	0.427	ppbV	#	95
35)	vinyl acetate	9.399	43	9661	0.390	ppbV	#	84
36)	2-butanone	9.702	43	11171	0.472	ppbV	#	95
37)	cis-1,2-dichloroethene	10.175	61	8207	0.382	ppbV		96
38)	Ethyl Acetate	10.475	61	1046	0.339	ppbV		84
39)	chloroform	10.526	83	14056	0.497	ppbV		89
40)	Tetrahydrofuran	11.006	42	5458	0.483	ppbV	#	86
41)	2,2-dichloropropane	10.552	77	12016	0.457	ppbV		94
42)	1,2-dichloroethane	11.355	62	8569	0.457	ppbV		94
44)	hexane	10.424	57	8833	0.500	ppbV	#	66
45)	diisopropyl ether	10.462	87	3343	0.405	ppbV	#	62
46)	tert-butyl ethyl ether	11.071	59	13003	0.407	ppbV	#	95
48)	1,1,1-trichloroethane	11.648	97	13822	0.506	ppbV		98
49)	1,1-dichloropropene	11.998	75	10231	0.519	ppbV	#	83
50)	benzene	12.161	78	17433	0.495	ppbV		99
51)	thiophene	12.311	84	10153	0.479	ppbV		97
52)	carbon tetrachloride	12.325	117	14583	0.487	ppbV		91
53)	cyclohexane	12.474	56	9647	0.537	ppbV		90
54)	tert-amyl methyl ether	12.851	73	12576	0.429	ppbV		94
55)	dibromomethane	13.051	93	8134	0.473	ppbV		83
56)	1,2-dichloropropane	13.082	63	6074	0.471	ppbV	#	91
57)	bromodichloromethane	13.296	83	12933	0.457	ppbV		99
58)	1,4-dioxane	13.388	88	3586	0.513	ppbV		85
59)	trichloroethene	13.342	130	9158	0.501	ppbV		89
60)	2,2,4-trimethylpentane	13.381	57	28720	0.491	ppbV		97
61)	heptane	13.669	43	10828	0.509	ppbV		95
62)	2,4,4-trimethyl-1-pentene	14.045	57	12665	0.429	ppbV		97
63)	cis-1,3-dichloropropene	14.310	75	7701	0.409	ppbV	#	67
64)	4-methyl-2-pentanone	14.384	43	10434	0.452	ppbV		98
65)	2,4,4-trimethyl-2-pentene	14.527	55	9070	0.502	ppbV		96
66)	trans-1,3-dichloropropene	14.878	75	7231	0.399	ppbV	#	79
67)	1,1,2-trichloroethane	15.068	97	6140	0.439	ppbV	#	81
69)	toluene	15.341	91	19554	0.430	ppbV		96
71)	2-methylthiophene	15.406	97	11988	0.355	ppbV	#	91
72)	1,3-dichloropropane	15.359	76	8236	0.382	ppbV	#	89
73)	2-hexanone	15.609	43	9655	0.431	ppbV		90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.5
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:59:59 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.581	97	12175	0.382	ppbV	#	92
75)	dibromochloromethane	15.746	129	11321	0.371	ppbV		94
76)	1,2-dibromoethane	15.979	107	10222	0.427	ppbV		94
77)	butyl acetate	16.153	73	1427	0.359	ppbV		84
78)	octane	16.228	85	5611	0.417	ppbV		95
79)	tetrachloroethene	16.377	166	12626	0.474	ppbV		97
80)	1,1,1,2-tetrachloroethane	16.925	131	9179	0.414	ppbV		93
81)	chlorobenzene	16.941	112	15603	0.433	ppbV		97
82)	ethylbenzene	17.238	91	19342	0.366	ppbV		92
83)	2-ethylthiophene	17.273	97	12916	0.363	ppbV		97
84)	m+p-xylene	17.365	91	30148	0.721	ppbV		98
85)	bromoform	17.451	173	11083	0.321	ppbV		89
86)	styrene	17.655	104	10614	0.339	ppbV		94
87)	1,1,2,2-tetrachloroethane	17.736	83	10937	0.346	ppbV		86
88)	o-xylene	17.741	91	15392	0.323	ppbV		93
89)	1,2,3-trichloropropane	17.838	75	10065	0.383	ppbV	#	87
90)	nonane	17.873	43	11936	0.356	ppbV	#	95
92)	isopropylbenzene	18.174	105	22313	0.369	ppbV		95
93)	bromobenzene	18.261	77	11896	0.353	ppbV	#	81
94)	2-chlorotoluene	18.542	126	6523	0.367	ppbV		98
95)	n-propylbenzene	18.552	120	5453	0.318	ppbV		91
96)	4-chlorotoluene	18.589	91	16009	0.344	ppbV		98
97)	4-ethyl toluene	18.656	105	18899	0.326	ppbV		97
98)	1,3,5-trimethylbenzene	18.706	105	15669	0.335	ppbV		98
99)	tert-butylbenzene	19.024	119	16662	0.303	ppbV		97
100)	1,2,4-trimethylbenzene	19.021	105	13748	0.286	ppbV		93
101)	decane	19.066	57	8439	0.267	ppbV	#	98
102)	Benzyl Chloride	19.142	91	9239	0.247	ppbV		99
103)	1,3-dichlorobenzene	19.158	146	12108M3	0.323	ppbV		
104)	1,4-dichlorobenzene	19.206	146	12209	0.330	ppbV		93
105)	sec-butylbenzene	19.225	105	22505	0.300	ppbV		97
106)	1,2,3-trimethylbenzene	19.353	105	9757	0.291	ppbV		92
107)	p-isopropyltoluene	19.344	119	17393	0.271	ppbV		99
108)	1,2-dichlorobenzene	19.478	146	11303	0.324	ppbV		91
109)	n-butylbenzene	19.670	91	14896	0.261	ppbV		97
110)	indan	19.523	117	11023	0.320	ppbV		97
111)	indene	19.597	115	8852	0.302	ppbV		98
112)	1,2-dibromo-3-chloropr...	19.838	75	3493	0.245	ppbV	#	69
113)	undecane	20.035	57	7534	0.257	ppbV		94
114)	1,2,4,5-tetramethylben...	20.283	119	4637	0.270	ppbV	#	95
115)	dodecane	20.943	57	6545	0.261	ppbV	#	79

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.5
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:59:59 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.943	180	7766	0.273	ppbV	97
117) naphthalene	21.063	128	15626	0.271	ppbV #	95
118) 1,2,3-trichlorobenzene	21.320	180	7702	0.269	ppbV	97
119) benzothiophene	21.131	134	6313	0.288	ppbV #	97
120) hexachlorobutadiene	21.371	225	8263	0.266	ppbV	97
121) 2-methylnaphthalene	22.225	142	3233	0.394	ppbV #	82
122) 1-methylnaphthalene	22.432	142	6048	0.488	ppbV	85

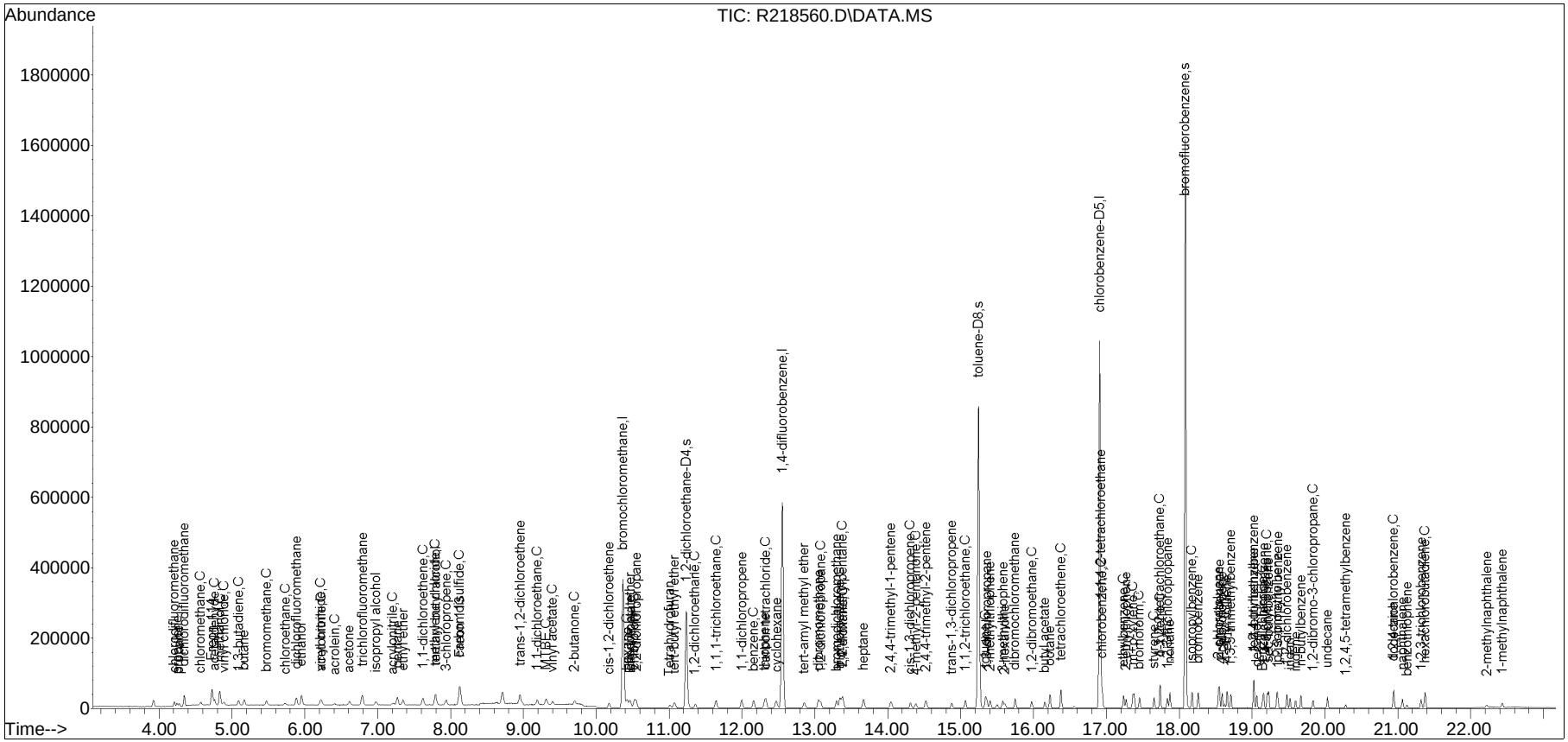
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.5
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:59:59 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

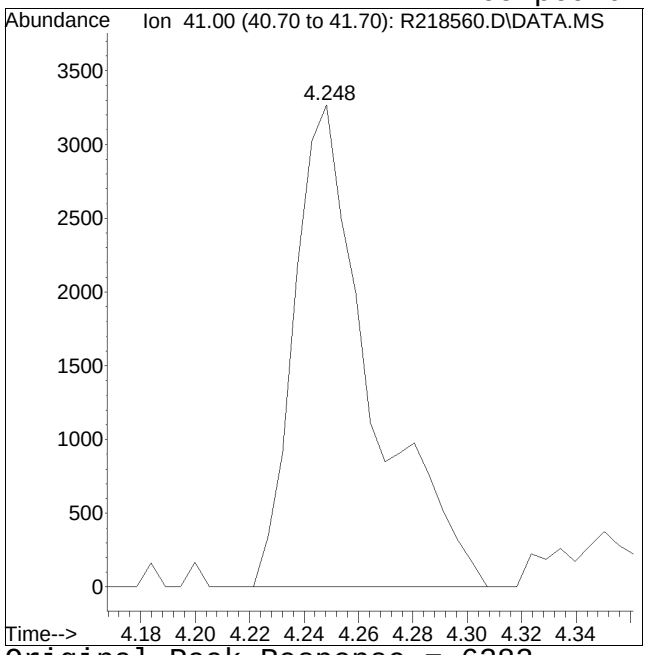


Manual Integration/Negative Proof Report

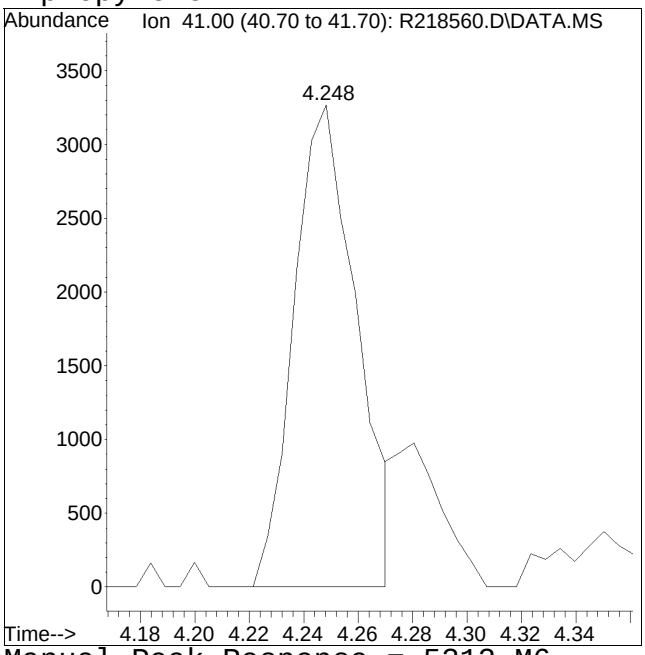
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218560.D
Date Inj'd : 12/21/2011 7:09 pm
Sample : ITO15-LLSTD0.5

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #3: propylene



Original Peak Response = 6383



Manual Peak Response = 5212 M6

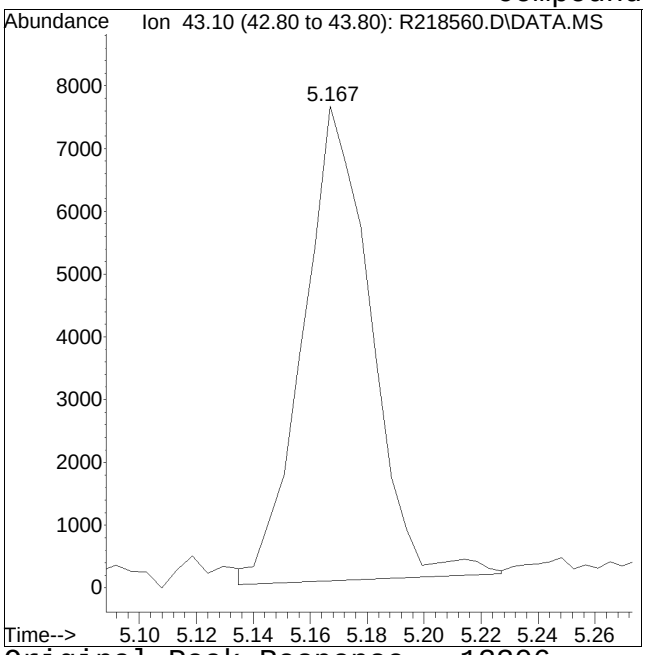
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

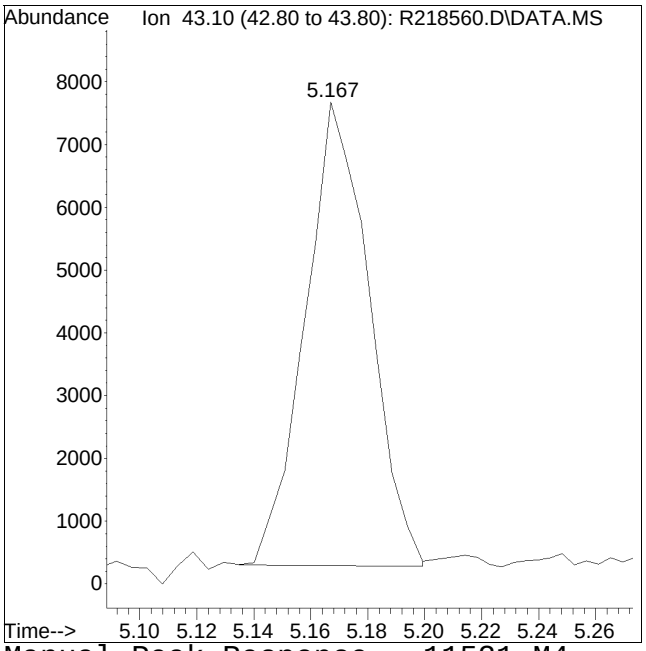
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218560.D
Date Inj'd : 12/21/2011 7:09 pm
Sample : ITO15-LLSTD0.5

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #11: butane



Original Peak Response = 13306



Manual Peak Response = 11521 M4

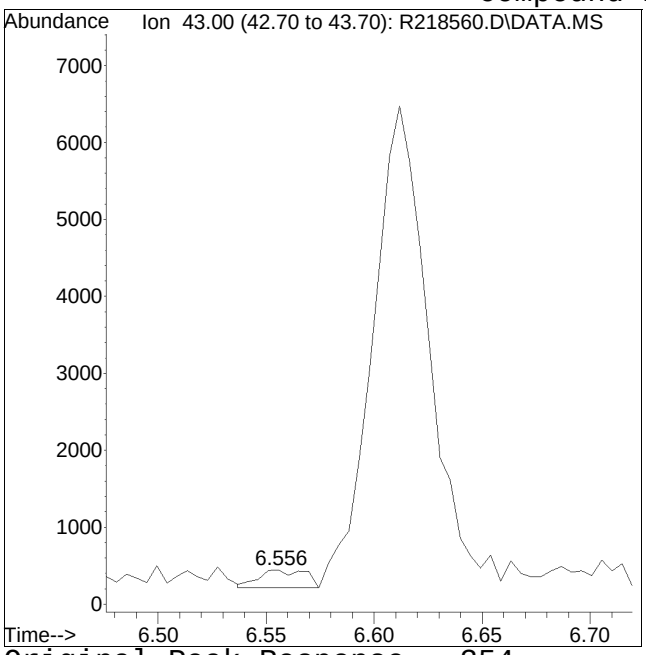
M4 = Poor automated baseline construction.

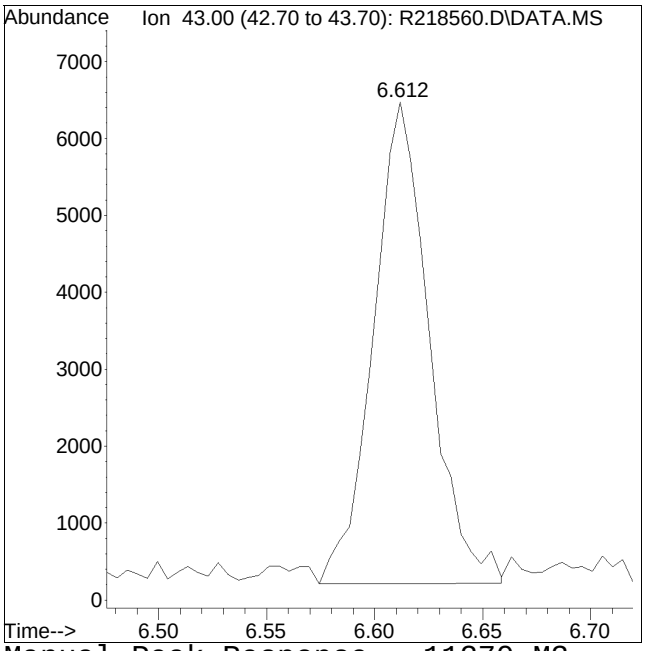
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218560.D
Date Inj'd : 12/21/2011 7:09 pm
Sample : ITO15-LLSTD0.5

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #19: acetone





Original Peak Response = 354 Manual Peak Response = 11270 M3

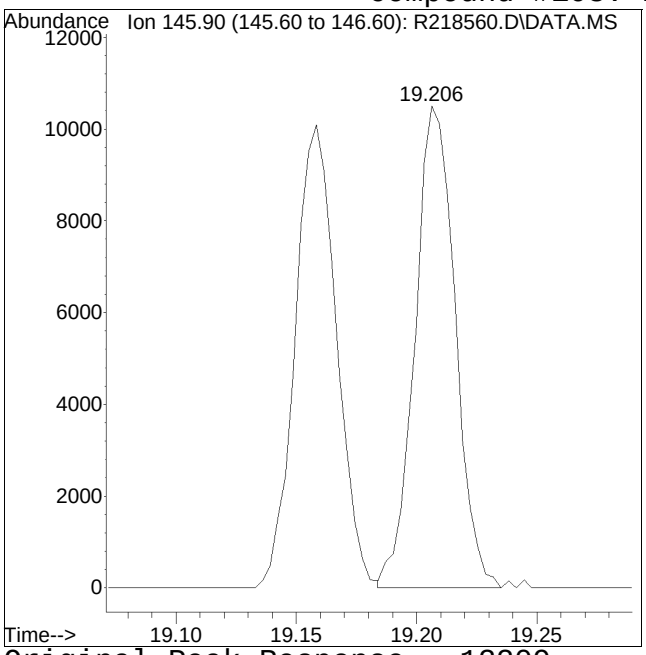
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

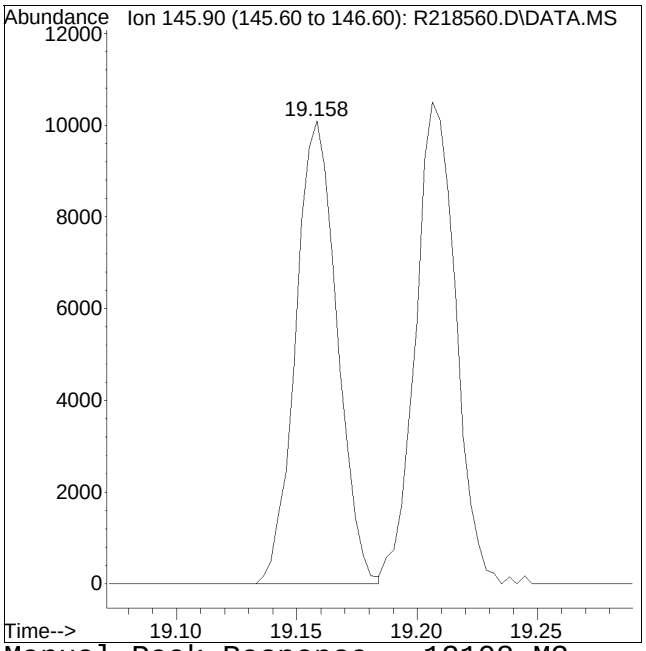
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218560.D
Date Inj'd : 12/21/2011 7:09 pm
Sample : ITO15-LLSTD0.5

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #103: 1,3-dichlorobenzene





Original Peak Response = 12209 Manual Peak Response = 12108 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD1.0
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:57:42 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.366	49	168588	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	478950	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	101272	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.234	65	223948	13.512	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 135.12%#			
70) toluene-D8	15.246	98	546435	13.220	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 132.20%#			
91) bromofluorobenzene	18.082	95	416597	13.612	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 136.12%#			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	22208	0.932	ppbV	96
3) propylene	4.248	41	9060M6	0.955	ppbV	
4) propane	4.275	29	10770	1.044	ppbV	97
5) dichlorodifluoromethane	4.345	85	40913	0.939	ppbV	98
6) chloromethane	4.570	50	12750	0.939	ppbV	100
7) Freon-114	4.726	85	43651	0.966	ppbV	94
8) methanol	4.828	31	57028	5.125	ppbV	91
9) vinyl chloride	4.887	62	14342	0.916	ppbV	92
10) 1,3-butadiene	5.092	54	9740	0.925	ppbV	92
11) butane	5.167	43	24463	0.970	ppbV	92
12) acetaldehyde	4.758	29	19160	4.900	ppbV	93
13) bromomethane	5.478	94	15318	0.978	ppbV	97
14) chloroethane	5.728	64	6614	0.969	ppbV	100
15) ethanol	5.950	31	42209	4.836	ppbV	100
16) dichlorofluoromethane	5.881	67	38283	0.993	ppbV #	95
17) vinyl bromide	6.216	106	14540	0.937	ppbV	99
18) acrolein	6.399	56	4583	0.924	ppbV #	82
19) acetone	6.607	43	19910	1.085	ppbV #	96
20) acetonitrile	6.227	41	17059	1.487	ppbV	99
21) trichlorofluoromethane	6.790	101	43487	0.980	ppbV	97
22) isopropyl alcohol	6.967	45	22422	1.128	ppbV #	98
23) acrylonitrile	7.205	53	8871	0.918	ppbV	97
24) pentane	7.271	43	27041	1.071	ppbV	98
25) ethyl ether	7.337	31	14552	0.877	ppbV #	87
26) 1,1-dichloroethene	7.618	61	25334	1.029	ppbV	96
27) tertiary butyl alcohol	7.785	59	26305	0.968	ppbV #	91
28) methylene chloride	7.791	49	18619	1.051	ppbV	84

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD1.0
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:57:42 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 3-chloropropene	7.935	41	19976	1.049	ppbV	95
30) carbon disulfide	8.123	76	39859	0.887	ppbV #	61
31) Freon 113	8.128	101	33430	1.008	ppbV	91
32) trans-1,2-dichloroethene	8.949	61	29669	0.980	ppbV	97
33) 1,1-dichloroethane	9.190	63	26422	0.953	ppbV	96
34) MTBE	9.308	73	31583	0.913	ppbV #	96
35) vinyl acetate	9.395	43	21786	0.874	ppbV	98
36) 2-butanone	9.694	43	23781	0.998	ppbV #	96
37) cis-1,2-dichloroethene	10.175	61	18337	0.850	ppbV	89
38) Ethyl Acetate	10.469	61	2557	0.824	ppbV #	57
39) chloroform	10.520	83	25474	0.896	ppbV	96
40) Tetrahydrofuran	11.006	42	10869	0.957	ppbV	92
41) 2,2-dichloropropane	10.545	77	23526	0.890	ppbV	98
42) 1,2-dichloroethane	11.359	62	17225	0.913	ppbV	96
44) hexane	10.424	57	17897	1.012	ppbV #	73
45) diisopropyl ether	10.449	87	8104	0.982	ppbV #	83
46) tert-butyl ethyl ether	11.066	59	30834	0.965	ppbV #	96
48) 1,1,1-trichloroethane	11.642	97	27086	0.993	ppbV	96
49) 1,1-dichloropropene	11.998	75	19393	0.984	ppbV #	86
50) benzene	12.154	78	34656	0.985	ppbV	98
51) thiophene	12.311	84	19004	0.896	ppbV	95
52) carbon tetrachloride	12.331	117	28610	0.957	ppbV	95
53) cyclohexane	12.467	56	18972	1.057	ppbV	90
54) tert-amyl methyl ether	12.844	73	27764	0.947	ppbV	95
55) dibromomethane	13.051	93	16680	0.971	ppbV	89
56) 1,2-dichloropropane	13.081	63	11988	0.930	ppbV #	86
57) bromodichloromethane	13.296	83	25878	0.915	ppbV	97
58) 1,4-dioxane	13.373	88	6357	0.909	ppbV	82
59) trichloroethene	13.342	130	18232	0.997	ppbV	96
60) 2,2,4-trimethylpentane	13.380	57	57035	0.975	ppbV	92
61) heptane	13.668	43	21101	0.992	ppbV	99
62) 2,4,4-trimethyl-1-pentene	14.045	57	26841	0.910	ppbV	98
63) cis-1,3-dichloropropene	14.314	75	16977	0.903	ppbV	91
64) 4-methyl-2-pentanone	14.370	43	22819	0.988	ppbV	97
65) 2,4,4-trimethyl-2-pentene	14.521	55	15814	0.875	ppbV	92
66) trans-1,3-dichloropropene	14.878	75	16028	0.885	ppbV #	83
67) 1,1,2-trichloroethane	15.062	97	13346	0.956	ppbV	97
69) toluene	15.341	91	40320	0.885	ppbV	98
71) 2-methylthiophene	15.406	97	26087	0.771	ppbV #	97
72) 1,3-dichloropropane	15.359	76	17519	0.810	ppbV	96
73) 2-hexanone	15.597	43	21358	0.949	ppbV	89

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD1.0
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:57:42 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
74)	3-methylthiophene	15.575	97	26716	0.836 ppbV #	93
75)	dibromochloromethane	15.752	129	24270	0.792 ppbV	97
76)	1,2-dibromoethane	15.974	107	21636	0.901 ppbV	90
77)	butyl acetate	16.148	73	3223	0.807 ppbV	89
78)	octane	16.223	85	11405	0.844 ppbV #	98
79)	tetrachloroethene	16.377	166	23264	0.870 ppbV	96
80)	1,1,1,2-tetrachloroethane	16.930	131	18873	0.848 ppbV	99
81)	chlorobenzene	16.941	112	31384	0.868 ppbV	97
82)	ethylbenzene	17.238	91	44468	0.839 ppbV	94
83)	2-ethylthiophene	17.268	97	28762	0.805 ppbV	98
84)	m+p-xylene	17.365	91	69317	1.653 ppbV	96
85)	bromoform	17.456	173	23799	0.688 ppbV	96
86)	styrene	17.654	104	25444	0.809 ppbV	97
87)	1,1,2,2-tetrachloroethane	17.736	83	24963	0.788 ppbV	97
88)	o-xylene	17.736	91	36333	0.759 ppbV	100
89)	1,2,3-trichloropropane	17.837	75	22079	0.837 ppbV #	89
90)	nonane	17.873	43	26438	0.786 ppbV #	94
92)	isopropylbenzene	18.174	105	50046	0.824 ppbV	96
93)	bromobenzene	18.261	77	26757	0.792 ppbV	96
94)	2-chlorotoluene	18.541	126	13460	0.754 ppbV	88
95)	n-propylbenzene	18.555	120	12333	0.716 ppbV	85
96)	4-chlorotoluene	18.592	91	34501	0.739 ppbV	99
97)	4-ethyl toluene	18.659	105	43527	0.748 ppbV	97
98)	1,3,5-trimethylbenzene	18.713	105	35599	0.758 ppbV	97
99)	tert-butylbenzene	19.027	119	39475	0.716 ppbV	100
100)	1,2,4-trimethylbenzene	19.027	105	32931	0.683 ppbV	87
101)	decane	19.069	57	21740	0.685 ppbV #	89
102)	Benzyl Chloride	19.149	91	23069	0.616 ppbV	100
103)	1,3-dichlorobenzene	19.165	146	27490	0.730 ppbV	98
104)	1,4-dichlorobenzene	19.213	146	27341	0.737 ppbV	96
105)	sec-butylbenzene	19.232	105	53739	0.715 ppbV	98
106)	1,2,3-trimethylbenzene	19.360	105	23383	0.695 ppbV	97
107)	p-isopropyltoluene	19.344	119	43719	0.678 ppbV	98
108)	1,2-dichlorobenzene	19.481	146	25332	0.725 ppbV	99
109)	n-butylbenzene	19.673	91	37865	0.660 ppbV	97
110)	indan	19.526	117	24413	0.707 ppbV	98
111)	indene	19.600	115	20871	0.710 ppbV	97
112)	1,2-dibromo-3-chloropr...	19.838	75	8910	0.624 ppbV #	85
113)	undecane	20.035	57	18700	0.636 ppbV	93
114)	1,2,4,5-tetramethylben...	20.292	119	11501	0.667 ppbV #	95
115)	dodecane	20.943	57	15618	0.620 ppbV	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD1.0
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:57:42 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.943	180	17799	0.625 ppbV #	92
117) naphthalene	21.063	128	35293	0.610 ppbV #	94
118) 1,2,3-trichlorobenzene	21.320	180	17105	0.596 ppbV	92
119) benzothiophene	21.131	134	15676	0.713 ppbV #	94
120) hexachlorobutadiene	21.380	225	19920	0.638 ppbV	97
121) 2-methylnaphthalene	22.224	142	7079	0.860 ppbV	86
122) 1-methylnaphthalene	22.435	142	12364	0.993 ppbV	87

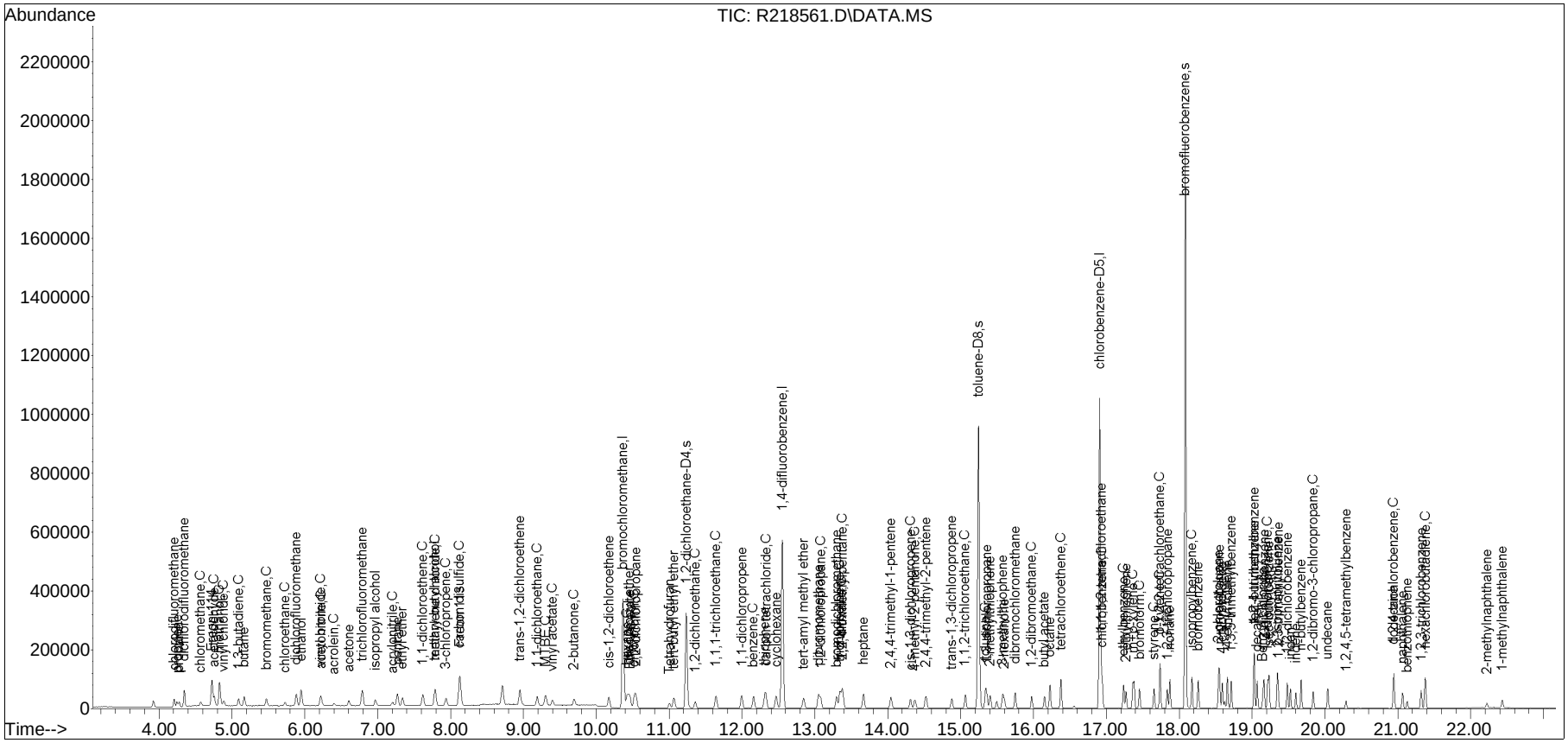
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD1.0
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:57:42 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

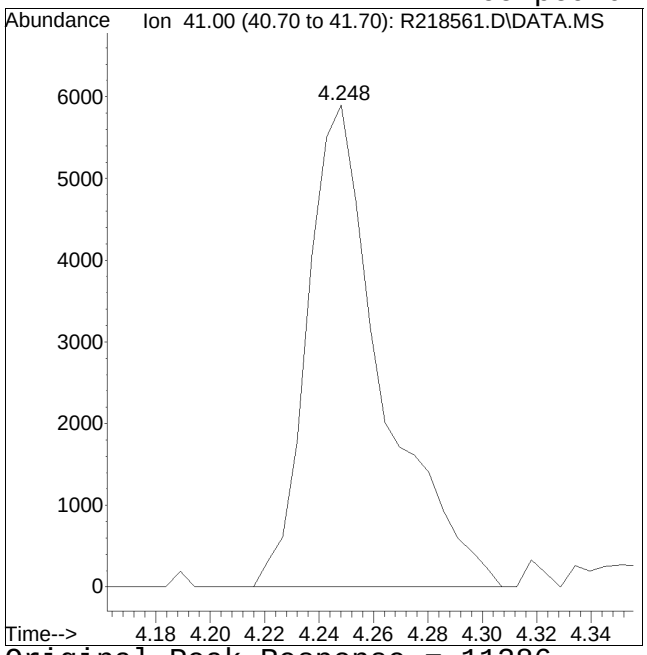


Manual Integration/Negative Proof Report

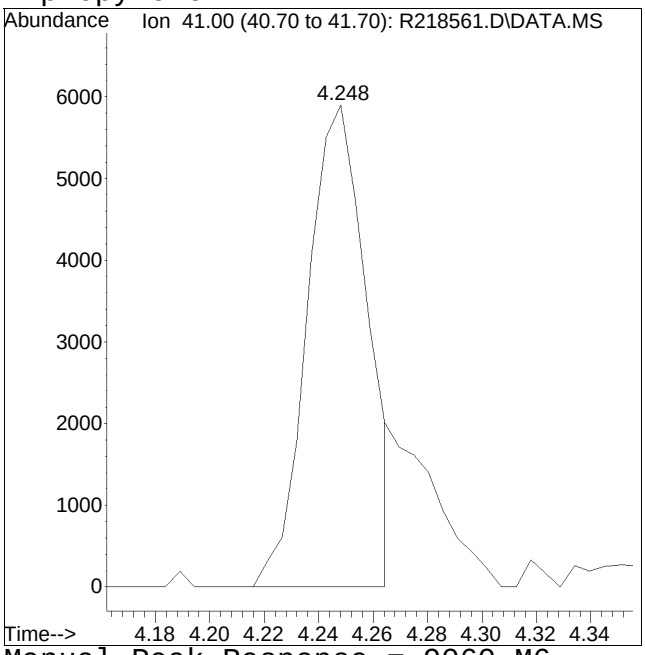
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218561.D
Date Inj'd : 12/21/2011 7:47 pm
Sample : ITO15-LLSTD1.0

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #3: propylene



Original Peak Response = 11286



Manual Peak Response = 9060 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD2.5
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:56:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	172268	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	505683	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	108016	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.234	65	263731	15.071	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 150.71%#			
70) toluene-D8	15.246	98	634352	14.389	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 143.89%#			
91) bromofluorobenzene	18.082	95	468228	14.344	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 143.44%#			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.211	51	51365	2.109	ppbV	96
3) propylene	4.248	41	21961M6	2.266	ppbV	
4) propane	4.280	29	24071	2.283	ppbV	96
5) dichlorodifluoromethane	4.345	85	98575	2.213	ppbV	98
6) chloromethane	4.571	50	29634	2.136	ppbV	95
7) Freon-114	4.726	85	102939	2.230	ppbV	94
8) methanol	4.828	31	133572	11.747	ppbV	94
9) vinyl chloride	4.893	62	34348	2.147	ppbV	100
10) 1,3-butadiene	5.092	54	22929	2.131	ppbV	93
11) butane	5.172	43	63000	2.444	ppbV	98
12) acetaldehyde	4.759	29	41303	10.337	ppbV	97
13) bromomethane	5.473	94	34701	2.167	ppbV	98
14) chloroethane	5.729	64	15179	2.175	ppbV	99
15) ethanol	5.945	31	103367	11.589	ppbV	98
16) dichlorofluoromethane	5.882	67	84960	2.156	ppbV #	99
17) vinyl bromide	6.211	106	33196	2.094	ppbV	99
18) acrolein	6.399	56	8661	1.708	ppbV #	83
19) acetone	6.593	43	39782	2.121	ppbV #	98
20) acetonitrile	6.222	41	24144	2.060	ppbV	96
21) trichlorofluoromethane	6.790	101	101104	2.229	ppbV	97
22) isopropyl alcohol	6.958	45	44823	2.208	ppbV	100
23) acrylonitrile	7.200	53	19293	1.954	ppbV	98
24) pentane	7.271	43	57593	2.233	ppbV	97
25) ethyl ether	7.332	31	32553	1.920	ppbV	97
26) 1,1-dichloroethene	7.618	61	56046	2.228	ppbV	97
27) tertiary butyl alcohol	7.761	59	61053	2.199	ppbV	95
28) methylene chloride	7.791	49	41889	2.313	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD2.5
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:56:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	3-chloropropene	7.935	41	42522	2.186	ppbV		96
30)	carbon disulfide	8.118	76	101913	2.220	ppbV	#	86
31)	Freon 113	8.128	101	72469	2.138	ppbV		92
32)	trans-1,2-dichloroethene	8.949	61	68755	2.224	ppbV		98
33)	1,1-dichloroethane	9.190	63	60547	2.137	ppbV		100
34)	MTBE	9.293	73	70910	2.007	ppbV		99
35)	vinyl acetate	9.396	43	44973	1.766	ppbV		97
36)	2-butanone	9.684	43	50463	2.073	ppbV		99
37)	cis-1,2-dichloroethene	10.175	61	37703	1.710	ppbV		96
38)	Ethyl Acetate	10.462	61	5819	1.834	ppbV		67
39)	chloroform	10.520	83	60295	2.077	ppbV		98
40)	Tetrahydrofuran	10.992	42	23004	1.983	ppbV		99
41)	2,2-dichloropropane	10.545	77	55766	2.065	ppbV		96
42)	1,2-dichloroethane	11.359	62	40546	2.103	ppbV		95
44)	hexane	10.424	57	39641	2.124	ppbV		91
45)	diisopropyl ether	10.443	87	18177	2.085	ppbV		89
46)	tert-butyl ethyl ether	11.057	59	69665	2.064	ppbV		96
48)	1,1,1-trichloroethane	11.643	97	61970	2.151	ppbV		98
49)	1,1-dichloropropene	11.998	75	45690	2.195	ppbV		91
50)	benzene	12.161	78	79156	2.130	ppbV		100
51)	thiophene	12.311	84	47693	2.130	ppbV		94
52)	carbon tetrachloride	12.325	117	66392	2.102	ppbV		98
53)	cyclohexane	12.468	56	42499	2.243	ppbV		94
54)	tert-amyl methyl ether	12.836	73	62831	2.030	ppbV		93
55)	dibromomethane	13.051	93	39289	2.166	ppbV		92
56)	1,2-dichloropropane	13.081	63	26994	1.984	ppbV	#	92
57)	bromodichloromethane	13.296	83	61709	2.068	ppbV		94
58)	1,4-dioxane	13.358	88	15106	2.046	ppbV		89
59)	trichloroethene	13.342	130	41134	2.130	ppbV		97
60)	2,2,4-trimethylpentane	13.381	57	129048	2.089	ppbV		92
61)	heptane	13.668	43	48032	2.138	ppbV		95
62)	2,4,4-trimethyl-1-pentene	14.045	57	64433	2.069	ppbV		94
63)	cis-1,3-dichloropropene	14.310	75	38008	1.915	ppbV	#	89
64)	4-methyl-2-pentanone	14.366	43	51698	2.121	ppbV		99
65)	2,4,4-trimethyl-2-pentene	14.527	55	41447	2.173	ppbV		100
66)	trans-1,3-dichloropropene	14.878	75	35686	1.866	ppbV	#	89
67)	1,1,2-trichloroethane	15.068	97	30434	2.064	ppbV		96
69)	toluene	15.341	91	90139	1.854	ppbV		99
71)	2-methylthiophene	15.406	97	69137	1.915	ppbV	#	97
72)	1,3-dichloropropane	15.365	76	40733	1.766	ppbV		96
73)	2-hexanone	15.592	43	49047	2.044	ppbV		93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD2.5
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:56:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.575	97	63728	1.869	ppbV		96
75)	dibromochloromethane	15.752	129	58020	1.776	ppbV		98
76)	1,2-dibromoethane	15.976	107	48400	1.890	ppbV		95
77)	butyl acetate	16.148	73	7921	1.860	ppbV		90
78)	octane	16.228	85	28358	1.968	ppbV	#	98
79)	tetrachloroethene	16.377	166	57713	2.023	ppbV		91
80)	1,1,1,2-tetrachloroethane	16.925	131	45570	1.920	ppbV		93
81)	chlorobenzene	16.947	112	72044	1.868	ppbV		99
82)	ethylbenzene	17.238	91	100228	1.773	ppbV		100
83)	2-ethylthiophene	17.268	97	67213	1.764	ppbV		98
84)	m+p-xylene	17.380	91	156811	3.506	ppbV		99
85)	bromoform	17.456	173	58313	1.580	ppbV		96
86)	styrene	17.654	104	56497	1.685	ppbV		97
87)	1,1,2,2-tetrachloroethane	17.736	83	59186	1.751	ppbV		99
88)	o-xylene	17.736	91	79268	1.552	ppbV		97
89)	1,2,3-trichloropropane	17.833	75	51919	1.846	ppbV	#	91
90)	nonane	17.873	43	63189	1.762	ppbV	#	99
92)	isopropylbenzene	18.174	105	115813	1.788	ppbV		100
93)	bromobenzene	18.261	77	65414	1.814	ppbV		86
94)	2-chlorotoluene	18.538	126	33520	1.760	ppbV		96
95)	n-propylbenzene	18.552	120	31070	1.691	ppbV		94
96)	4-chlorotoluene	18.588	91	84871	1.704	ppbV		98
97)	4-ethyl toluene	18.656	105	106420	1.714	ppbV		98
98)	1,3,5-trimethylbenzene	18.706	105	87692	1.751	ppbV		96
99)	tert-butylbenzene	19.021	119	97428	1.657	ppbV		98
100)	1,2,4-trimethylbenzene	19.024	105	83365	1.622	ppbV		96
101)	decane	19.062	57	54164	1.601	ppbV		94
102)	Benzyl Chloride	19.139	91	58281	1.458	ppbV		99
103)	1,3-dichlorobenzene	19.155	146	64555	1.607	ppbV		97
104)	1,4-dichlorobenzene	19.206	146	63101	1.594	ppbV		96
105)	sec-butylbenzene	19.225	105	132920	1.658	ppbV		99
106)	1,2,3-trimethylbenzene	19.353	105	60777	1.694	ppbV		95
107)	p-isopropyltoluene	19.341	119	113852	1.656	ppbV		98
108)	1,2-dichlorobenzene	19.475	146	60635	1.626	ppbV		99
109)	n-butylbenzene	19.667	91	99512	1.627	ppbV		97
110)	indan	19.520	117	60634	1.647	ppbV		99
111)	indene	19.597	115	51063	1.629	ppbV		99
112)	1,2-dibromo-3-chloropr...	19.829	75	23680	1.555	ppbV	#	83
113)	undecane	20.035	57	47936	1.529	ppbV		98
114)	1,2,4,5-tetramethylben...	20.283	119	35228	1.914	ppbV	#	97
115)	dodecane	20.943	57	40447	1.506	ppbV		90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD2.5
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:56:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.934	180	43649	1.436	ppbV	94
117) naphthalene	21.063	128	91802	1.487	ppbV #	95
118) 1,2,3-trichlorobenzene	21.320	180	46534	1.520	ppbV	95
119) benzothiophene	21.123	134	31897	1.359	ppbV #	96
120) hexachlorobutadiene	21.371	225	50308	1.511	ppbV	98
121) 2-methylnaphthalene	22.219	142	23799	2.711	ppbV	96
122) 1-methylnaphthalene	22.429	142	32962	2.483	ppbV	99

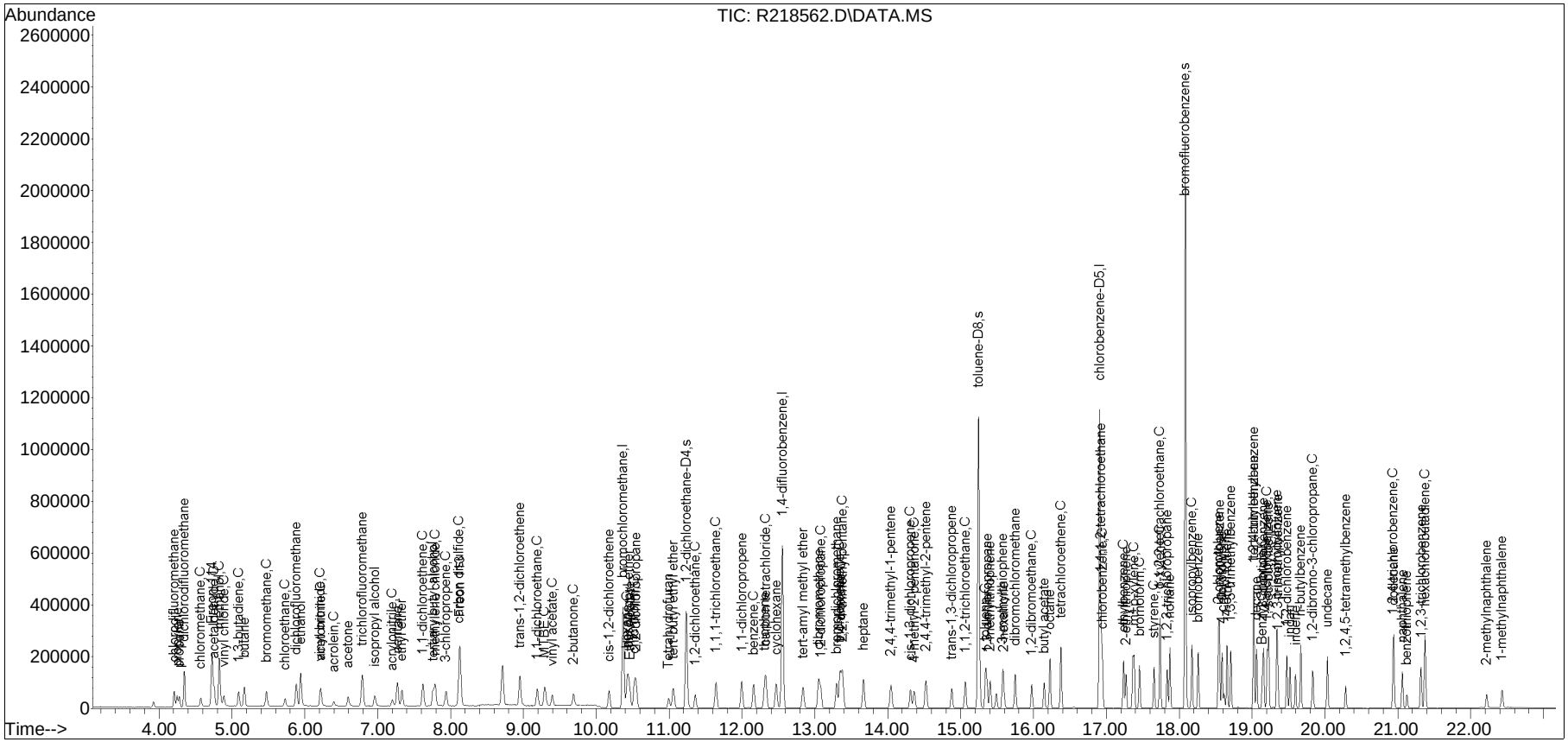
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD2.5
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:56:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

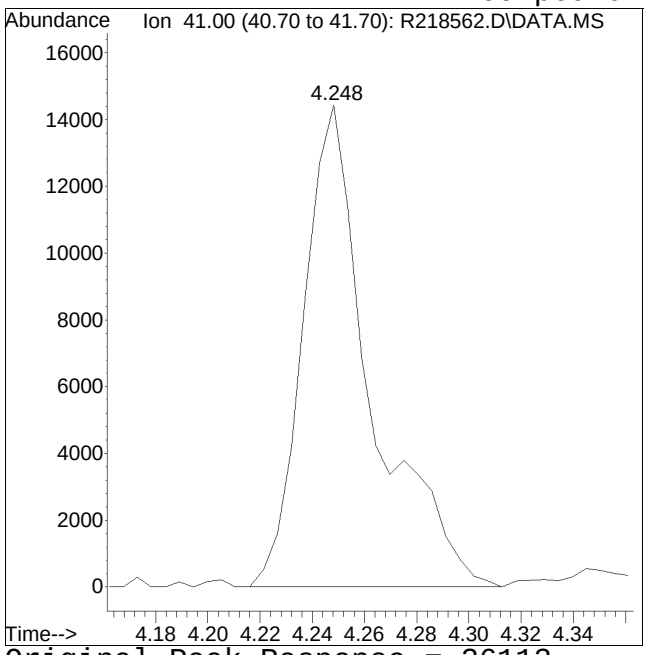


Manual Integration/Negative Proof Report

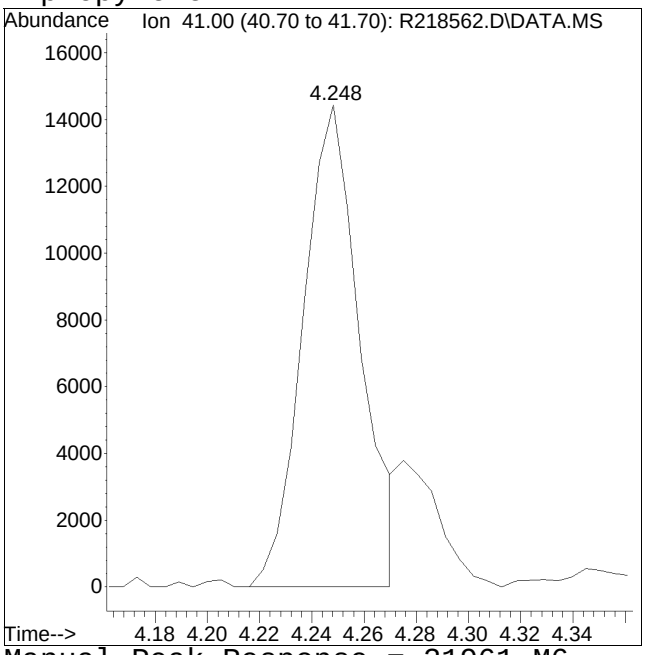
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218562.D
Date Inj'd : 12/21/2011 8:23 pm
Sample : ITO15-LLSTD2.5

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #3: propylene



Original Peak Response = 26113



Manual Peak Response = 21961 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD5.0
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:55:13 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	173128	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	522876	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	111523	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.234	65	196714	10.872	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.72%			
70) toluene-D8	15.246	98	482346	10.597	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.97%			
91) bromofluorobenzene	18.082	95	378510	11.231	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.31%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	121763	4.974	ppbV	94
3) propylene	4.248	41	44340M6	4.553	ppbV	
4) propane	4.281	29	49365	4.659	ppbV	94
5) dichlorodifluoromethane	4.345	85	210601	4.704	ppbV	98
6) chloromethane	4.571	50	66941	4.800	ppbV	93
7) Freon-114	4.726	85	231854	4.997	ppbV	94
8) methanol	4.823	31	319425	27.952	ppbV	94
9) vinyl chloride	4.888	62	75072	4.669	ppbV	100
10) 1,3-butadiene	5.092	54	52774	4.879	ppbV	98
11) butane	5.167	43	124457	4.804	ppbV	97
12) acetaldehyde	4.753	29	96415	24.010	ppbV	91
13) bromomethane	5.474	94	78818	4.898	ppbV	94
14) chloroethane	5.729	64	35351	5.041	ppbV	100
15) ethanol	5.934	31	235190	26.238	ppbV	99
16) dichlorofluoromethane	5.882	67	205114	5.180	ppbV #	99
17) vinyl bromide	6.211	106	78724	4.941	ppbV	99
18) acrolein	6.394	56	25468	4.998	ppbV	94
19) acetone	6.579	43	99041	5.255	ppbV	99
20) acetonitrile	6.211	41	65401	5.551	ppbV	98
21) trichlorofluoromethane	6.790	101	231386	5.076	ppbV	99
22) isopropyl alcohol	6.944	45	102778	5.037	ppbV	100
23) acrylonitrile	7.195	53	49695	5.008	ppbV	97
24) pentane	7.271	43	131787	5.084	ppbV	99
25) ethyl ether	7.322	31	88941	5.219	ppbV	95
26) 1,1-dichloroethene	7.618	61	129957	5.140	ppbV	98
27) tertiary butyl alcohol	7.737	59	137702	4.934	ppbV	97
28) methylene chloride	7.791	49	93365	5.130	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD5.0
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:55:13 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 3-chloropropene	7.940	41	99340	5.082	ppbV	95
30) carbon disulfide	8.119	76	221354	4.799	ppbV	96
31) Freon 113	8.128	101	172614	5.067	ppbV	93
32) trans-1,2-dichloroethene	8.949	61	156738	5.044	ppbV	99
33) 1,1-dichloroethane	9.190	63	139511	4.900	ppbV	96
34) MTBE	9.281	73	178139	5.017	ppbV	98
35) vinyl acetate	9.392	43	134972	5.274	ppbV	97
36) 2-butanone	9.674	43	129425	5.290	ppbV	99
37) cis-1,2-dichloroethene	10.175	61	110310	4.978	ppbV	98
38) Ethyl Acetate	10.456	61	16852	5.286	ppbV	75
39) chloroform	10.520	83	140328	4.809	ppbV	97
40) Tetrahydrofuran	10.983	42	61111	5.242	ppbV	97
41) 2,2-dichloropropane	10.545	77	129519	4.773	ppbV	92
42) 1,2-dichloroethane	11.359	62	95504	4.929	ppbV	99
44) hexane	10.424	57	94892	4.917	ppbV #	74
45) diisopropyl ether	10.437	87	44281	4.913	ppbV #	91
46) tert-butyl ethyl ether	11.048	59	175071	5.017	ppbV	99
48) 1,1,1-trichloroethane	11.646	97	144502	4.851	ppbV	97
49) 1,1-dichloropropene	11.998	75	107019	4.973	ppbV	92
50) benzene	12.161	78	185991	4.841	ppbV	99
51) thiophene	12.311	84	110139	4.756	ppbV	97
52) carbon tetrachloride	12.325	117	158430	4.852	ppbV	97
53) cyclohexane	12.468	56	98532	5.029	ppbV	98
54) tert-amyl methyl ether	12.828	73	157427	4.918	ppbV	97
55) dibromomethane	13.051	93	93021	4.960	ppbV	88
56) 1,2-dichloropropane	13.082	63	64515	4.586	ppbV #	91
57) bromodichloromethane	13.296	83	144097	4.669	ppbV	99
58) 1,4-dioxane	13.342	88	38050	4.984	ppbV #	78
59) trichloroethene	13.342	130	95965	4.806	ppbV	92
60) 2,2,4-trimethylpentane	13.381	57	305419	4.783	ppbV	92
61) heptane	13.669	43	111065	4.782	ppbV	98
62) 2,4,4-trimethyl-1-pentene	14.045	57	150304	4.668	ppbV	95
63) cis-1,3-dichloropropene	14.314	75	96088	4.682	ppbV	94
64) 4-methyl-2-pentanone	14.352	43	122540	4.862	ppbV	96
65) 2,4,4-trimethyl-2-pentene	14.522	55	90669	4.596	ppbV	95
66) trans-1,3-dichloropropene	14.878	75	93700	4.738	ppbV	93
67) 1,1,2-trichloroethane	15.062	97	73153	4.798	ppbV	95
69) toluene	15.341	91	224092	4.464	ppbV	98
71) 2-methylthiophene	15.406	97	163996	4.399	ppbV	98
72) 1,3-dichloropropane	15.365	76	104120	4.373	ppbV #	95
73) 2-hexanone	15.581	43	116394	4.698	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD5.0
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:55:13 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.576	97	158971	4.516	ppbV		98
75)	dibromochloromethane	15.752	129	152171	4.511	ppbV		100
76)	1,2-dibromoethane	15.976	107	121287	4.588	ppbV		93
77)	butyl acetate	16.139	73	21008	4.778	ppbV		91
78)	octane	16.228	85	68066	4.575	ppbV		98
79)	tetrachloroethene	16.377	166	134228	4.558	ppbV		94
80)	1,1,1,2-tetrachloroethane	16.930	131	114551	4.675	ppbV		99
81)	chlorobenzene	16.947	112	179362	4.505	ppbV		98
82)	ethylbenzene	17.238	91	276337	4.735	ppbV		99
83)	2-ethylthiophene	17.268	97	177691	4.517	ppbV		94
84)	m+p-xylene	17.365	91	437558	9.475	ppbV		100
85)	bromoform	17.456	173	158043	4.148	ppbV		98
86)	styrene	17.655	104	159571	4.609	ppbV		98
87)	1,1,2,2-tetrachloroethane	17.736	83	164391	4.711	ppbV		100
88)	o-xylene	17.736	91	248027	4.703	ppbV		99
89)	1,2,3-trichloropropane	17.833	75	142242	4.899	ppbV		94
90)	nonane	17.873	43	164786	4.451	ppbV		100
92)	isopropylbenzene	18.174	105	324043	4.845	ppbV		99
93)	bromobenzene	18.261	77	171041	4.595	ppbV		89
94)	2-chlorotoluene	18.538	126	91980	4.677	ppbV		97
95)	n-propylbenzene	18.552	120	90328	4.762	ppbV		98
96)	4-chlorotoluene	18.589	91	237650	4.621	ppbV		98
97)	4-ethyl toluene	18.656	105	311890	4.865	ppbV		99
98)	1,3,5-trimethylbenzene	18.706	105	255597	4.942	ppbV		98
99)	tert-butylbenzene	19.021	119	285268	4.700	ppbV		100
100)	1,2,4-trimethylbenzene	19.021	105	245883	4.634	ppbV		97
101)	decane	19.062	57	162131	4.642	ppbV		96
102)	Benzyl Chloride	19.139	91	183650	4.450	ppbV		99
103)	1,3-dichlorobenzene	19.155	146	184919	4.458	ppbV		96
104)	1,4-dichlorobenzene	19.206	146	184096	4.504	ppbV		96
105)	sec-butylbenzene	19.226	105	393504	4.754	ppbV		99
106)	1,2,3-trimethylbenzene	19.350	105	179065	4.834	ppbV		98
107)	p-isopropyltoluene	19.337	119	335619	4.729	ppbV		100
108)	1,2-dichlorobenzene	19.475	146	178029	4.624	ppbV		99
109)	n-butylbenzene	19.667	91	303156	4.802	ppbV		99
110)	indan	19.520	117	177490	4.669	ppbV		97
111)	indene	19.593	115	154982	4.789	ppbV		96
112)	1,2-dibromo-3-chloropr...	19.829	75	70915	4.510	ppbV		96
113)	undecane	20.035	57	152866	4.722	ppbV		99
114)	1,2,4,5-tetramethylben...	20.283	119	102225	5.381	ppbV	#	98
115)	dodecane	20.943	57	110325	3.978	ppbV		93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD5.0
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:55:13 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.934	180	130169	4.148	ppbV	97
117) naphthalene	21.063	128	274555	4.306	ppbV	98
118) 1,2,3-trichlorobenzene	21.311	180	134230	4.247	ppbV	98
119) benzothiophene	21.123	134	92755	3.829	ppbV	98
120) hexachlorobutadiene	21.371	225	149983	4.363	ppbV	95
121) 2-methylnaphthalene	22.219	142	61419	6.775	ppbV	97
122) 1-methylnaphthalene	22.427	142	80982	5.908	ppbV	98

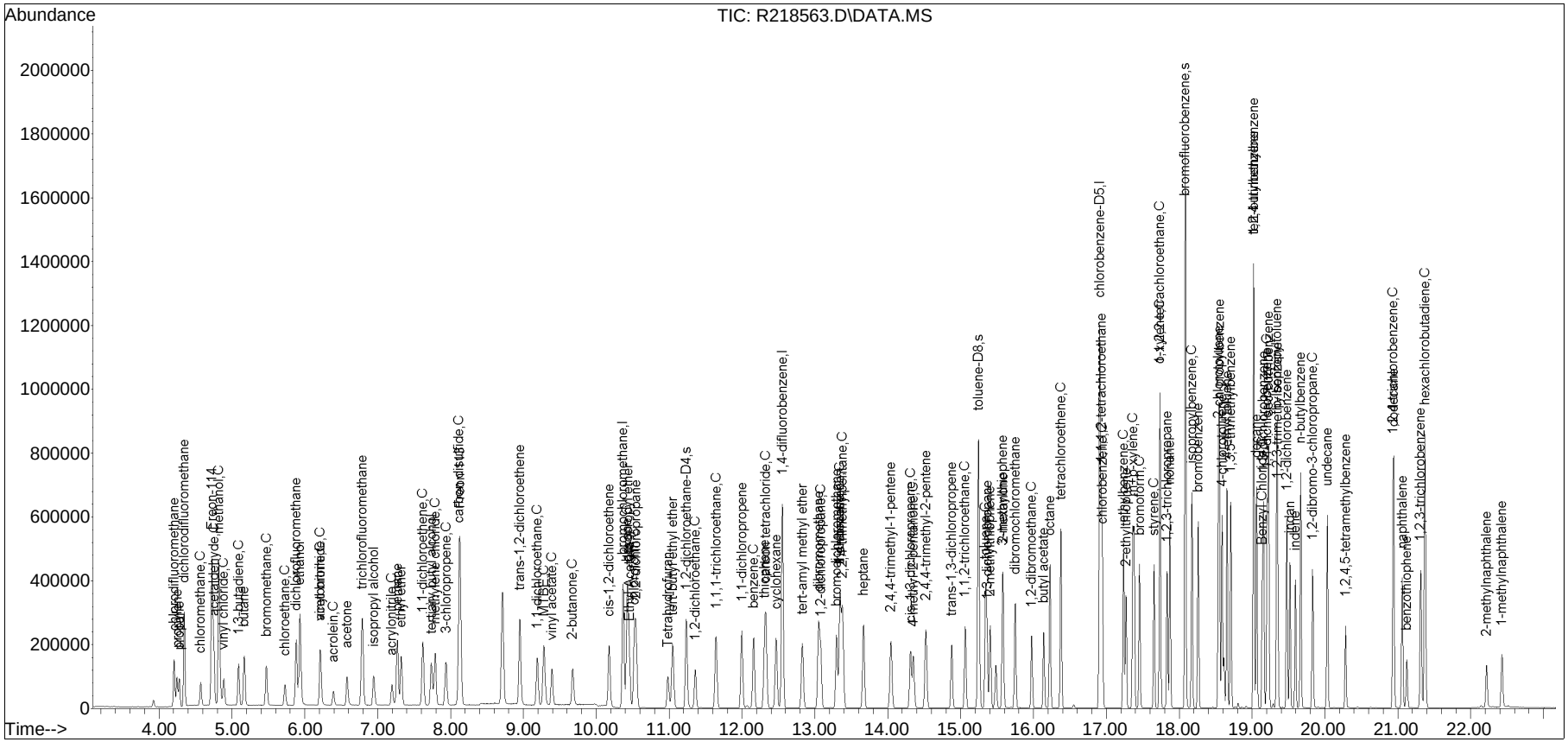
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD5.0
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:55:13 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

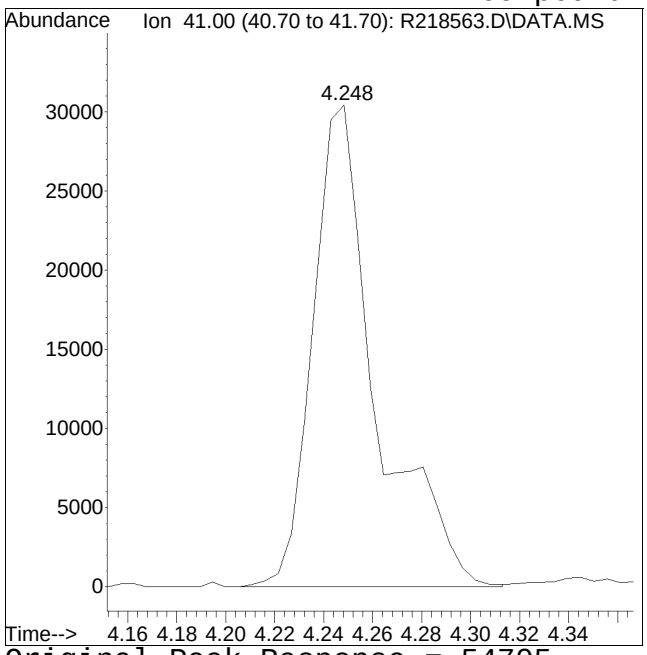


Manual Integration/Negative Proof Report

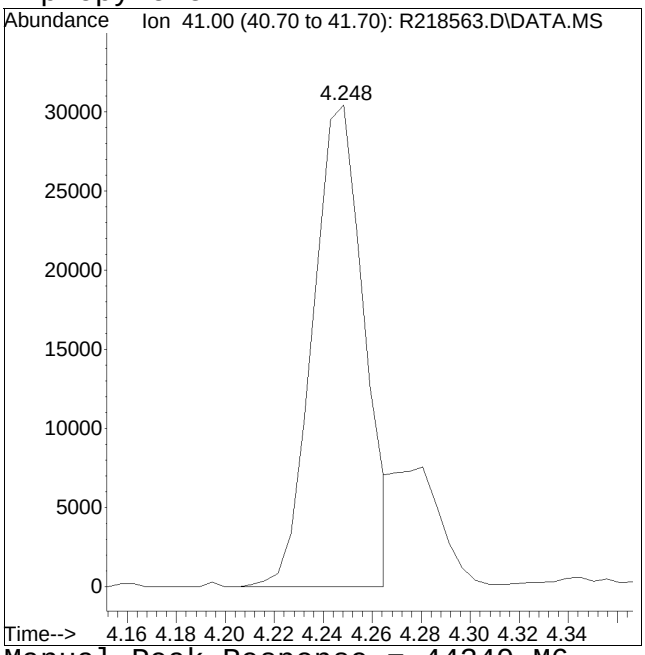
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218563.D
Date Inj'd : 12/21/2011 9:01 pm
Sample : ITO15-LLSTD5.0

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:48 am

Compound #3: propylene



Original Peak Response = 54705



Manual Peak Response = 44340 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD10.0
Misc : wg509913
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 08:44:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Oct 20 10:20:03 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	176950	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	532523	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	111823	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.238	65	184275	8.252	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	82.52%	
70) toluene-D8	15.246	98	456402	9.466	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	94.66%	
91) bromofluorobenzene	18.082	95	337937	8.843	ppbV	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery	=	88.43%	
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	250188	9.467	ppbV	95
3) propylene	4.248	41	99541	8.402	ppbV	98
4) propane	4.280	29	108286	9.906	ppbV	96
5) dichlorodifluoromethane	4.345	85	457562	14.118	ppbV	98
6) chloromethane	4.571	50	142525	10.873	ppbV	94
7) Freon-114	4.726	85	474238	14.775	ppbV	92
8) methanol	4.823	31	583992	74.869	ppbV	95
9) vinyl chloride	4.888	62	164344	13.150	ppbV	100
10) 1,3-butadiene	5.092	54	110546	11.080	ppbV	95
11) butane	5.167	43	264770	11.184	ppbV	97
12) acetaldehyde	4.748	29	205214	63.095	ppbV	94
13) bromomethane	5.473	94	164470	14.871	ppbV	96
14) chloroethane	5.728	64	71678	13.268	ppbV	99
15) ethanol	5.928	31	458075	66.134	ppbV	96
16) dichlorofluoromethane	5.886	67	404738	14.065	ppbV	100
17) vinyl bromide	6.216	106	162829	15.891	ppbV	98
18) acrolein	6.388	56	52083	12.230	ppbV	98
19) acetone	6.574	43	192642	12.044	ppbV	97
20) acetonitrile	6.211	41	120412	12.936	ppbV	96
21) trichlorofluoromethane	6.790	101	465930	15.297	ppbV	99
22) isopropyl alcohol	6.935	45	208549	11.227	ppbV	99
23) acrylonitrile	7.195	53	101427	12.464	ppbV	100
24) pentane	7.271	43	264943	11.223	ppbV	96
25) ethyl ether	7.317	31	174167	14.697	ppbV	95
26) 1,1-dichloroethene	7.618	61	258394	12.642	ppbV	98
27) tertiary butyl alcohol	7.719	59	285221	12.705	ppbV	98
28) methylene chloride	7.791	49	186028	11.112	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD10.0
Misc : wg509913
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 08:44:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Oct 20 10:20:03 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 3-chloropropene	7.940	41	199786	12.194	ppbV		96
30) carbon disulfide	8.118	76	471476	15.238	ppbV		97
31) Freon 113	8.128	101	348186	16.189	ppbV		91
32) trans-1,2-dichloroethene	8.953	61	317623	12.320	ppbV		98
33) 1,1-dichloroethane	9.190	63	290973	13.733	ppbV		100
34) MTBE	9.274	73	362935	15.510	ppbV		98
35) vinyl acetate	9.392	43	261558	11.669	ppbV		98
36) 2-butanone	9.669	43	250040	11.337	ppbV		98
37) cis-1,2-dichloroethene	10.175	61	226488	12.746	ppbV		98
38) Ethyl Acetate	10.449	61	32584	10.561	ppbV	#	56
39) chloroform	10.526	83	298251	12.714	ppbV		96
40) Tetrahydrofuran	10.974	42	119146	8.361	ppbV		99
41) 2,2-dichloropropane	10.545	77	277350	12.643	ppbV		97
42) 1,2-dichloroethane	11.359	62	198055	11.794	ppbV		99
44) hexane	10.424	57	196548	7.243	ppbV	#	57
45) diisopropyl ether	10.430	87	91802	9.907	ppbV	#	92
46) tert-butyl ethyl ether	11.043	59	355394	7.744	ppbV		97
48) 1,1,1-trichloroethane	11.643	97	303389	9.696	ppbV		98
49) 1,1-dichloropropene	11.998	75	219154	9.121	ppbV		94
50) benzene	12.161	78	391304	9.088	ppbV		98
51) thiophene	12.311	84	235832	9.664	ppbV		98
52) carbon tetrachloride	12.325	117	332549	9.937	ppbV		99
53) cyclohexane	12.468	56	199538	6.625	ppbV		97
54) tert-amyl methyl ether	12.821	73	326016	9.128	ppbV		98
55) dibromomethane	13.051	93	190988	10.318	ppbV	#	88
56) 1,2-dichloropropane	13.081	63	143259	8.374	ppbV	#	93
57) bromodichloromethane	13.296	83	314288	9.777	ppbV		98
58) 1,4-dioxane	13.335	88	77748	9.291	ppbV	#	73
59) trichloroethene	13.342	130	203350	9.751	ppbV		96
60) 2,2,4-trimethylpentane	13.381	57	650387	7.238	ppbV		95
61) heptane	13.668	43	236540	6.683	ppbV		100
62) 2,4,4-trimethyl-1-pentene	14.045	57	327903	7.240	ppbV		96
63) cis-1,3-dichloropropene	14.314	75	209024	9.609	ppbV		92
64) 4-methyl-2-pentanone	14.342	43	256710	7.030	ppbV		100
65) 2,4,4-trimethyl-2-pentene	14.521	55	200898	7.088	ppbV		95
66) trans-1,3-dichloropropene	14.878	75	201407	9.422	ppbV		94
67) 1,1,2-trichloroethane	15.062	97	155281	9.465	ppbV		92
69) toluene	15.341	91	503320	11.615	ppbV		98
71) 2-methylthiophene	15.406	97	373801	12.112	ppbV	#	100
72) 1,3-dichloropropane	15.365	76	238752	12.108	ppbV		97
73) 2-hexanone	15.575	43	248398	8.333	ppbV	#	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD10.0
Misc : wg509913
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 08:44:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Oct 20 10:20:03 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.575	97	352954	11.198	ppbV		98
75)	dibromochloromethane	15.746	129	338251	11.841	ppbV		99
76)	1,2-dibromoethane	15.976	107	265078	11.405	ppbV		99
77)	butyl acetate	16.139	73	44089	11.247	ppbV		79
78)	octane	16.228	85	149170	10.999	ppbV		96
79)	tetrachloroethene	16.377	166	295270	12.167	ppbV		89
80)	1,1,1,2-tetrachloroethane	16.930	131	245705	11.516	ppbV		99
81)	chlorobenzene	16.947	112	399169	11.472	ppbV		99
82)	ethylbenzene	17.238	91	585146	11.199	ppbV		99
83)	2-ethylthiophene	17.268	97	394450	10.936	ppbV		96
84)	m+p-xylene	17.380	91	926103	22.825	ppbV		99
85)	bromoform	17.456	173	382035	12.854	ppbV		99
86)	styrene	17.654	104	347140	11.105	ppbV		98
87)	1,1,2,2-tetrachloroethane	17.736	83	349888	11.152	ppbV		99
88)	o-xylene	17.736	91	528765	11.835	ppbV		99
89)	1,2,3-trichloropropane	17.832	75	291115	10.512	ppbV		95
90)	nonane	17.873	43	371211	8.401	ppbV		100
92)	isopropylbenzene	18.174	105	670573	11.215	ppbV		100
93)	bromobenzene	18.261	77	373250	11.469	ppbV		86
94)	2-chlorotoluene	18.545	126	197189	11.160	ppbV		89
95)	n-propylbenzene	18.558	120	190182	10.965	ppbV		84
96)	4-chlorotoluene	18.595	91	515709	11.014	ppbV		100
97)	4-ethyl toluene	18.662	105	642770	11.077	ppbV		100
98)	1,3,5-trimethylbenzene	18.716	105	518586	10.810	ppbV		99
99)	tert-butylbenzene	19.030	119	608542	10.786	ppbV		100
100)	1,2,4-trimethylbenzene	19.030	105	532036	11.524	ppbV		98
101)	decane	19.072	57	350213	8.451	ppbV		98
102)	Benzyl Chloride	19.149	91	413793	11.158	ppbV		98
103)	1,3-dichlorobenzene	19.165	146	415936	11.309	ppbV		96
104)	1,4-dichlorobenzene	19.216	146	409846	11.280	ppbV		98
105)	sec-butylbenzene	19.235	105	829919	11.316	ppbV		99
106)	1,2,3-trimethylbenzene	19.360	105	371450	10.066	ppbV		97
107)	p-isopropyltoluene	19.347	119	711656	10.734	ppbV		100
108)	1,2-dichlorobenzene	19.485	146	386030	10.947	ppbV		97
109)	n-butylbenzene	19.673	91	633039	11.067	ppbV		98
110)	indan	19.526	117	381209	9.997	ppbV		99
111)	indene	19.603	115	324477	10.624	ppbV		97
112)	1,2-dibromo-3-chloropr...	19.838	75	157657	10.819	ppbV		97
113)	undecane	20.035	57	324594	8.240	ppbV		96
114)	1,2,4,5-tetramethylben...	20.292	119	190502	8.068	ppbV	#	99
115)	dodecane	20.943	57	278087	7.965	ppbV		94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD10.0
Misc : wg509913
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 08:44:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Oct 20 10:20:03 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.943	180	314634	12.295	ppbV	96
117) naphthalene	21.063	128	639283	10.714	ppbV	100
118) 1,2,3-trichlorobenzene	21.320	180	316930	11.796	ppbV	98
119) benzothiophene	21.131	134	242905	9.896	ppbV	99
120) hexachlorobutadiene	21.380	225	344654	11.370	ppbV	94
121) 2-methylnaphthalene	22.221	142	90895	6.157	ppbV	97
122) 1-methylnaphthalene	22.432	142	137431	5.400	ppbV	98

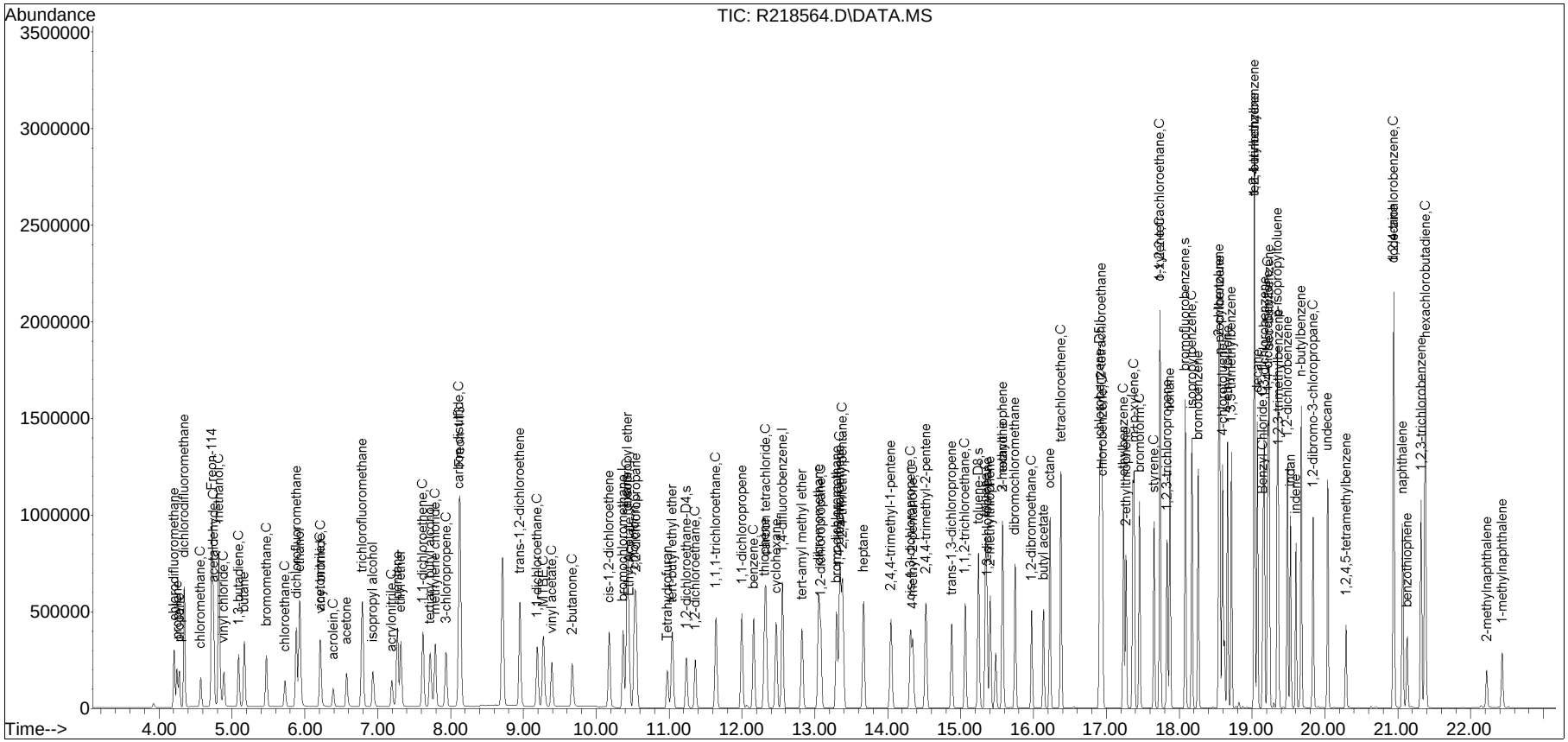
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD10.0
Misc : wg509913
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 08:44:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Oct 20 10:20:03 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TALL111221.M
Data File	: R218564.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/21/2011 9:37 pm	Instrument	: Air Piano 2
Sample	: ITO15-LLSTD10.0	Quant Date	: 12/22/2011 8:44 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD50.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:50:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.373	49	179106	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	545416	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	118866	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.238	65	203992	10.808	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.08%			
70) toluene-D8	15.246	98	555820	11.457	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.57%			
91) bromofluorobenzene	18.082	95	447283	12.451	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 124.51%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	1285697	50.771	ppbV	95
3) propylene	4.243	41	506869M6	50.308	ppbV	
4) propane	4.275	29	551492	50.316	ppbV	98
5) dichlorodifluoromethane	4.345	85	2333044	50.375	ppbV	99
6) chloromethane	4.565	50	700159	48.534	ppbV	96
7) Freon-114	4.721	85	2423603	50.490	ppbV	95
8) methanol	4.823	31	2266579	191.723	ppbV	96
9) vinyl chloride	4.887	62	811033	48.756	ppbV	99
10) 1,3-butadiene	5.086	54	552719	49.397	ppbV	99
11) butane	5.167	43	1315827	49.099	ppbV	98
12) acetaldehyde	4.742	29	804052	193.548	ppbV	95
13) bromomethane	5.469	94	790008	47.455	ppbV	98
14) chloroethane	5.724	64	346820	47.803	ppbV	96
15) ethanol	5.933	31	1695155	182.803	ppbV	99
16) dichlorofluoromethane	5.881	67	1856732	45.323	ppbV #	100
17) vinyl bromide	6.211	106	756047	45.873	ppbV	99
18) acrolein	6.383	56	217037	41.170	ppbV	97
19) acetone	6.565	43	635632	32.598	ppbV #	97
20) acetonitrile	6.205	41	427992	35.116	ppbV	95
21) trichlorofluoromethane	6.789	101	2177587	46.174	ppbV	97
22) isopropyl alcohol	6.921	45	859791	40.731	ppbV	100
23) acrylonitrile	7.195	53	385907	37.590	ppbV	98
24) pentane	7.271	43	1311786	48.916	ppbV	97
25) ethyl ether	7.312	31	699242	39.665	ppbV	99
26) 1,1-dichloroethene	7.618	61	1175799	44.956	ppbV	98
27) tertiary butyl alcohol	7.701	59	1199187	41.538	ppbV	96
28) methylene chloride	7.791	49	810302	43.034	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD50.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:50:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 3-chloropropene	7.940	41	892529	44.136	ppbV	94
30) carbon disulfide	8.118	76	2184046	45.766	ppbV	96
31) Freon 113	8.128	101	1617023	45.882	ppbV	91
32) trans-1,2-dichloroethene	8.953	61	1406546	43.750	ppbV	96
33) 1,1-dichloroethane	9.190	63	1265945	42.984	ppbV	99
34) MTBE	9.266	73	1273946	34.679	ppbV	98
35) vinyl acetate	9.388	43	956139	36.115	ppbV	98
36) 2-butanone	9.661	43	801331	31.662	ppbV	98
37) cis-1,2-dichloroethene	10.175	61	836281	36.479	ppbV	97
38) Ethyl Acetate	10.449	61	117729	35.696	ppbV	70
39) chloroform	10.526	83	1389209	46.018	ppbV	97
40) Tetrahydrofuran	10.964	42	422521	35.036	ppbV	100
41) 2,2-dichloropropane	10.545	77	1297358	46.214	ppbV	97
42) 1,2-dichloroethane	11.359	62	894202	44.606	ppbV	98
44) hexane	10.424	57	969115	48.141	ppbV #	68
45) diisopropyl ether	10.430	87	356854	37.953	ppbV #	85
46) tert-butyl ethyl ether	11.039	59	1275056	35.029	ppbV	99
48) 1,1,1-trichloroethane	11.645	97	1417143	45.606	ppbV	99
49) 1,1-dichloropropene	11.998	75	1019630	45.426	ppbV	97
50) benzene	12.161	78	1800568	44.927	ppbV	100
51) thiophene	12.311	84	1076736	44.578	ppbV	100
52) carbon tetrachloride	12.331	117	1653441	48.545	ppbV	100
53) cyclohexane	12.467	56	943595	46.171	ppbV	95
54) tert-amyl methyl ether	12.813	73	1200982	35.967	ppbV	98
55) dibromomethane	13.051	93	892770	45.640	ppbV #	88
56) 1,2-dichloropropane	13.081	63	663132	45.195	ppbV	97
57) bromodichloromethane	13.304	83	1495311	46.453	ppbV	99
58) 1,4-dioxane	13.327	88	307499	38.616	ppbV #	77
59) trichloroethene	13.350	130	1006133	48.308	ppbV	95
60) 2,2,4-trimethylpentane	13.380	57	3082116	46.269	ppbV	98
61) heptane	13.668	43	1092854	45.110	ppbV #	100
62) 2,4,4-trimethyl-1-pentene	14.045	57	1452248	43.242	ppbV	100
63) cis-1,3-dichloropropene	14.314	75	1017235	47.516	ppbV	95
64) 4-methyl-2-pentanone	14.337	43	1006868	38.295	ppbV	98
65) 2,4,4-trimethyl-2-pentene	14.527	55	901714	43.823	ppbV	94
66) trans-1,3-dichloropropene	14.878	75	960404	46.558	ppbV	97
67) 1,1,2-trichloroethane	15.068	97	721440	45.362	ppbV	96
69) toluene	15.347	91	2334926	43.642	ppbV	100
71) 2-methylthiophene	15.412	97	1690051	42.534	ppbV #	99
72) 1,3-dichloropropane	15.364	76	1080812	42.587	ppbV	98
73) 2-hexanone	15.570	43	1001064	37.913	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD50.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:50:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.581	97	1620495	43.192	ppbV		99
75)	dibromochloromethane	15.752	129	1636093	45.503	ppbV		100
76)	1,2-dibromoethane	15.979	107	1290604	45.803	ppbV		95
77)	butyl acetate	16.134	73	170707	36.425	ppbV		80
78)	octane	16.228	85	733991	46.290	ppbV		91
79)	tetrachloroethene	16.377	166	1462587	46.599	ppbV		92
80)	1,1,1,2-tetrachloroethane	16.930	131	1219037	46.674	ppbV		97
81)	chlorobenzene	16.947	112	1988831	46.872	ppbV		98
82)	ethylbenzene	17.237	91	2598928	41.783	ppbV		100
83)	2-ethylthiophene	17.273	97	1728543	41.225	ppbV		96
84)	m+p-xylene	17.380	91	4142938	84.169	ppbV		99
85)	bromoform	17.456	173	2031510	50.025	ppbV		99
86)	styrene	17.654	104	1580237	42.824	ppbV		99
87)	1,1,2,2-tetrachloroethane	17.736	83	1547952	41.620	ppbV		99
88)	o-xylene	17.741	91	2177765	38.746	ppbV		100
89)	1,2,3-trichloropropane	17.832	75	1222075	39.492	ppbV		98
90)	nonane	17.873	43	1715247	43.469	ppbV		93
92)	isopropylbenzene	18.179	105	2957741	41.494	ppbV		98
93)	bromobenzene	18.266	77	1640689	41.352	ppbV	#	81
94)	2-chlorotoluene	18.551	126	955335	45.577	ppbV		99
95)	n-propylbenzene	18.565	120	894144	44.229	ppbV		78
96)	4-chlorotoluene	18.602	91	2408665	43.938	ppbV		97
97)	4-ethyl toluene	18.669	105	2880595	42.160	ppbV		98
98)	1,3,5-trimethylbenzene	18.723	105	2336174	42.380	ppbV		99
99)	tert-butylbenzene	19.037	119	2787695	43.095	ppbV		99
100)	1,2,4-trimethylbenzene	19.040	105	2449696	43.316	ppbV		98
101)	decane	19.078	57	1634587	43.909	ppbV		95
102)	Benzyl Chloride	19.155	91	2017840	45.875	ppbV		99
103)	1,3-dichlorobenzene	19.171	146	2051656	46.404	ppbV		98
104)	1,4-dichlorobenzene	19.222	146	2092143	48.022	ppbV		98
105)	sec-butylbenzene	19.238	105	3733811	42.324	ppbV		97
106)	1,2,3-trimethylbenzene	19.363	105	1633506	41.371	ppbV		100
107)	p-isopropyltoluene	19.353	119	3261078	43.109	ppbV		98
108)	1,2-dichlorobenzene	19.488	146	1852582	45.147	ppbV		97
109)	n-butylbenzene	19.680	91	2794181	41.524	ppbV		97
110)	indan	19.532	117	1677676	41.402	ppbV		98
111)	indene	19.606	115	1484049	43.027	ppbV		99
112)	1,2-dibromo-3-chloropr...	19.838	75	735524	43.889	ppbV		91
113)	undecane	20.043	57	1558849	45.179	ppbV		95
114)	1,2,4,5-tetramethylben...	20.292	119	872489	43.086	ppbV		98
115)	dodecane	20.943	57	1462678	49.481	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD50.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:50:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.943	180	1741471	52.070	ppbV	96
117) naphthalene	21.071	128	3229080	47.518	ppbV	99
118) 1,2,3-trichlorobenzene	21.320	180	1674048	49.691	ppbV	98
119) benzothiophene	21.131	134	1512448	58.576	ppbV	99
120) hexachlorobutadiene	21.380	225	1876179	51.211	ppbV #	90
121) 2-methylnaphthalene	22.218	142	763358	79.006	ppbV	99
122) 1-methylnaphthalene	22.429	142	1292190	88.454	ppbV	99

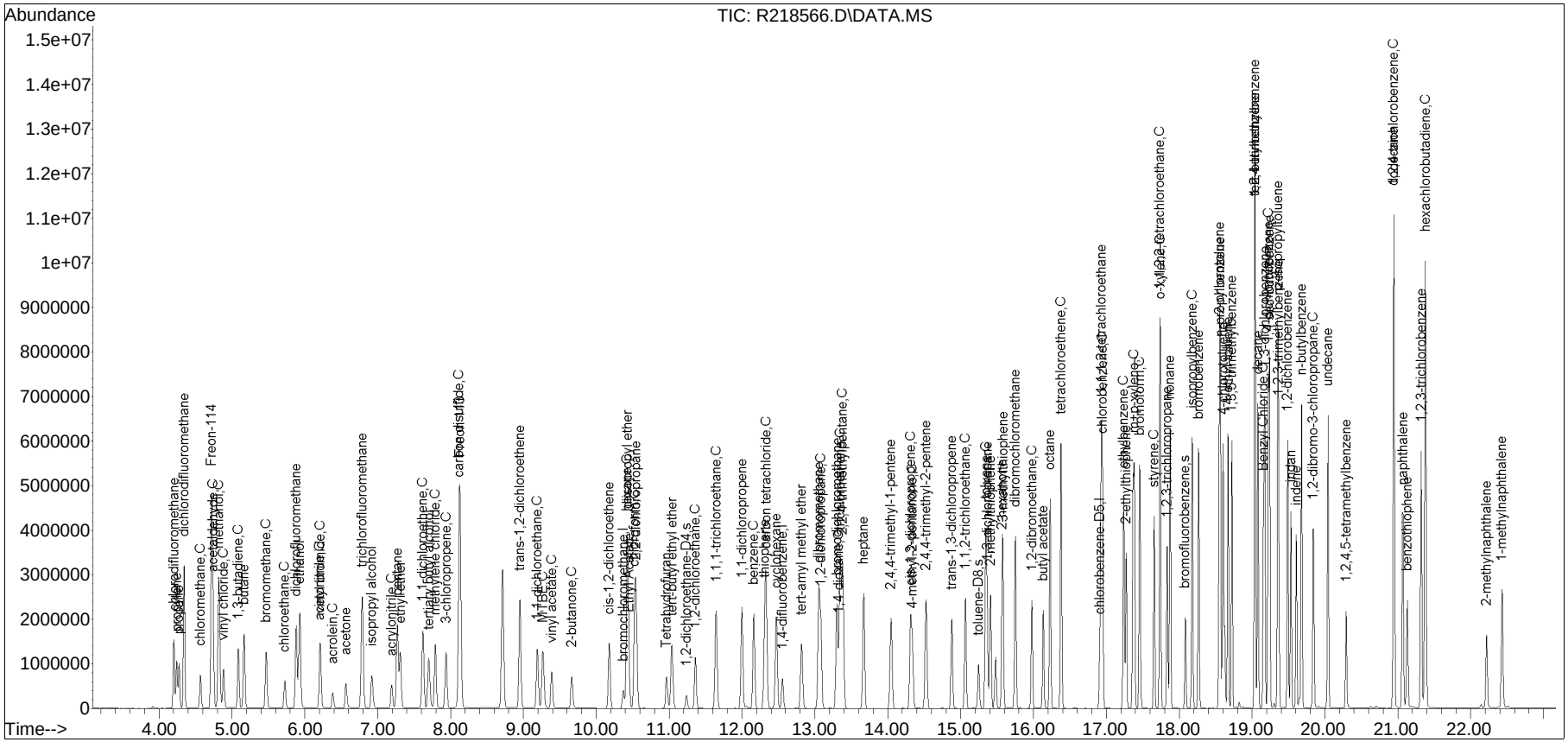
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD50.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:50:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

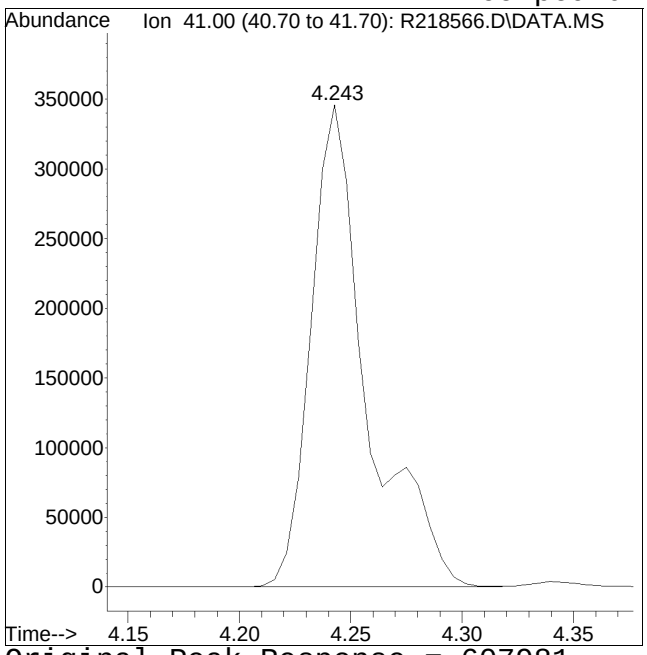


Manual Integration/Negative Proof Report

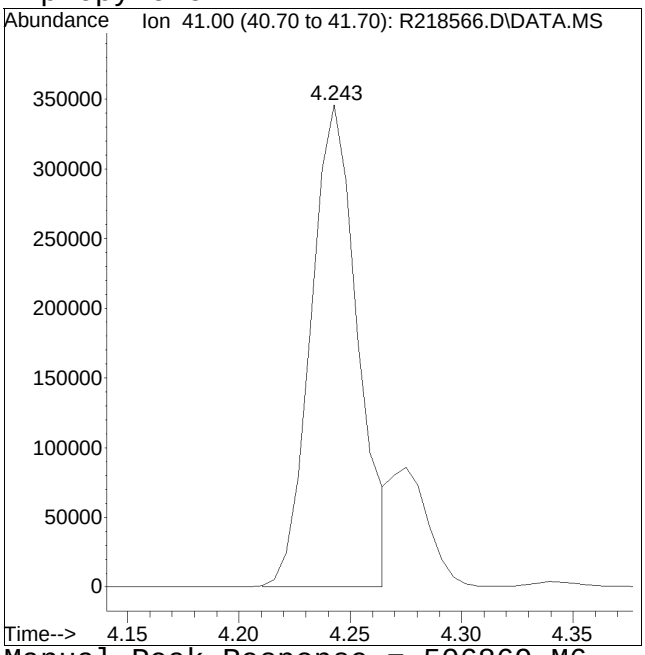
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218566.D
Date Inj'd : 12/21/2011 10:51 pm
Sample : ITO15-LLSTD50.0

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:48 am

Compound #3: propylene



Original Peak Response = 607981



Manual Peak Response = 506869 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218567.D
Acq On : 21 Dec 2011 11:27 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD100.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:48:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.373	49	176376	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	493078	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	119161	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.238	65	166929	9.783	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.83%			
70) toluene-D8	15.246	98	492455	10.125	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.25%			
91) bromofluorobenzene	18.087	95	405639	11.264	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.64%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	2510314	100.664	ppbV	94
3) propylene	4.243	41	970226	97.787	ppbV	99
4) propane	4.275	29	1035997	95.984	ppbV	98
5) dichlorodifluoromethane	4.345	85	4455192	97.685	ppbV	100
6) chloromethane	4.565	50	1323195	93.142	ppbV	95
7) Freon-114	4.721	85	4678477	98.974	ppbV	94
8) methanol	4.828	31	4716580	405.137	ppbV	96
9) vinyl chloride	4.888	62	1550111	94.628	ppbV	99
10) 1,3-butadiene	5.092	54	1076672	97.713	ppbV	99
11) butane	5.167	43	2454435	93.002	ppbV	98
12) acetaldehyde	4.742	29	1605671	392.492	ppbV	96
13) bromomethane	5.469	94	1518307	92.616	ppbV	99
14) chloroethane	5.729	64	666709	93.317	ppbV	98
15) ethanol	5.945	31	3793943	415.466	ppbV	96
16) dichlorofluoromethane	5.886	67	3695892	91.613	ppbV #	100
17) vinyl bromide	6.216	106	1496048	92.177	ppbV	100
18) acrolein	6.383	56	467519	90.056	ppbV	96
19) acetone	6.565	43	1480751	77.116	ppbV #	98
20) acetonitrile	6.211	41	964104	80.328	ppbV	96
21) trichlorofluoromethane	6.790	101	4184500	90.102	ppbV	97
22) isopropyl alcohol	6.925	45	1819932	87.550	ppbV	99
23) acrylonitrile	7.200	53	854757	84.547	ppbV	97
24) pentane	7.271	43	2547229	96.455	ppbV	97
25) ethyl ether	7.312	31	1403649	80.854	ppbV	98
26) 1,1-dichloroethene	7.624	61	2307484	89.592	ppbV	99
27) tertiary butyl alcohol	7.702	59	2566874	90.289	ppbV	96
28) methylene chloride	7.791	49	1608175	86.729	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218567.D
Acq On : 21 Dec 2011 11:27 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD100.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:48:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	3-chloropropene	7.940	41	1792104	89.993	ppbV		95
30)	carbon disulfide	8.123	76	4320105	91.928	ppbV		94
31)	Freon 113	8.128	101	3179693	91.619	ppbV		91
32)	trans-1,2-dichloroethene	8.953	61	2892381	91.360	ppbV		95
33)	1,1-dichloroethane	9.194	63	2559023	88.233	ppbV		99
34)	MTBE	9.266	73	2954881	81.681	ppbV		97
35)	vinyl acetate	9.392	43	2203423	84.516	ppbV		98
36)	2-butanone	9.664	43	1920972	77.077	ppbV		96
37)	cis-1,2-dichloroethene	10.182	61	1777362	78.730	ppbV		96
38)	Ethyl Acetate	10.449	61	307817	94.776	ppbV	#	57
39)	chloroform	10.532	83	2982103	100.312	ppbV		98
40)	Tetrahydrofuran	10.964	42	1214279	102.247	ppbV		97
41)	2,2-dichloropropane	10.551	77	2811805	101.711	ppbV		94
42)	1,2-dichloroethane	11.364	62	1896241	96.055	ppbV		98
44)	hexane	10.430	57	2099950	115.389	ppbV	#	60
45)	diisopropyl ether	10.430	87	907121	106.718	ppbV	#	81
46)	tert-butyl ethyl ether	11.039	59	3118093	94.755	ppbV		99
48)	1,1,1-trichloroethane	11.645	97	3013179	107.262	ppbV		100
49)	1,1-dichloropropene	12.005	75	2164711	106.678	ppbV		98
50)	benzene	12.168	78	3825885	105.594	ppbV		99
51)	thiophene	12.318	84	2339406	107.134	ppbV		95
52)	carbon tetrachloride	12.331	117	3541749	115.023	ppbV		100
53)	cyclohexane	12.474	56	1993054	107.874	ppbV		94
54)	tert-amyl methyl ether	12.821	73	2951250	97.766	ppbV		96
55)	dibromomethane	13.058	93	1947869	110.148	ppbV	#	86
56)	1,2-dichloropropane	13.089	63	1472016	110.972	ppbV		98
57)	bromodichloromethane	13.304	83	3313566	113.865	ppbV		99
58)	1,4-dioxane	13.327	88	740438	102.854	ppbV	#	76
59)	trichloroethene	13.350	130	2167456	115.114	ppbV		97
60)	2,2,4-trimethylpentane	13.388	57	6670130	110.761	ppbV		99
61)	heptane	13.673	43	2344797	107.059	ppbV	#	97
62)	2,4,4-trimethyl-1-pentene	14.050	57	3074200	101.253	ppbV		98
63)	cis-1,3-dichloropropene	14.314	75	2288146	118.225	ppbV		98
64)	4-methyl-2-pentanone	14.342	43	2313889	97.347	ppbV		96
65)	2,4,4-trimethyl-2-pentene	14.527	55	1982940	106.600	ppbV		93
66)	trans-1,3-dichloropropene	14.884	75	2282057	122.370	ppbV		99
67)	1,1,2-trichloroethane	15.068	97	1653508	115.003	ppbV		96
69)	toluene	15.347	91	5283077	98.501	ppbV		100
71)	2-methylthiophene	15.412	97	3682862	92.457	ppbV	#	100
72)	1,3-dichloropropane	15.371	76	2464178	96.855	ppbV		95
73)	2-hexanone	15.570	43	2303381	87.019	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218567.D
Acq On : 21 Dec 2011 11:27 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD100.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:48:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.581	97	3635344	96.655	ppbV		98
75)	dibromochloromethane	15.752	129	3721396	103.244	ppbV		97
76)	1,2-dibromoethane	15.984	107	2930177	103.733	ppbV		96
77)	butyl acetate	16.134	73	413629	88.040	ppbV		75
78)	octane	16.232	85	1631625	102.645	ppbV		83
79)	tetrachloroethene	16.382	166	3174176	100.881	ppbV		92
80)	1,1,1,2-tetrachloroethane	16.936	131	2675774	102.196	ppbV		98
81)	chlorobenzene	16.952	112	4519815	106.258	ppbV		98
82)	ethylbenzene	17.243	91	6203809	99.493	ppbV		98
83)	2-ethylthiophene	17.273	97	4088718	97.273	ppbV		95
84)	m+p-xylene	17.385	91	10091746	204.519	ppbV		99
85)	bromoform	17.461	173	4362677	107.164	ppbV		98
86)	styrene	17.660	104	3813633	103.093	ppbV		99
87)	1,1,2,2-tetrachloroethane	17.741	83	3597090	96.476	ppbV		99
88)	o-xylene	17.746	91	5504605	97.692	ppbV		99
89)	1,2,3-trichloropropane	17.838	75	2982983	96.158	ppbV		97
90)	nonane	17.878	43	3668362	92.736	ppbV		88
92)	isopropylbenzene	18.179	105	7167136	100.299	ppbV		98
93)	bromobenzene	18.266	77	3311980	83.269	ppbV	#	83
94)	2-chlorotoluene	18.545	126	2232869	106.262	ppbV		75
95)	n-propylbenzene	18.562	120	2230989	110.084	ppbV	#	58
96)	4-chlorotoluene	18.599	91	5814919	105.812	ppbV		96
97)	4-ethyl toluene	18.666	105	7262850	106.035	ppbV		97
98)	1,3,5-trimethylbenzene	18.719	105	5943383	107.550	ppbV		99
99)	tert-butylbenzene	19.037	119	6279282	96.831	ppbV		100
100)	1,2,4-trimethylbenzene	19.037	105	5631043	99.322	ppbV		96
101)	decane	19.078	57	3947078	105.765	ppbV		92
102)	Benzyl Chloride	19.155	91	5396772	122.391	ppbV		98
103)	1,3-dichlorobenzene	19.171	146	4971335	112.161	ppbV		98
104)	1,4-dichlorobenzene	19.219	146	4960130	113.571	ppbV		99
105)	sec-butylbenzene	19.238	105	8942030	101.111	ppbV		94
106)	1,2,3-trimethylbenzene	19.363	105	4119632	104.077	ppbV		98
107)	p-isopropyltoluene	19.350	119	7737959	102.036	ppbV		97
108)	1,2-dichlorobenzene	19.488	146	4537352	110.301	ppbV		98
109)	n-butylbenzene	19.677	91	7816337	115.870	ppbV		95
110)	indan	19.533	117	4266357	105.025	ppbV		98
111)	indene	19.606	115	3802625	109.976	ppbV		98
112)	1,2-dibromo-3-chloropr...	19.838	75	1830430	108.952	ppbV	#	86
113)	undecane	20.043	57	3985090	115.211	ppbV		91
114)	1,2,4,5-tetramethylben...	20.292	119	2233936	110.044	ppbV	#	98
115)	dodecane	20.943	57	3617575	122.077	ppbV		90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218567.D
Acq On : 21 Dec 2011 11:27 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD100.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:48:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.943	180	4027234	120.115	ppbV	99
117) naphthalene	21.071	128	8369631	122.860	ppbV	98
118) 1,2,3-trichlorobenzene	21.320	180	4279619	126.718	ppbV	97
119) benzothiophene	21.131	134	4071219	157.284	ppbV	100
120) hexachlorobutadiene	21.380	225	4245998	115.609	ppbV #	89
121) 2-methylnaphthalene	22.216	142	2170023	224.038	ppbV	99
122) 1-methylnaphthalene	22.429	142	3528972	240.969	ppbV	100

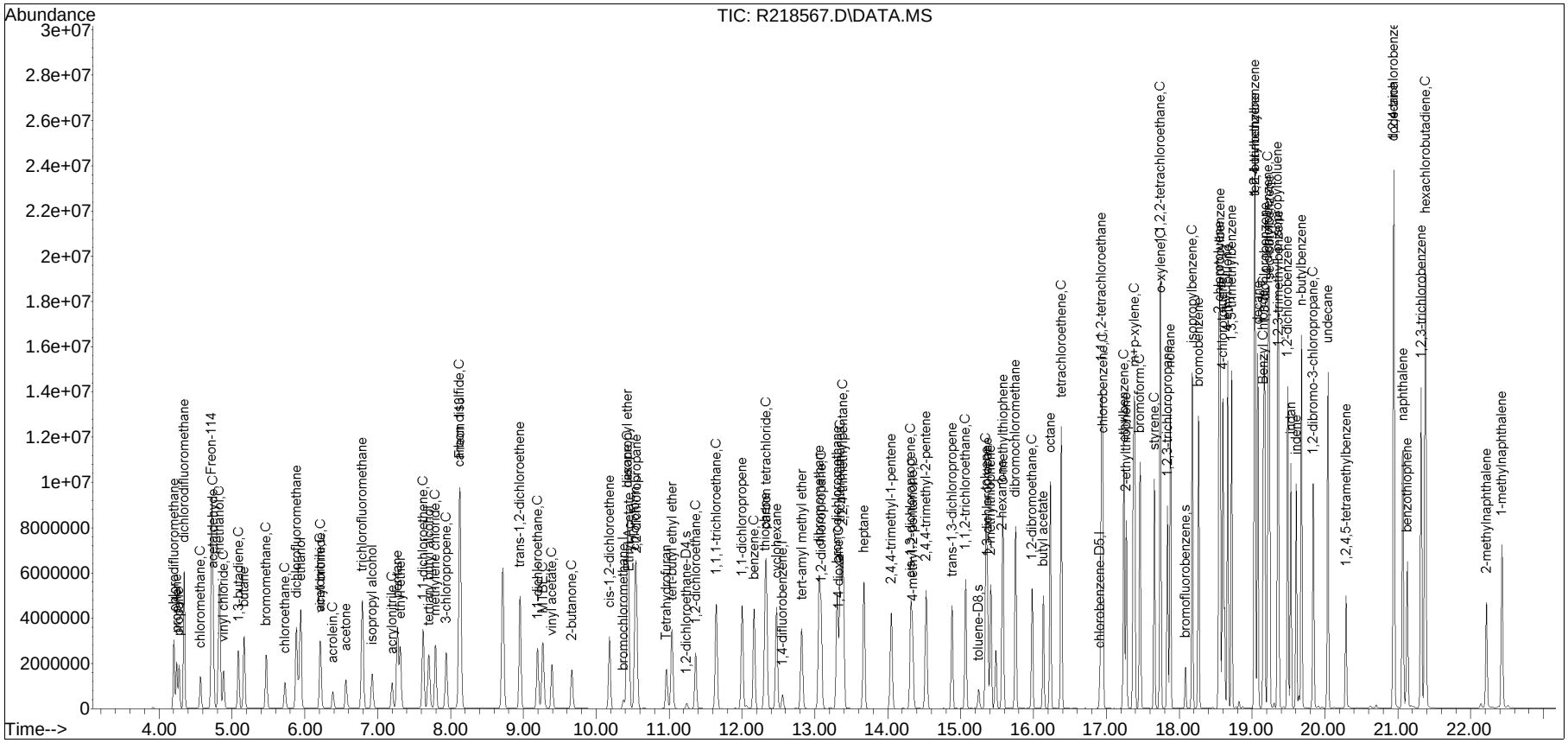
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218567.D
Acq On : 21 Dec 2011 11:27 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD100.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:48:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TALL111221.M
Data File	: R218567.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/21/2011 11:27 pm	Instrument	: Air Piano 2
Sample	: ITO15-LLSTD100.0	Quant Date	: 12/22/2011 8:48 am

There are no manual integrations or false positives in this file.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	89	0.00
2		chlorodifluoromethane	1.341	1.349	-0.6	85	0.00
3		propylene	0.549	0.593	-8.0	94	0.00
4		propane	0.620	0.579	6.6	84	0.00
5		dichlorodifluoromethane	2.467	2.645	-7.2	91	0.00
6	C	chloromethane	0.767	0.810	-5.6	89	0.00
7		Freon-114	2.603	2.861	-9.9	95	0.00
8	C	methanol	0.623	0.235	62.3#	32#	0.00
9	C	vinyl chloride	0.870	0.950	-9.2	91	0.00
10	C	1,3-butadiene	0.597	0.658	-10.2	94	0.00
11		butane	1.431	1.490	-4.1	89	0.00
13	C	bromomethane	0.891	0.966	-8.4	92	0.00
14	C	chloroethane	0.389	0.417	-7.2	92	0.00
15		ethanol	0.482	0.480	0.4	82	0.00
16		dichlorofluoromethane	2.191	2.203	-0.5	86	0.00
17	C	vinyl bromide	0.850	0.990	-16.5	96	0.00
18	C	acrolein	0.265	0.255	3.8	77	0.00
19		acetone	1.033	0.994	3.8	81	0.00
20	C	acetonitrile	0.708	0.563	20.5	74	0.00
21		trichlorofluoromethane	2.529	2.869	-13.4	97	0.00
22		isopropyl alcohol	1.143	0.970	15.1	73	0.00
23	C	acrylonitrile	0.515	0.491	4.7	76	0.00
24		pentane	1.487	1.516	-2.0	90	0.00
25		ethyl ether	0.864	0.817	5.4	74	0.00
26	C	1,1-dichloroethene	1.403	1.615	-15.1	98	0.00
27		tertiary butyl alcohol	1.505	1.607	-6.8	89	0.00
28	C	methylene chloride	1.046	1.103	-5.4	93	0.00
29	C	3-chloropropene	1.102	1.042	5.4	82	0.00
30	C	carbon disulfide	2.447	1.797	26.6	60#	0.00
31		Freon 113	1.877	2.121	-13.0	96	0.00
32		trans-1,2-dichloroethene	1.694	1.522	10.2	75	0.00
33	C	1,1-dichloroethane	1.516	1.595	-5.2	86	0.00
34	C	MTBE	1.778	1.902	-7.0	82	0.00
35	C	vinyl acetate	1.280	1.353	-5.7	81	0.00
36	C	2-butanone	1.286	1.130	12.1	71	0.00
37		cis-1,2-dichloroethene	1.073	1.064	0.8	74	0.00
38		Ethyl Acetate	0.149	0.178	-19.5	86	0.00
39	C	chloroform	1.560	1.700	-9.0	90	0.00
40		Tetrahydrofuran	0.643	0.631	1.9	83	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	1.437	1.437	0.0	81	0.00
42	C	1,2-dichloroethane	1.031	1.098	-6.5	87	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.00
44	C	hexane	0.369	0.381	-3.3	90	0.00
45		diisopropyl ether	0.161	0.160	0.6	81	0.00
46		tert-butyl ethyl ether	0.603	0.608	-0.8	80	0.00
47	s	1,2-dichloroethane-D4	0.410	0.359	12.4	90	0.00
48	C	1,1,1-trichloroethane	0.556	0.610	-9.7	93	0.00
49		1,1-dichloropropene	0.405	0.432	-6.7	92	0.00
50	C	benzene	0.720	0.712	1.1	85	0.00
52	C	carbon tetrachloride	0.614	0.688	-12.1	96	0.00
53		cyclohexane	0.381	0.412	-8.1	96	0.00
54		tert-amyl methyl ether	0.553	0.577	-4.3	82	0.00
55		dibromomethane	0.352	0.354	-0.6	86	0.00
56	C	1,2-dichloropropane	0.255	0.258	-1.2	84	0.00
57		bromodichloromethane	0.562	0.598	-6.4	88	0.00
58	C	1,4-dioxane	0.135	0.150	-11.1	90	0.00
59	C	trichloroethene	0.377	0.408	-8.2	93	0.00
60	C	2,2,4-trimethylpentane	1.191	1.269	-6.5	91	0.00
61		heptane	0.440	0.456	-3.6	90	0.00
62		2,4,4-trimethyl-1-pentene	0.570	0.641	-12.5	91	0.00
63	C	cis-1,3-dichloropropene	0.364	0.406	-11.5	90	0.00
64	C	4-methyl-2-pentanone	0.454	0.506	-11.5	92	0.00
65		2,4,4-trimethyl-2-pentene	0.364	0.385	-5.8	89	0.00
66		trans-1,3-dichloropropene	0.351	0.337	4.0	78	0.00
67	C	1,1,2-trichloroethane	0.284	0.301	-6.0	90	0.00
68	I	chlorobenzene-D5	1.000	1.000	0.0	94	0.00
69	C	toluene	4.045	3.937	2.7	83	0.00
70	s	toluene-D8	4.776	4.164	12.8	96	0.00
72		1,3-dichloropropane	1.816	1.656	8.8	73	0.00
73		2-hexanone	1.992	1.971	1.1	84	0.00
75		dibromochloromethane	2.586	2.685	-3.8	84	0.00
76	C	1,2-dibromoethane	2.144	2.182	-1.8	87	0.00
77		butyl acetate	0.328	0.345	-5.2	83	0.00
78		octane	1.196	1.172	2.0	83	0.00
79	C	tetrachloroethene	2.450	2.524	-3.0	90	0.00
80		1,1,1,2-tetrachloroethane	1.956	1.900	2.9	82	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	C	chlorobenzene	3.238	3.305	-2.1	87	0.00
82	C	ethylbenzene	4.526	4.636	-2.4	84	0.00
84	C	m+p-xylene	3.562	3.622	-1.7	83	0.00
85	C	bromoform	2.752	2.952	-7.3	81	0.00
86	C	styrene	2.608	2.770	-6.2	84	0.00
87	C	1,1,2,2-tetrachloroethane	2.588	2.765	-6.8	83	0.00
88	C	o-xylene	3.811	3.864	-1.4	77	0.00
89		1,2,3-trichloropropane	2.226	2.185	1.8	79	0.00
90		nonane	2.767	2.630	5.0	75	0.00
91	s	bromofluorobenzene	3.652	3.369	7.7	105	0.00
92	C	isopropylbenzene	5.170	5.061	2.1	80	0.00
93		bromobenzene	2.745	2.692	1.9	76	0.00
94		2-chlorotoluene	1.513	1.466	3.1	78	0.00
95		n-propylbenzene	1.413	1.421	-0.6	79	0.00
96		4-chlorotoluene	3.879	3.852	0.7	79	0.00
97		4-ethyl toluene	4.775	5.210	-9.1	85	0.00
98		1,3,5-trimethylbenzene	3.926	4.130	-5.2	84	0.00
99		tert-butylbenzene	4.369	4.509	-3.2	78	-0.01
100		1,2,4-trimethylbenzene	3.767	4.151	-10.2	82	-0.01
101		decane	2.477	2.458	0.8	74	-0.01
102	C	Benzyl Chloride	2.660	3.160	-18.8	81	-0.01
103		1,3-dichlorobenzene	3.091	3.227	-4.4	82	-0.01
104	C	1,4-dichlorobenzene	3.082	3.225	-4.6	83	-0.01
105		sec-butylbenzene	5.961	6.065	-1.7	77	-0.01
107		p-isopropyltoluene	5.021	4.988	0.7	74	-0.01
108		1,2-dichlorobenzene	2.864	3.022	-5.5	83	-0.01
109		n-butylbenzene	4.479	4.824	-7.7	80	0.00
112	C	1,2-dibromo-3-chloropropane	1.085	1.221	-12.5	82	0.00
113		undecane	2.279	2.433	-6.8	79	0.00
115		dodecane	1.937	2.256	-16.5	86	0.00
116	C	1,2,4-trichlorobenzene	2.060	2.426	-17.8	81	0.00
117		naphthalene	4.571	4.801	-5.0	79	0.00
118		1,2,3-trichlorobenzene	2.249	2.374	-5.6	79	0.00
120	C	hexachlorobutadiene	2.293	2.668	-16.4	82	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : Default-ICV - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	157288	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.549	114	464465	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	105475	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.234	65	166694	8.746	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	87.46%	
70) toluene-D8	15.246	98	439158	8.717	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	87.17%	
91) bromofluorobenzene	18.082	95	355328	9.225	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	92.25%	
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	212114	10.053	ppbV	96
3) propylene	4.243	41	93272M6	10.792	ppbV	
4) propane	4.275	29	91144	9.340	ppbV	98
5) dichlorodifluoromethane	4.345	85	416101	10.721	ppbV	99
6) chloromethane	4.571	50	127348	10.559	ppbV	94
7) Freon-114	4.726	85	450056	10.991	ppbV	92
8) methanol	4.818	31	185155	18.906	ppbV	94
9) vinyl chloride	4.888	62	149491	10.928	ppbV	98
10) 1,3-butadiene	5.092	54	103538	11.021	ppbV	95
11) butane	5.167	43	234336	10.409	ppbV	97
13) bromomethane	5.473	94	151863	10.830	ppbV	100
14) chloroethane	5.729	64	65611	10.718	ppbV	99
15) ethanol	5.928	31	377228	49.740	ppbV	99
16) dichlorofluoromethane	5.882	67	346429	10.054	ppbV	98
17) vinyl bromide	6.211	106	155688	11.646	ppbV	99
18) acrolein	6.388	56	40156	9.629	ppbV	96
19) acetone	6.574	43	156418	9.627	ppbV #	100
20) acetonitrile	6.211	41	88538	7.950	ppbV	98
21) trichlorofluoromethane	6.790	101	451249	11.343	ppbV	97
22) isopropyl alcohol	6.935	45	152497	8.482	ppbV	99
23) acrylonitrile	7.195	53	77303	9.550	ppbV	98
24) pentane	7.271	43	238513	10.195	ppbV	98
25) ethyl ether	7.317	31	128579	9.460	ppbV	98
26) 1,1-dichloroethene	7.618	61	253985	11.512	ppbV	99
27) tertiary butyl alcohol	7.726	59	252833	10.682	ppbV	97
28) methylene chloride	7.791	49	173467	10.546	ppbV	94
29) 3-chloropropene	7.935	41	163918	9.458	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : Default-ICV - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) carbon disulfide	8.119	76	282694	7.346	ppbV	97
31) Freon 113	8.128	101	333596	11.298	ppbV	92
32) trans-1,2-dichloroethene	8.949	61	239463	8.990	ppbV	98
33) 1,1-dichloroethane	9.190	63	250946	10.523	ppbV	99
34) MTBE	9.274	73	299120	10.696	ppbV	100
35) vinyl acetate	9.388	43	212866	10.576	ppbV	98
36) 2-butanone	9.667	43	177729	8.788	ppbV	98
37) cis-1,2-dichloroethene	10.175	61	167372	9.922	ppbV	94
38) Ethyl Acetate	10.450	61	27958	11.940	ppbV	65
39) chloroform	10.520	83	267467	10.898	ppbV	97
40) Tetrahydrofuran	10.974	42	99212	9.805	ppbV	96
41) 2,2-dichloropropane	10.545	77	225994	10.001	ppbV	99
42) 1,2-dichloroethane	11.359	62	172717	10.648	ppbV	97
44) hexane	10.424	57	176804	10.305	ppbV #	62
45) diisopropyl ether	10.430	87	74460	9.975	ppbV #	86
46) tert-butyl ethyl ether	11.043	59	282601	10.093	ppbV	99
48) 1,1,1-trichloroethane	11.643	97	283493	10.975	ppbV	99
49) 1,1-dichloropropene	11.998	75	200823	10.687	ppbV	92
50) benzene	12.161	78	330880	9.901	ppbV	99
52) carbon tetrachloride	12.325	117	319514	11.199	ppbV	98
53) cyclohexane	12.468	56	191137	10.809	ppbV	97
54) tert-amyl methyl ether	12.821	73	268186	10.434	ppbV	99
55) dibromomethane	13.051	93	164330	10.048	ppbV #	87
56) 1,2-dichloropropane	13.082	63	119762	10.124	ppbV #	92
57) bromodichloromethane	13.296	83	277836	10.647	ppbV	99
58) 1,4-dioxane	13.335	88	69870	11.143	ppbV #	77
59) trichloroethene	13.342	130	189507	10.832	ppbV	94
60) 2,2,4-trimethylpentane	13.381	57	589303	10.650	ppbV	96
61) heptane	13.669	43	211742	10.362	ppbV	100
62) 2,4,4-trimethyl-1-pentene	14.045	57	297497	11.244	ppbV	100
63) cis-1,3-dichloropropene	14.310	75	188472	11.144	ppbV	92
64) 4-methyl-2-pentanone	14.342	43	235032	11.155	ppbV	99
65) 2,4,4-trimethyl-2-pentene	14.521	55	178814	10.570	ppbV	95
66) trans-1,3-dichloropropene	14.878	75	156613	9.603	ppbV	92
67) 1,1,2-trichloroethane	15.062	97	139581	10.595	ppbV	94
69) toluene	15.341	91	415305	9.735	ppbV	99
72) 1,3-dichloropropane	15.359	76	174692	9.119	ppbV #	98
73) 2-hexanone	15.575	43	207940	9.897	ppbV	96
75) dibromochloromethane	15.746	129	283148	10.380	ppbV	98
76) 1,2-dibromoethane	15.974	107	230170	10.178	ppbV	96
77) butyl acetate	16.139	73	36437	10.522	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : Default-ICV - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	octane	16.228	85	123643	9.803	ppbV		91
79)	tetrachloroethene	16.377	166	266218	10.303	ppbV		91
80)	1,1,1,2-tetrachloroethane	16.930	131	200400	9.713	ppbV		99
81)	chlorobenzene	16.941	112	348633	10.208	ppbV		98
82)	ethylbenzene	17.238	91	488962	10.243	ppbV		99
84)	m+p-xylene	17.380	91	764044	20.337	ppbV		99
85)	bromoform	17.456	173	311358	10.726	ppbV		99
86)	styrene	17.655	104	292142	10.619	ppbV		99
87)	1,1,2,2-tetrachloroethane	17.736	83	291658	10.684	ppbV		99
88)	o-xylene	17.736	91	407538	10.137	ppbV		98
89)	1,2,3-trichloropropane	17.833	75	230499	9.815	ppbV		94
90)	nonane	17.873	43	277402	9.505	ppbV		98
92)	isopropylbenzene	18.174	105	533819	9.789	ppbV		99
93)	bromobenzene	18.261	77	283991	9.809	ppbV	#	83
94)	2-chlorotoluene	18.538	126	154645	9.693	ppbV		98
95)	n-propylbenzene	18.552	120	149894	10.059	ppbV		90
96)	4-chlorotoluene	18.589	91	406270	9.929	ppbV		98
97)	4-ethyl toluene	18.656	105	549551	10.912	ppbV		99
98)	1,3,5-trimethylbenzene	18.706	105	435593	10.518	ppbV		99
99)	tert-butylbenzene	19.018	119	475580	10.320	ppbV		98
100)	1,2,4-trimethylbenzene	19.018	105	437829	11.020	ppbV		99
101)	decane	19.059	57	259268	9.924	ppbV		100
102)	Benzyl Chloride	19.136	91	333285	11.878	ppbV		99
103)	1,3-dichlorobenzene	19.152	146	340378	10.439	ppbV		98
104)	1,4-dichlorobenzene	19.203	146	340145	10.463	ppbV		97
105)	sec-butylbenzene	19.222	105	639744	10.175	ppbV		99
107)	p-isopropyltoluene	19.334	119	526074	9.933	ppbV		99
108)	1,2-dichlorobenzene	19.472	146	318775	10.552	ppbV		97
109)	n-butylbenzene	19.664	91	508782	10.769	ppbV		98
112)	1,2-dibromo-3-chloropr...	19.829	75	128733	11.244	ppbV		95
113)	undecane	20.026	57	256601	10.674	ppbV		98
115)	dodecane	20.934	57	237966	11.648	ppbV		96
116)	1,2,4-trichlorobenzene	20.934	180	255839	11.773	ppbV		100
117)	naphthalene	21.054	128	506392	10.504	ppbV		99
118)	1,2,3-trichlorobenzene	21.311	180	250448	10.557	ppbV		99
120)	hexachlorobutadiene	21.371	225	281422	11.637	ppbV		95

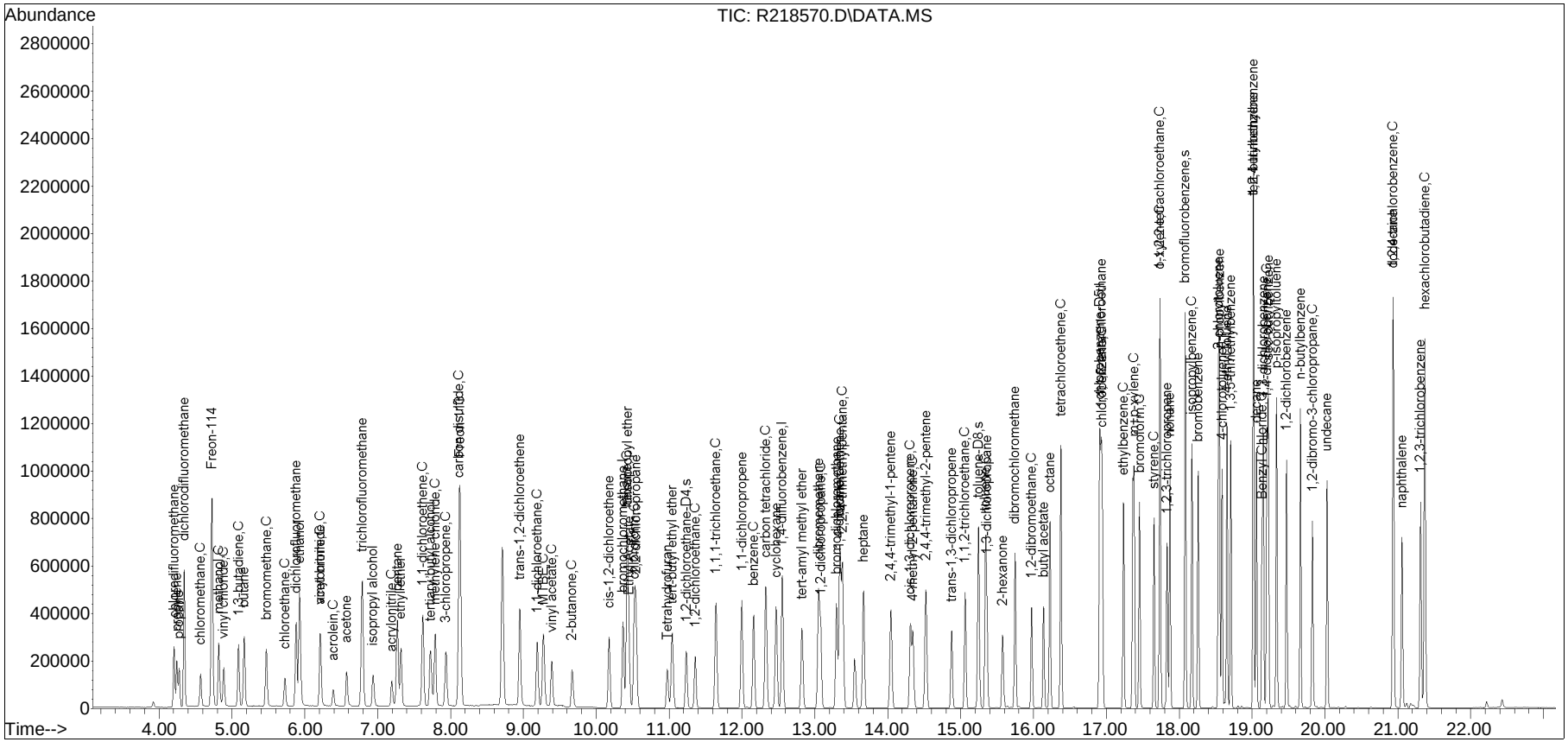
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : Default-ICV - All compounds listed

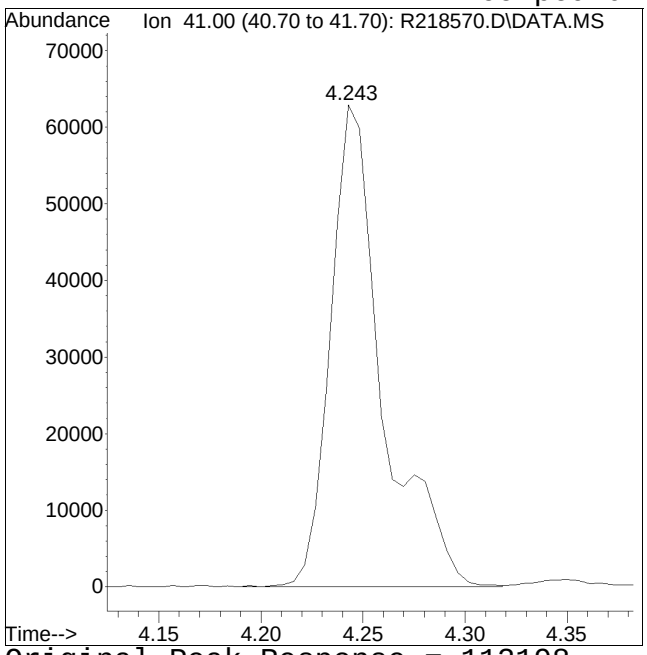


Manual Integration/Negative Proof Report

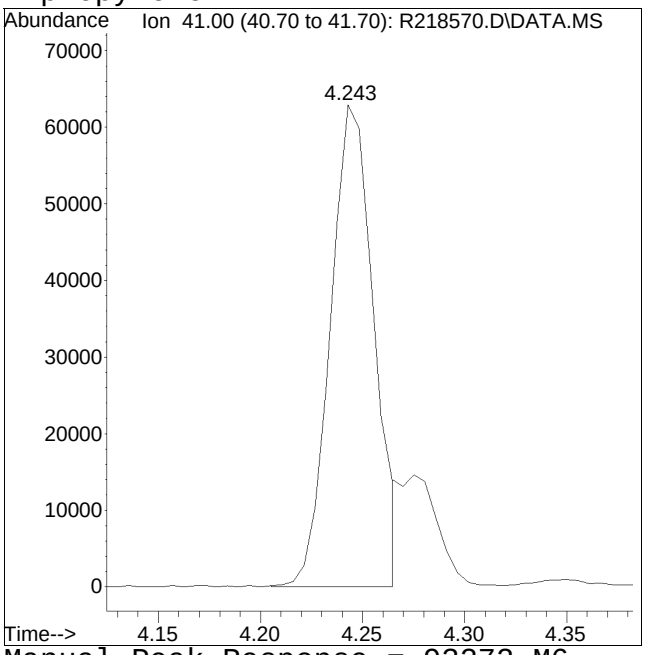
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218570.D
Date Inj'd : 12/22/2011 1:19 am
Sample : CTO15-LLSTD10

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 9:11 am

Compound #3: propylene



Original Peak Response = 112198



Manual Peak Response = 93272 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jan 25 2012, 03:40 pm

Work Group: WG511601 for Department: 3 GC/MS

Created: 03-JAN-12 Due: Operator: mb

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1200005-01	C-28	S	MCP-TO15	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-02	B-28	S	MCP-TO15	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-03	A-28	S	MCP-TO15	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-04	BG-28	S	MCP-TO15	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-05	BG-28-DUP	S	MCP-TO15	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-06	TB-28	S	MCP-TO15	AIR	DONE	U	0128	0116	S0	Can-6
L1200006-01	VS-1-28	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-02	VS-4-28	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-03	VS-12-28	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-04	VS-8-28	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-05	VS-8-28-DUP	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-06	VS-BG-28	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-07	VS-TB-28	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
WG511601-1	MS BFB Tune Standard	S	MCP-TO15	AIR	DONE	U				
WG511601-1	MS BFB Tune Standard	S	MCP-TO15	SOIL_VAPOR	DONE	U				
WG511601-2	Continuing Calibrati	S	MCP-TO15	SOIL_VAPOR	DONE	U				
WG511601-2	Continuing Calibrati	S	MCP-TO15	AIR	DONE	U				
WG511601-3	Laboratory Control S	S	MCP-TO15	SOIL_VAPOR	DONE	U				
WG511601-3	Laboratory Control S	S	MCP-TO15	AIR	DONE	U				
WG511601-4	Laboratory Method Bl	S	MCP-TO15	AIR	DONE	U				
WG511601-4	Laboratory Method Bl	S	MCP-TO15	SOIL_VAPOR	DONE	U				
WG511601-5	Duplicate Sample	S	MCP-TO15	SOIL_VAPOR	DONE	U				
WG511601-5	Duplicate Sample	S	MCP-TO15	AIR	DONE	U				

Comments:

WG511601-5 L1200006-01

Sequence Logs

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

Sequence Name: C:\Smart\111221_TO15ICAL.SEQ
Date: 12-22-2011
Time: 09:47:24
Int. Std Volume: 100 cc

Sample Name	Inlet #	Auto Samp Pos	Cal Std Vol.	Vol.	Method	Time
TA2122102	1	1	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.02	1	5	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.04	1	5	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.1	1	6	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.2	1	6	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.5	1	7	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD1.0	1	7	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD2.5	1	8	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD5.0	1	8	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD10.0	1	9	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD20.0	1	9	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD50.0	1	10	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD100.0	1	10	250	100	C:\Smart\Alpha_To15.MPT	12:00
BA2122101	1	1	250	100	C:\Smart\Alpha_To15.MPT	12:00
BA2122102	1	1	250	100	C:\Smart\Alpha_To15.MPT	12:00
CTO15-LLSTD10.0	1	2	250	100	C:\Smart\Alpha_To15.MPT	12:00
CTO15-SIMSTD5.0	1	2	125	100	C:\Smart\Alpha_To15.MPT	12:00

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AirPiano2

Internal Standard/Surrogate IDs: CSS11-004 CSS10-013

Date: 12/21/11

Internal Standard/Surrogate Volume: 100 mL

Analyst Initials: RY

EM Voltage: 1529

Full Scan ICAL# SIM ICAL# APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Misc Info	Comment
1	TA2122101	TO15_SFS	R218552	250ml	DO NOT USE
2	CTO15-LLSTD10	TO15_SFS	R218553	250ml SS11-040B	DO NOT USE
2	CTO15-SIMSTD5.0	TO15_SFS	R218554	125ml SS11-040B	DO NOT USE
1	TA2122102	TO15_SFS	R218555	250ml	TUNE
5	ITO15-SIMSTD0.02	TO15_SFS	R218556	SS11-036F 125ML 0.02	SIM ONLY
5	ITO15-SIMSTD0.04	TO15_SFS	R218557	SS11-036F 250ML 0.04	SIM ONLY
6	ITO15-SIMSTD0.1	TO15_SFS	R218558	SS11-036E 125ML 0.1	SIM ONLY
6	ITO15-SIMSTD0.2	TO15_SFS	R218559	SS11-036E 250ML 0.2	
7	ITO15-SIMSTD0.5	TO15_SFS	R218560	SS11-036D 125ML 0.5	
7	ITO15-SIMSTD1.0	TO15_SFS	R218561	SS11-036D 250ML 1.0	
8	ITO15-SIMSTD2.5	TO15_SFS	R218562	SS11-036C 125ML 2.5	
8	ITO15-SIMSTD5.0	TO15_SFS	R218563	SS11-036C 250ML 5.0	
9	ITO15-SIMSTD10.0	TO15_SFS	R218564	SS11-036B 125ML 10.0	
9	ITO15-SIMSTD20.0	TO15_SFS	R218565	SS11-036B 250ML 20.0	DID NOT USE FOR FULL SCAN OR SIM
10	ITO15-SIMSTD50.0	TO15_SFS	R218566	SS11-036A 125ML 50.0	
10	ITO15-LLSTD100.0	TO15_SFS	R218567	SS11-036A 250ML 100.0	NOT USED FOR SIM
1	BA2122101	TO15_SFS	R218568	250ml	
1	BA2122102	TO15_SFS	R218569	250ml	
2	CTO15-LLSTD10	TO15_SFS	R218570	250ml SS11-040B	LL ICV
2	CTO15-SIMSTD5.0	TO15_SFS	R218571	125ml SS11-040B	SIM ICV

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AirPiano2

Internal Standard/Surrogate IDs: CSS11-004 CSS10-013

Date: 01/05/12

Internal Standard/Surrogate Volume: 100 mL

Analyst Initials: RY/MB

EM Voltage: 1447

Full Scan ICAL# 6480 SIM ICAL# 6481 APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Misc Info	Comment
1	TA2010501	TO15_SFS	R218764	250ml	TUNE
2	CTO15-LLSTD10	TO15_SFS	R218765	250ml SS11-032B	LL LCS FAILED
3	CTO15-SIMSTD5.0	TO15_SFS	R218766	125ml SS11-040D	SIM LCS FAILED
		Pause			
1	TA2010502	TO15_SFS	R218767	250ml	TUNE
2	CTO15-LLSTD10	TO15_SFS	R218768	250ml SS11-032B	LL LCS
		Pause			
3	CTO15-SIMSTD5.0	TO15_SFS	R218769	125ml SS11-040D	SIM LCS
		Pause			
1	BA2010501	TO15_SFS	R218770	250ml	(INST) BLANK
1	BA2010502	TO15_SFS	R218771	250ml	1/30/12 JW ~~INSTRUMENT~~ BLANK
4	L1200005-06,3,250,250	TO15_SFS	R218772	WG511601,ICAL6480	
5	L1200006-07,3,250,250	TO15_SFS	R218773	WG511601,ICAL6480	
6	L1200005-01,3,250,250	TO15_SFS	R218774	WG511601,ICAL6480	
7	L1200005-02,3,250,250	TO15_SFS	R218775	WG511601,ICAL6480	
8	L1200005-03,3,250,250	TO15_SFS	R218776	WG511601,ICAL6480	
9	L1200005-04,3,250,250	TO15_SFS	R218777	WG511601,ICAL6480	
10	L1200005-05,3,250,250	TO15_SFS	R218778	WG511601,ICAL6480	
11	L1200006-01,3,250,250	TO15_SFS	R218779	WG511601,ICAL6480	
11	L1200006-01DUP,3,250,250	TO15_SFS	R218780	WG511601,ICAL6480	MCP-TO15, MCP-TO15-SIM-DUP
12	L1200006-02,3,250,250	TO15_SFS	R218781	WG511601,ICAL6480	

Alpha Analytical Air Lab
Instrument Run Log

13	L1200006-03,3,250,250	TO15_SFS	R218782	WG511601,ICAL6480	
14	L1200006-04,3,250,250	TO15_SFS	R218783	WG511601,ICAL6480	
15	L1200006-05,3,250,250	TO15_SFS	R218784	WG511601,ICAL6480	
16	L1200006-06,3,250,250	TO15_SFS	R218785	WG511601,ICAL6480	

Analytical Event

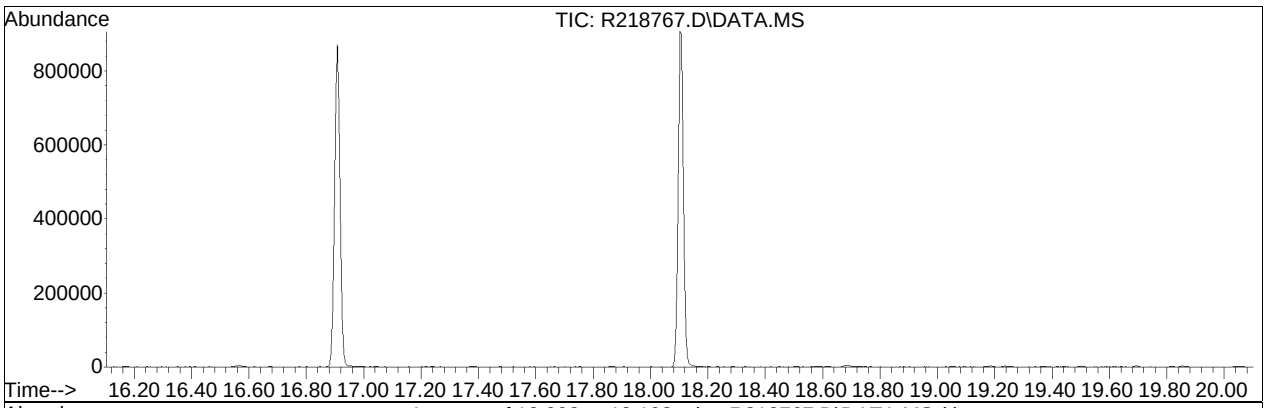
Continuing Calibration
BFB Tune

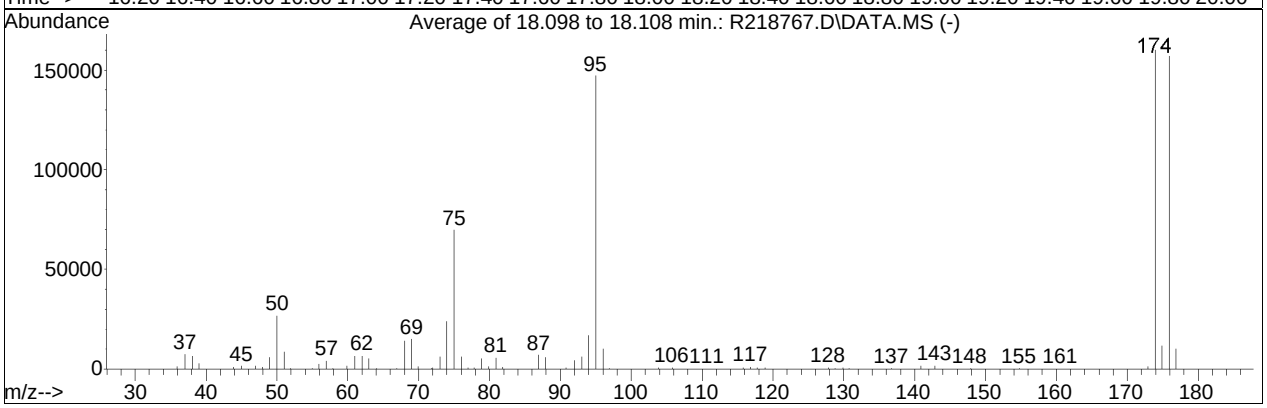
BFB

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218767.D
Acq On : 5 Jan 2012 16:30
Operator : AIRPIANO2:MB
Sample : WG511601-1,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 09:10:18 2011





AutoFind: Scans 3052, 3053, 3054; Background Corrected with Scan 3045

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	26717	PASS
75	95	30	66	47.3	69645	PASS
95	95	100	100	100.0	147171	PASS
96	95	5	9	6.9	10124	PASS
173	174	0.00	2	0.8	1357	PASS
174	95	50	120	108.9	160211	PASS
175	174	4	9	7.4	11798	PASS
176	174	93	101	98.0	157011	PASS
177	176	5	9	6.6	10289	PASS

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-2,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	85	0.00
5		dichlorodifluoromethane	2.467	2.073	16.0	68	-0.01
6	C	chloromethane	0.767	0.603	21.4	64	-0.02
9	C	vinyl chloride	0.870	0.698	19.8	64	-0.02
13	C	bromomethane	0.891	0.731	18.0	67	-0.01
14	C	chloroethane	0.389	0.329	15.4	69	-0.01
19		acetone	1.033	0.970	6.1	76	-0.01
21		trichlorofluoromethane	2.529	2.096	17.1	68	0.00
25		ethyl ether	0.864	0.710	17.8	62	-0.01
26	C	1,1-dichloroethene	1.403	1.160	17.3	68	0.00
28	C	methylene chloride	1.046	0.881	15.8	72	-0.01
30	C	carbon disulfide	2.447	1.931	21.1	62	0.00
32		trans-1,2-dichloroethene	1.694	1.387	18.1	66	-0.01
33	C	1,1-dichloroethane	1.516	1.185	21.8	62	0.00
34	C	MTBE	1.778	1.477	16.9	61	0.00
36	C	2-butanone	1.286	1.119	13.0	68	0.00
37		cis-1,2-dichloroethene	1.073	0.889	17.1	59#	0.00
40		Tetrahydrofuran	0.643	0.620	3.6	79	0.00
41		2,2-dichloropropane	1.437	1.200	16.5	65	0.00
42	C	1,2-dichloroethane	1.031	0.936	9.2	71	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	91	0.00
45		diisopropyl ether	0.161	0.139	13.7	74	0.00
46		tert-butyl ethyl ether	0.603	0.529	12.3	72	0.00
48	C	1,1,1-trichloroethane	0.556	0.464	16.5	74	0.00
49		1,1-dichloropropene	0.405	0.331	18.3	73	0.00
52	C	carbon tetrachloride	0.614	0.507	17.4	74	0.00
54		tert-amyl methyl ether	0.553	0.498	9.9	74	0.00
55		dibromomethane	0.352	0.283	19.6	72	0.00
56	C	1,2-dichloropropane	0.255	0.223	12.5	76	0.00
57		bromodichloromethane	0.562	0.467	16.9	72	0.00
58	C	1,4-dioxane	0.135	0.133	1.5	83	0.00
63	C	cis-1,3-dichloropropene	0.364	0.328	9.9	76	0.00
64	C	4-methyl-2-pentanone	0.454	0.434	4.4	82	0.00
66		trans-1,3-dichloropropene	0.351	0.269	23.4	65	0.00
67	C	1,1,2-trichloroethane	0.284	0.261	8.1	82	0.00
68	I	chlorobenzene-D5	1.000	1.000	0.0	81	0.00
69	C	toluene	4.045	4.132	-2.2	74	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-2,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
72		1,3-dichloropropane	1.816	1.777	2.1	67	0.00
73		2-hexanone	1.992	2.175	-9.2	79	0.00
75		dibromochloromethane	2.586	2.741	-6.0	73	0.00
76	C	1,2-dibromoethane	2.144	2.249	-4.9	77	0.00
80		1,1,1,2-tetrachloroethane	1.956	1.970	-0.7	73	0.00
81	C	chlorobenzene	3.238	3.454	-6.7	78	0.00
82	C	ethylbenzene	4.526	5.018	-10.9	78	0.00
84	C	m+p-xylene	3.562	3.932	-10.4	77	0.00
85	C	bromoform	2.752	2.895	-5.2	69	0.00
86	C	styrene	2.608	2.957	-13.4	77	0.00
87	C	1,1,2,2-tetrachloroethane	2.588	3.045	-17.7	79	0.00
88	C	o-xylene	3.811	4.552	-19.4	78	0.00
89		1,2,3-trichloropropane	2.226	2.510	-12.8	78	0.00
92	C	isopropylbenzene	5.170	5.806	-12.3	79	0.00
93		bromobenzene	2.745	2.733	0.4	66	0.00
94		2-chlorotoluene	1.513	1.655	-9.4	76	0.00
95		n-propylbenzene	1.413	1.643	-16.3	78	0.00
96		4-chlorotoluene	3.879	4.255	-9.7	75	0.00
98		1,3,5-trimethylbenzene	3.926	4.822	-22.8	84	0.00
99		tert-butylbenzene	4.369	5.363	-22.8	80	-0.01
100		1,2,4-trimethylbenzene	3.767	4.888	-29.8	83	-0.01
103		1,3-dichlorobenzene	3.091	3.806	-23.1	83	-0.02
104	C	1,4-dichlorobenzene	3.082	3.768	-22.3	83	-0.02
105		sec-butylbenzene	5.961	7.274	-22.0	79	-0.02
107		p-isopropyltoluene	5.021	6.090	-21.3	78	-0.02
108		1,2-dichlorobenzene	2.864	3.616	-26.3	85	-0.02
109		n-butylbenzene	4.479	5.862	-30.9#	84	-0.02
112	C	1,2-dibromo-3-chloropropane	1.085	1.390	-28.1	80	-0.03
116	C	1,2,4-trichlorobenzene	2.060	3.047	-47.9#	88	-0.03
117		naphthalene	4.571	5.969	-30.6#	85	-0.03
118		1,2,3-trichlorobenzene	2.249	3.307	-47.0#	95	-0.03
120	C	hexachlorobutadiene	2.293	3.388	-47.8#	89	-0.04

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 2

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-2,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	151117	10.000	ppbV	0.00
Standard Area = 151117			Recovery = 100.00%			
43) 1,4-difluorobenzene	12.549	114	485506	10.000	ppbV	0.00
Standard Area = 485506			Recovery = 100.00%			
68) chlorobenzene-D5	16.908	54	90670	10.000	ppbV	0.00
Standard Area = 90670			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	313288	8.402	ppbV	100
6) chloromethane	4.554	50	91175	7.869	ppbV	95
9) vinyl chloride	4.871	62	105483	8.026	ppbV	98
13) bromomethane	5.461	94	110539	8.205	ppbV	98
14) chloroethane	5.716	64	49702	8.451	ppbV	95
19) acetone	6.560	43	146628	9.393	ppbV	94
21) trichlorofluoromethane	6.780	101	316735	8.287	ppbV	98
25) ethyl ether	7.307	31	107359	8.221	ppbV	99
26) 1,1-dichloroethene	7.612	61	175354	8.272	ppbV	98
28) methylene chloride	7.779	49	133076	8.421	ppbV	98
30) carbon disulfide	8.109	76	291779	7.892	ppbV	100
32) trans-1,2-dichloroethene	8.941	61	209662	8.192	ppbV	96
33) 1,1-dichloroethane	9.182	63	179020	7.814	ppbV	98
34) MTBE	9.266	73	223194	8.307	ppbV	99
36) 2-butanone	9.661	43	169147	8.706	ppbV	97
37) cis-1,2-dichloroethene	10.169	61	134292	8.286	ppbV	91
40) Tetrahydrofuran	10.964	42	93667	9.635	ppbV	99
41) 2,2-dichloropropane	10.539	77	181402	8.356	ppbV	96
42) 1,2-dichloroethane	11.350	62	141493	9.079	ppbV	99
45) diisopropyl ether	10.424	87	67691	8.675	ppbV #	87
46) tert-butyl ethyl ether	11.034	59	257004	8.781	ppbV	98
48) 1,1,1-trichloroethane	11.637	97	225293	8.344	ppbV	98
49) 1,1-dichloropropene	11.991	75	160819	8.187	ppbV	96
52) carbon tetrachloride	12.325	117	246324	8.259	ppbV	97
54) tert-amyl methyl ether	12.821	73	241881	9.003	ppbV	95
55) dibromomethane	13.043	93	137325	8.033	ppbV #	87
56) 1,2-dichloropropane	13.074	63	108348	8.762	ppbV	97
57) bromodichloromethane	13.296	83	226724	8.312	ppbV	97
58) 1,4-dioxane	13.334	88	64357	9.819	ppbV #	78
63) cis-1,3-dichloropropene	14.310	75	159024	8.995	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-2,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

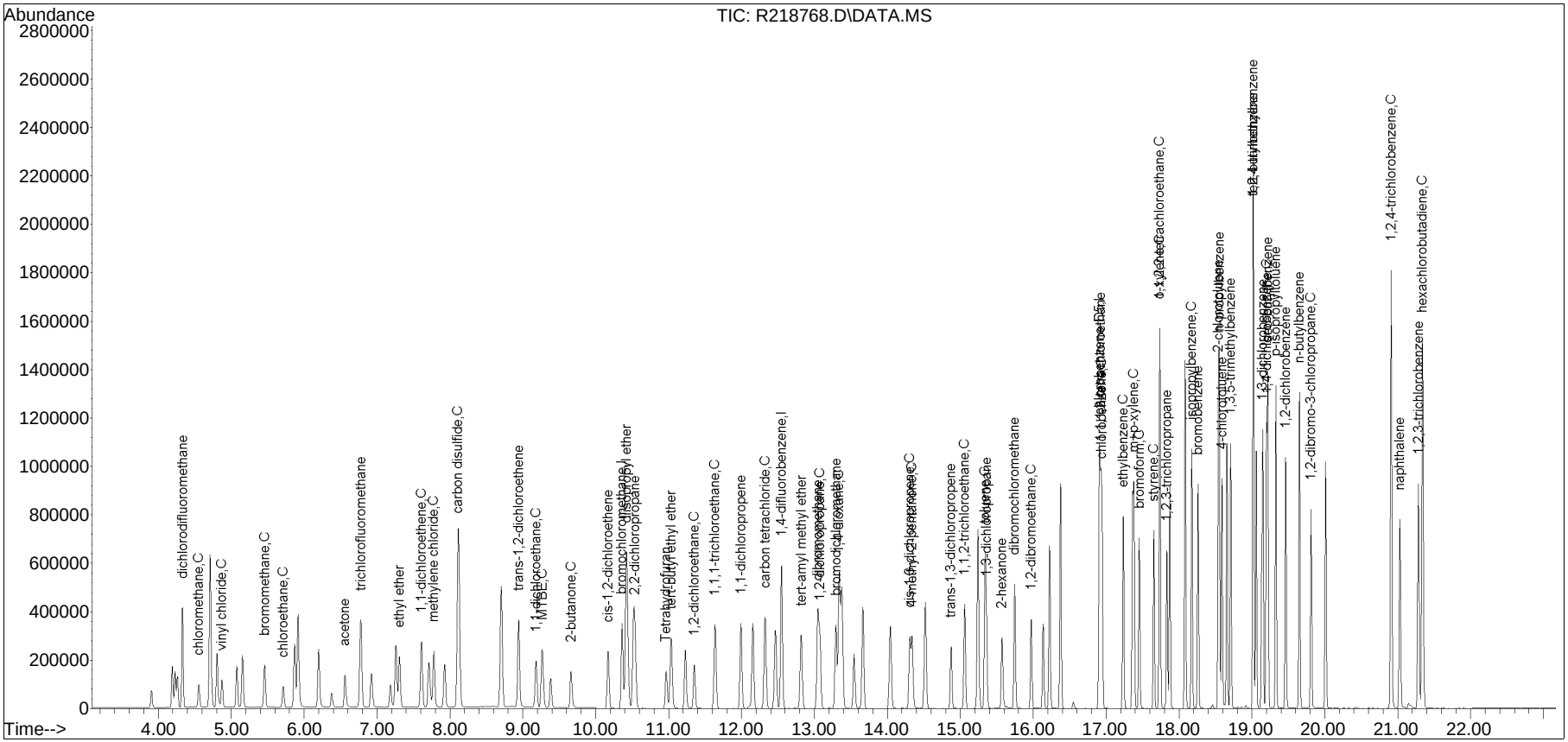
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64)	4-methyl-2-pentanone	14.338	43	210541	9.560	ppbV		96
66)	trans-1,3-dichloropropene	14.872	75	130614	7.662	ppbV		98
67)	1,1,2-trichloroethane	15.062	97	126758	9.205	ppbV		96
69)	toluene	15.341	91	374629	10.216	ppbV		98
72)	1,3-dichloropropane	15.359	76	161151	9.785	ppbV		95
73)	2-hexanone	15.570	43	197201	10.918	ppbV		97
75)	dibromochloromethane	15.746	129	248562	10.600	ppbV		99
76)	1,2-dibromoethane	15.974	107	203889	10.488	ppbV		95
80)	1,1,1,2-tetrachloroethane	16.925	131	178619	10.071	ppbV		95
81)	chlorobenzene	16.941	112	313160	10.667	ppbV		97
82)	ethylbenzene	17.238	91	455016	11.088	ppbV		98
84)	m+p-xylene	17.380	91	713085	22.079	ppbV		97
85)	bromoform	17.456	173	262500	10.520	ppbV		99
86)	styrene	17.654	104	268150	11.339	ppbV		99
87)	1,1,2,2-tetrachloroethane	17.736	83	276116	11.766	ppbV		99
88)	o-xylene	17.736	91	412766	11.944	ppbV		99
89)	1,2,3-trichloropropane	17.832	75	227571	11.273	ppbV		99
92)	isopropylbenzene	18.174	105	526431	11.230	ppbV		99
93)	bromobenzene	18.261	77	247791	9.957	ppbV	#	82
94)	2-chlorotoluene	18.541	126	150040	10.940	ppbV		82
95)	n-propylbenzene	18.552	120	149008	11.632	ppbV		91
96)	4-chlorotoluene	18.588	91	385774	10.968	ppbV		98
98)	1,3,5-trimethylbenzene	18.709	105	437230	12.282	ppbV		98
99)	tert-butylbenzene	19.017	119	486290	12.275	ppbV		98
100)	1,2,4-trimethylbenzene	19.017	105	443159	12.975	ppbV		98
103)	1,3-dichlorobenzene	19.149	146	345088	12.311	ppbV		94
104)	1,4-dichlorobenzene	19.200	146	341667	12.226	ppbV		96
105)	sec-butylbenzene	19.216	105	659528	12.202	ppbV		99
107)	p-isopropyltoluene	19.328	119	552214	12.129	ppbV		98
108)	1,2-dichlorobenzene	19.462	146	327863	12.625	ppbV		96
109)	n-butylbenzene	19.651	91	531486	13.086	ppbV		99
112)	1,2-dibromo-3-chloropr...	19.812	75	126035	12.806	ppbV		87
116)	1,2,4-trichlorobenzene	20.909	180	276276	14.790	ppbV		95
117)	naphthalene	21.028	128	541220	13.060	ppbV		99
118)	1,2,3-trichlorobenzene	21.285	180	299872	14.704	ppbV	#	97
120)	hexachlorobutadiene	21.337	225	307218	14.779	ppbV	#	92

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

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-2,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2012Q	Method	: TALL111221.M
Data File	: R218768.D	Operator	: AIRPIANO2:ry
Date Inj'd	: 1/5/2012 17:06	Instrument	: Air Piano 2
Sample	: WG511601-2,3,250,250	Quant Date	: 1/5/2012 5:35 pm

There are no manual integrations or false positives in this file.

Sample Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218772.D
Acq On : 5 Jan 2012 20:16
Operator : AIRPIANO2:MB
Sample : L1200005-06,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 06 09:25:23 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	139005	10.000	ppbV	0.00
Standard Area = 151117			Recovery =		91.99%	
43) 1,4-difluorobenzene	12.549	114	430809	10.000	ppbV	0.00
Standard Area = 485506			Recovery =		88.73%	
68) chlorobenzene-D5	16.908	54	81309	10.000	ppbV	0.00
Standard Area = 90670			Recovery =		89.68%	

System Monitoring Compounds

Target Compounds						Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.	d	
6) chloromethane	4.571		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
13) bromomethane	5.363		0	N.D.		
14) chloroethane	0.000		0	N.D.		
19) acetone	6.607	43	2343	0.163	ppbV #	93
21) trichlorofluoromethane	0.000		0	N.D.		
25) ethyl ether	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	7.779		0	N.D.		
30) carbon disulfide	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.720		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.	d	
45) diisopropyl ether	0.000		0	N.D.		
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	0.000		0	N.D.		
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	0.000		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218772.D
Acq On : 5 Jan 2012 20:16
Operator : AIRPIANO2:MB
Sample : L1200005-06,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 06 09:25:23 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

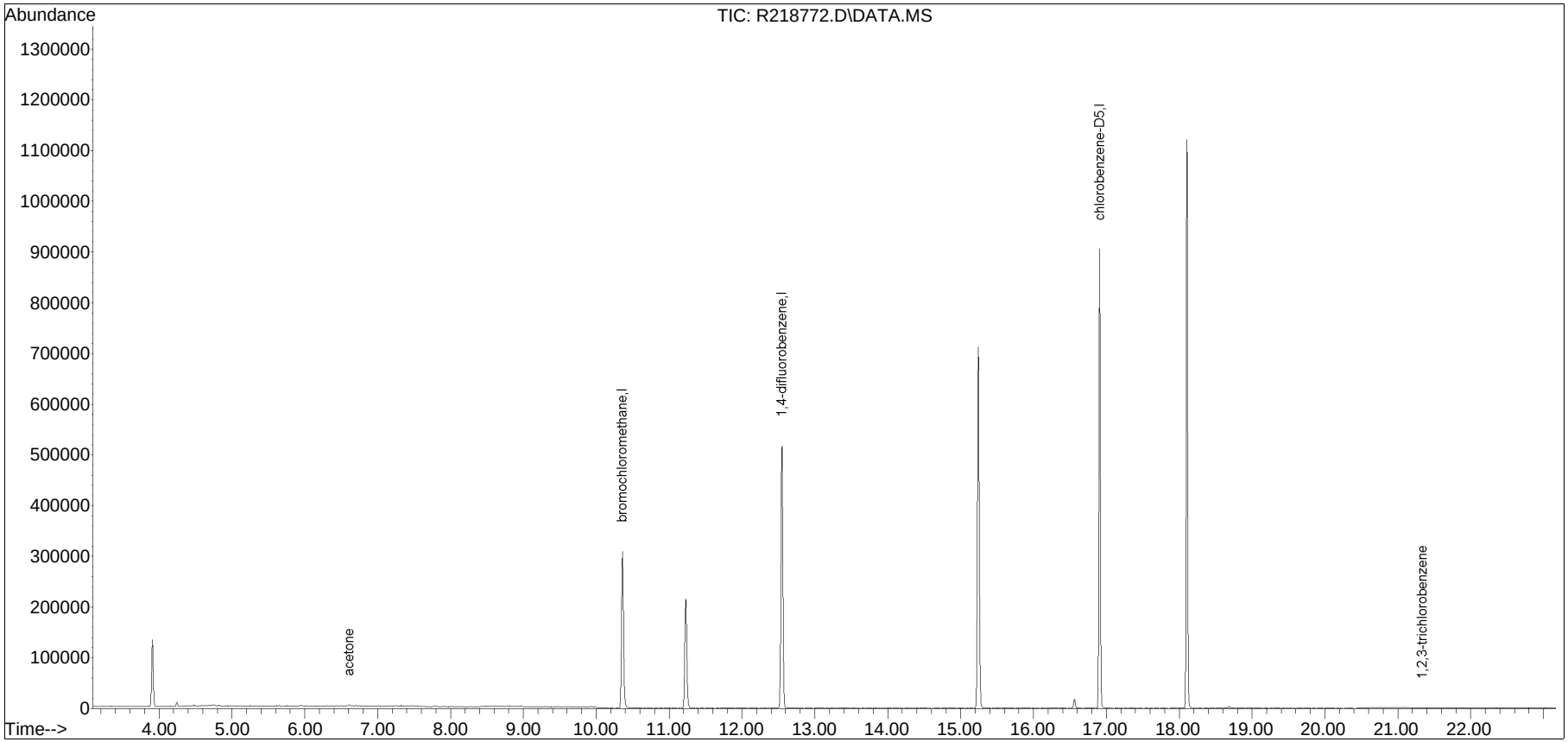
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64)	4-methyl-2-pentanone	0.000		0	N.D.		
66)	trans-1,3-dichloropropene	0.000		0	N.D.		
67)	1,1,2-trichloroethane	0.000		0	N.D.		
69)	toluene	15.341		0	N.D.		
72)	1,3-dichloropropane	0.000		0	N.D.	d	
73)	2-hexanone	0.000		0	N.D.		
75)	dibromochloromethane	0.000		0	N.D.		
76)	1,2-dibromoethane	0.000		0	N.D.		
80)	1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81)	chlorobenzene	0.000		0	N.D.		
82)	ethylbenzene	0.000		0	N.D.		
84)	m+p-xylene	0.000		0	N.D.		
85)	bromoform	0.000		0	N.D.		
86)	styrene	0.000		0	N.D.		
87)	1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88)	o-xylene	17.746		0	N.D.		
89)	1,2,3-trichloropropane	0.000		0	N.D.		
92)	isopropylbenzene	0.000		0	N.D.	d	
93)	bromobenzene	0.000		0	N.D.	d	
94)	2-chlorotoluene	0.000		0	N.D.		
95)	n-propylbenzene	0.000		0	N.D.		
96)	4-chlorotoluene	0.000		0	N.D.		
98)	1,3,5-trimethylbenzene	0.000		0	N.D.		
99)	tert-butylbenzene	0.000		0	N.D.		
100)	1,2,4-trimethylbenzene	0.000		0	N.D.		
103)	1,3-dichlorobenzene	0.000		0	N.D.		
104)	1,4-dichlorobenzene	0.000		0	N.D.		
105)	sec-butylbenzene	0.000		0	N.D.		
107)	p-isopropyltoluene	0.000		0	N.D.		
108)	1,2-dichlorobenzene	19.501		0	N.D.		
109)	n-butylbenzene	0.000		0	N.D.		
112)	1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116)	1,2,4-trichlorobenzene	20.960		0	N.D.		
117)	naphthalene	21.080		0	N.D.		
118)	1,2,3-trichlorobenzene	21.337	180	348	0.019	ppbV #	82
120)	hexachlorobutadiene	0.000		0	N.D.		

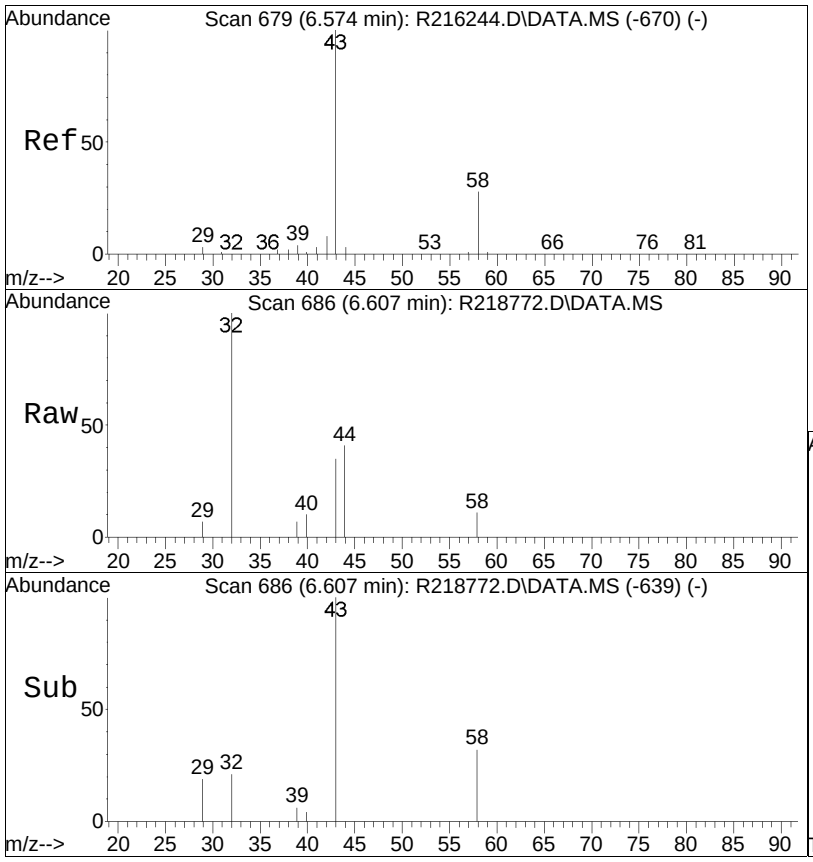
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218772.D
Acq On : 5 Jan 2012 20:16
Operator : AIRPIANO2:MB
Sample : L1200005-06,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 06 09:25:23 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

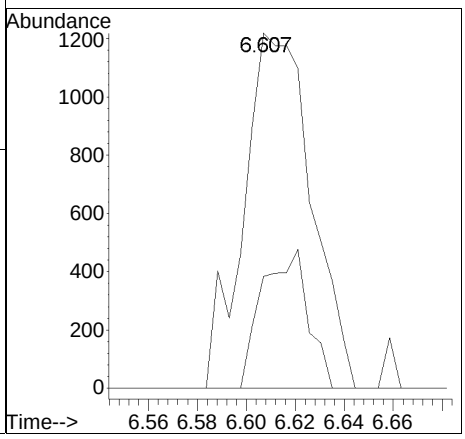


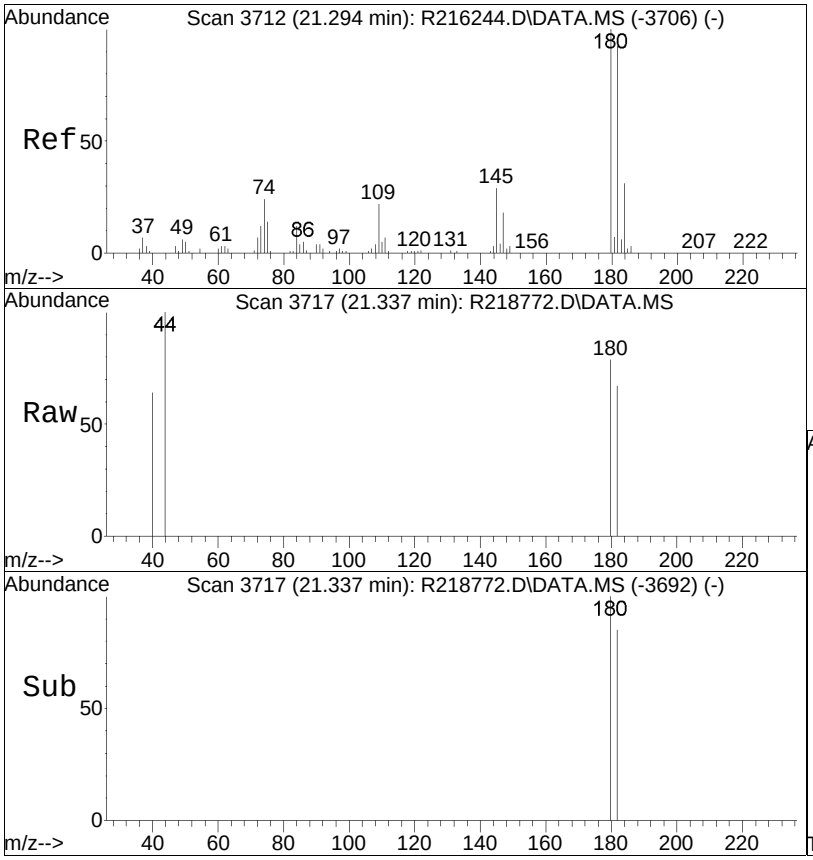


#19
acetone
Concen: 0.16 ppbV
RT: 6.607 min Scan# 686
Delta R.T. 0.033 min
Lab File: R218772.D
Acq: 5 Jan 2012 20:16

Tgt Ion: 43 Resp: 2343

Ion	Ratio	Lower	Upper
43	100		
58	31.5	22.2	33.2
57	0.0	0.9	1.3#

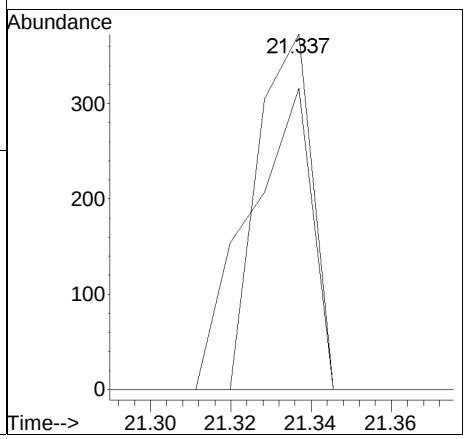




#118
1,2,3-trichlorobenzene
Concen: 0.02 ppbV
RT: 21.337 min Scan# 3717
Delta R.T. 0.017 min
Lab File: R218772.D
Acq: 5 Jan 2012 20:16

Tgt Ion:180 Resp: 348

Ion	Ratio	Lower	Upper
180	100		
182	84.7	76.9	115.3
109	0.0	17.9	26.9#

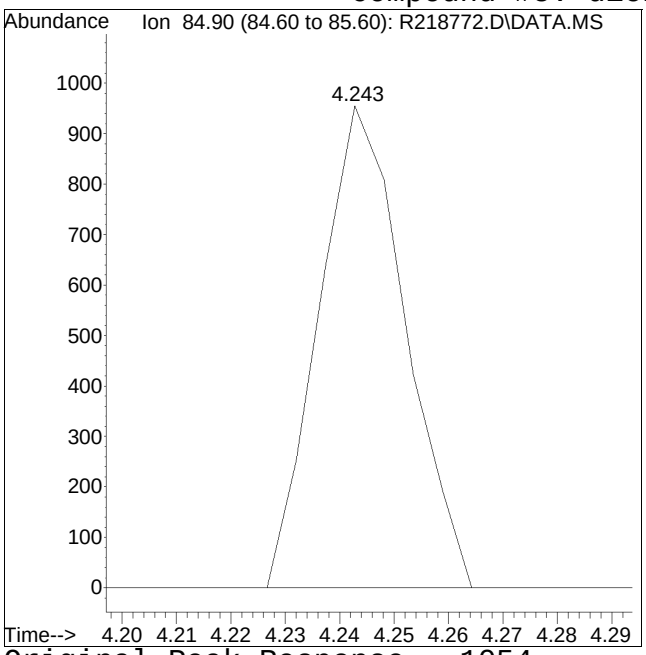


Manual Integration/Negative Proof Report

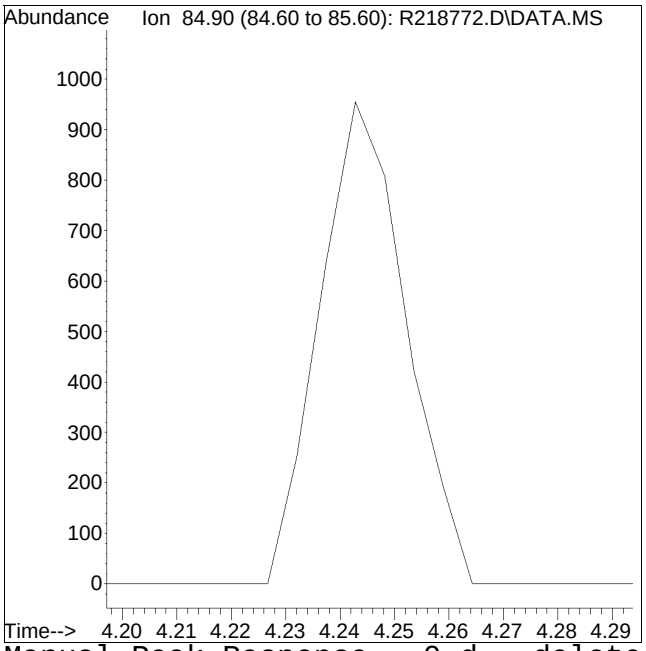
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218772.D
Date Inj'd : 1/5/2012 20:16
Sample : L1200005-06,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #5: dichlorodifluoromethane



Original Peak Response = 1054



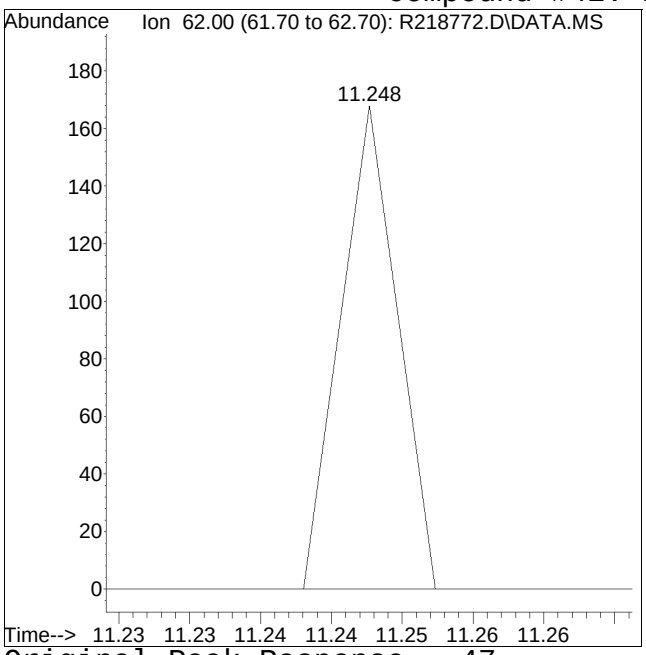
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

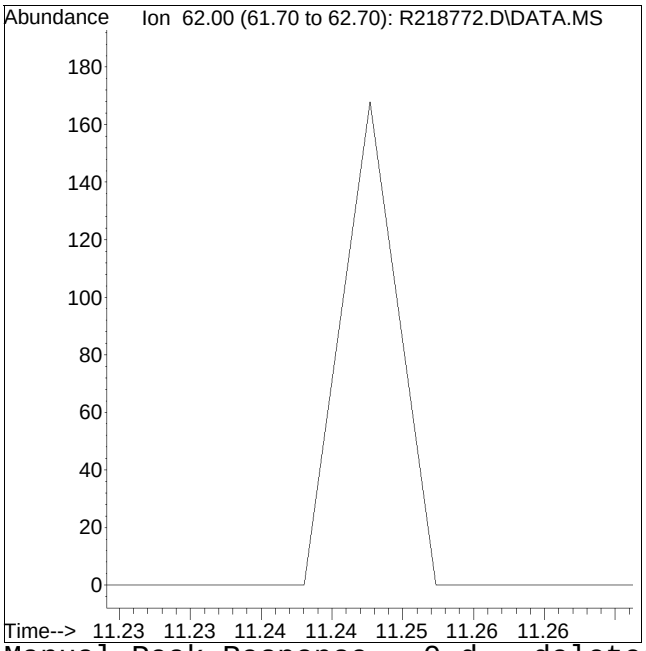
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218772.D
Date Inj'd : 1/5/2012 20:16
Sample : L1200005-06,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #42: 1,2-dichloroethane



Original Peak Response = 47



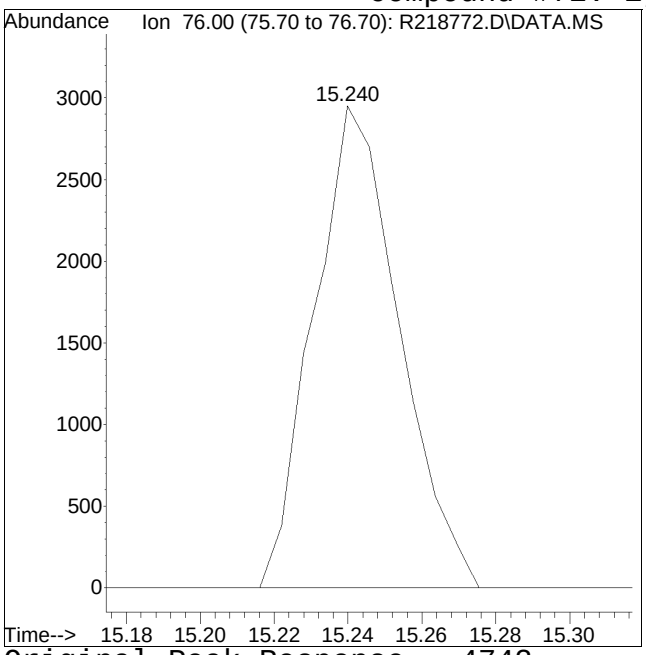
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

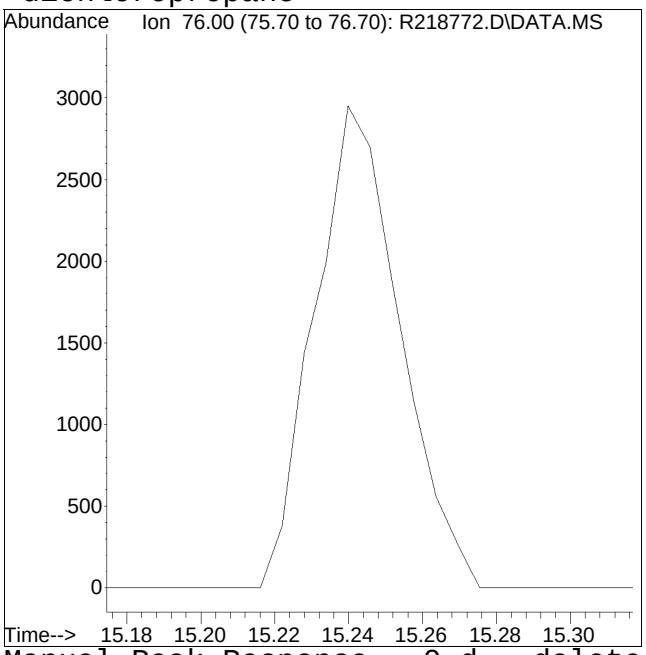
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218772.D
Date Inj'd : 1/5/2012 20:16
Sample : L1200005-06,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 4742



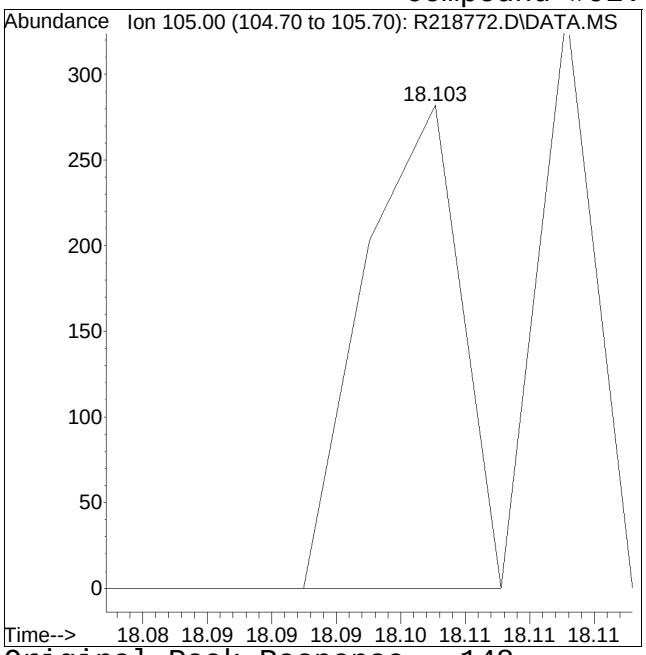
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

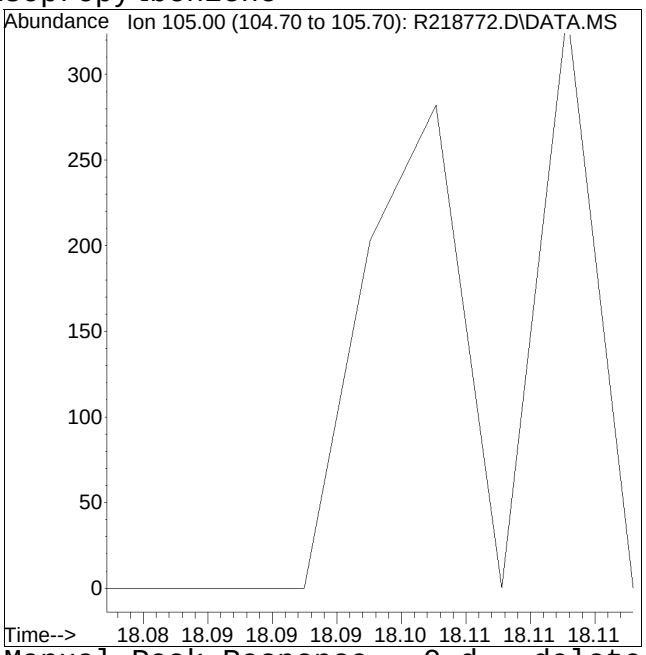
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218772.D
Date Inj'd : 1/5/2012 20:16
Sample : L1200005-06,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #92: isopropylbenzene



Original Peak Response = 148



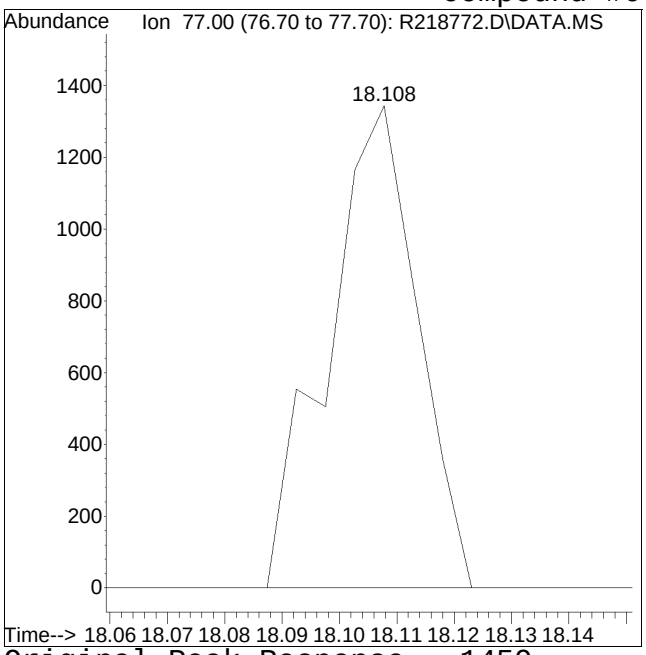
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

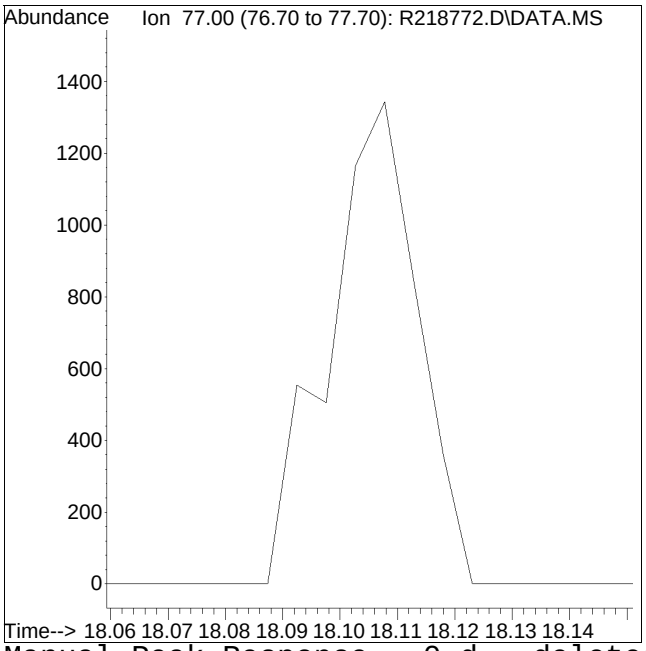
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218772.D
Date Inj'd : 1/5/2012 20:16
Sample : L1200005-06,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #93: bromobenzene



Original Peak Response = 1459



Manual Peak Response = 0 d - deleted

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218774.D
Acq On : 5 Jan 2012 21:28
Operator : AIRPIANO2:MB
Sample : L1200005-01,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 06 09:42:05 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	139719	10.000	ppbV	0.00
Standard Area = 151117			Recovery =	92.46%		
43) 1,4-difluorobenzene	12.549	114	434186	10.000	ppbV	0.00
Standard Area = 485506			Recovery =	89.43%		
68) chlorobenzene-D5	16.908	54	83813	10.000	ppbV	0.00
Standard Area = 90670			Recovery =	92.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	15897	0.461	ppbV	99
6) chloromethane	4.554	50	3032M6	0.283	ppbV	
9) vinyl chloride	0.000		0	N.D.		
13) bromomethane	5.448		0	N.D.		
14) chloroethane	0.000		0	N.D.		
19) acetone	6.597	43	21184M6	1.468	ppbV	
21) trichlorofluoromethane	6.780	101	7462	0.211	ppbV	100
25) ethyl ether	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	7.779	49	12212	0.836	ppbV	91
30) carbon disulfide	8.114		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	9.216		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.707	43	3172	0.177	ppbV #	93
37) cis-1,2-dichloroethene	0.000		0	N.D.		
40) Tetrahydrofuran	11.006		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	11.354		0	N.D.		
45) diisopropyl ether	0.000		0	N.D.		
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.324	117	1780	0.067	ppbV	95
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	0.000		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218774.D
Acq On : 5 Jan 2012 21:28
Operator : AIRPIANO2:MB
Sample : L1200005-01,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 06 09:42:05 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

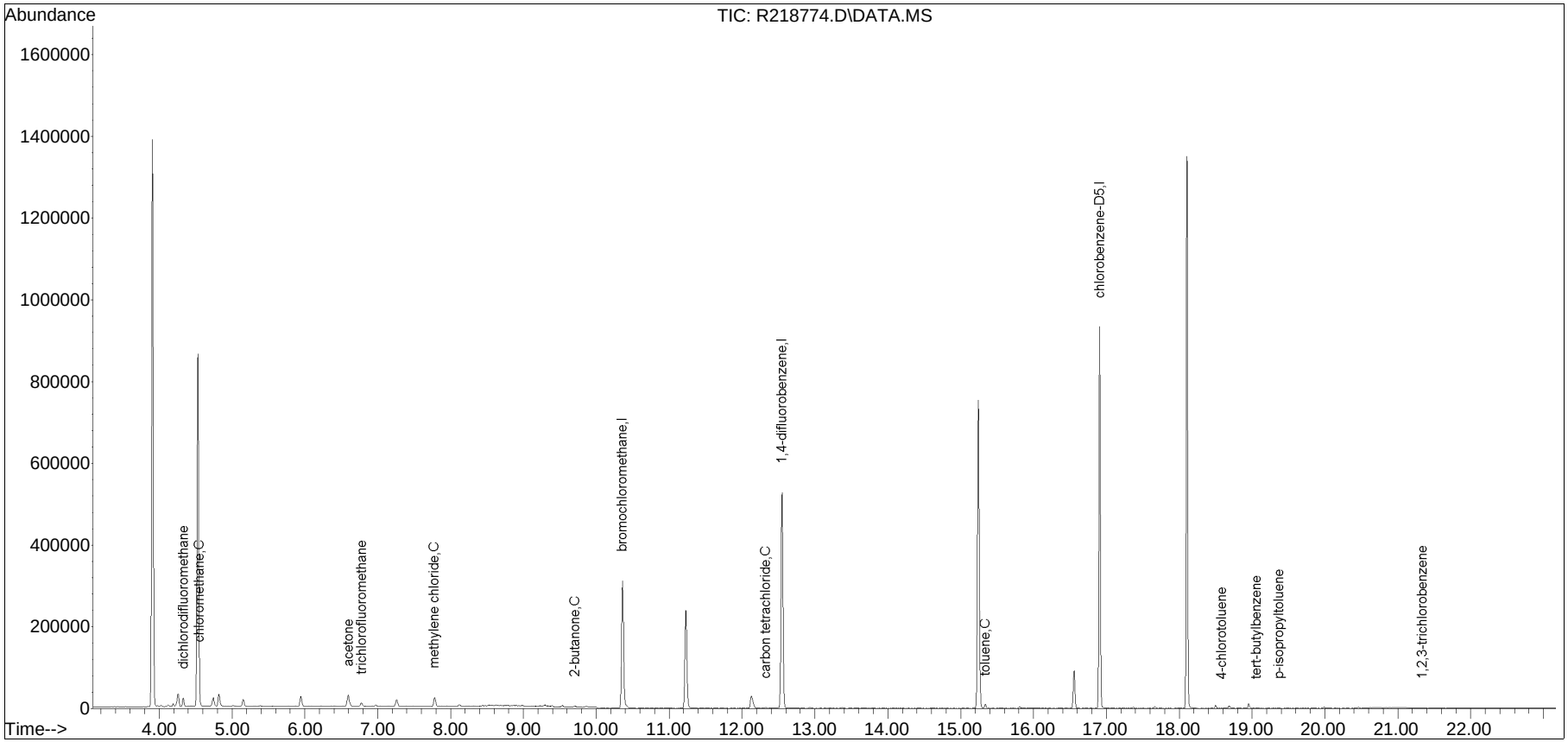
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64)	4-methyl-2-pentanone	14.412		0	N.D.		
66)	trans-1,3-dichloropropene	0.000		0	N.D.		
67)	1,1,2-trichloroethane	0.000		0	N.D.		
69)	toluene	15.341	91	6668	0.197	ppbV	96
72)	1,3-dichloropropane	0.000		0	N.D. d		
73)	2-hexanone	0.000		0	N.D. d		
75)	dibromochloromethane	0.000		0	N.D.		
76)	1,2-dibromoethane	0.000		0	N.D.		
80)	1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81)	chlorobenzene	0.000		0	N.D.		
82)	ethylbenzene	17.242		0	N.D.		
84)	m+p-xylene	17.370		0	N.D.		
85)	bromoform	0.000		0	N.D.		
86)	styrene	17.669		0	N.D.		
87)	1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88)	o-xylene	17.756		0	N.D.		
89)	1,2,3-trichloropropane	0.000		0	N.D.		
92)	isopropylbenzene	0.000		0	N.D. d		
93)	bromobenzene	0.000		0	N.D. d		
94)	2-chlorotoluene	0.000		0	N.D.		
95)	n-propylbenzene	0.000		0	N.D. d		
96)	4-chlorotoluene	18.585	91	286	0.009	ppbV #	40
98)	1,3,5-trimethylbenzene	18.739		0	N.D.		
99)	tert-butylbenzene	19.059	119	89	0.002	ppbV #	54
100)	1,2,4-trimethylbenzene	19.052		0	N.D.		
103)	1,3-dichlorobenzene	0.000		0	N.D. d		
104)	1,4-dichlorobenzene	19.238		0	N.D.		
105)	sec-butylbenzene	0.000		0	N.D. d		
107)	p-isopropyltoluene	19.369	119	84	0.002	ppbV #	49
108)	1,2-dichlorobenzene	0.000		0	N.D.		
109)	n-butylbenzene	0.000		0	N.D.		
112)	1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116)	1,2,4-trichlorobenzene	20.951		0	N.D.		
117)	naphthalene	21.080		0	N.D.		
118)	1,2,3-trichlorobenzene	21.337	180	147	0.008	ppbV #	83
120)	hexachlorobutadiene	0.000		0	N.D.		

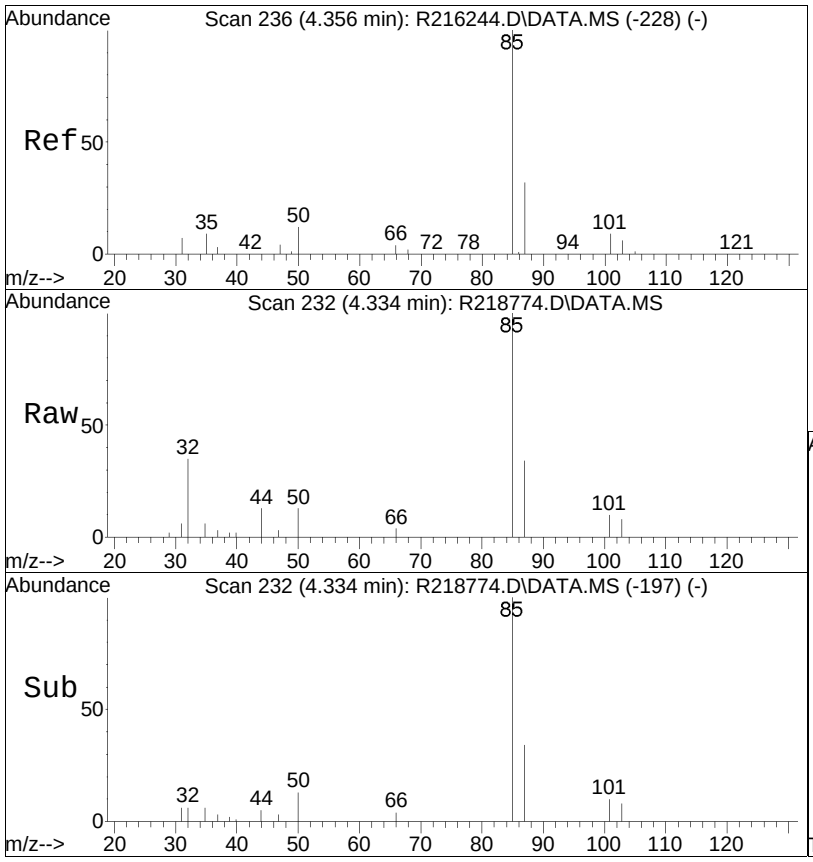
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218774.D
Acq On : 5 Jan 2012 21:28
Operator : AIRPIANO2:MB
Sample : L1200005-01,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 06 09:42:05 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

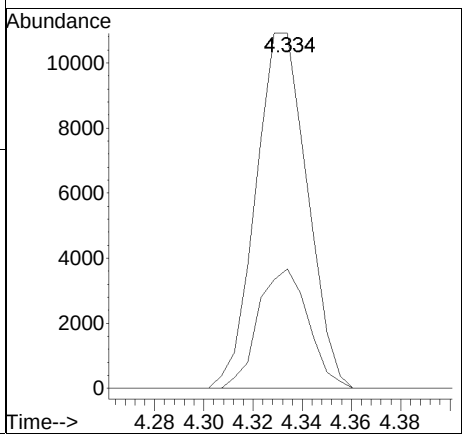


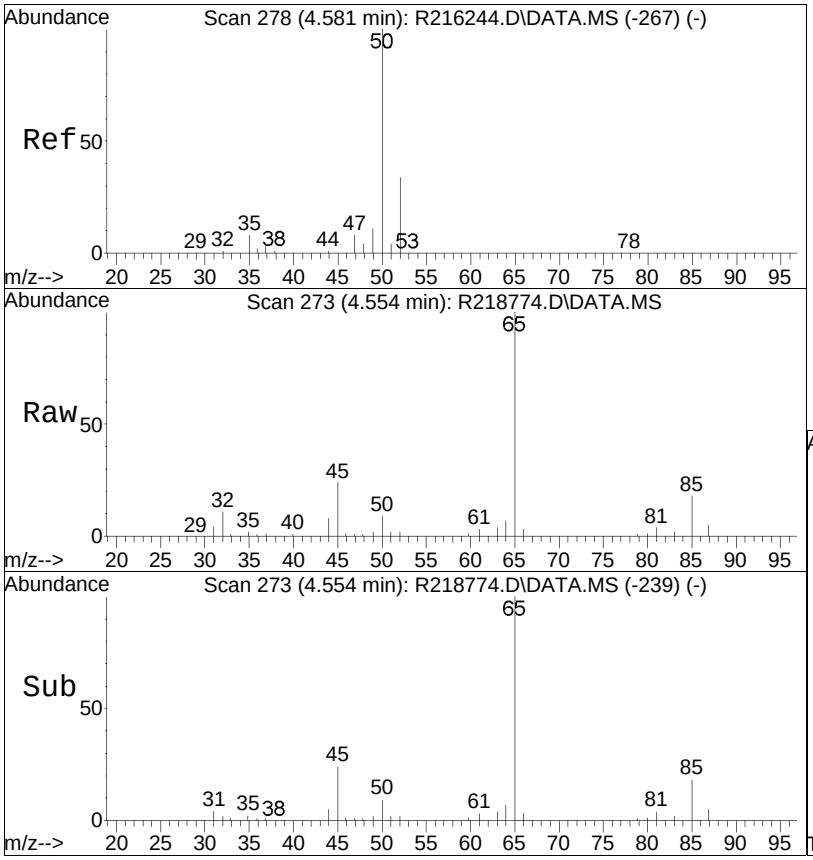


#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.334 min Scan# 232
Delta R.T. -0.011 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion: 85 Resp: 15897

Ion	Ratio	Lower	Upper
85	100		
87	33.6	26.4	39.6

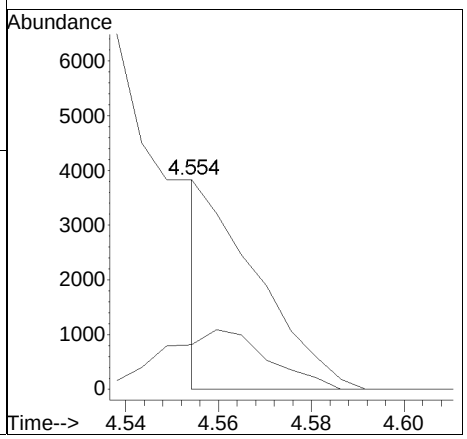


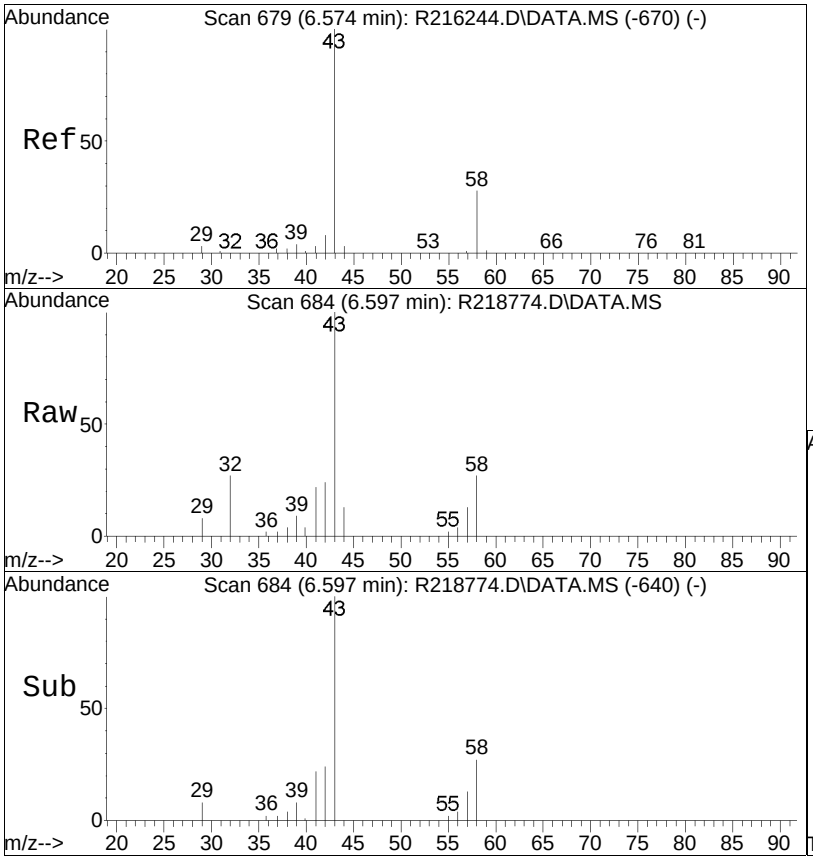


#6
chloromethane
Concen: 0.28 ppbV m
RT: 4.554 min Scan# 273
Delta R.T. -0.016 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion: 50 Resp: 3032

Ion	Ratio	Lower	Upper
50	100		
52	21.3	24.4	36.6#

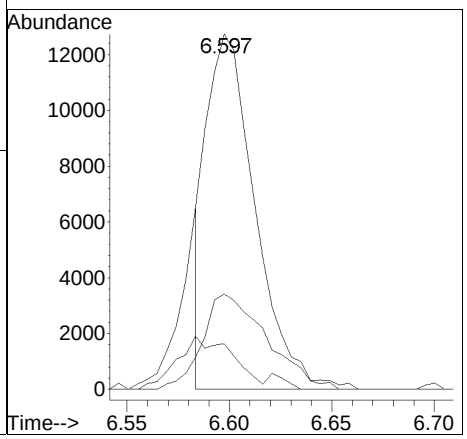


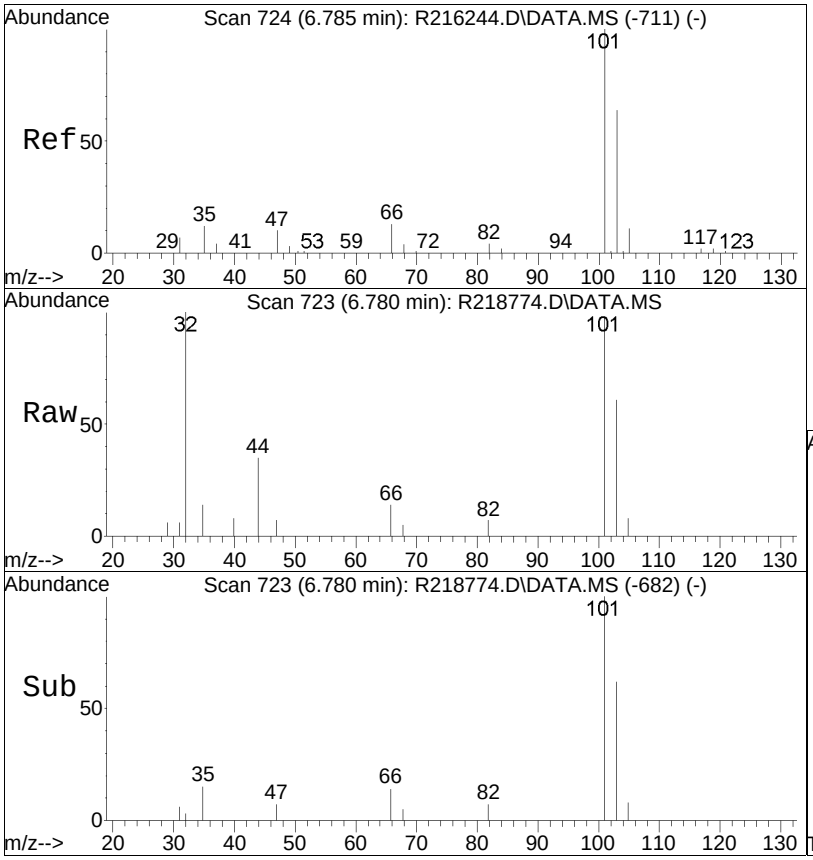


#19
acetone
Concen: 1.47 ppbV m
RT: 6.597 min Scan# 684
Delta R.T. 0.023 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion: 43 Resp: 21184

Ion	Ratio	Lower	Upper
43	100		
58	26.8	22.2	33.2
57	12.9	0.9	1.3#

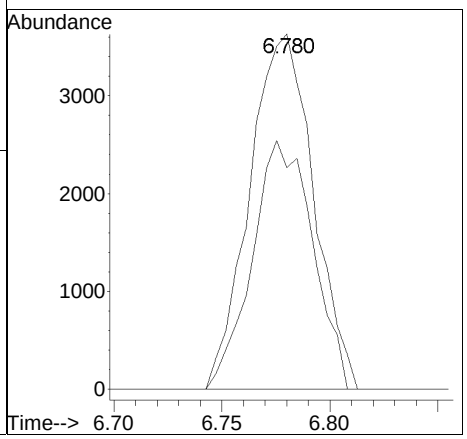


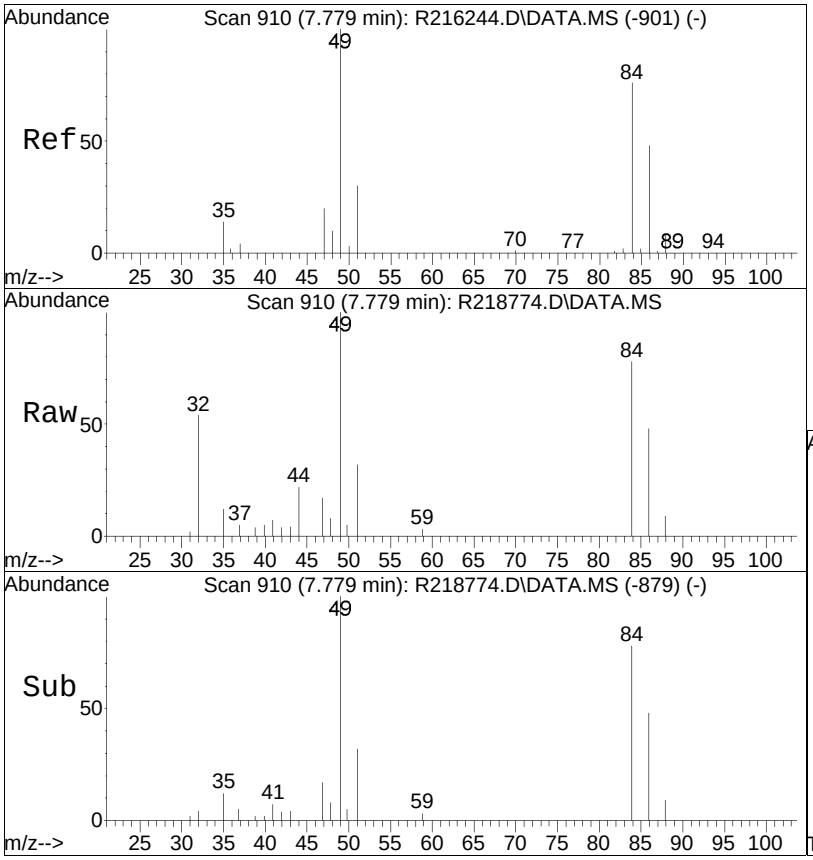


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 6.780 min Scan# 723
Delta R.T. -0.010 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion:101 Resp: 7462

Ion	Ratio	Lower	Upper
101	100		
103	62.4	50.2	75.2

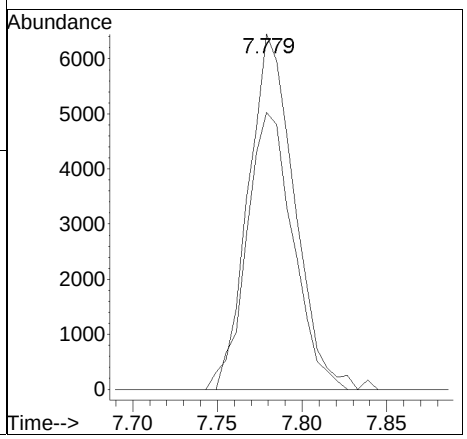


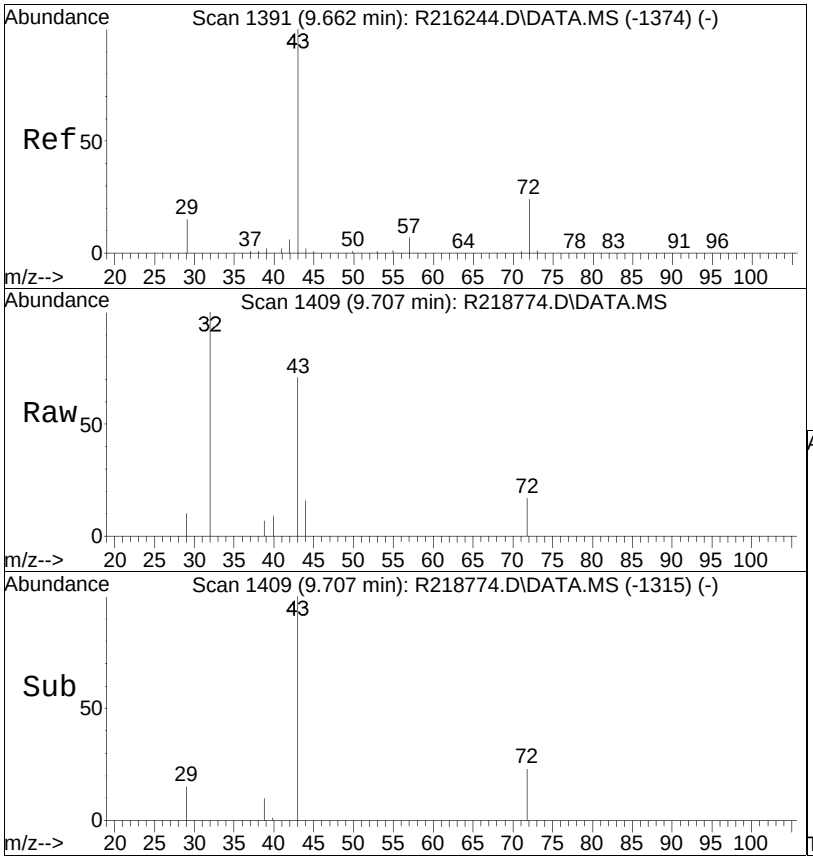


#28
methylene chloride
Concen: 0.84 ppbV
RT: 7.779 min Scan# 910
Delta R.T. -0.012 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion: 49 Resp: 12212

Ion	Ratio	Lower	Upper
49	100		
84	77.9	56.6	84.8

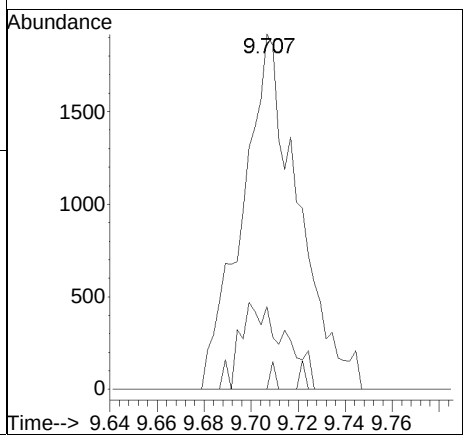


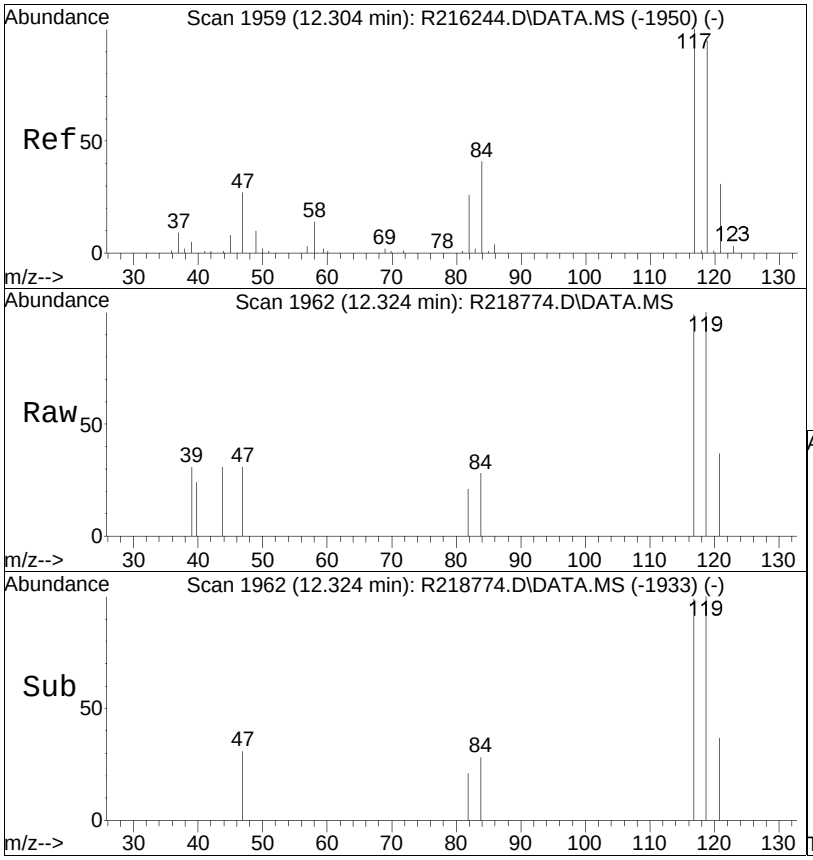


#36
2-butanone
Concen: 0.18 ppbV
RT: 9.707 min Scan# 1409
Delta R.T. 0.038 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion: 43 Resp: 3172

Ion	Ratio	Lower	Upper
43	100		
72	23.3	17.6	26.4
57	0.0	5.6	8.4#

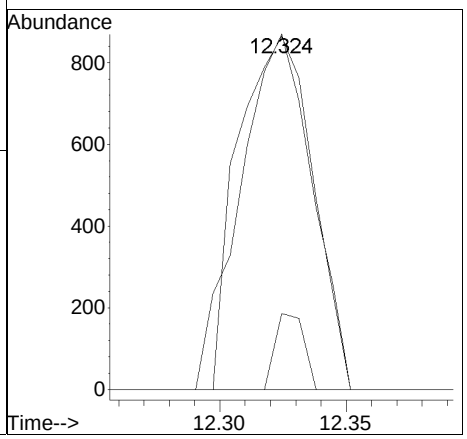


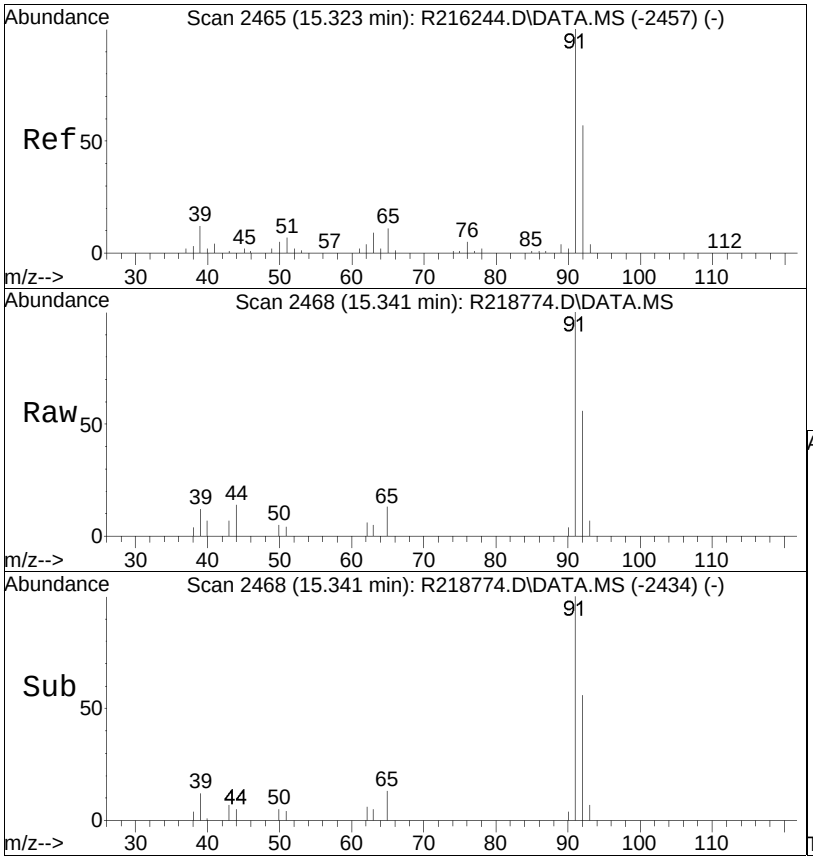


#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 12.324 min Scan# 1962
Delta R.T. -0.000 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion:117 Resp: 1780

Ion	Ratio	Lower	Upper
117	100		
119	100.7	76.8	115.2
82	21.5	19.4	29.0

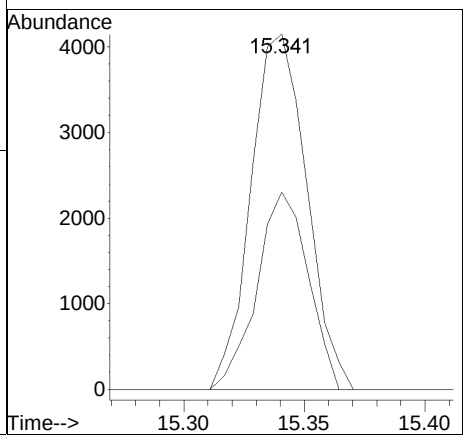


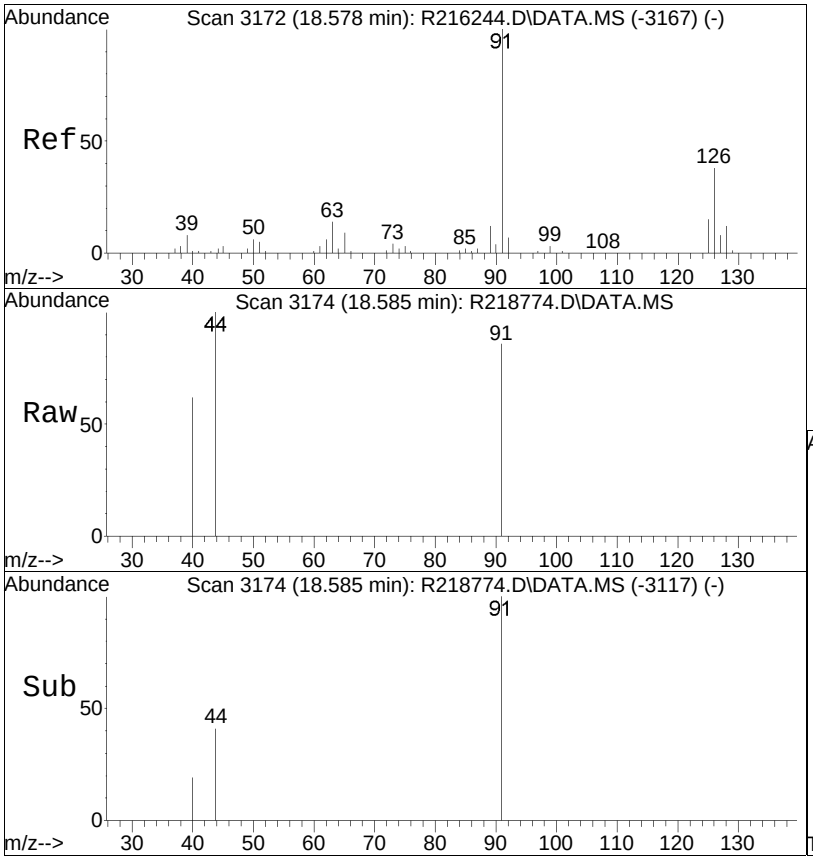


#69
toluene
Concen: 0.20 ppbV
RT: 15.341 min Scan# 2468
Delta R.T. -0.000 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion: 91 Resp: 6668

Ion	Ratio	Lower	Upper
91	100		
92	55.5	47.0	70.4

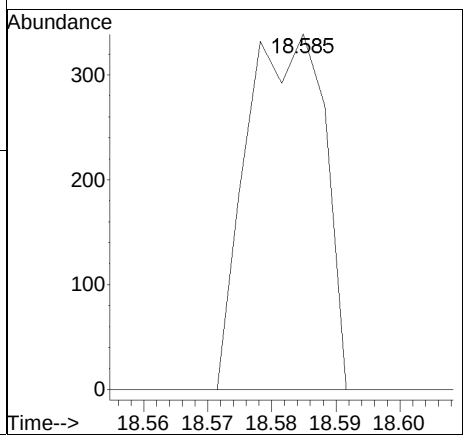


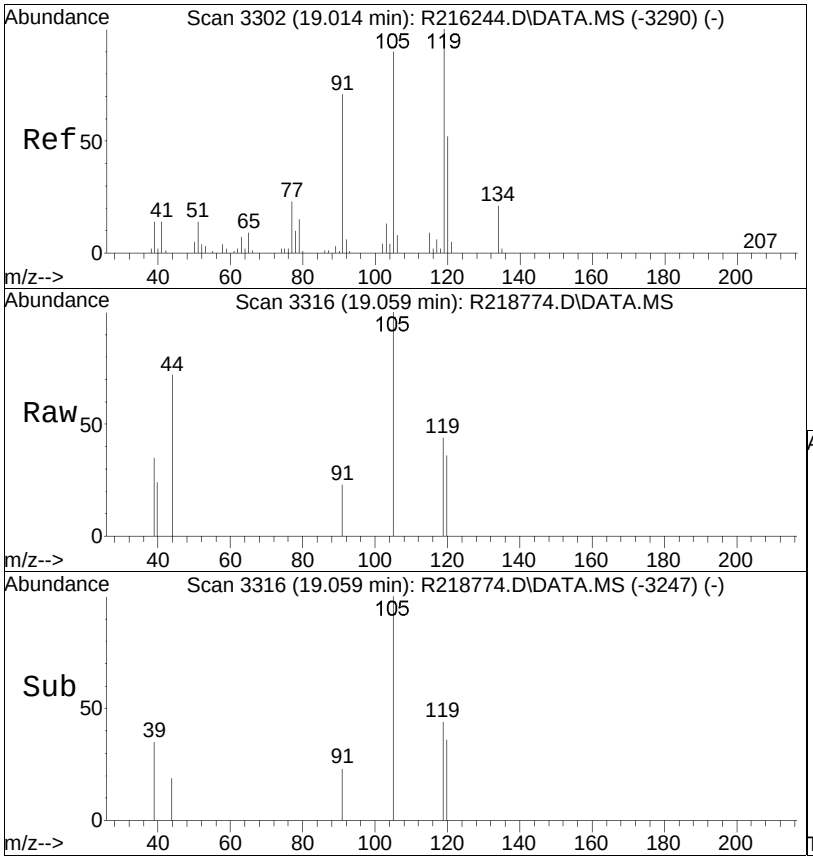


#96
4-chlorotoluene
Concen: 0.01 ppbV
RT: 18.585 min Scan# 3174
Delta R.T. -0.010 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion: 91 Resp: 286

Ion	Ratio	Lower	Upper
91	100		
126	0.0	28.2	42.2#

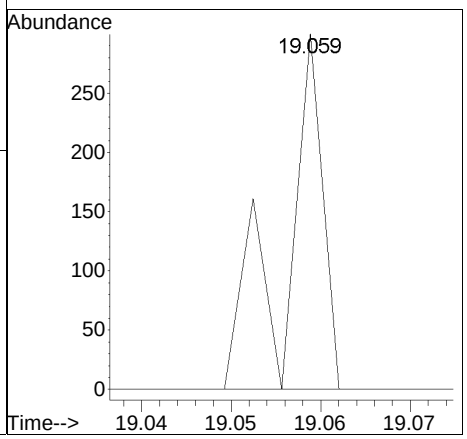


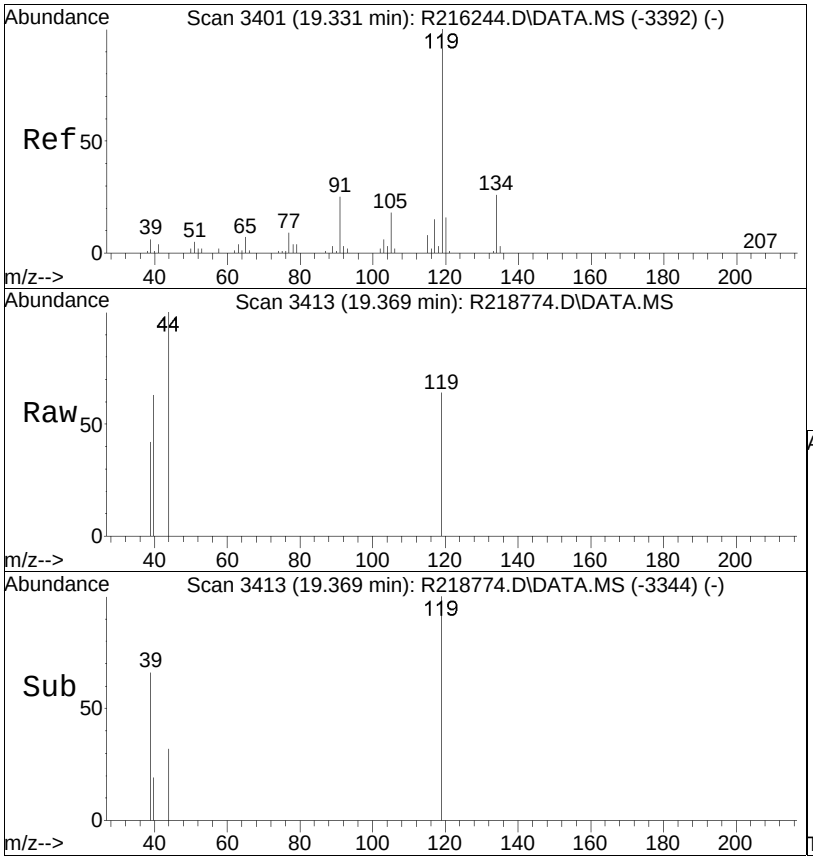


#99
tert-butylbenzene
Concen: 0.00 ppbV
RT: 19.059 min Scan# 3316
Delta R.T. 0.029 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion:119 Resp: 89

Ion	Ratio	Lower	Upper
119	100		
134	0.0	17.2	25.8#

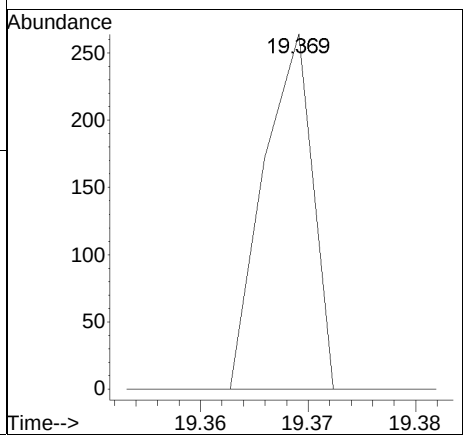


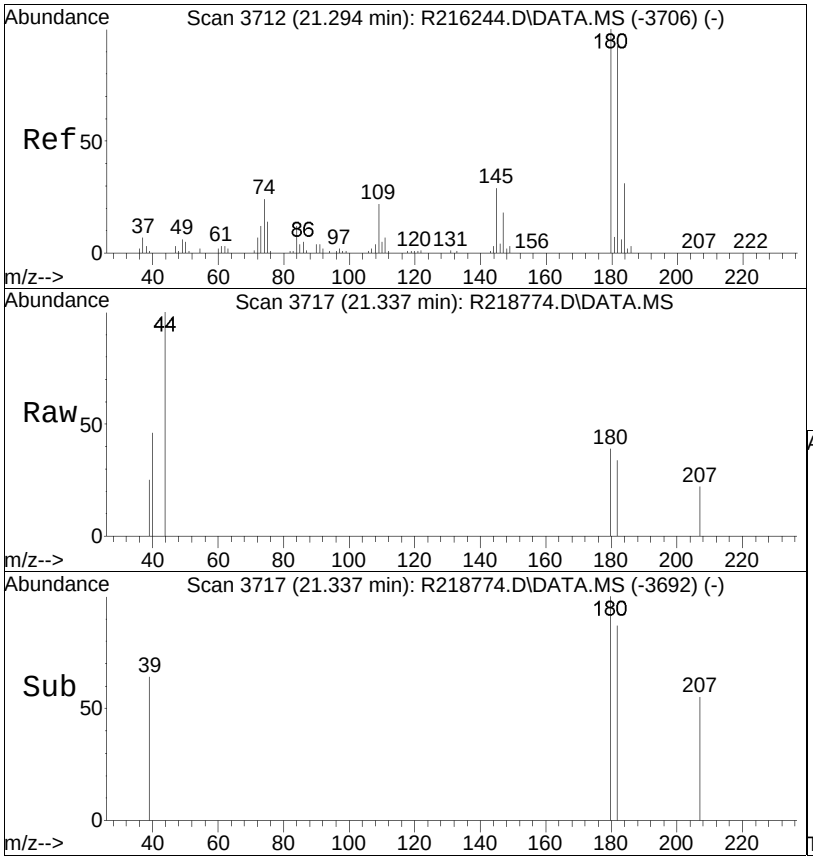


#107
p-isopropyltoluene
Concen: 0.00 ppbV
RT: 19.369 min Scan# 3413
Delta R.T. 0.022 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion:119 Resp: 84

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

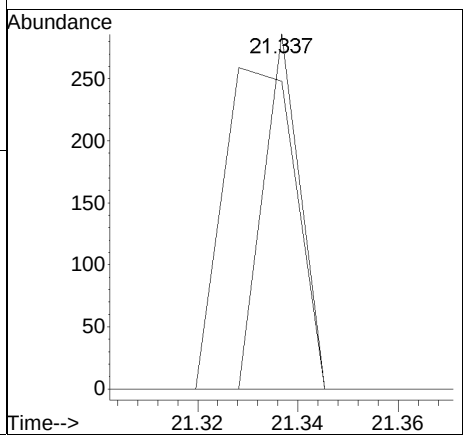




#118
1,2,3-trichlorobenzene
Concen: 0.01 ppbV
RT: 21.337 min Scan# 3717
Delta R.T. 0.017 min
Lab File: R218774.D
Acq: 5 Jan 2012 21:28

Tgt Ion:180 Resp: 147

Ion	Ratio	Lower	Upper
180	100		
182	86.7	76.9	115.3
109	0.0	17.9	26.9#

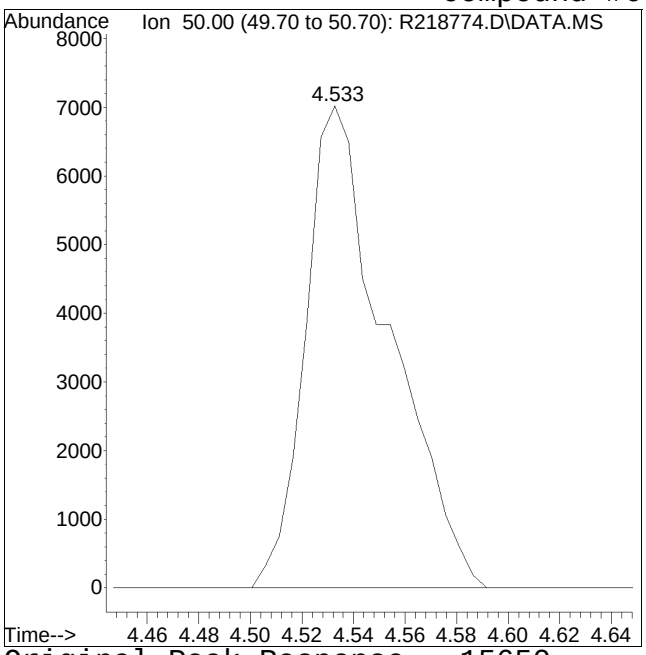


Manual Integration/Negative Proof Report

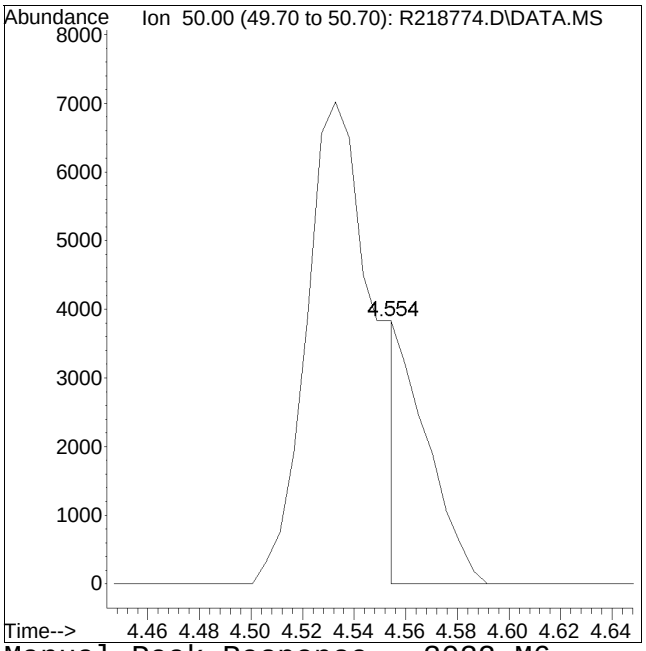
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218774.D
Date Inj'd : 1/5/2012 21:28
Sample : L1200005-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #6: chloromethane



Original Peak Response = 15650



Manual Peak Response = 3032 M6

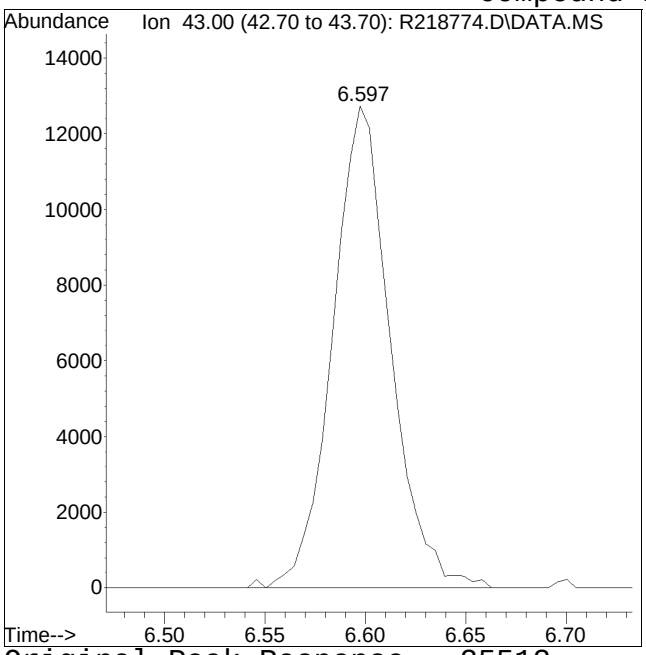
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

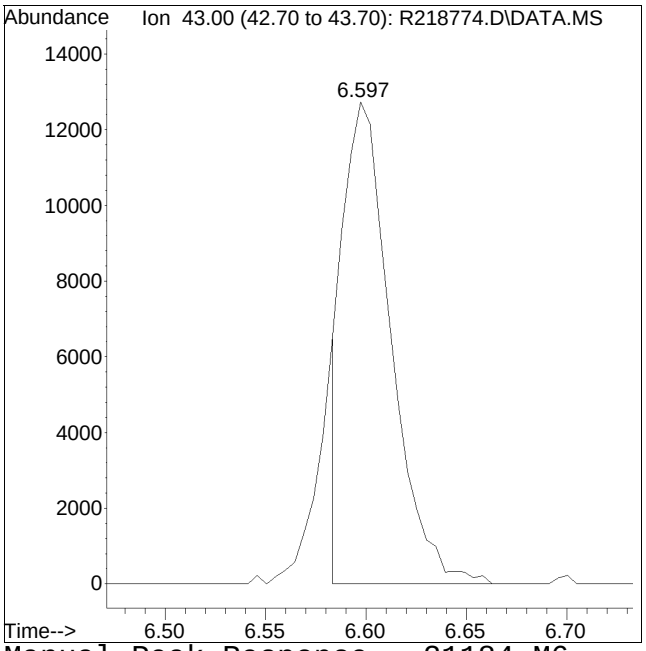
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218774.D
Date Inj'd : 1/5/2012 21:28
Sample : L1200005-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #19: acetone



Original Peak Response = 25512



Manual Peak Response = 21184 M6

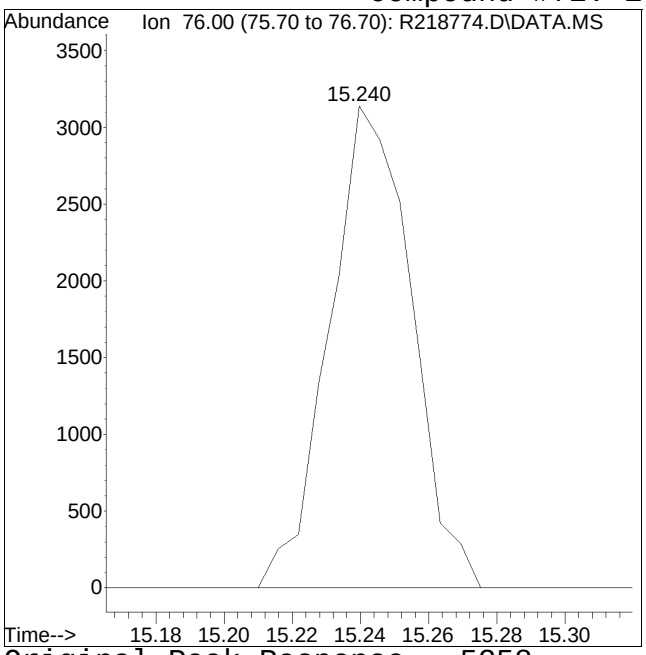
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

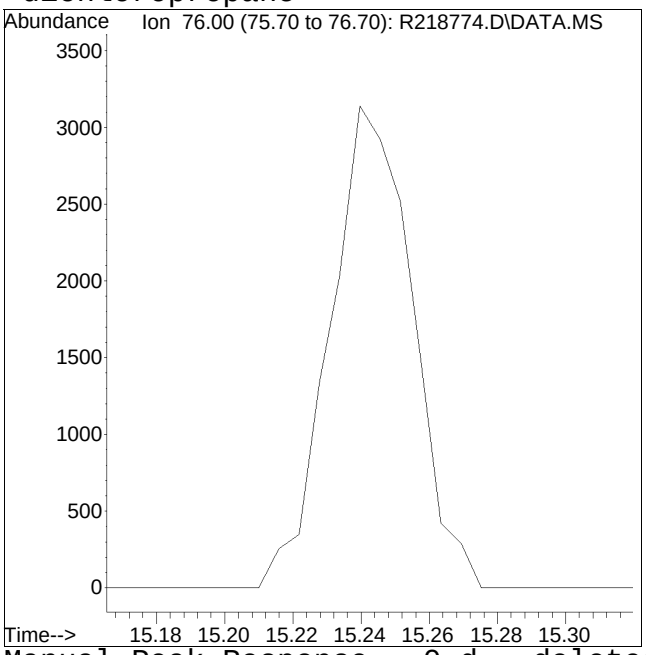
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218774.D
Date Inj'd : 1/5/2012 21:28
Sample : L1200005-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 5258



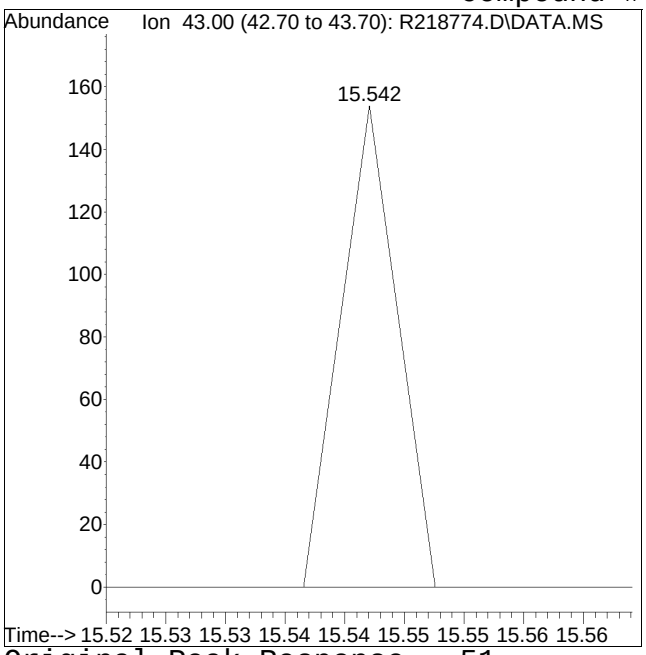
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

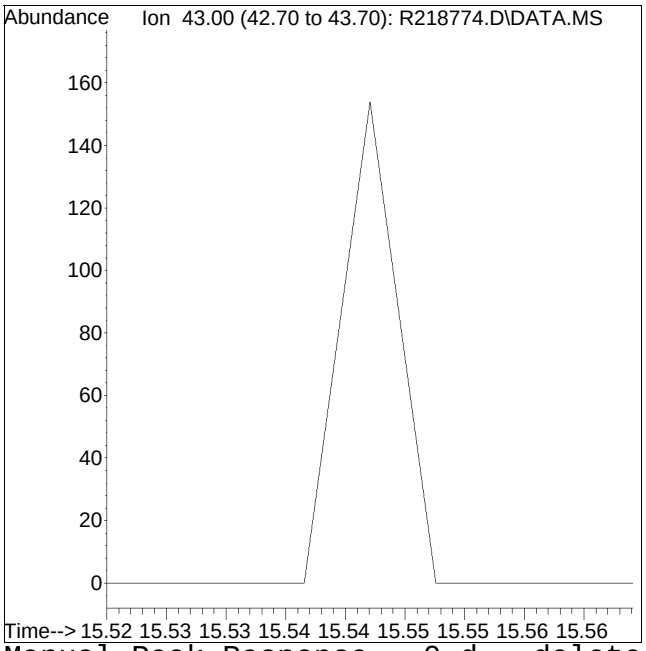
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218774.D
Date Inj'd : 1/5/2012 21:28
Sample : L1200005-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #73: 2-hexanone



Original Peak Response = 51



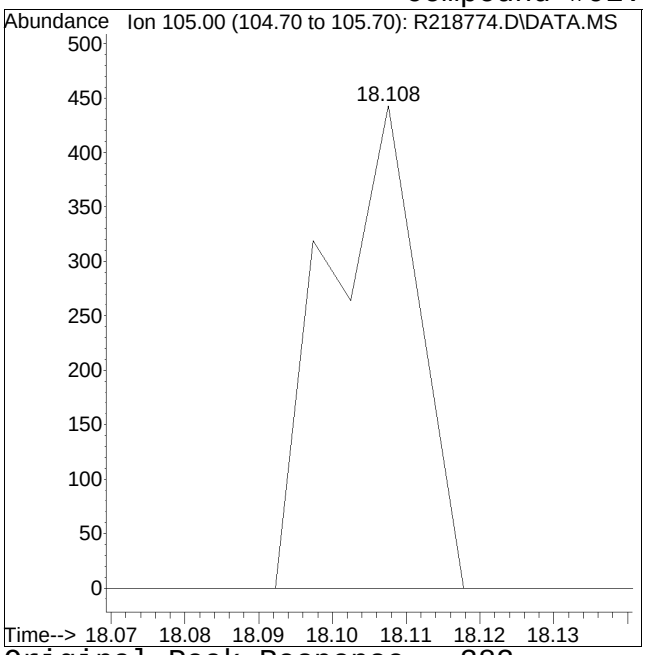
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

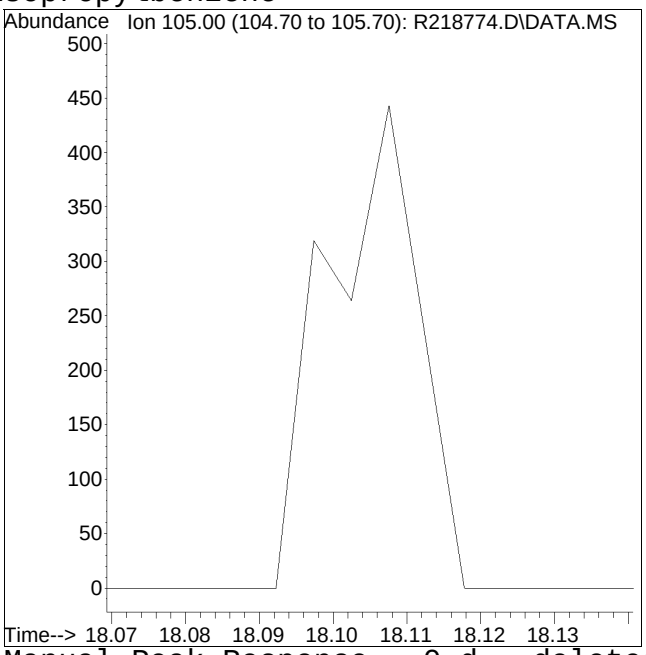
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218774.D
Date Inj'd : 1/5/2012 21:28
Sample : L1200005-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #92: isopropylbenzene



Original Peak Response = 382



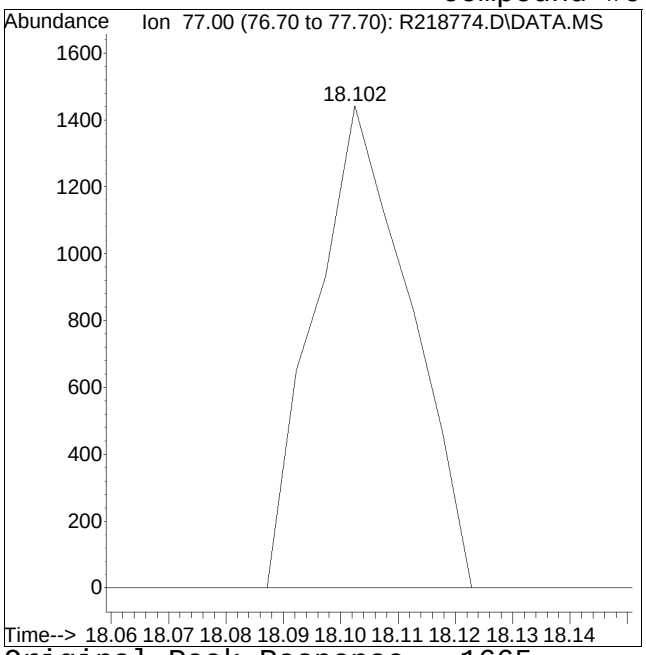
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

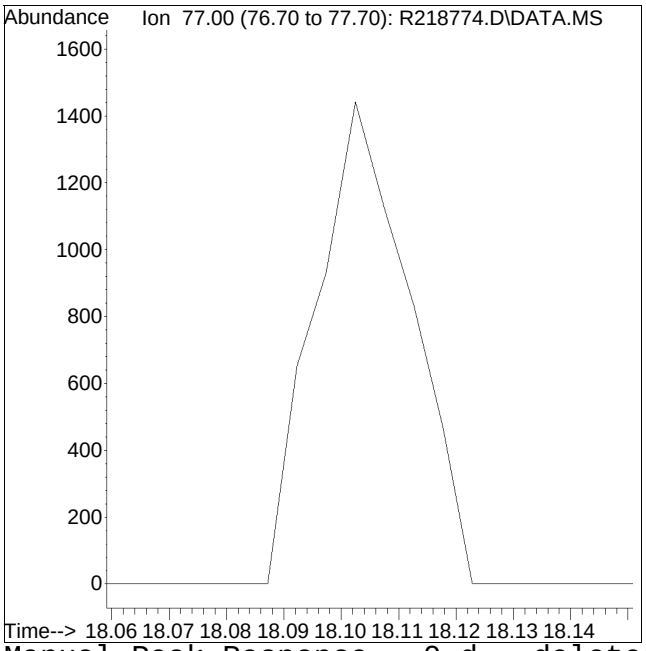
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218774.D
Date Inj'd : 1/5/2012 21:28
Sample : L1200005-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #93: bromobenzene



Original Peak Response = 1665



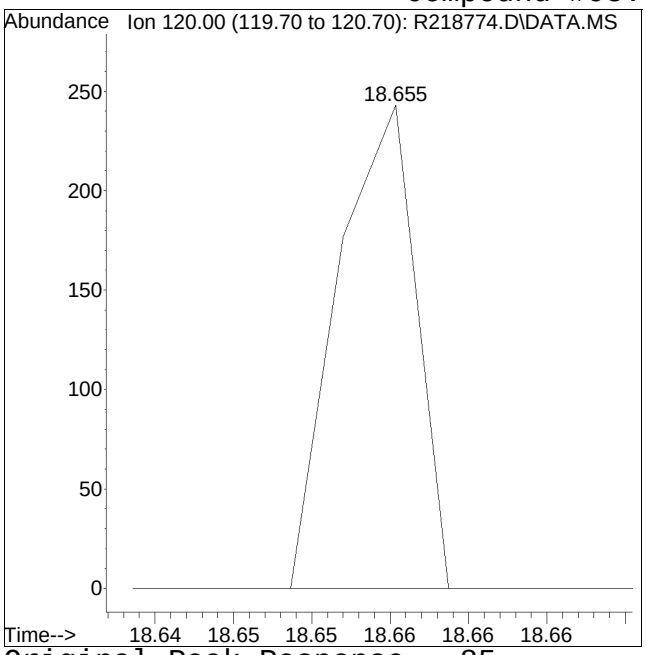
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

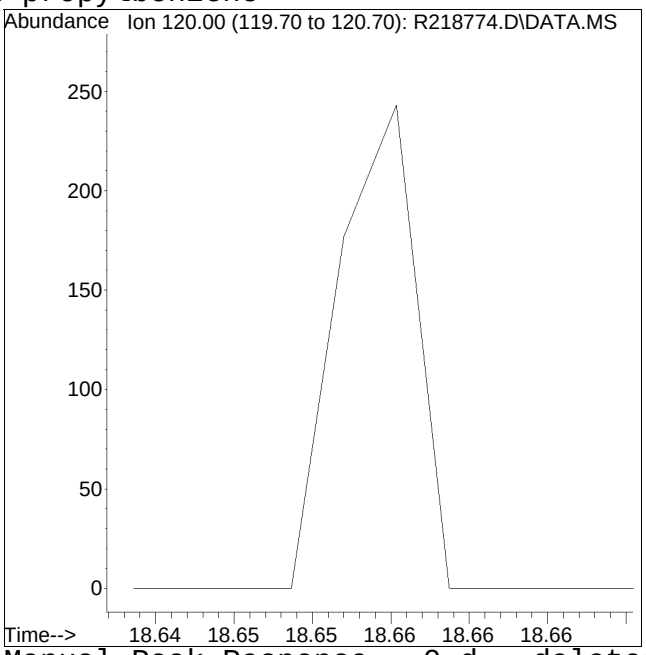
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218774.D
Date Inj'd : 1/5/2012 21:28
Sample : L1200005-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #95: n-propylbenzene



Original Peak Response = 85



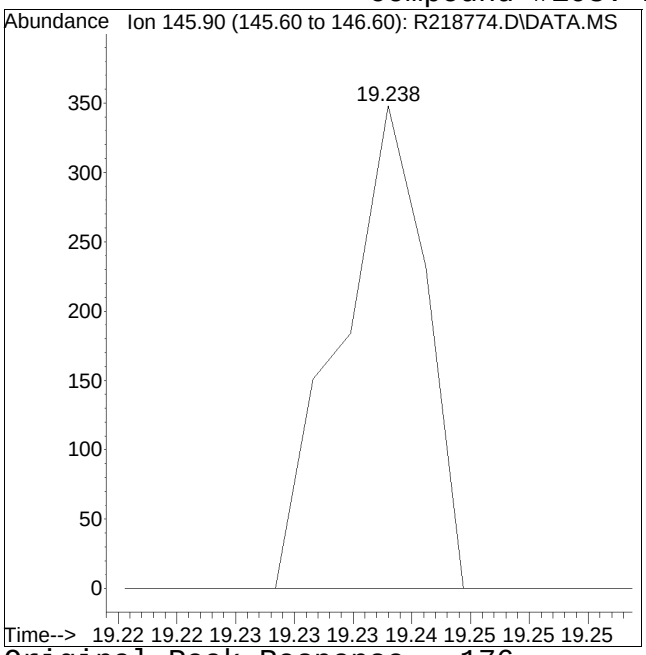
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

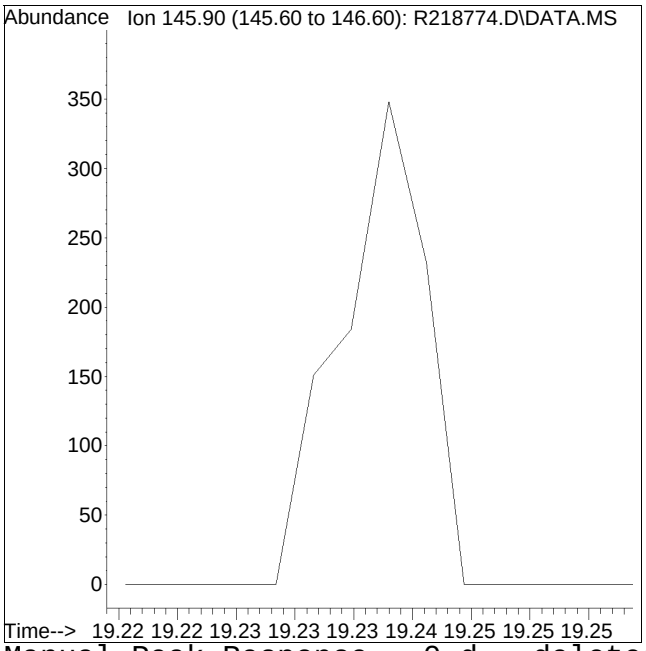
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218774.D
Date Inj'd : 1/5/2012 21:28
Sample : L1200005-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #103: 1,3-dichlorobenzene



Original Peak Response = 176



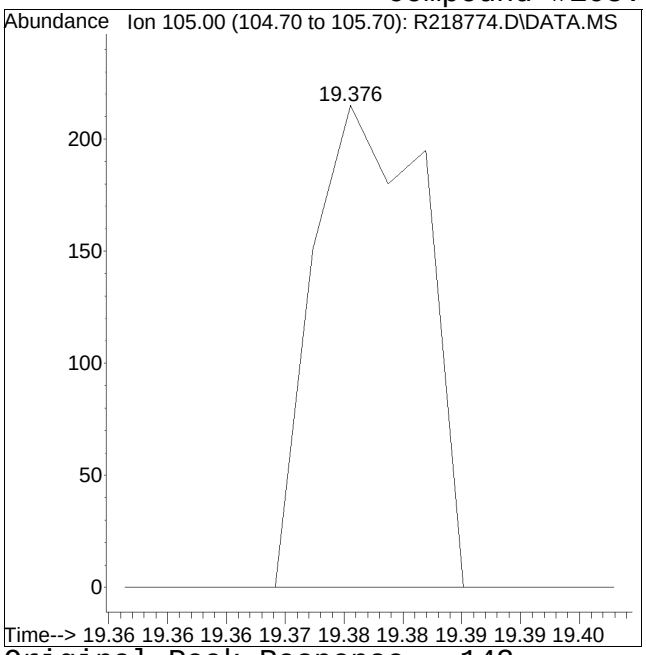
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

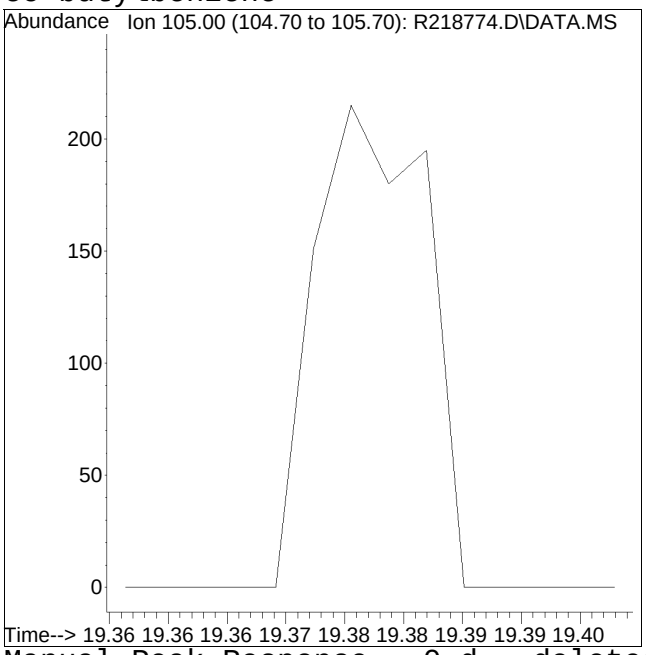
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218774.D
Date Inj'd : 1/5/2012 21:28
Sample : L1200005-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #105: sec-butylbenzene



Original Peak Response = 142



Manual Peak Response = 0 d - deleted

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218775.D
Acq On : 5 Jan 2012 22:04
Operator : AIRPIANO2:MB
Sample : L1200005-02,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 06 09:42:40 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	139002	10.000	ppbV	0.00
Standard Area = 151117			Recovery =		91.98%	
43) 1,4-difluorobenzene	12.549	114	439658	10.000	ppbV	0.00
Standard Area = 485506			Recovery =		90.56%	
68) chlorobenzene-D5	16.908	54	82015	10.000	ppbV	0.00
Standard Area = 90670			Recovery =		90.45%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	15773	0.460	ppbV	96
6) chloromethane	4.565	50	1277M6	0.120	ppbV	
9) vinyl chloride	0.000		0	N.D.		
13) bromomethane	5.461		0	N.D.		
14) chloroethane	0.000		0	N.D.		
19) acetone	6.593	43	37774M6	2.631	ppbV	
21) trichlorofluoromethane	6.776	101	7659	0.218	ppbV	93
25) ethyl ether	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	7.773	49	5210	0.358	ppbV	85
30) carbon disulfide	8.109		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.699	43	4698	0.263	ppbV #	91
37) cis-1,2-dichloroethene	0.000		0	N.D.		
40) Tetrahydrofuran	11.015		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.	d	
45) diisopropyl ether	0.000		0	N.D.		
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.325	117	2016	0.075	ppbV	84
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	0.000		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218775.D
Acq On : 5 Jan 2012 22:04
Operator : AIRPIANO2:MB
Sample : L1200005-02,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 06 09:42:40 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

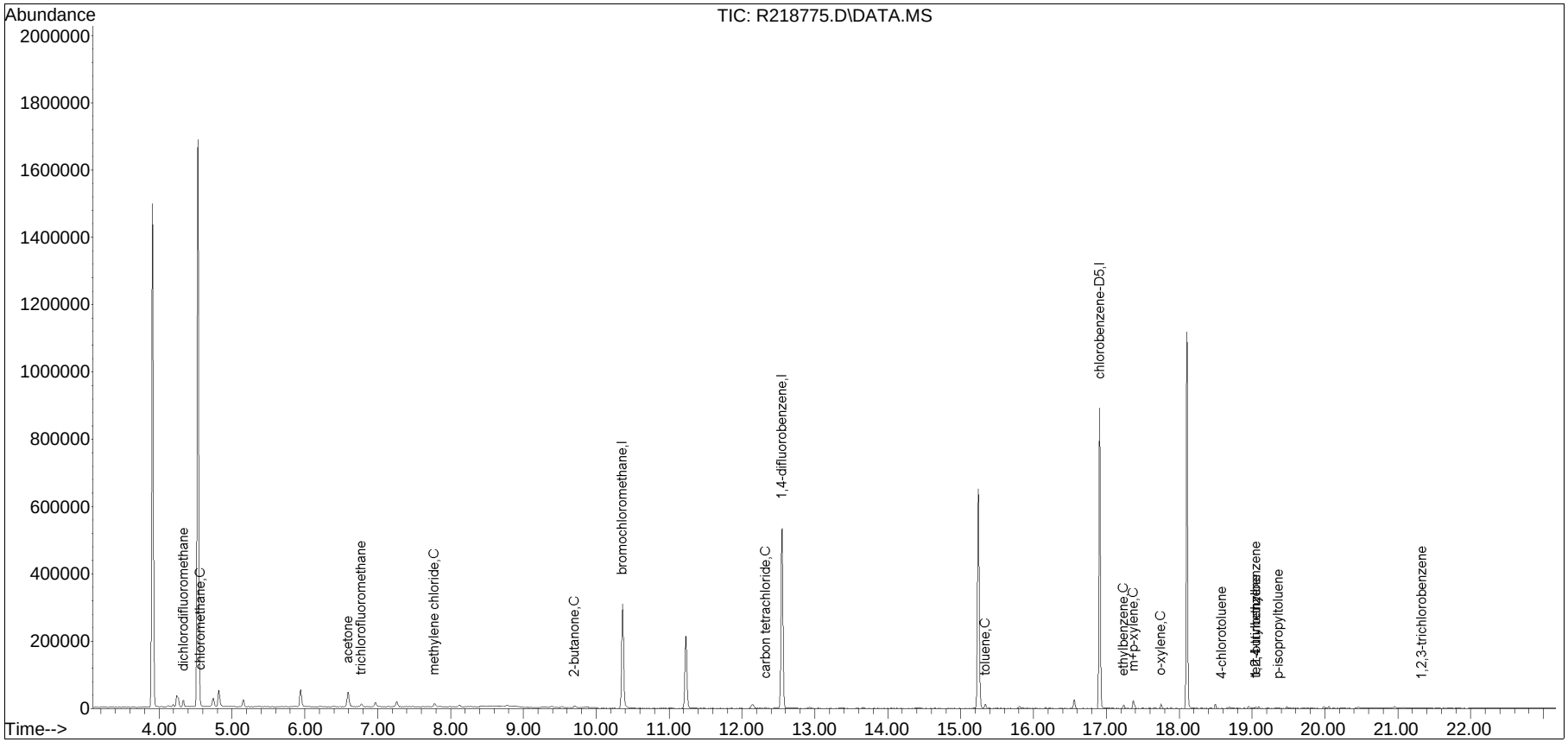
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64)	4-methyl-2-pentanone	14.393		0	N.D.		
66)	trans-1,3-dichloropropene	0.000		0	N.D.		
67)	1,1,2-trichloroethane	0.000		0	N.D.		
69)	toluene	15.341	91	8530	0.257	ppbV	94
72)	1,3-dichloropropane	0.000		0	N.D.	d	
73)	2-hexanone	15.542		0	N.D.		
75)	dibromochloromethane	0.000		0	N.D.		
76)	1,2-dibromoethane	0.000		0	N.D.		
80)	1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81)	chlorobenzene	0.000		0	N.D.		
82)	ethylbenzene	17.238	91	6562	0.177	ppbV	97
84)	m+p-xylene	17.370	91	14275	0.489	ppbV	96
85)	bromoform	0.000		0	N.D.		
86)	styrene	17.675		0	N.D.		
87)	1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88)	o-xylene	17.751	91	6349	0.203	ppbV	99
89)	1,2,3-trichloropropane	0.000		0	N.D.		
92)	isopropylbenzene	18.200		0	N.D.		
93)	bromobenzene	0.000		0	N.D.	d	
94)	2-chlorotoluene	0.000		0	N.D.		
95)	n-propylbenzene	0.000		0	N.D.	d	
96)	4-chlorotoluene	18.585	91	534	0.017	ppbV #	40
98)	1,3,5-trimethylbenzene	18.740		0	N.D.		
99)	tert-butylbenzene	19.050	119	214	0.006	ppbV #	54
100)	1,2,4-trimethylbenzene	19.053	105	2216	0.072	ppbV #	48
103)	1,3-dichlorobenzene	0.000		0	N.D.		
104)	1,4-dichlorobenzene	0.000		0	N.D.		
105)	sec-butylbenzene	0.000		0	N.D.	d	
107)	p-isopropyltoluene	19.363	119	433	0.011	ppbV #	49
108)	1,2-dichlorobenzene	0.000		0	N.D.		
109)	n-butylbenzene	0.000		0	N.D.	d	
112)	1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116)	1,2,4-trichlorobenzene	0.000		0	N.D.		
117)	naphthalene	21.080		0	N.D.		
118)	1,2,3-trichlorobenzene	21.328	180	112	0.006	ppbV #	11
120)	hexachlorobutadiene	0.000		0	N.D.		

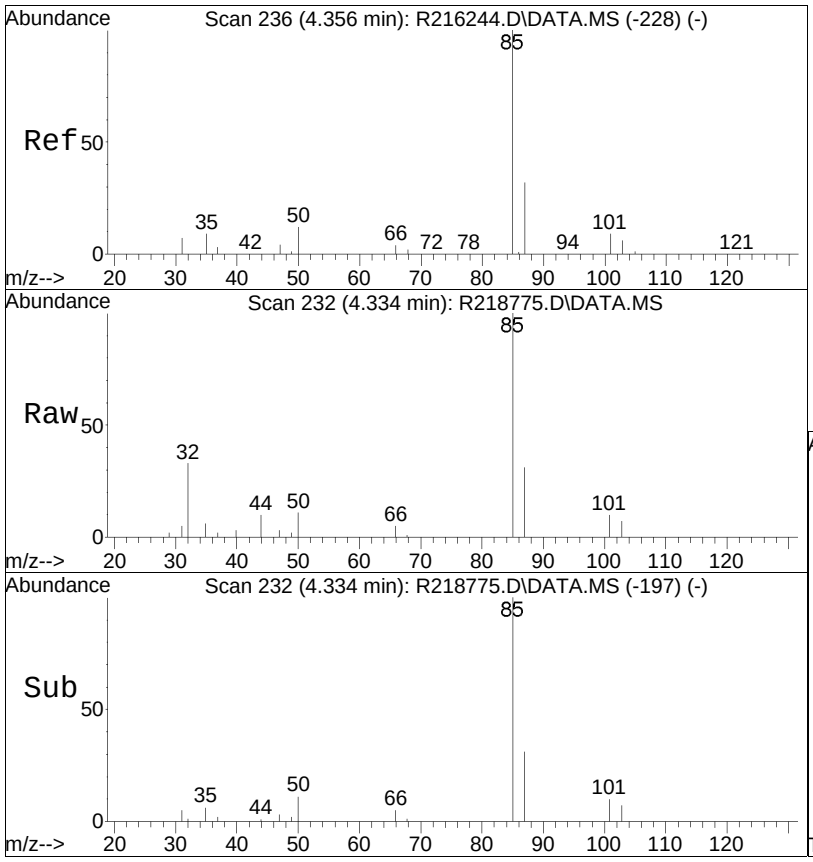
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218775.D
Acq On : 5 Jan 2012 22:04
Operator : AIRPIANO2:MB
Sample : L1200005-02,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 06 09:42:40 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

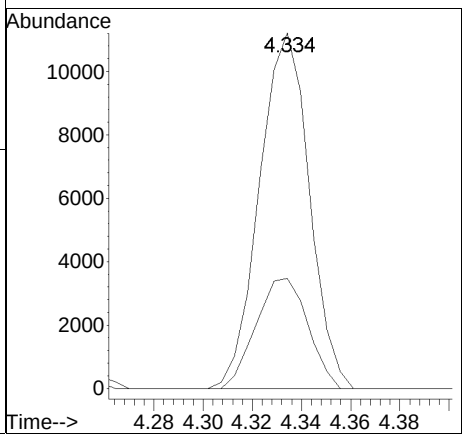


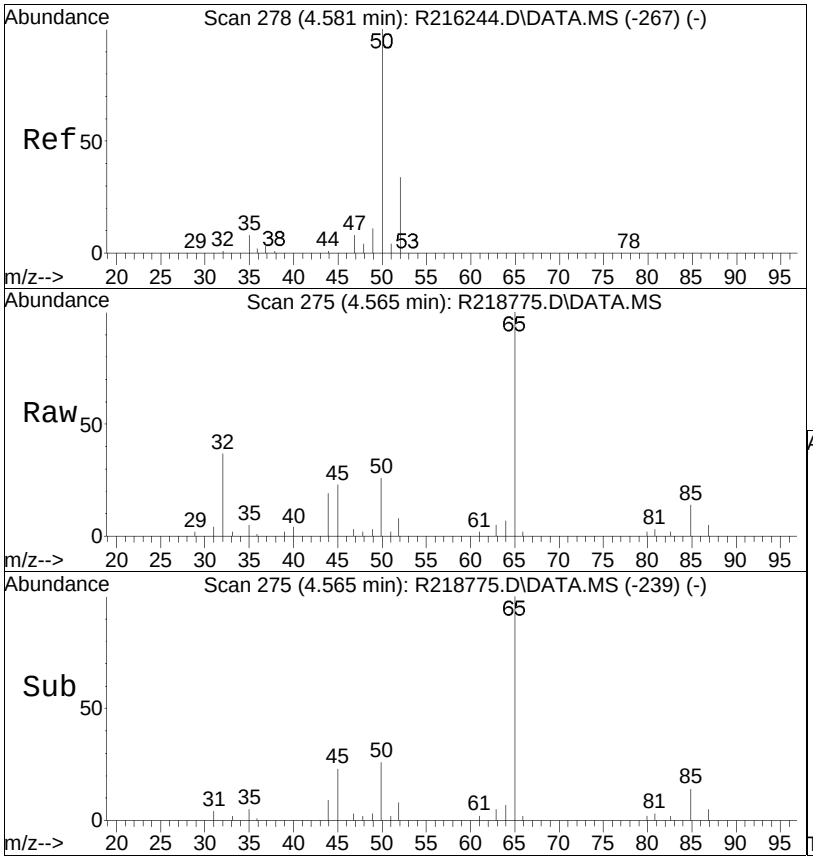


#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.334 min Scan# 232
Delta R.T. -0.011 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion: 85 Resp: 15773

Ion	Ratio	Lower	Upper
85	100		
87	31.0	26.4	39.6

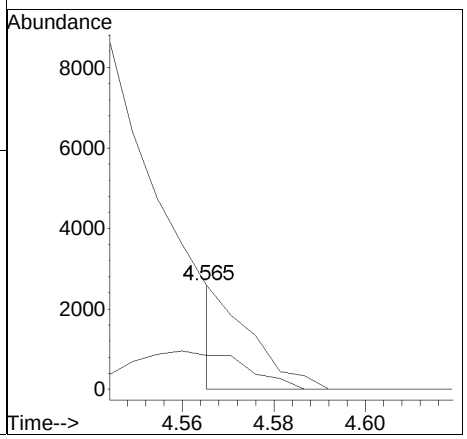


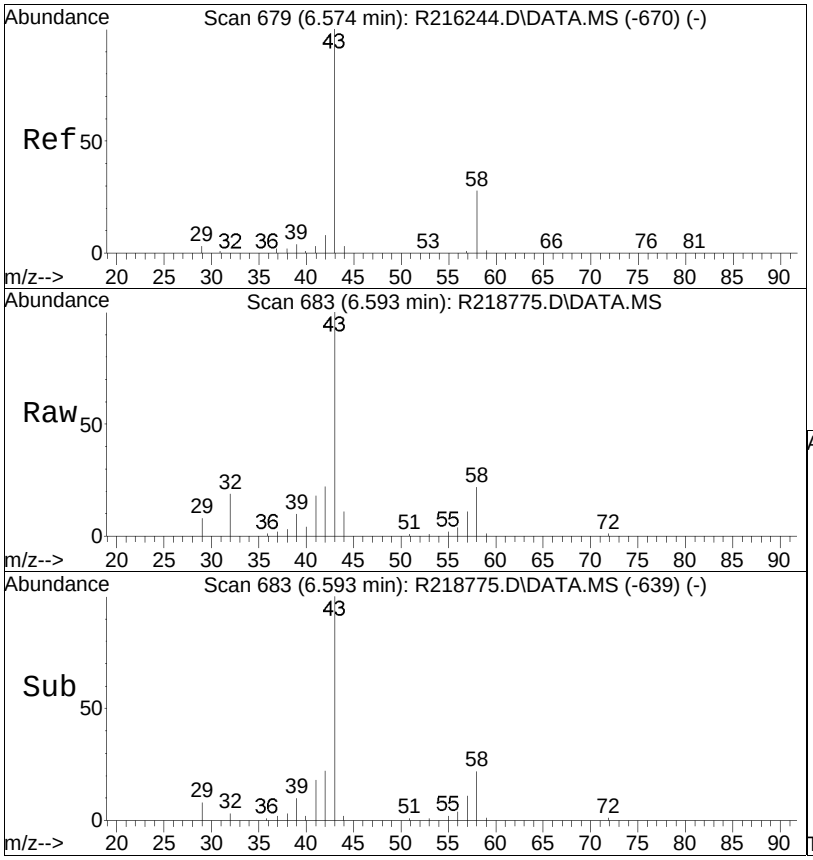


#6
chloromethane
Concen: 0.12 ppbV m
RT: 4.565 min Scan# 275
Delta R.T. -0.005 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion: 50 Resp: 1277

Ion	Ratio	Lower	Upper
50	100		
52	32.7	24.4	36.6

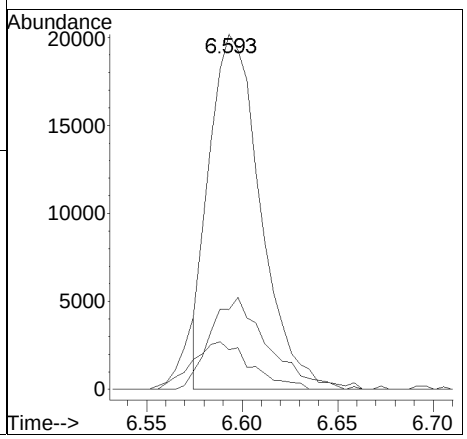


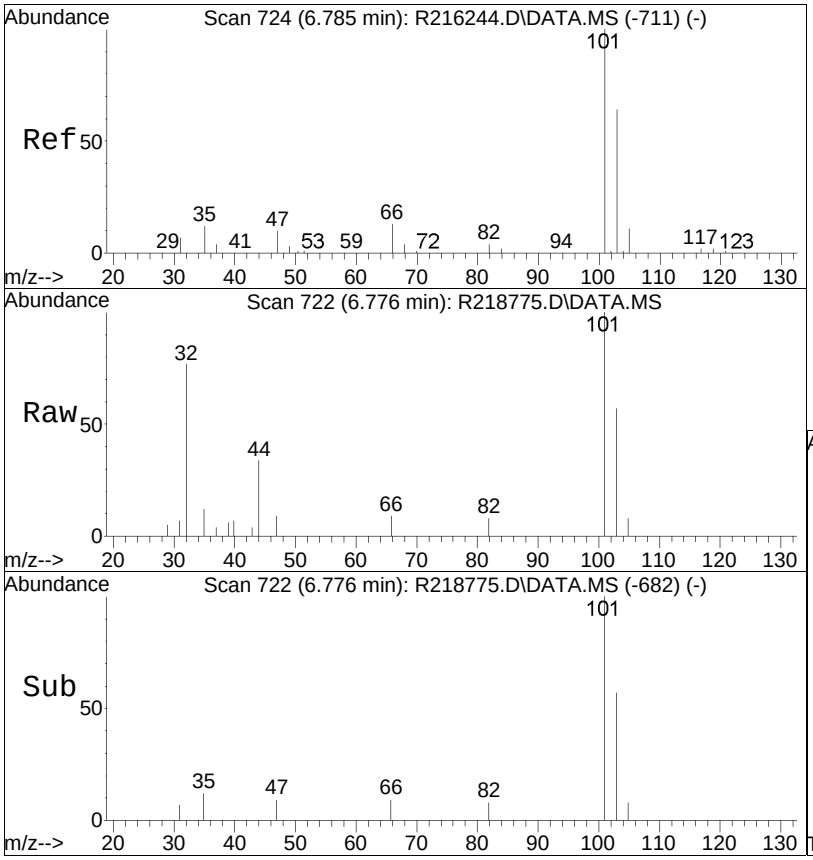


#19
acetone
Concen: 2.63 ppbV m
RT: 6.593 min Scan# 683
Delta R.T. 0.019 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion: 43 Resp: 37774

Ion	Ratio	Lower	Upper
43	100		
58	22.5	22.2	33.2
57	11.2	0.9	1.3#

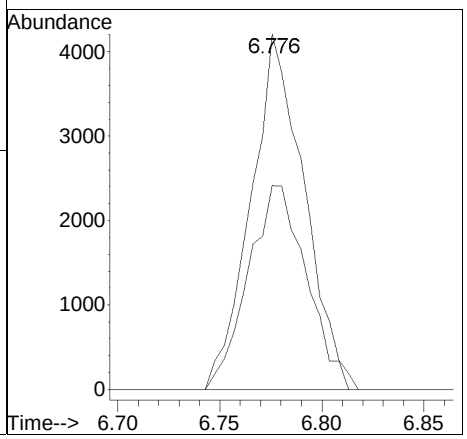


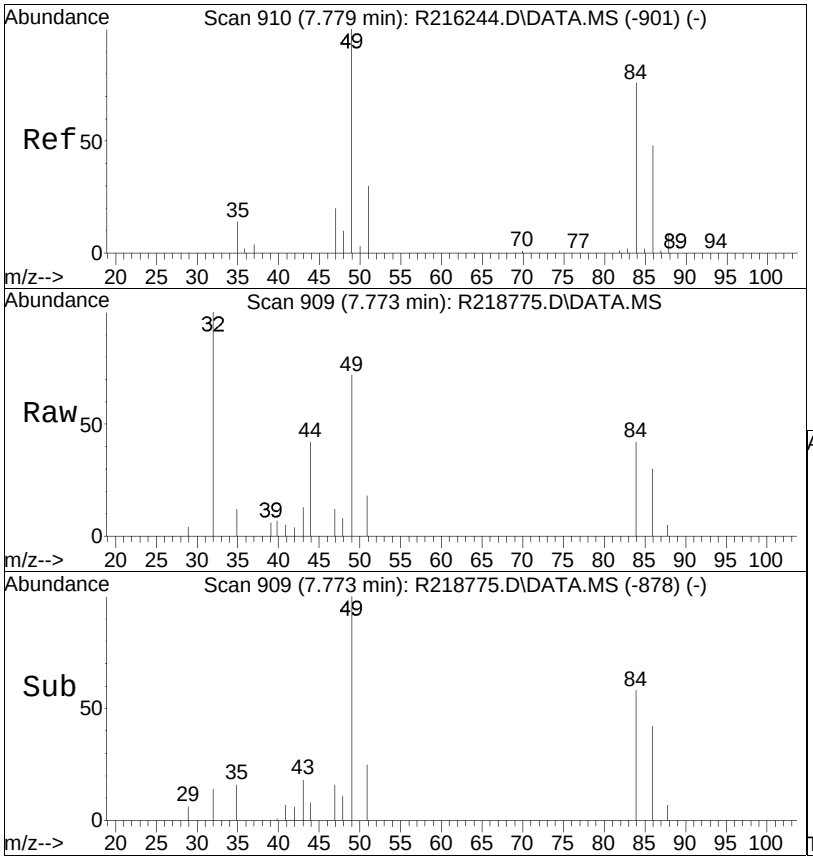


#21
trichlorofluoromethane
Concen: 0.22 ppbV
RT: 6.776 min Scan# 722
Delta R.T. -0.014 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion:101 Resp: 7659

Ion	Ratio	Lower	Upper
101	100		
103	57.4	50.2	75.2

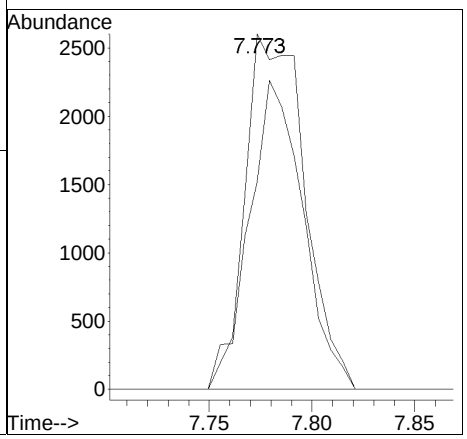


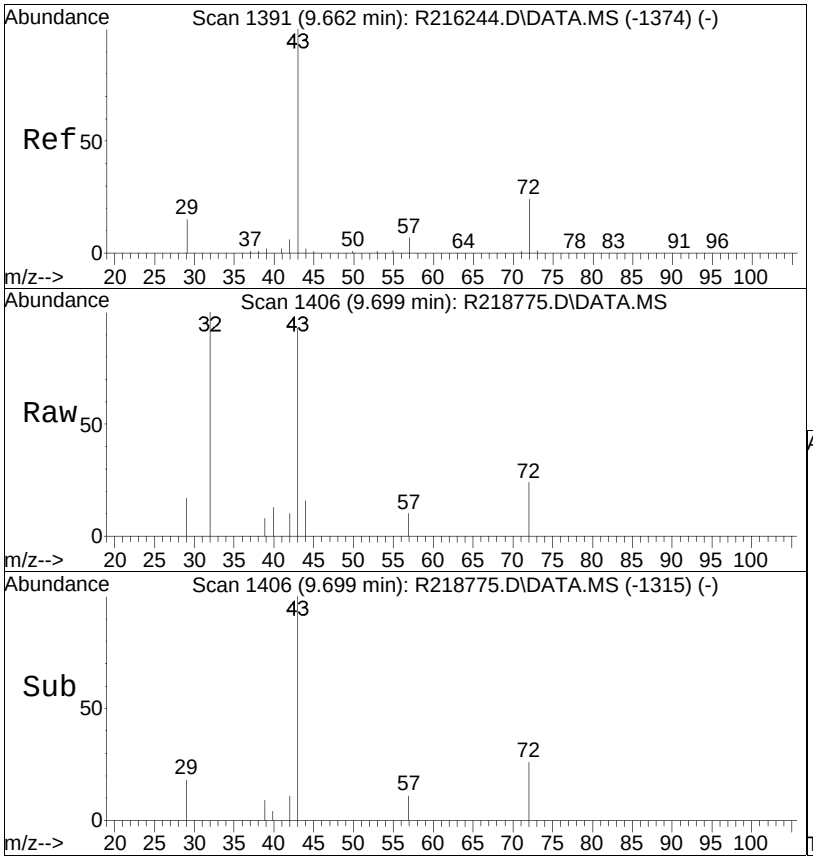


#28
methylene chloride
Concen: 0.36 ppbV
RT: 7.773 min Scan# 909
Delta R.T. -0.018 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion: 49 Resp: 5210

Ion	Ratio	Lower	Upper
49	100		
84	58.4	56.6	84.8

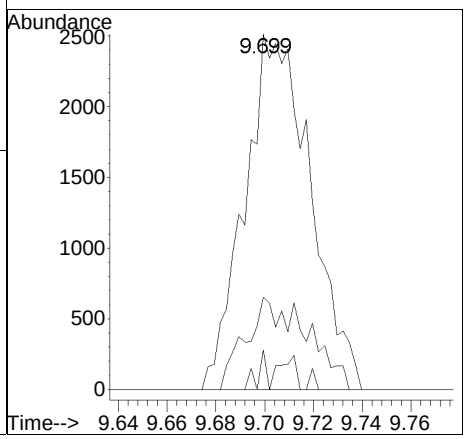


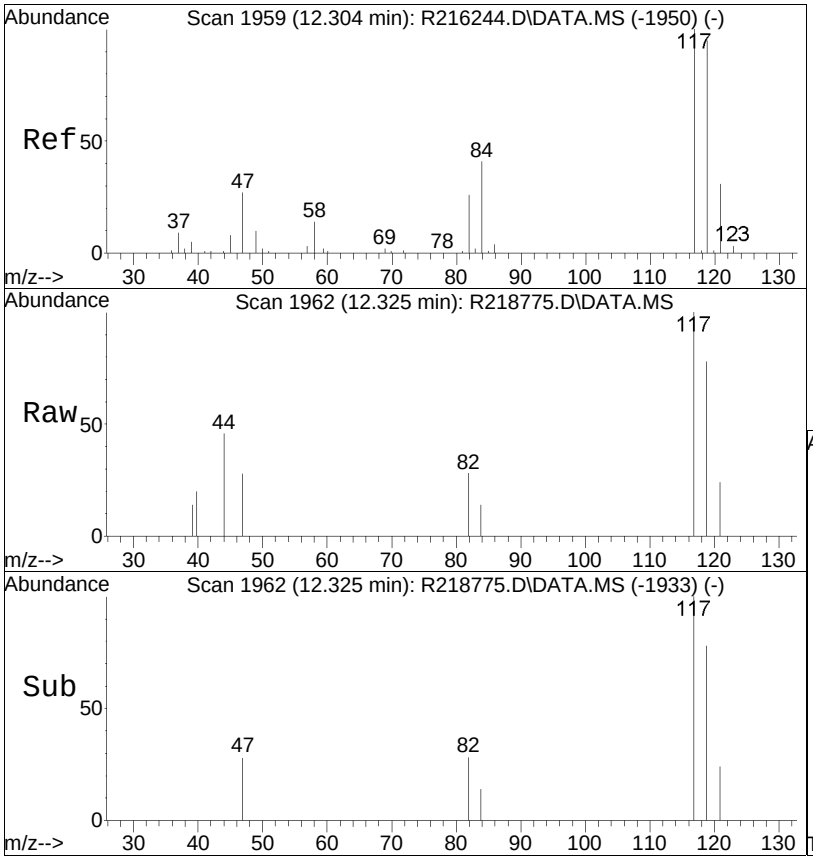


#36
2-butanone
Concen: 0.26 ppbV
RT: 9.699 min Scan# 1406
Delta R.T. 0.030 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion: 43 Resp: 4698

Ion	Ratio	Lower	Upper
43	100		
72	25.9	17.6	26.4
57	11.2	5.6	8.4#

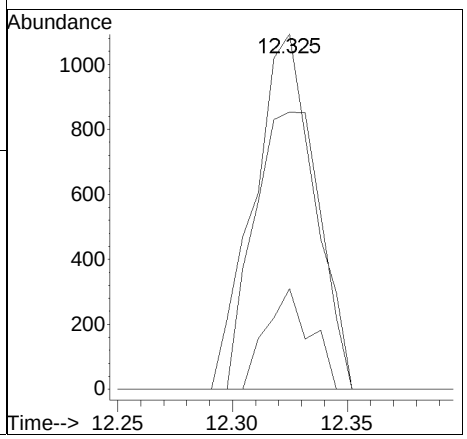


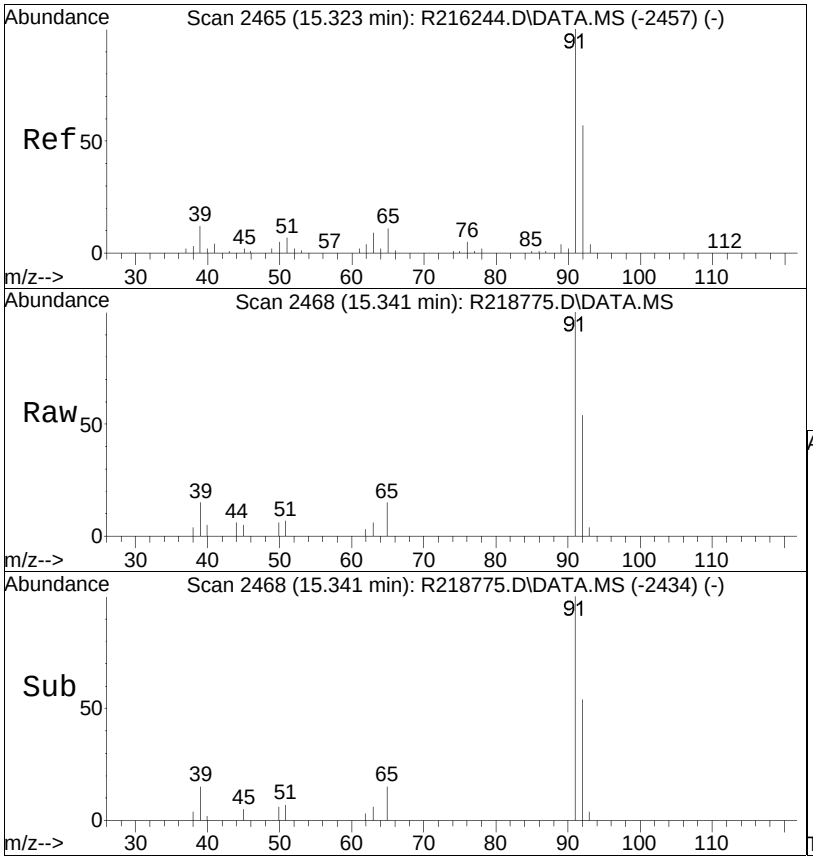


#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 12.325 min Scan# 1962
Delta R.T. 0.000 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion:117 Resp: 2016

Ion	Ratio	Lower	Upper
117	100		
119	78.0	76.8	115.2
82	28.4	19.4	29.0

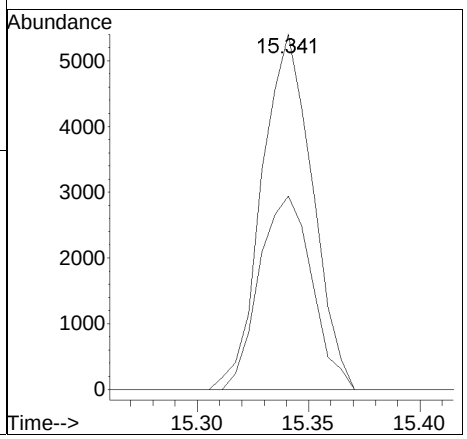


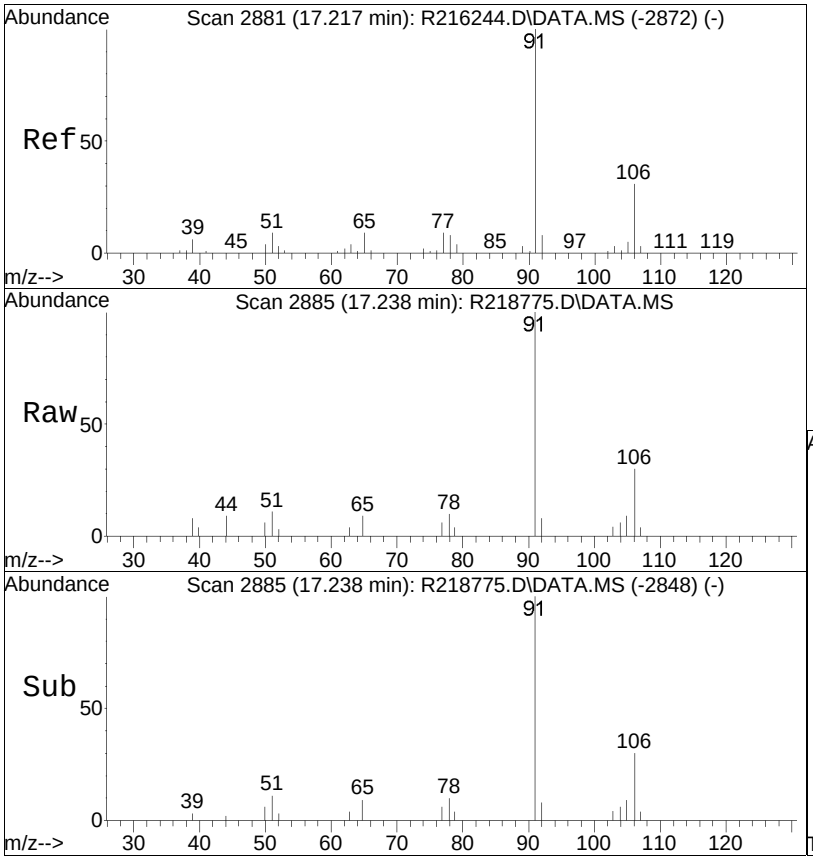


#69
toluene
Concen: 0.26 ppbV
RT: 15.341 min Scan# 2468
Delta R.T. 0.000 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion: 91 Resp: 8530

Ion	Ratio	Lower	Upper
91	100		
92	54.4	47.0	70.4

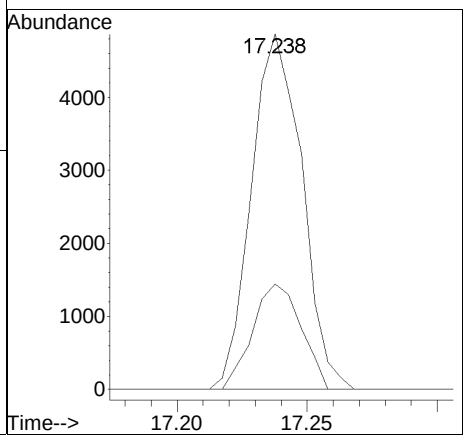


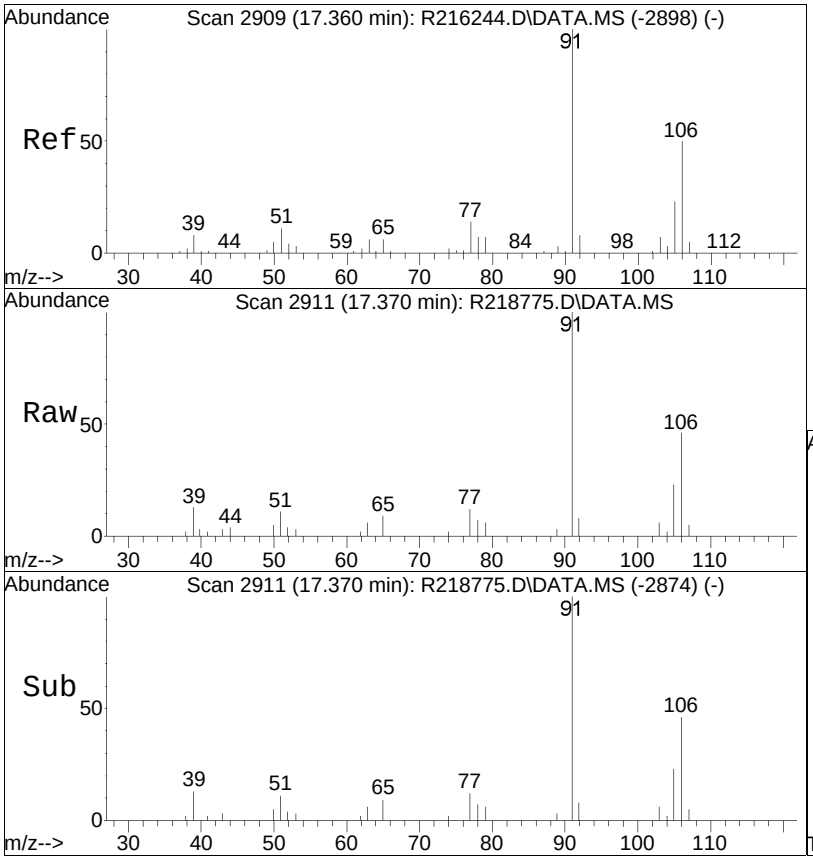


#82
ethylbenzene
Concen: 0.18 ppbV
RT: 17.238 min Scan# 2885
Delta R.T. 0.000 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion: 91 Resp: 6562

Ion	Ratio	Lower	Upper
91	100		
106	29.7	25.1	37.7

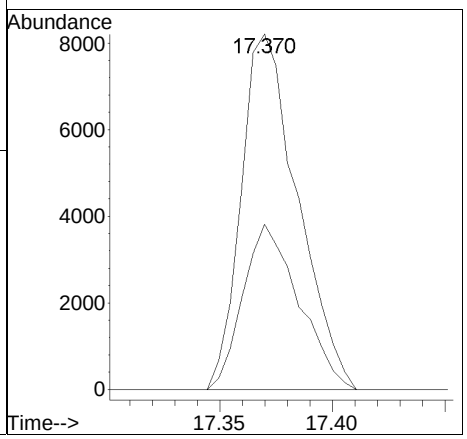


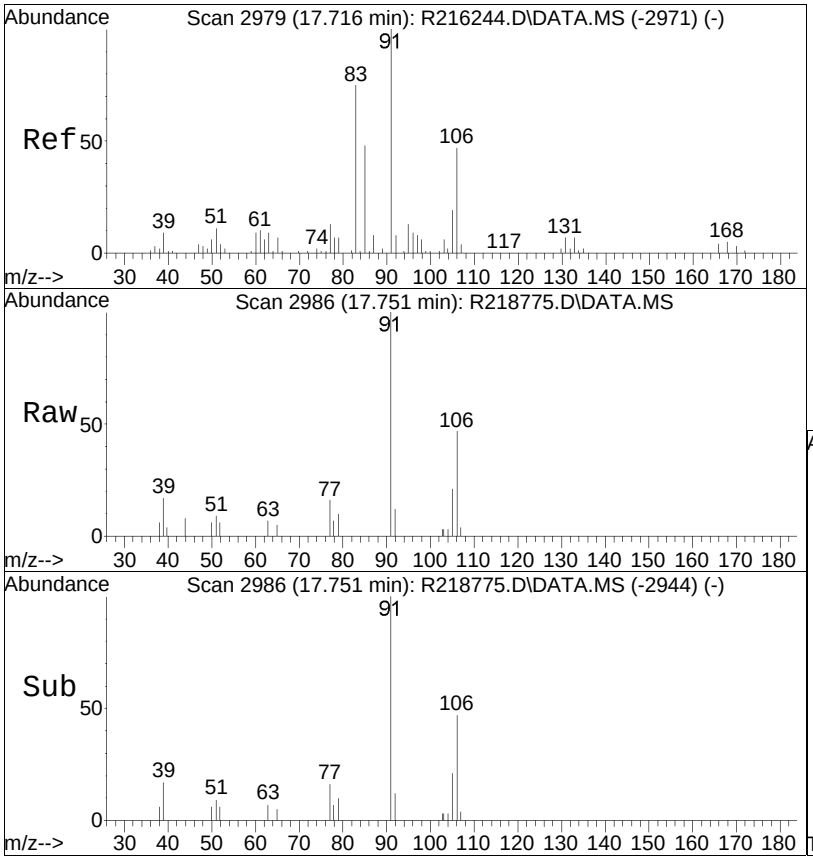


#84
m+p-xylene
Concen: 0.49 ppbV
RT: 17.370 min Scan# 2911
Delta R.T. -0.010 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion: 91 Resp: 14275

Ion	Ratio	Lower	Upper
91	100		
106	46.5	39.5	59.3

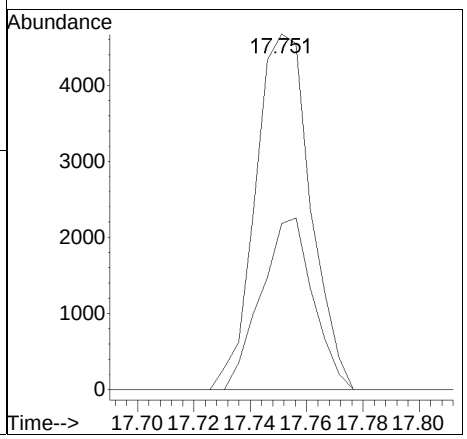


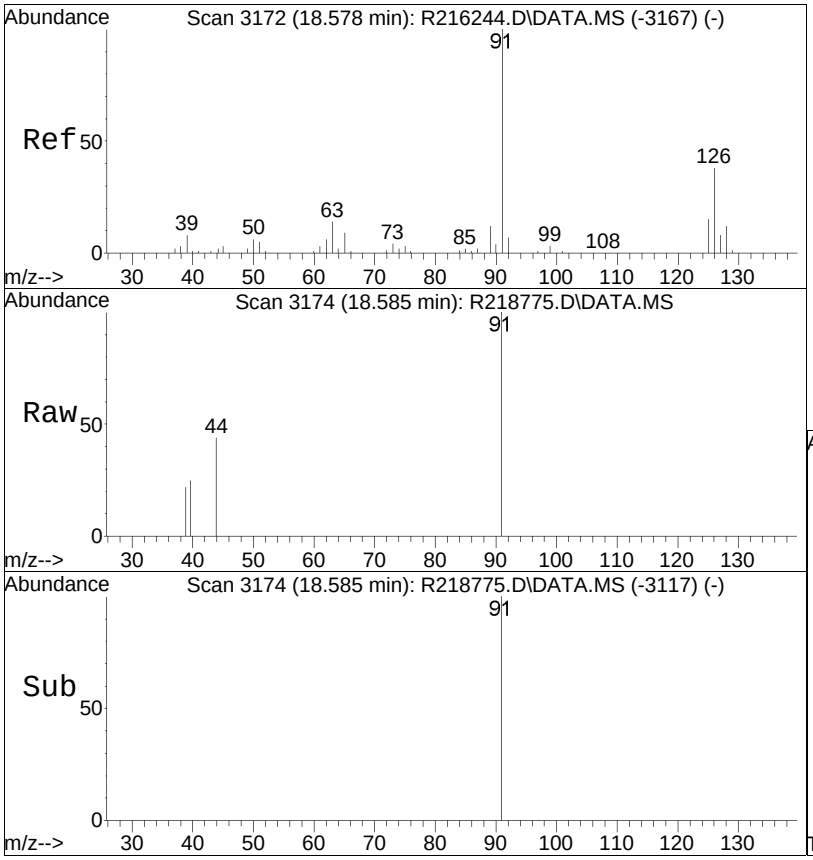


#88
o-xylene
Concen: 0.20 ppbV
RT: 17.751 min Scan# 2986
Delta R.T. 0.015 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion: 91 Resp: 6349

Ion	Ratio	Lower	Upper
91	100		
106	46.7	38.1	57.1

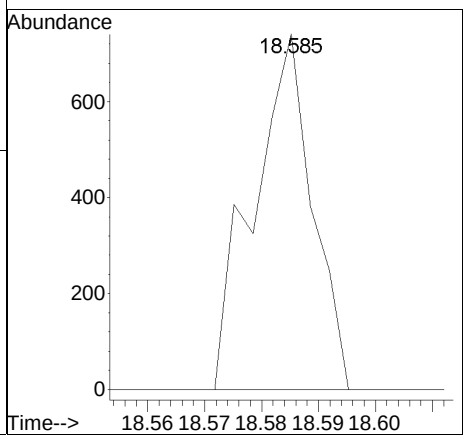


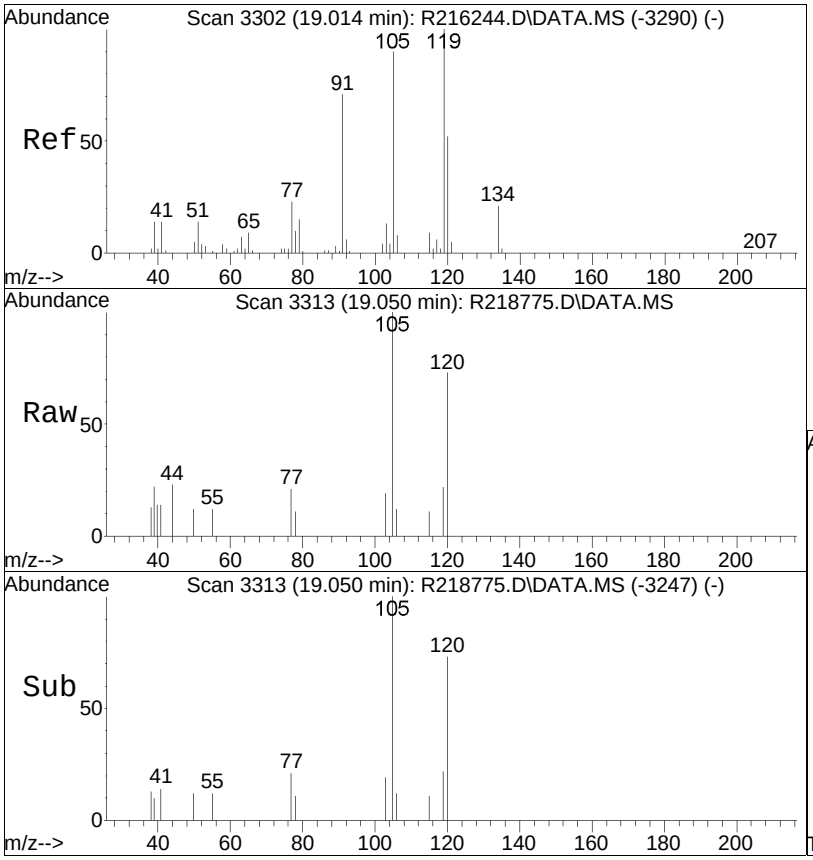


#96
4-chlorotoluene
Concen: 0.02 ppbV
RT: 18.585 min Scan# 3174
Delta R.T. -0.010 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion: 91 Resp: 534

Ion	Ratio	Lower	Upper
91	100		
126	0.0	28.2	42.2#

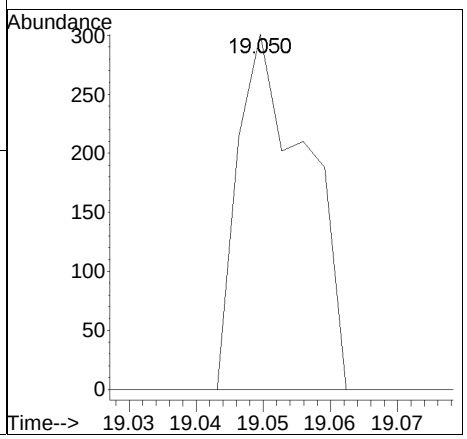


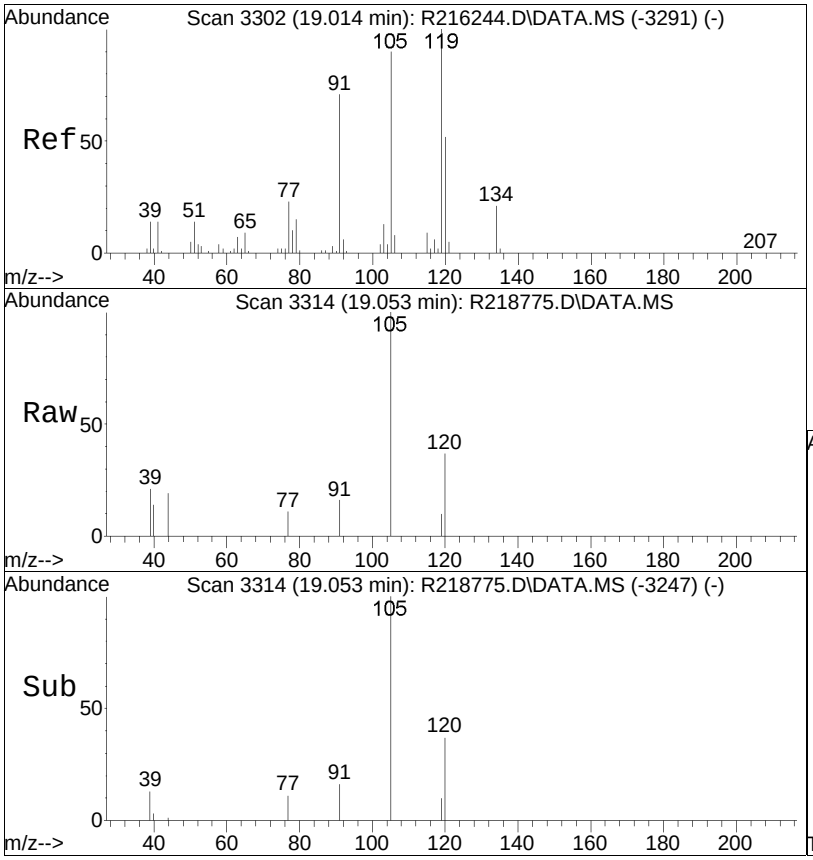


#99
tert-butylbenzene
Concen: 0.01 ppbV
RT: 19.050 min Scan# 3313
Delta R.T. 0.019 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion:119 Resp: 214

Ion	Ratio	Lower	Upper
119	100		
134	0.0	17.2	25.8#

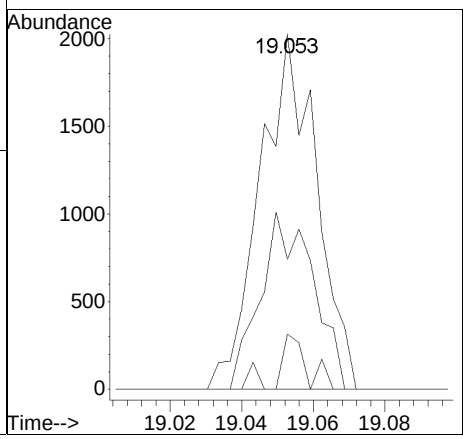


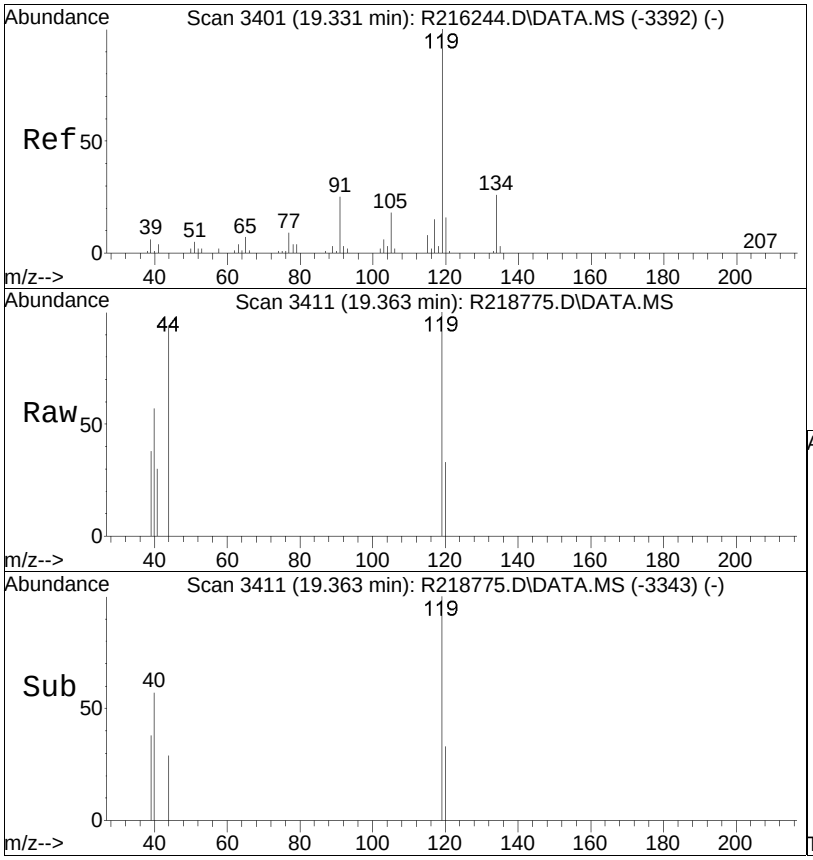


#100
1,2,4-trimethylbenzene
Concen: 0.07 ppbV
RT: 19.053 min Scan# 3314
Delta R.T. 0.022 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion:105 Resp: 2216

Ion	Ratio	Lower	Upper
105	100		
120	36.6	44.1	66.1#
91	15.5	61.6	92.4#

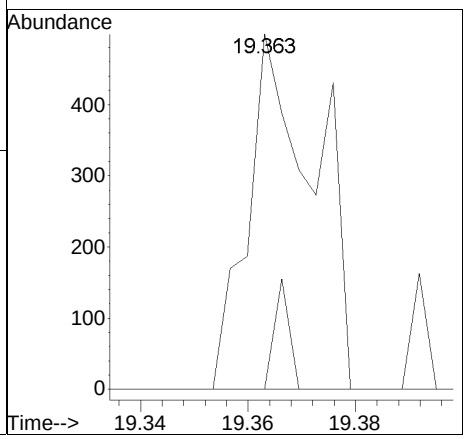


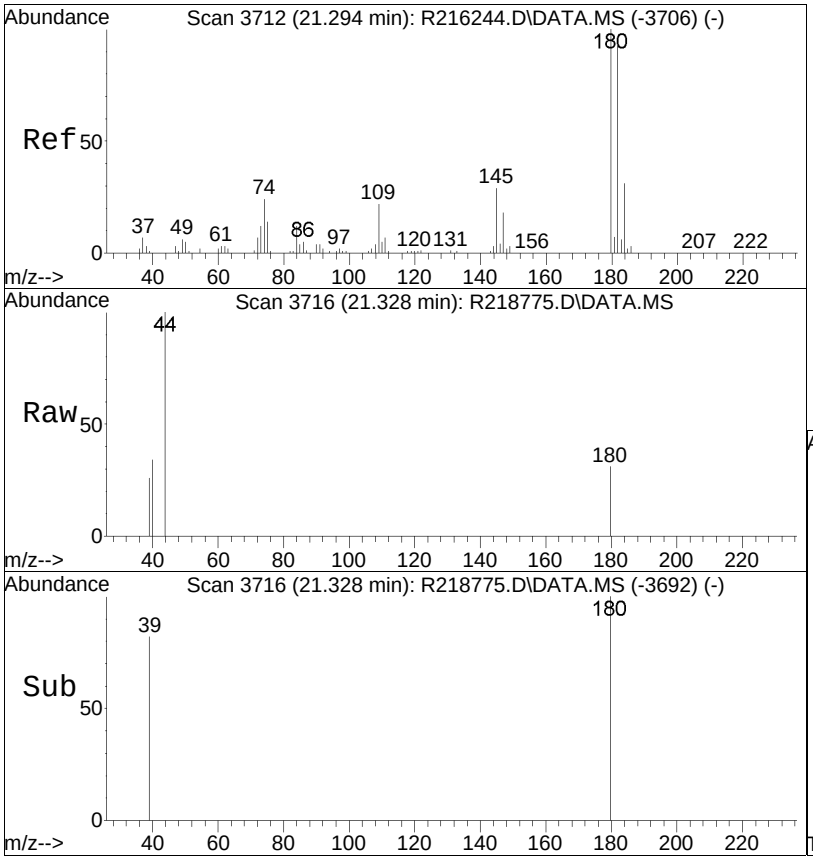


#107
p-isopropyltoluene
Concen: 0.01 ppbV
RT: 19.363 min Scan# 3411
Delta R.T. 0.016 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion:119 Resp: 433

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

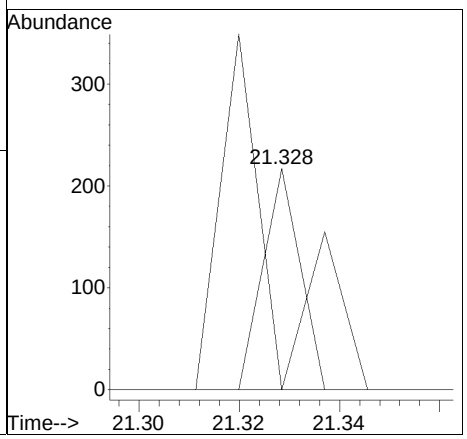




#118
1,2,3-trichlorobenzene
Concen: 0.01 ppbV
RT: 21.328 min Scan# 3716
Delta R.T. 0.008 min
Lab File: R218775.D
Acq: 5 Jan 2012 22:04

Tgt Ion:180 Resp: 112

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.9	115.3#
109	0.0	17.9	26.9#

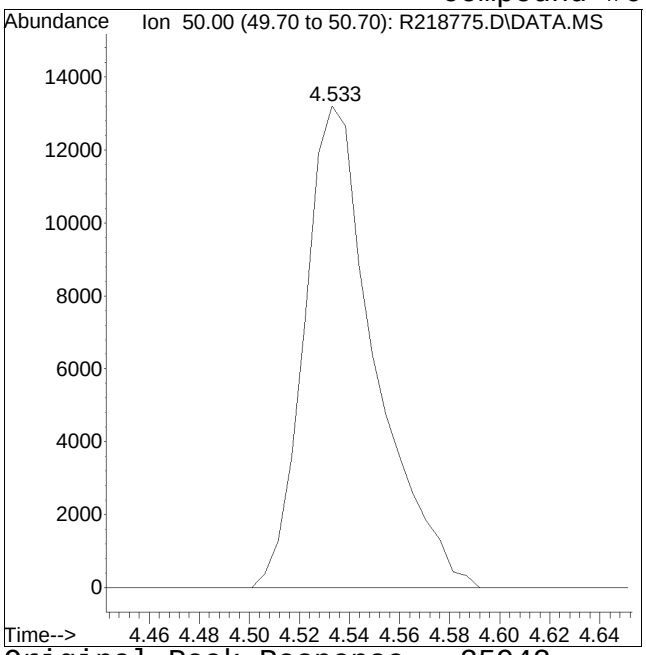


Manual Integration/Negative Proof Report

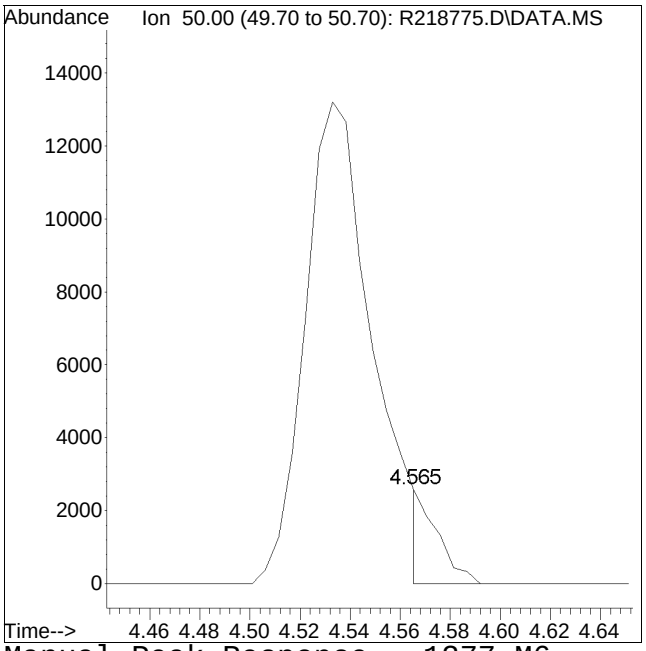
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218775.D
Date Inj'd : 1/5/2012 22:04
Sample : L1200005-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #6: chloromethane



Original Peak Response = 25942



Manual Peak Response = 1277 M6

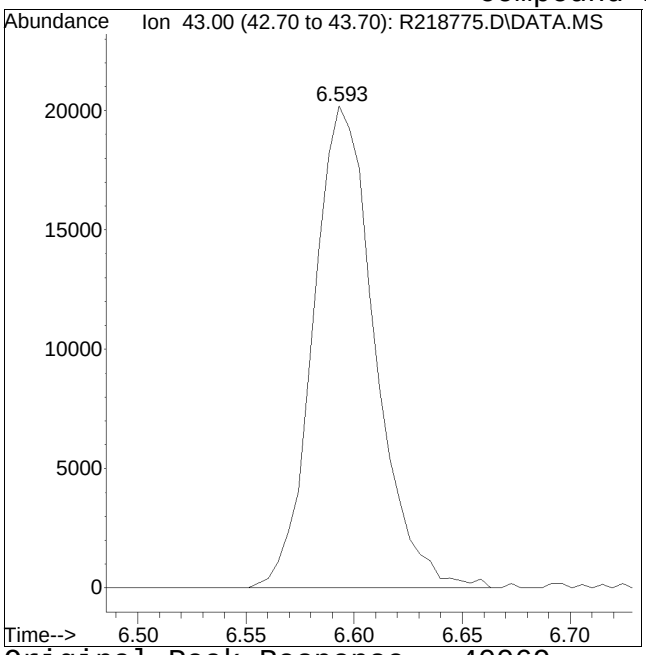
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

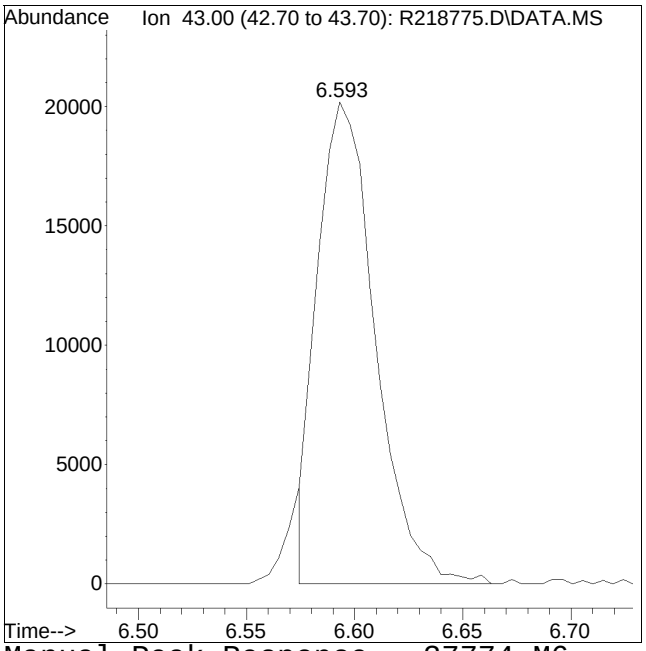
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218775.D
Date Inj'd : 1/5/2012 22:04
Sample : L1200005-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #19: acetone



Original Peak Response = 40069



Manual Peak Response = 37774 M6

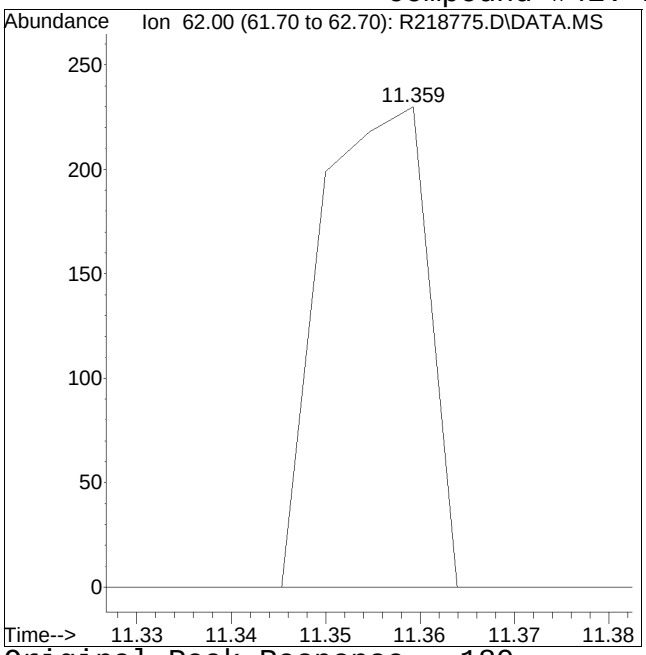
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

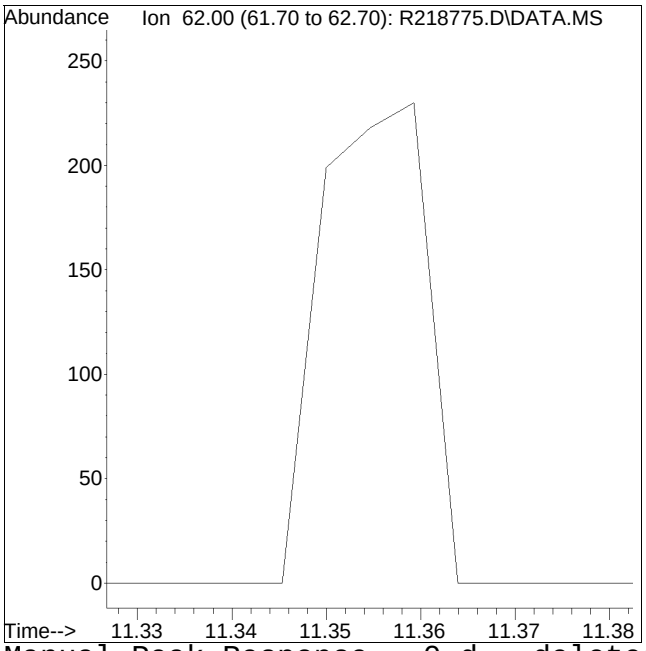
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218775.D
Date Inj'd : 1/5/2012 22:04
Sample : L1200005-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #42: 1,2-dichloroethane



Original Peak Response = 180



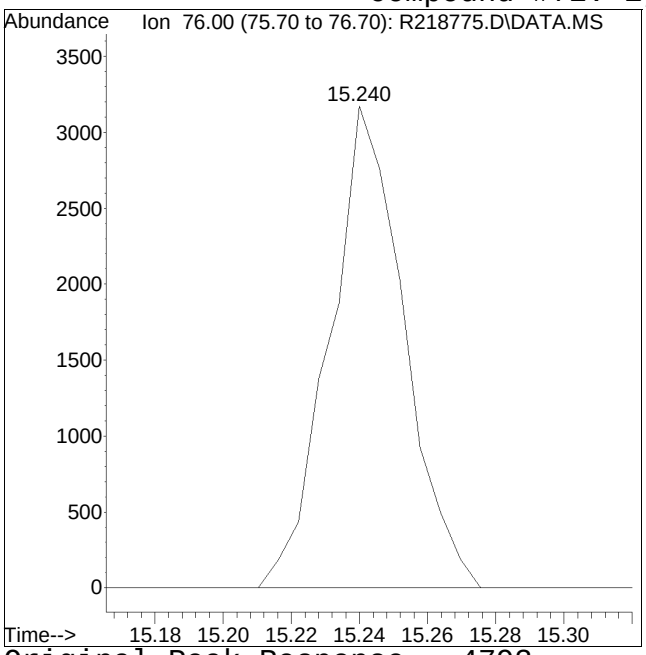
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

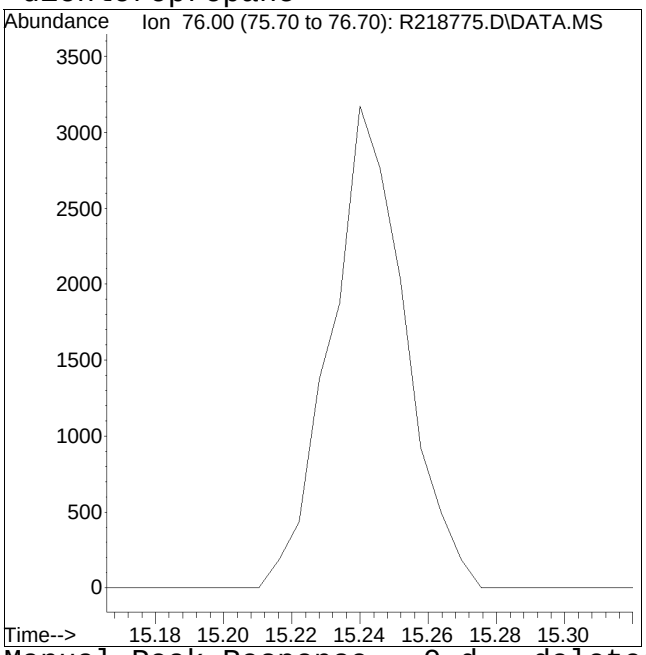
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218775.D
Date Inj'd : 1/5/2012 22:04
Sample : L1200005-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 4793



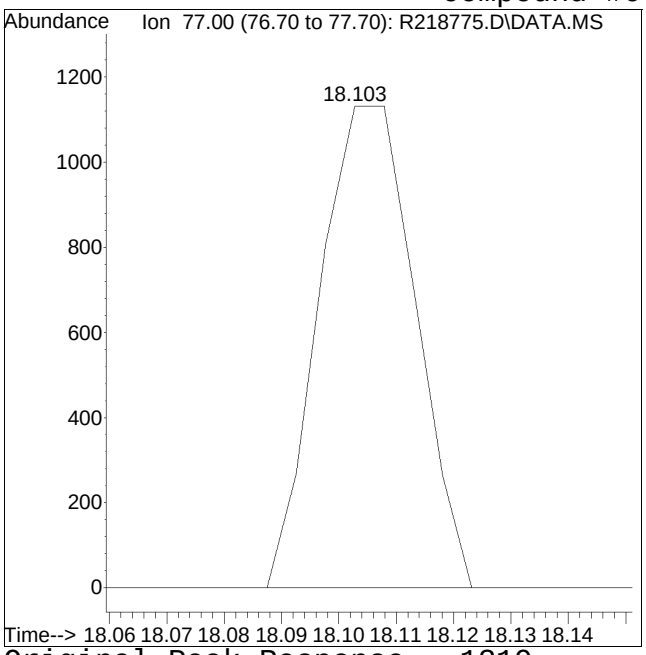
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

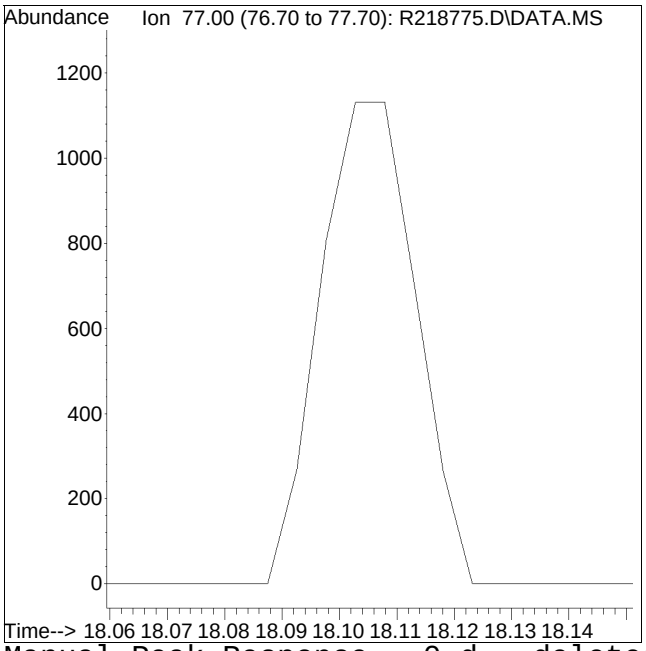
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218775.D
Date Inj'd : 1/5/2012 22:04
Sample : L1200005-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #93: bromobenzene



Original Peak Response = 1319



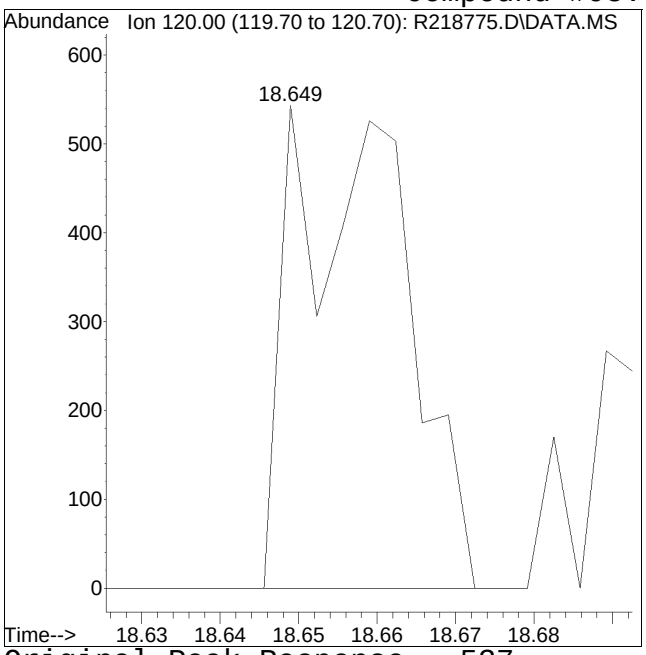
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

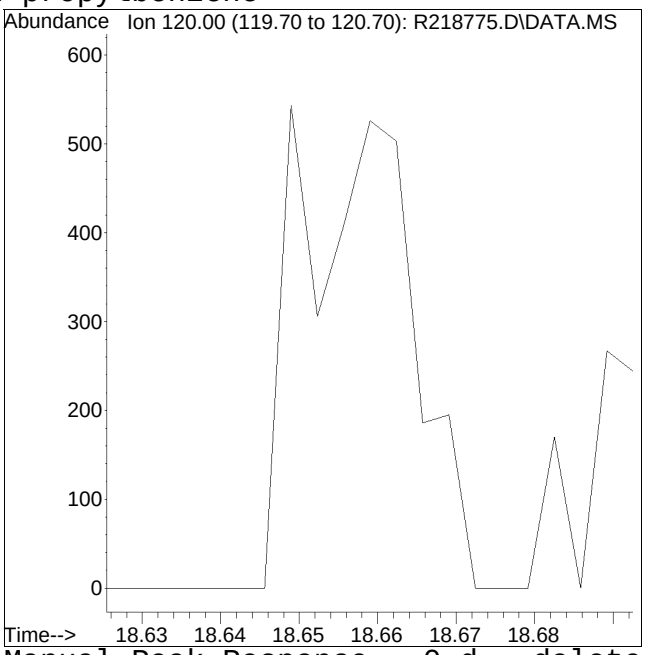
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218775.D
Date Inj'd : 1/5/2012 22:04
Sample : L1200005-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #95: n-propylbenzene



Original Peak Response = 537



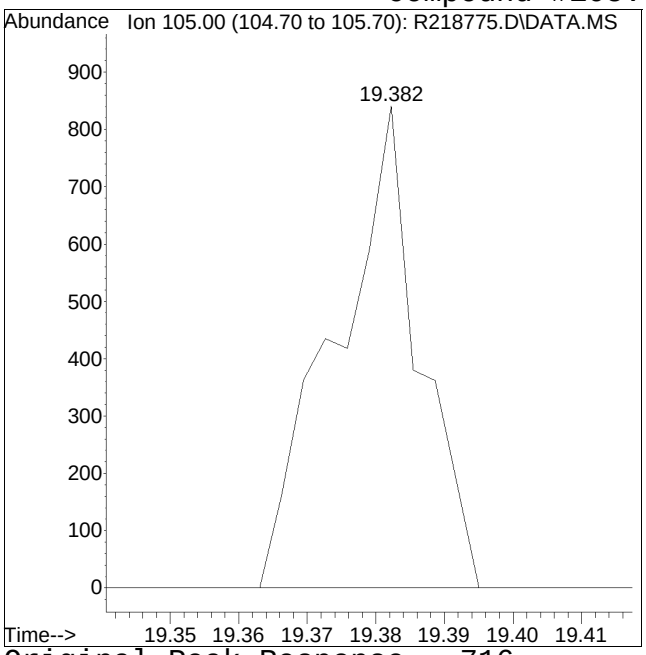
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

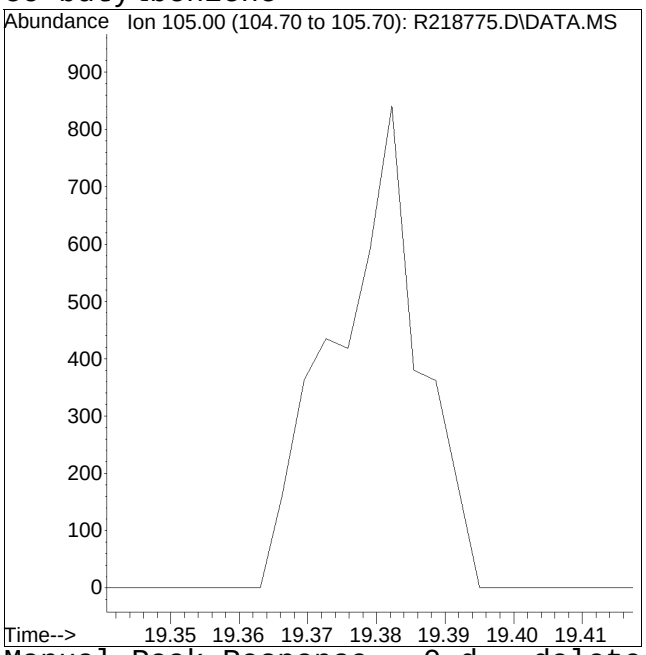
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218775.D
Date Inj'd : 1/5/2012 22:04
Sample : L1200005-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #105: sec-butylbenzene



Original Peak Response = 716



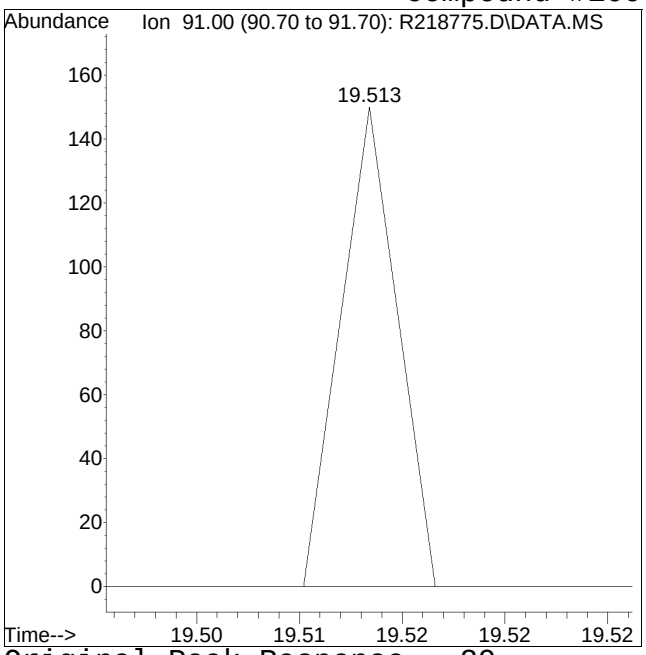
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

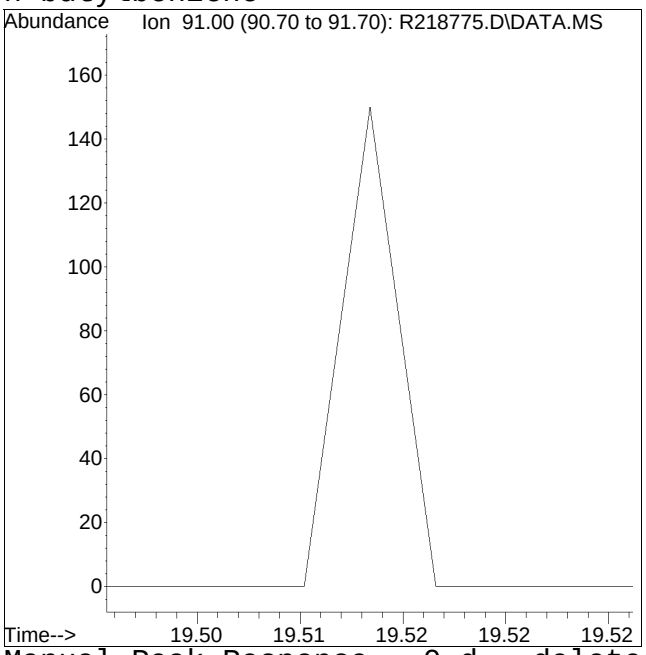
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218775.D
Date Inj'd : 1/5/2012 22:04
Sample : L1200005-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #109: n-butylbenzene



Original Peak Response = 29



Manual Peak Response = 0 d - deleted

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218776.D
Acq On : 5 Jan 2012 22:40
Operator : AIRPIANO2:MB
Sample : L1200005-03,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 06 09:41:13 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	137321	10.000	ppbV	0.00
Standard Area = 151117			Recovery =		90.87%	
43) 1,4-difluorobenzene	12.549	114	434380	10.000	ppbV	0.00
Standard Area = 485506			Recovery =		89.47%	
68) chlorobenzene-D5	16.908	54	80413	10.000	ppbV	0.00
Standard Area = 90670			Recovery =		88.69%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	15695	0.463	ppbV	94
6) chloromethane	4.565	50	3229M6	0.307	ppbV	
9) vinyl chloride	0.000		0	N.D.		
13) bromomethane	5.490		0	N.D.		
14) chloroethane	0.000		0	N.D.		
19) acetone	6.598	43	23837M6	1.680	ppbV	
21) trichlorofluoromethane	6.775	101	7174	0.207	ppbV	93
25) ethyl ether	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	7.779	49	6411	0.446	ppbV	89
30) carbon disulfide	8.118		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.709	43	2067	0.117	ppbV #	89
37) cis-1,2-dichloroethene	0.000		0	N.D.		
40) Tetrahydrofuran	11.011		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.	d	
45) diisopropyl ether	0.000		0	N.D.		
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.325	117	2142	0.080	ppbV #	74
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	0.000		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218776.D
Acq On : 5 Jan 2012 22:40
Operator : AIRPIANO2:MB
Sample : L1200005-03,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 06 09:41:13 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

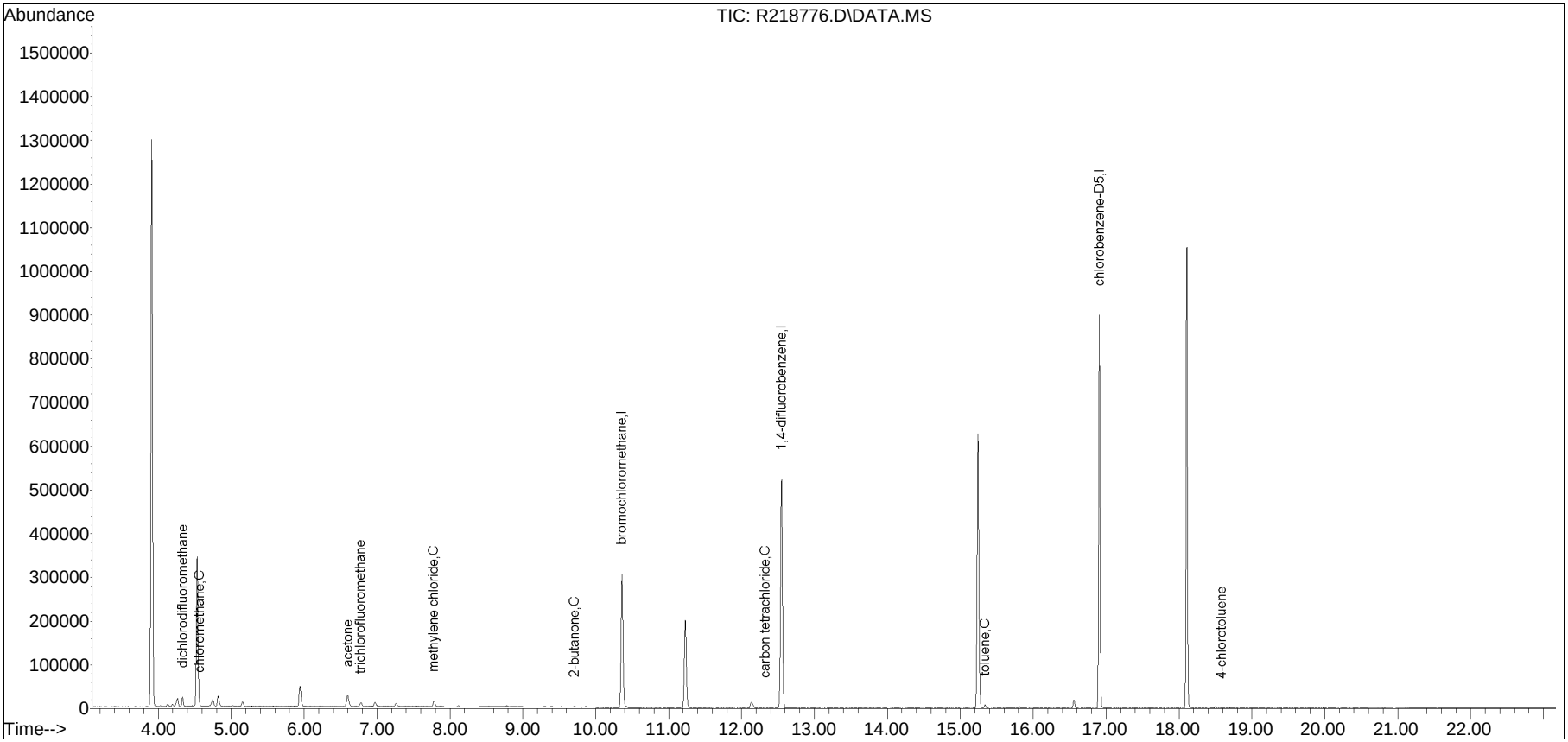
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 4-methyl-2-pentanone	14.407		0	N.D.		
66) trans-1,3-dichloropropene	0.000		0	N.D.		
67) 1,1,2-trichloroethane	0.000		0	N.D.		
69) toluene	15.341	91	5686	0.175	ppbV	99
72) 1,3-dichloropropane	0.000		0	N.D.	d	
73) 2-hexanone	0.000		0	N.D.		
75) dibromochloromethane	0.000		0	N.D.		
76) 1,2-dibromoethane	0.000		0	N.D.		
80) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81) chlorobenzene	0.000		0	N.D.		
82) ethylbenzene	17.243		0	N.D.		
84) m+p-xylene	17.375		0	N.D.		
85) bromoform	0.000		0	N.D.		
86) styrene	17.665		0	N.D.		
87) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88) o-xylene	17.751		0	N.D.		
89) 1,2,3-trichloropropane	0.000		0	N.D.		
92) isopropylbenzene	18.199		0	N.D.		
93) bromobenzene	0.000		0	N.D.	d	
94) 2-chlorotoluene	0.000		0	N.D.		
95) n-propylbenzene	0.000		0	N.D.		
96) 4-chlorotoluene	18.585	91	42	0.001	ppbV #	40
98) 1,3,5-trimethylbenzene	18.743		0	N.D.		
99) tert-butylbenzene	0.000		0	N.D.		
100) 1,2,4-trimethylbenzene	19.053		0	N.D.		
103) 1,3-dichlorobenzene	0.000		0	N.D.		
104) 1,4-dichlorobenzene	0.000		0	N.D.		
105) sec-butylbenzene	0.000		0	N.D.	d	
107) p-isopropyltoluene	0.000		0	N.D.		
108) 1,2-dichlorobenzene	0.000		0	N.D.		
109) n-butylbenzene	0.000		0	N.D.		
112) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116) 1,2,4-trichlorobenzene	0.000		0	N.D.		
117) naphthalene	21.071		0	N.D.		
118) 1,2,3-trichlorobenzene	0.000		0	N.D.		
120) hexachlorobutadiene	0.000		0	N.D.		

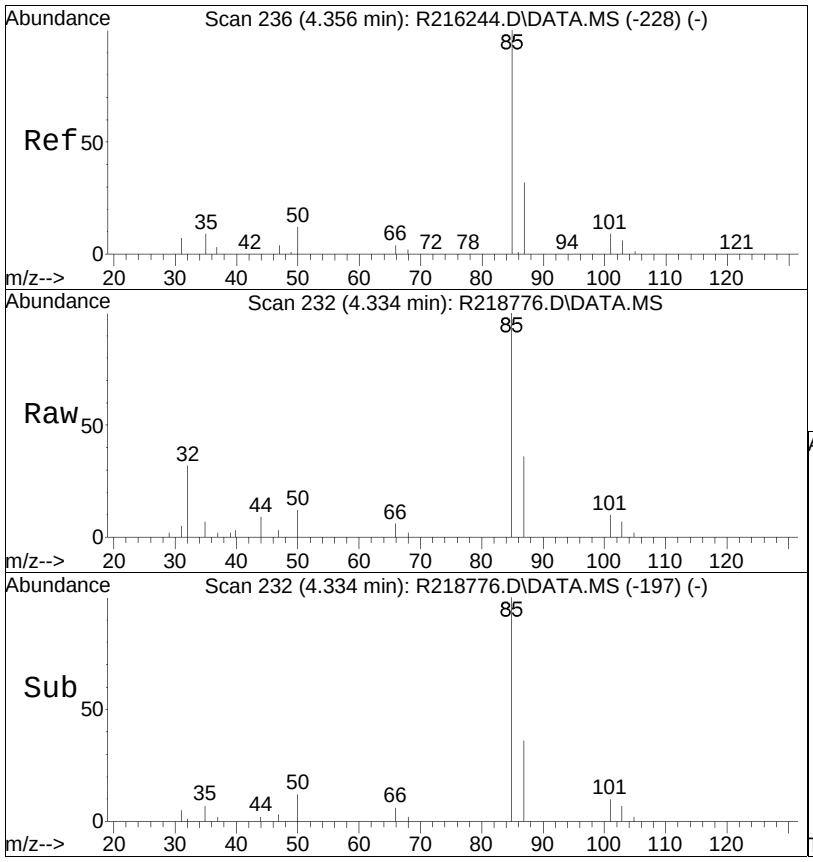
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218776.D
Acq On : 5 Jan 2012 22:40
Operator : AIRPIANO2:MB
Sample : L1200005-03,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 06 09:41:13 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

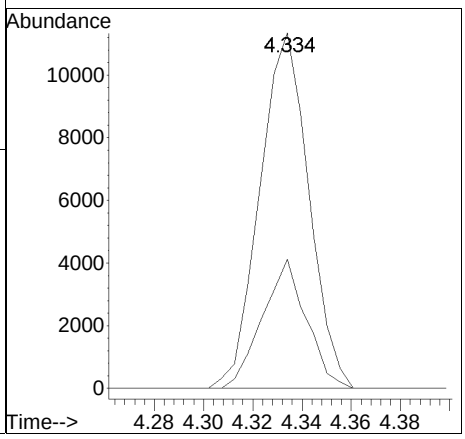


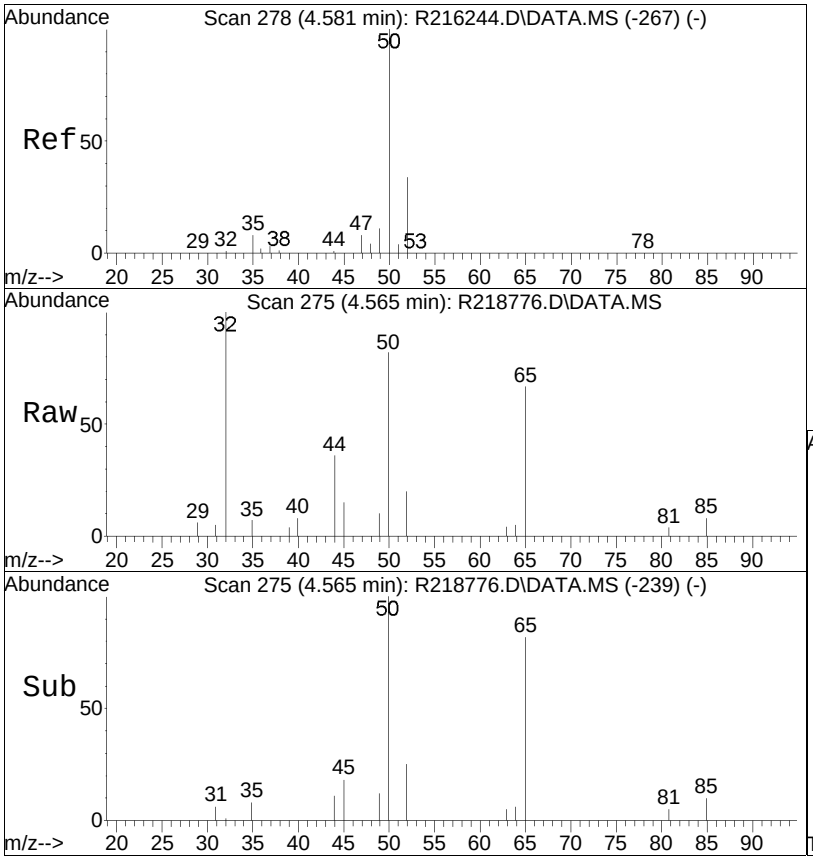


#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.334 min Scan# 232
Delta R.T. -0.011 min
Lab File: R218776.D
Acq: 5 Jan 2012 22:40

Tgt Ion: 85 Resp: 15695

Ion	Ratio	Lower	Upper
85	100		
87	36.3	26.4	39.6

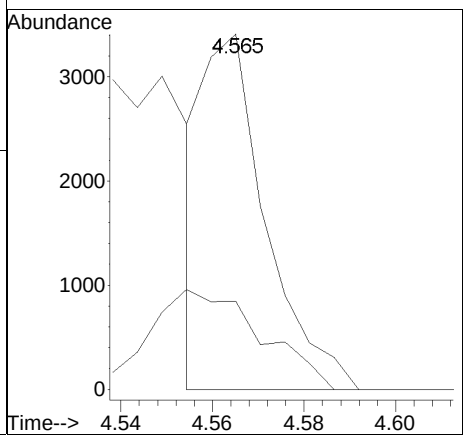


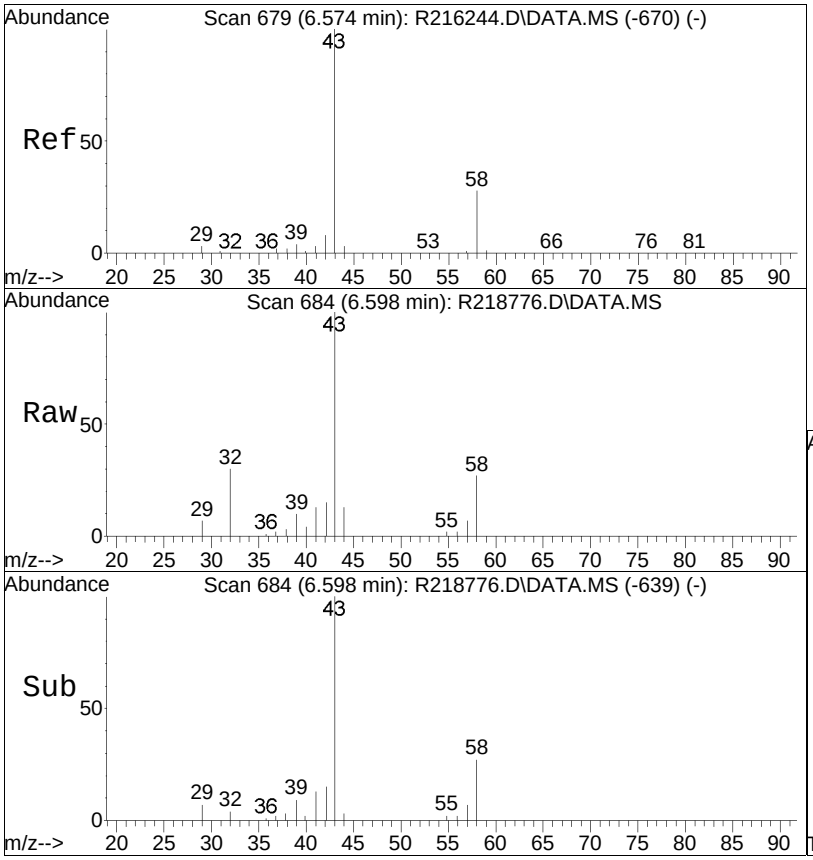


#6
chloromethane
Concen: 0.31 ppbV m
RT: 4.565 min Scan# 275
Delta R.T. -0.005 min
Lab File: R218776.D
Acq: 5 Jan 2012 22:40

Tgt Ion: 50 Resp: 3229

Ion	Ratio	Lower	Upper
50	100		
52	24.8	24.4	36.6

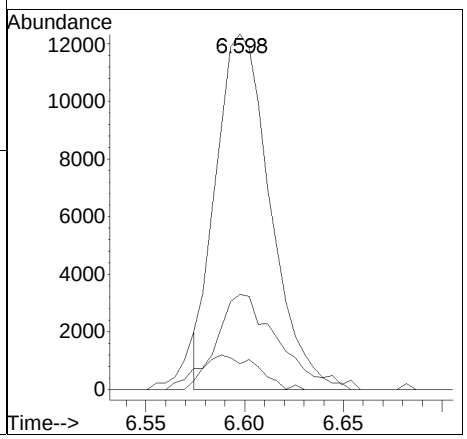


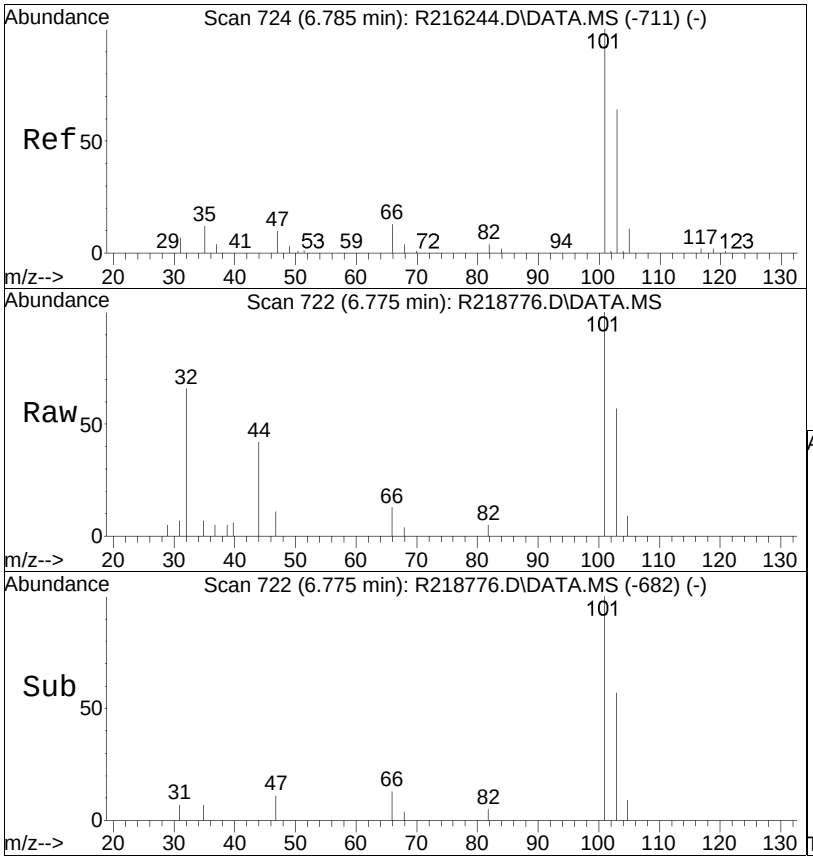


#19
acetone
Concen: 1.68 ppbV m
RT: 6.598 min Scan# 684
Delta R.T. 0.023 min
Lab File: R218776.D
Acq: 5 Jan 2012 22:40

Tgt Ion: 43 Resp: 23837

Ion	Ratio	Lower	Upper
43	100		
58	26.7	22.2	33.2
57	7.2	0.9	1.3#

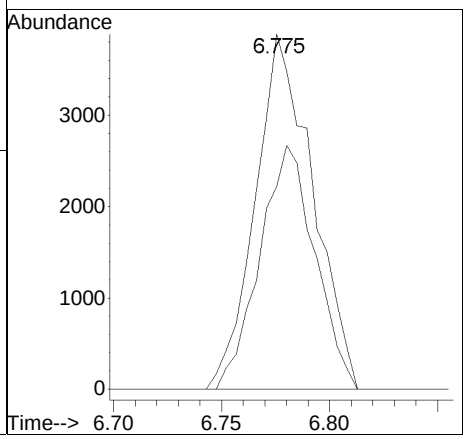


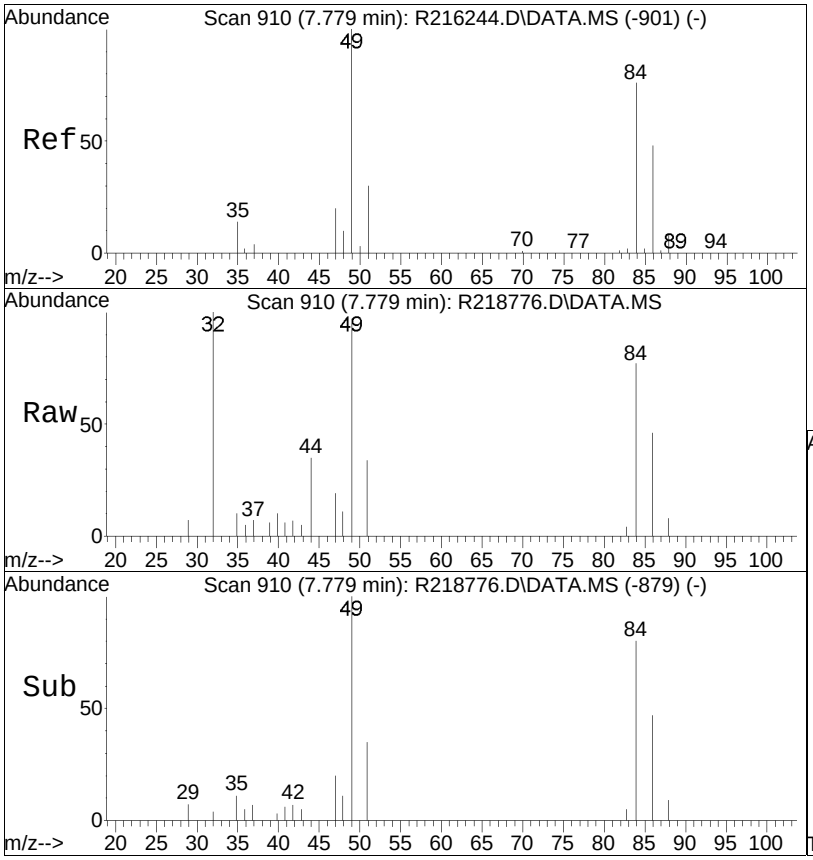


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 6.775 min Scan# 722
Delta R.T. -0.014 min
Lab File: R218776.D
Acq: 5 Jan 2012 22:40

Tgt Ion:101 Resp: 7174

Ion	Ratio	Lower	Upper
101	100		
103	57.1	50.2	75.2

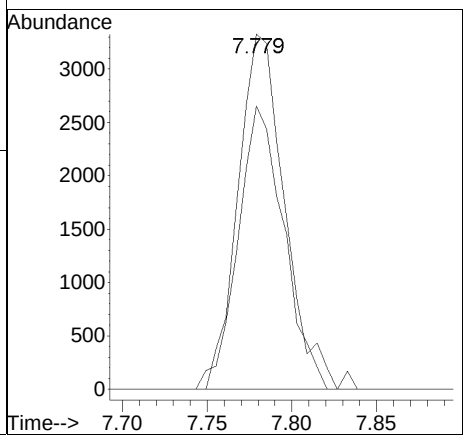


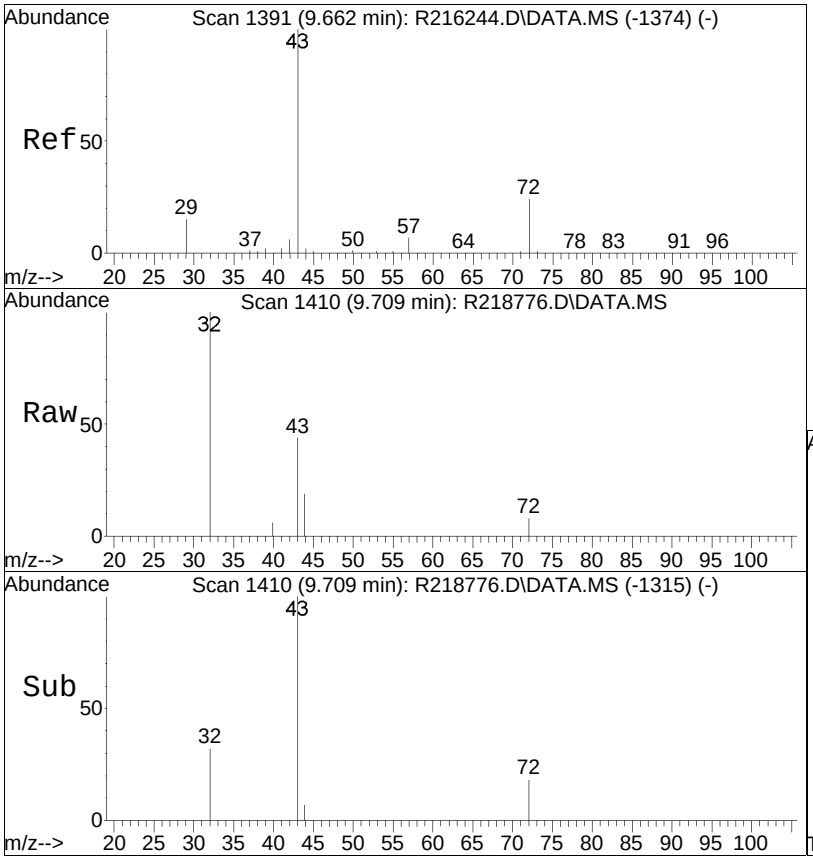


#28
methylene chloride
Concen: 0.45 ppbV
RT: 7.779 min Scan# 910
Delta R.T. -0.012 min
Lab File: R218776.D
Acq: 5 Jan 2012 22:40

Tgt Ion: 49 Resp: 6411

Ion	Ratio	Lower	Upper
49	100		
84	79.7	56.6	84.8

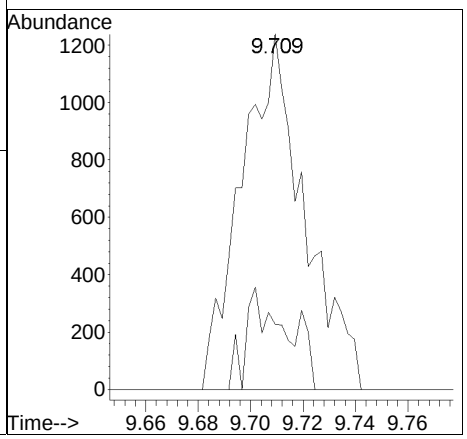


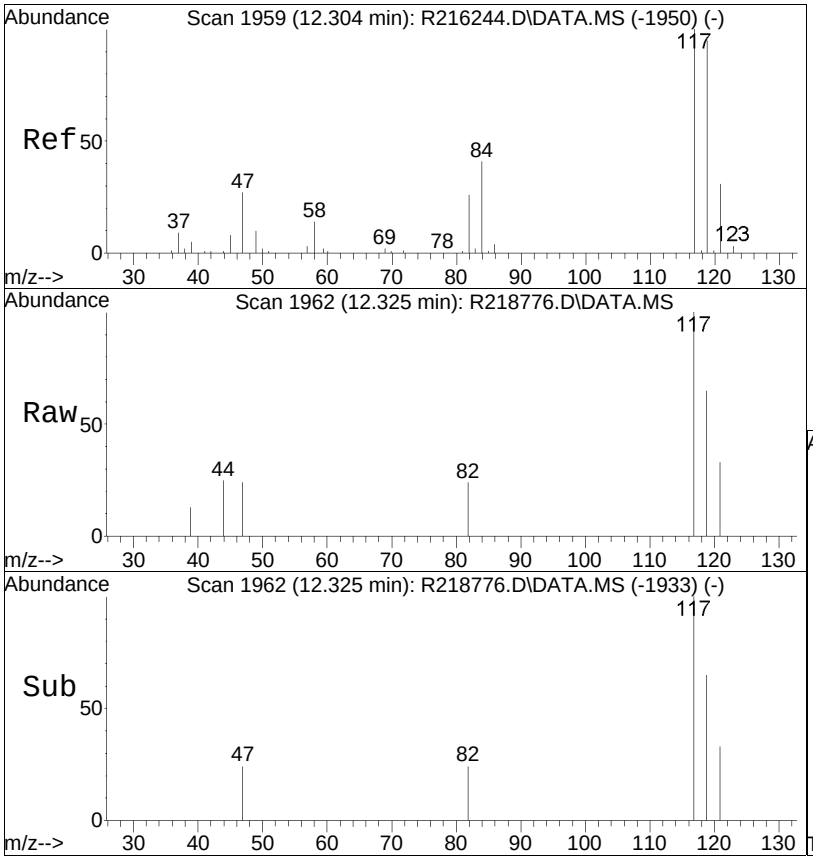


#36
2-butanone
Concen: 0.12 ppbV
RT: 9.709 min Scan# 1410
Delta R.T. 0.040 min
Lab File: R218776.D
Acq: 5 Jan 2012 22:40

Tgt Ion: 43 Resp: 2067

Ion	Ratio	Lower	Upper
43	100		
72	18.3	17.6	26.4
57	0.0	5.6	8.4#

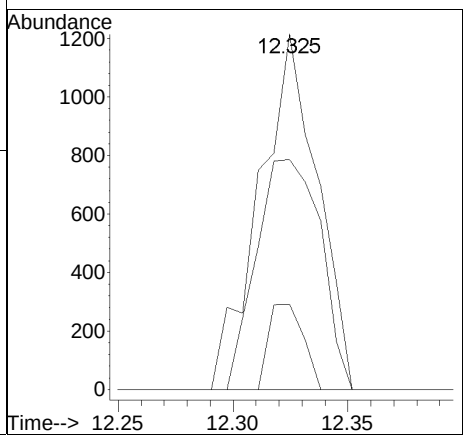


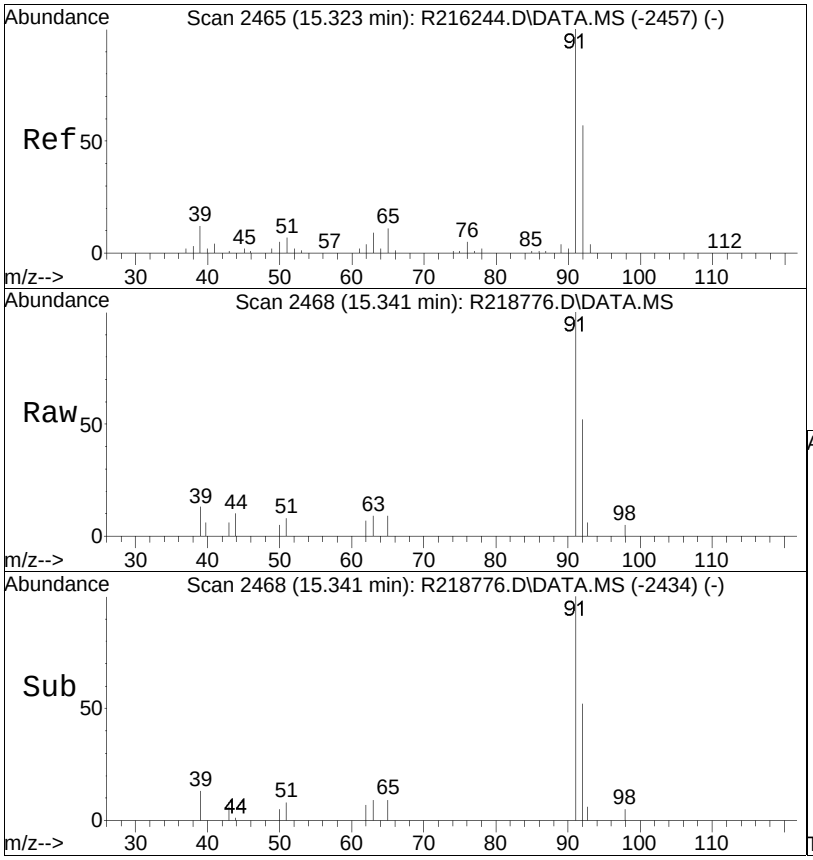


#52
carbon tetrachloride
Concen: 0.08 ppbV
RT: 12.325 min Scan# 1962
Delta R.T. -0.000 min
Lab File: R218776.D
Acq: 5 Jan 2012 22:40

Tgt Ion:117 Resp: 2142

Ion	Ratio	Lower	Upper
117	100		
119	64.7	76.8	115.2#
82	24.0	19.4	29.0

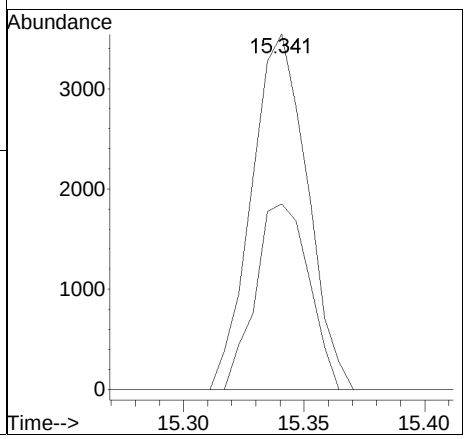


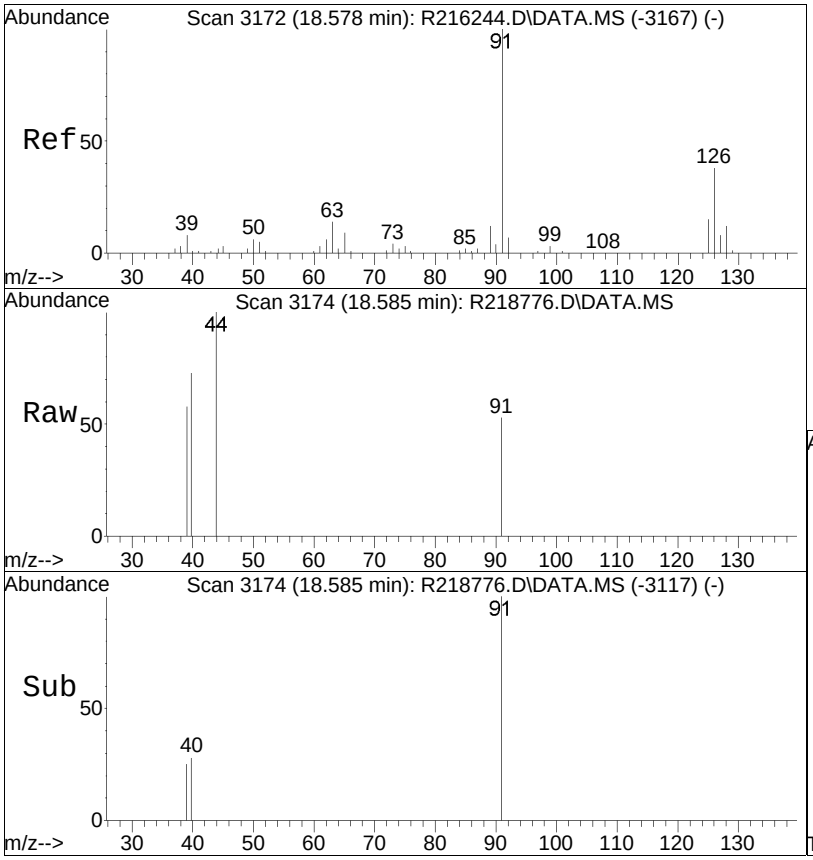


#69
toluene
Concen: 0.17 ppbV
RT: 15.341 min Scan# 2468
Delta R.T. -0.000 min
Lab File: R218776.D
Acq: 5 Jan 2012 22:40

Tgt Ion: 91 Resp: 5686

Ion	Ratio	Lower	Upper
91	100		
92	57.9	47.0	70.4

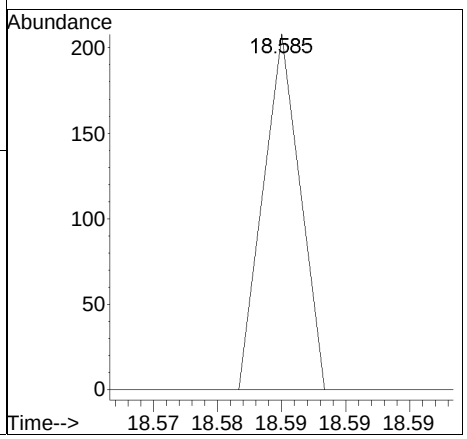




#96
4-chlorotoluene
Concen: 0.00 ppbV
RT: 18.585 min Scan# 3174
Delta R.T. -0.010 min
Lab File: R218776.D
Acq: 5 Jan 2012 22:40

Tgt Ion: 91 Resp: 42

Ion	Ratio	Lower	Upper
91	100		
126	0.0	28.2	42.2#

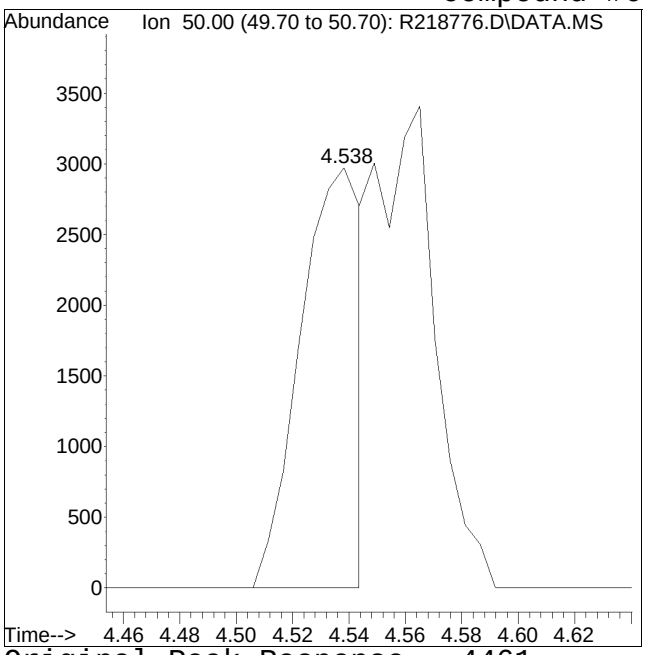


Manual Integration/Negative Proof Report

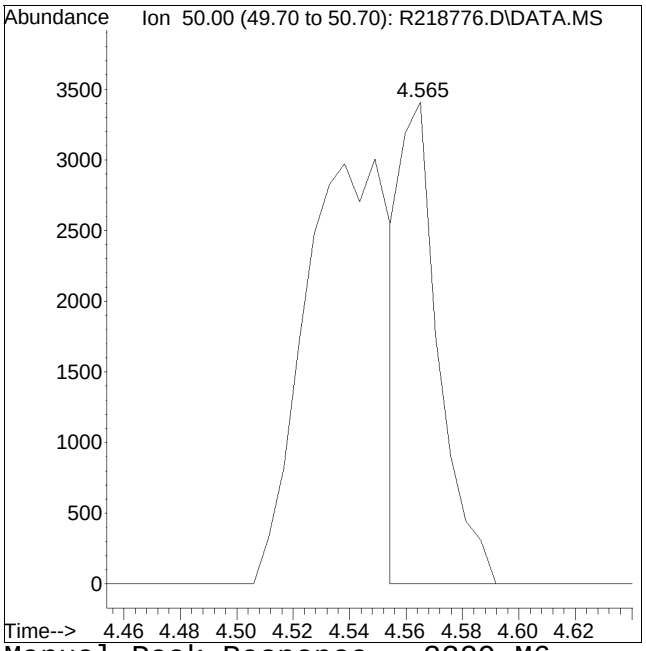
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218776.D
Date Inj'd : 1/5/2012 22:40
Sample : L1200005-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #6: chloromethane



Original Peak Response = 4461



Manual Peak Response = 3229 M6

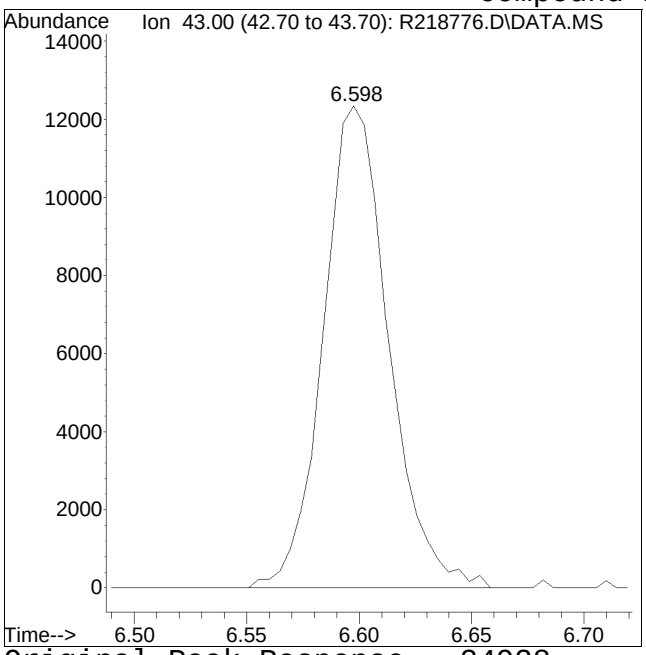
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

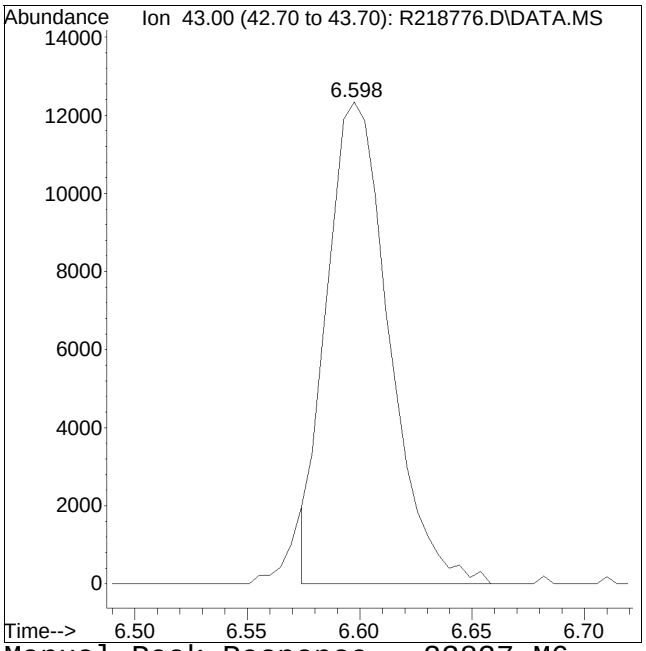
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218776.D
Date Inj'd : 1/5/2012 22:40
Sample : L1200005-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #19: acetone



Original Peak Response = 24928



Manual Peak Response = 23837 M6

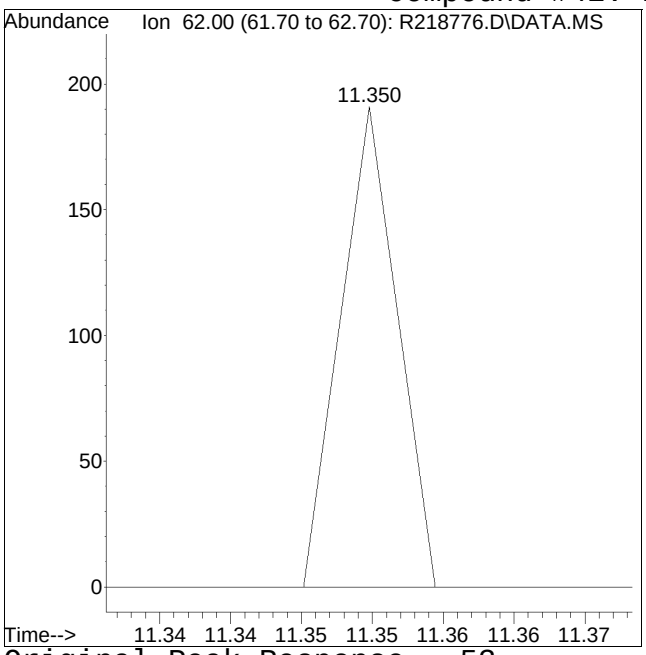
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

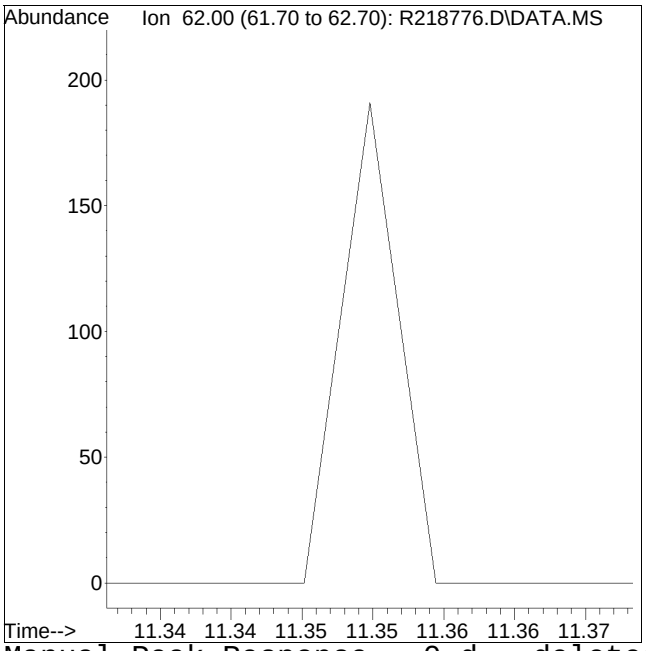
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218776.D
Date Inj'd : 1/5/2012 22:40
Sample : L1200005-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #42: 1,2-dichloroethane



Original Peak Response = 53



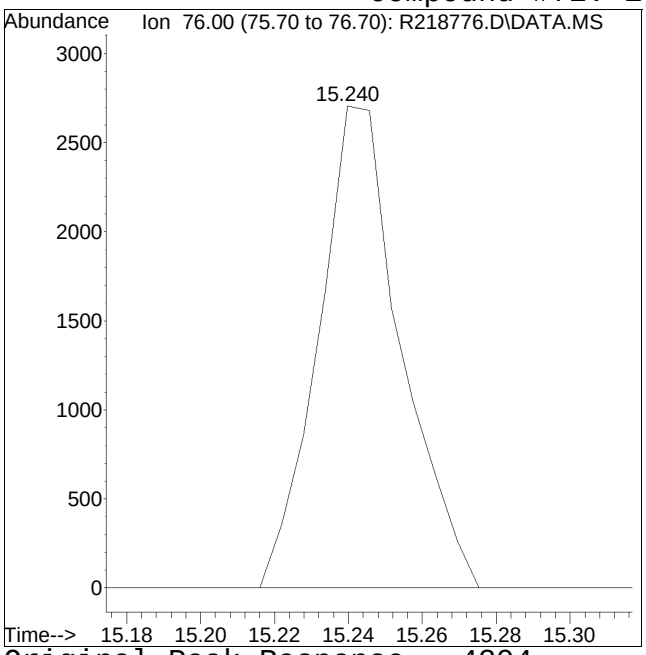
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

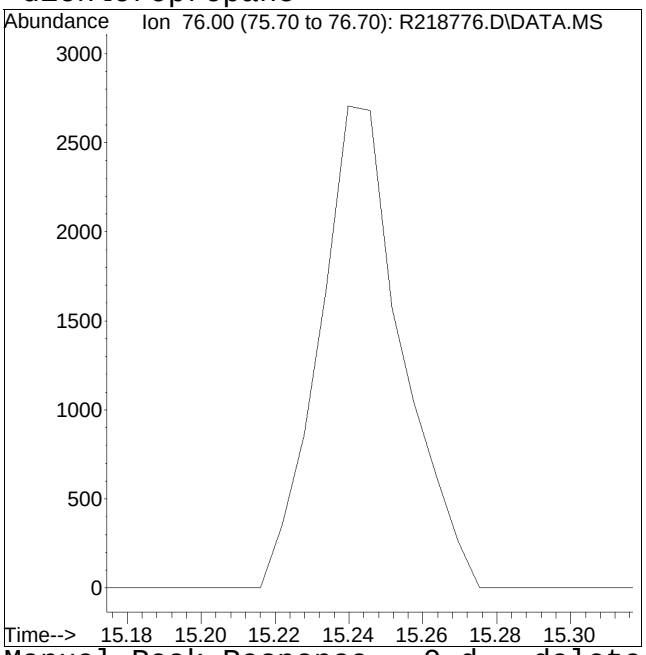
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218776.D
Date Inj'd : 1/5/2012 22:40
Sample : L1200005-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 4204



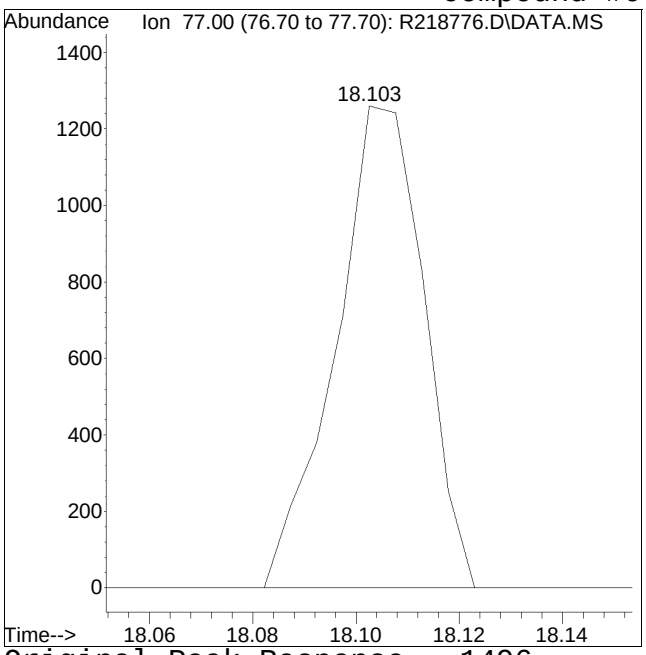
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

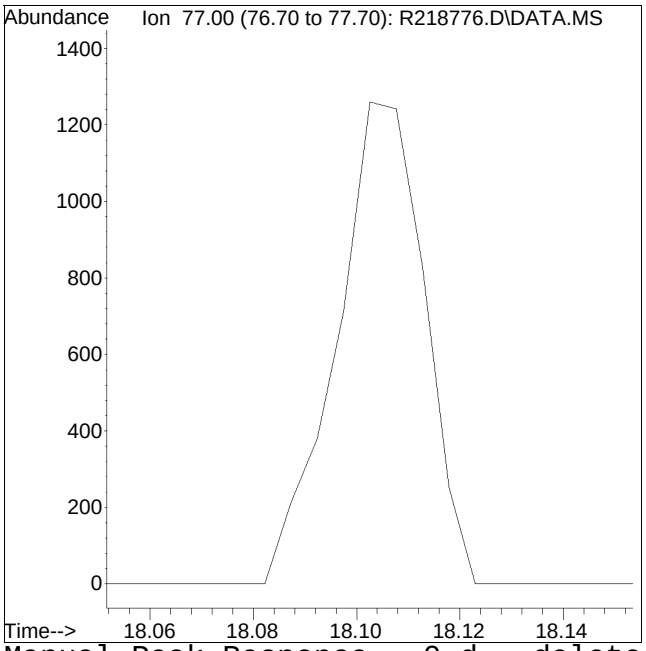
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218776.D
Date Inj'd : 1/5/2012 22:40
Sample : L1200005-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #93: bromobenzene



Original Peak Response = 1496



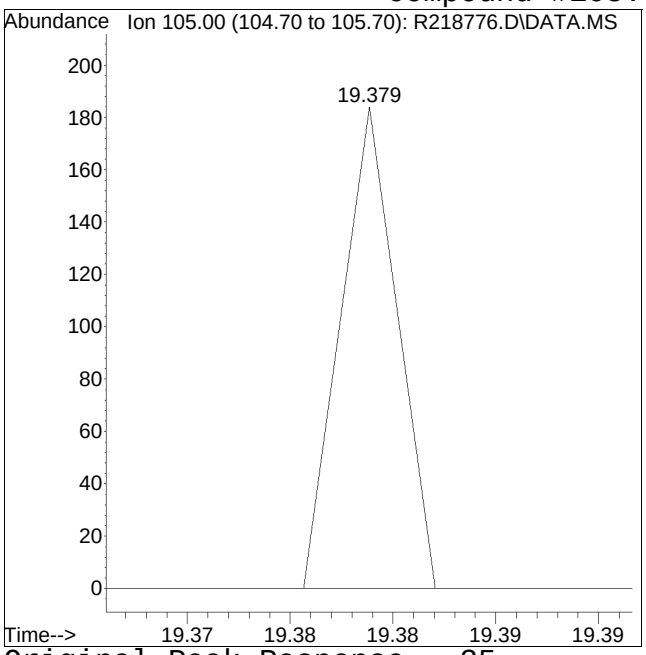
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

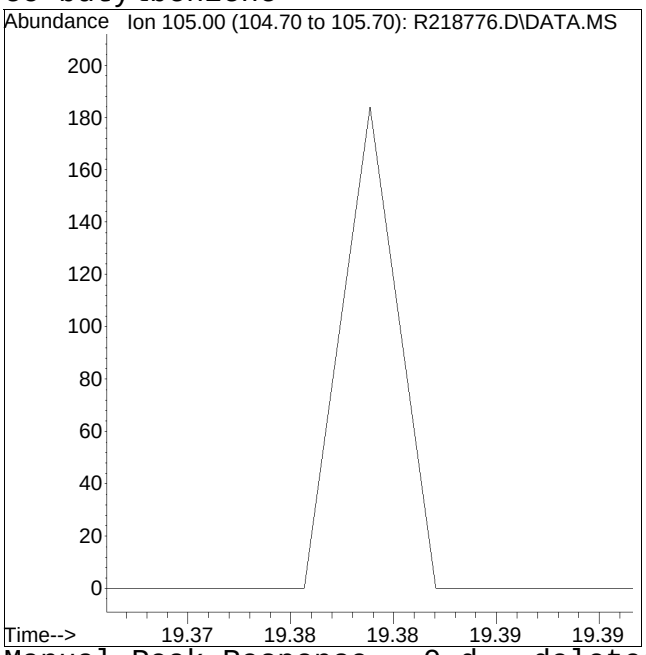
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218776.D
Date Inj'd : 1/5/2012 22:40
Sample : L1200005-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:52 am

Compound #105: sec-butylbenzene



Original Peak Response = 35



Manual Peak Response = 0 d - deleted

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218777.D
Acq On : 5 Jan 2012 23:15
Operator : AIRPIANO2:MB
Sample : L1200005-04,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 06 09:46:13 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	137456	10.000	ppbV	0.00
Standard Area = 151117			Recovery = 90.96%			
43) 1,4-difluorobenzene	12.550	114	441957	10.000	ppbV	0.00
Standard Area = 485506			Recovery = 91.03%			
68) chlorobenzene-D5	16.906	54	84617	10.000	ppbV	0.00
Standard Area = 90670			Recovery = 93.32%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	15336	0.452	ppbV	96
6) chloromethane	4.560	50	5575	0.529	ppbV #	87
9) vinyl chloride	0.000		0	N.D.		
13) bromomethane	5.469		0	N.D.		
14) chloroethane	0.000		0	N.D.		
19) acetone	6.607	43	10942M6	0.771	ppbV	
21) trichlorofluoromethane	6.781	101	7202	0.207	ppbV	97
25) ethyl ether	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	7.780	49	5967	0.415	ppbV	97
30) carbon disulfide	8.119		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.710	43	2048M4	0.116	ppbV	
37) cis-1,2-dichloroethene	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.	d	
45) diisopropyl ether	0.000		0	N.D.		
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.325	117	1634	0.060	ppbV #	82
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	0.000		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218777.D
Acq On : 5 Jan 2012 23:15
Operator : AIRPIANO2:MB
Sample : L1200005-04,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 06 09:46:13 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

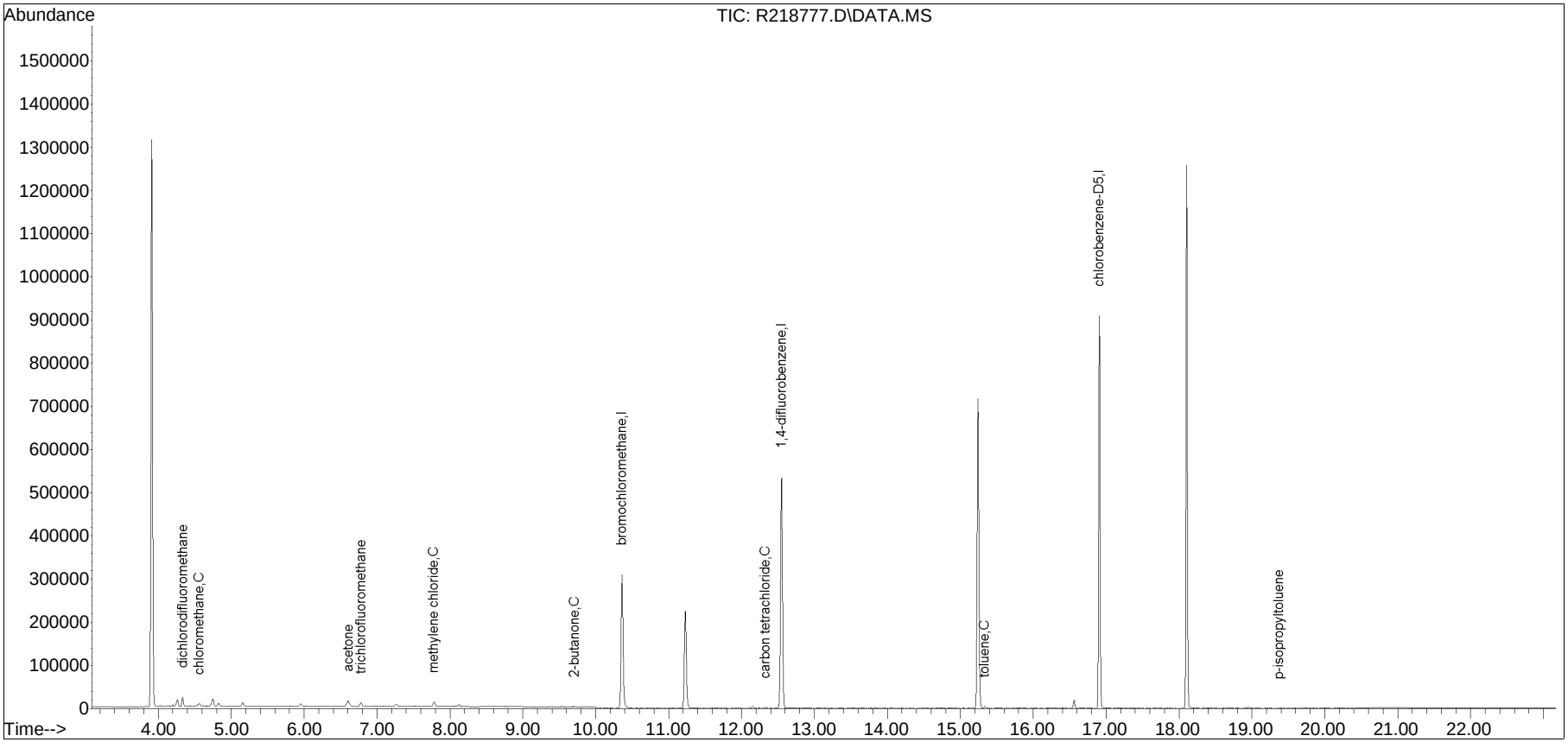
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 4-methyl-2-pentanone	0.000		0	N.D.		
66) trans-1,3-dichloropropene	0.000		0	N.D.		
67) 1,1,2-trichloroethane	0.000		0	N.D.		
69) toluene	15.334	91	3389	0.099	ppbV	90
72) 1,3-dichloropropane	0.000		0	N.D. d		
73) 2-hexanone	15.636		0	N.D.		
75) dibromochloromethane	0.000		0	N.D.		
76) 1,2-dibromoethane	0.000		0	N.D.		
80) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81) chlorobenzene	0.000		0	N.D.		
82) ethylbenzene	17.230		0	N.D.		
84) m+p-xylene	17.378		0	N.D.		
85) bromoform	0.000		0	N.D.		
86) styrene	0.000		0	N.D.		
87) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88) o-xylene	17.754		0	N.D.		
89) 1,2,3-trichloropropane	0.000		0	N.D.		
92) isopropylbenzene	0.000		0	N.D. d		
93) bromobenzene	0.000		0	N.D. d		
94) 2-chlorotoluene	0.000		0	N.D.		
95) n-propylbenzene	0.000		0	N.D.		
96) 4-chlorotoluene	0.000		0	N.D.		
98) 1,3,5-trimethylbenzene	18.695		0	N.D.		
99) tert-butylbenzene	0.000		0	N.D.		
100) 1,2,4-trimethylbenzene	19.052		0	N.D.		
103) 1,3-dichlorobenzene	0.000		0	N.D.		
104) 1,4-dichlorobenzene	0.000		0	N.D.		
105) sec-butylbenzene	0.000		0	N.D. d		
107) p-isopropyltoluene	19.372	119	29	0.001	ppbV #	49
108) 1,2-dichlorobenzene	0.000		0	N.D.		
109) n-butylbenzene	0.000		0	N.D.		
112) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116) 1,2,4-trichlorobenzene	0.000		0	N.D.		
117) naphthalene	21.088		0	N.D.		
118) 1,2,3-trichlorobenzene	0.000		0	N.D.		
120) hexachlorobutadiene	0.000		0	N.D.		

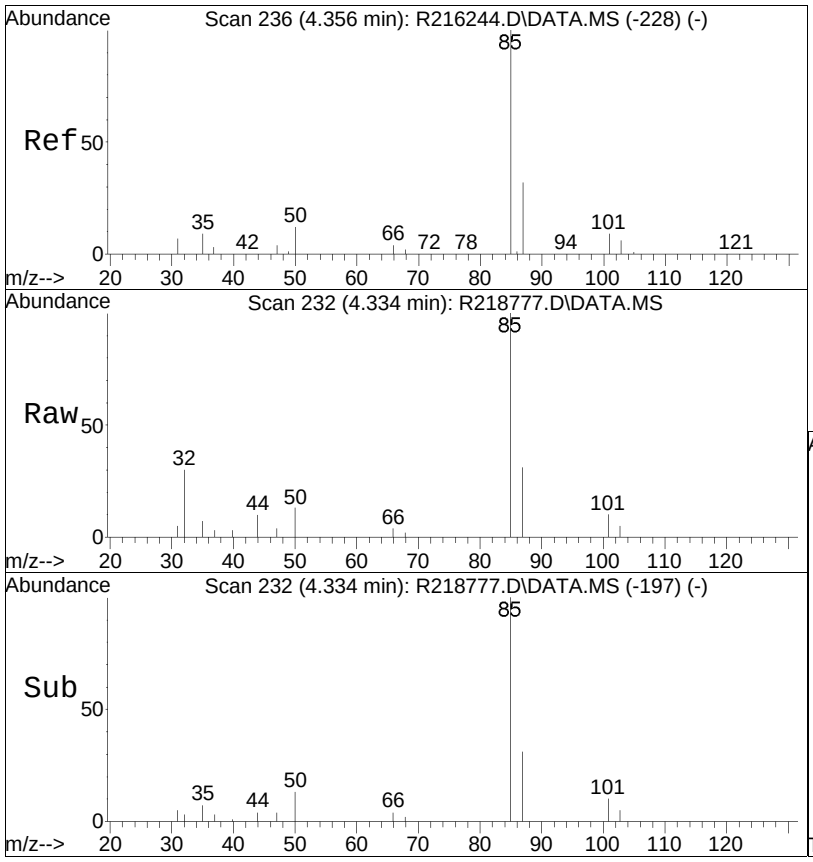
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218777.D
Acq On : 5 Jan 2012 23:15
Operator : AIRPIANO2:MB
Sample : L1200005-04,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 06 09:46:13 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

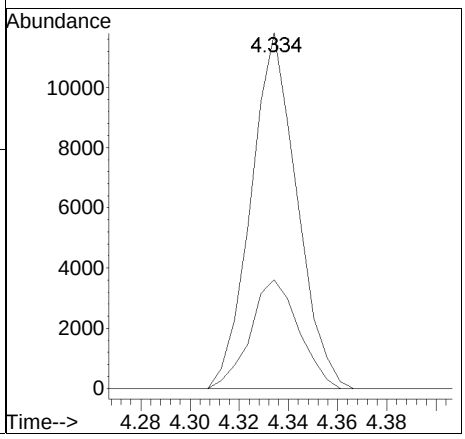


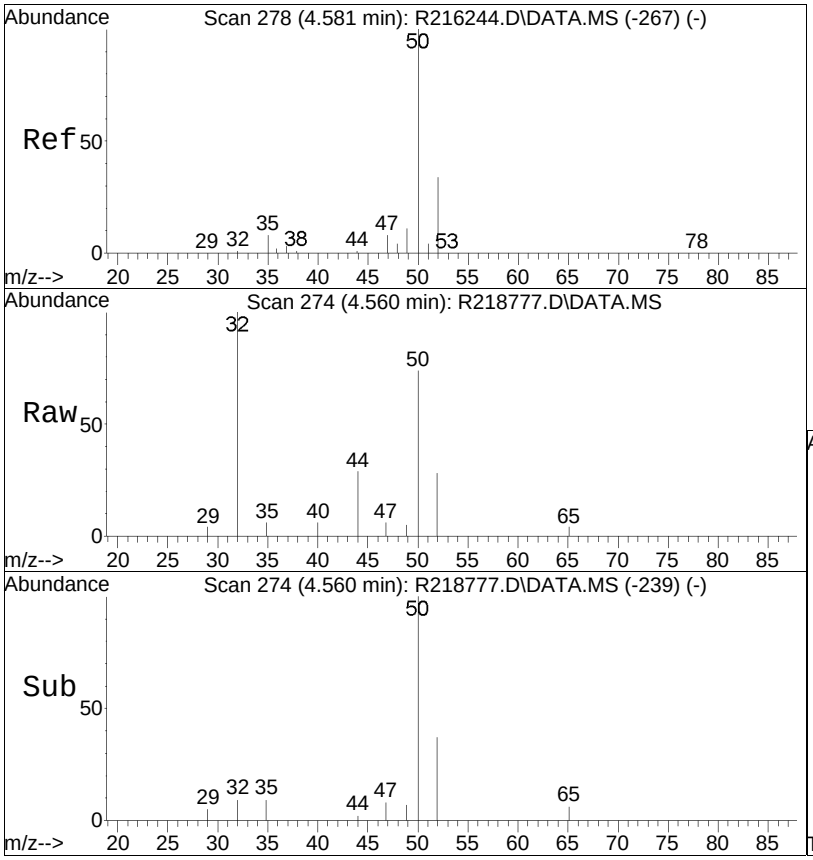


#5
dichlorodifluoromethane
Concen: 0.45 ppbV
RT: 4.334 min Scan# 232
Delta R.T. -0.011 min
Lab File: R218777.D
Acq: 5 Jan 2012 23:15

Tgt Ion: 85 Resp: 15336

Ion	Ratio	Lower	Upper
85	100		
87	30.5	26.4	39.6

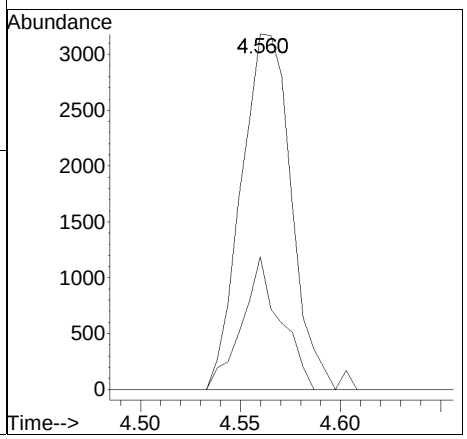


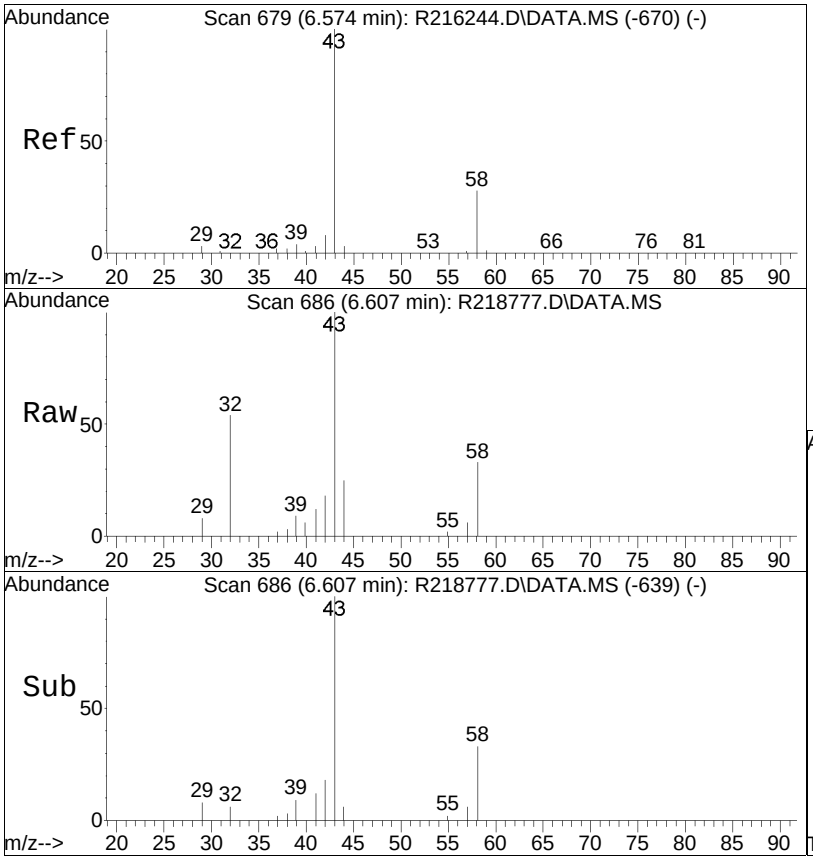


#6
chloromethane
Concen: 0.53 ppbV
RT: 4.560 min Scan# 274
Delta R.T. -0.011 min
Lab File: R218777.D
Acq: 5 Jan 2012 23:15

Tgt Ion: 50 Resp: 5575

Ion	Ratio	Lower	Upper
50	100		
52	37.4	24.4	36.6#

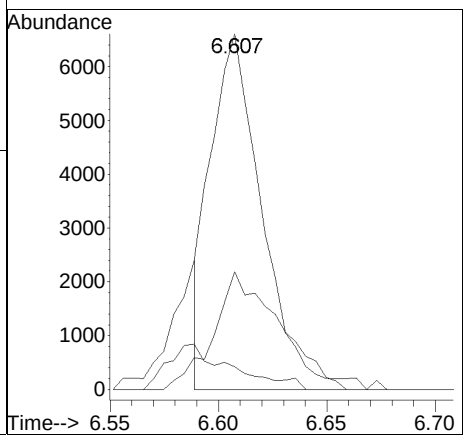


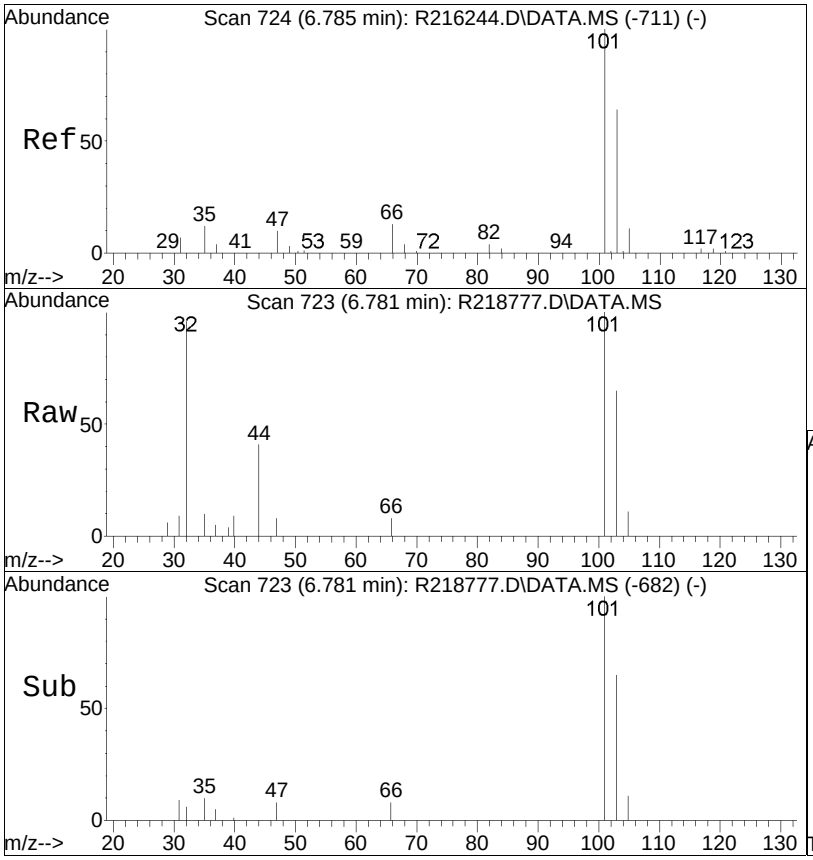


#19
acetone
Concen: 0.77 ppbV m
RT: 6.607 min Scan# 686
Delta R.T. 0.033 min
Lab File: R218777.D
Acq: 5 Jan 2012 23:15

Tgt Ion: 43 Resp: 10942

Ion	Ratio	Lower	Upper
43	100		
58	33.1	22.2	33.2
57	6.4	0.9	1.3#

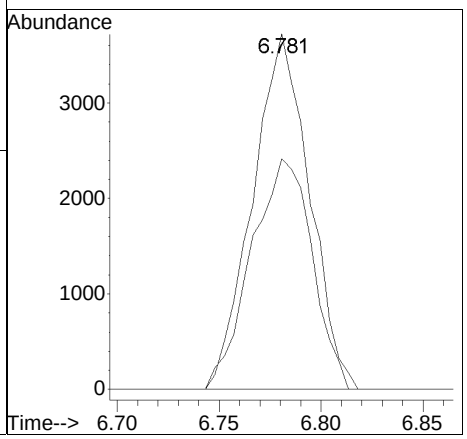


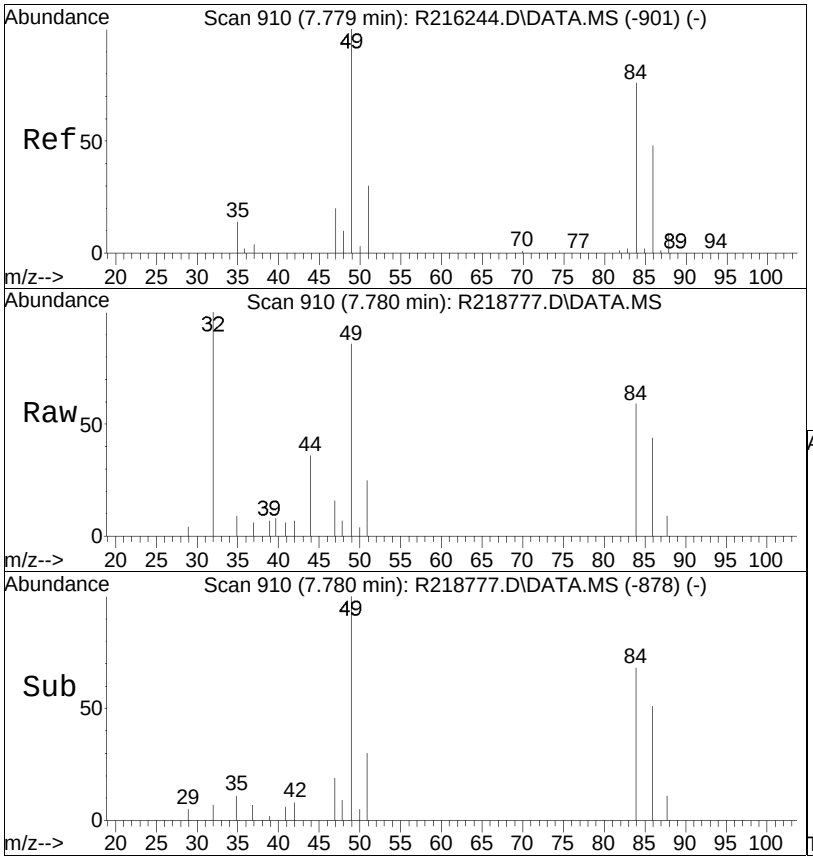


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 6.781 min Scan# 723
Delta R.T. -0.009 min
Lab File: R218777.D
Acq: 5 Jan 2012 23:15

Tgt Ion:101 Resp: 7202

Ion	Ratio	Lower	Upper
101	100		
103	64.9	50.2	75.2

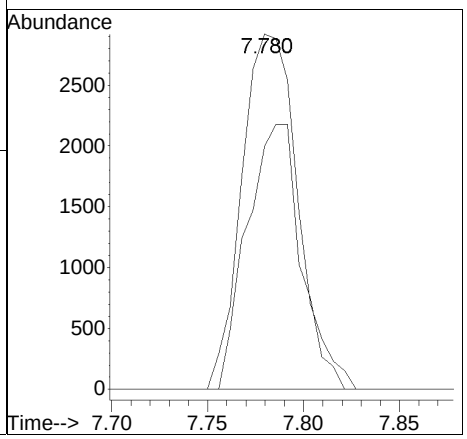


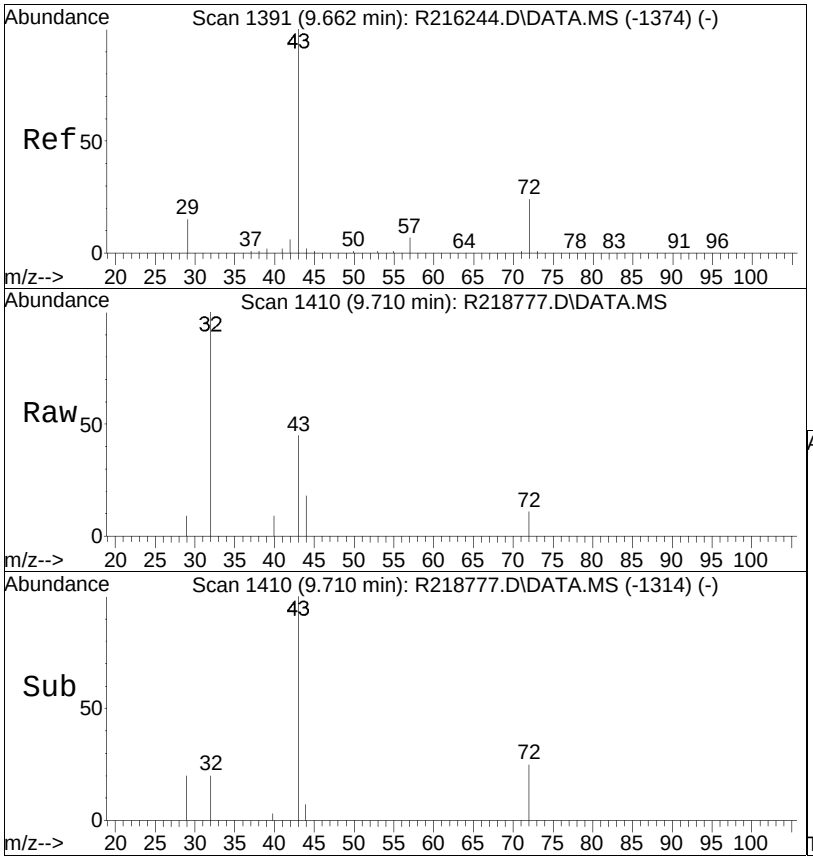


#28
methylene chloride
Concen: 0.42 ppbV
RT: 7.780 min Scan# 910
Delta R.T. -0.011 min
Lab File: R218777.D
Acq: 5 Jan 2012 23:15

Tgt Ion: 49 Resp: 5967

Ion	Ratio	Lower	Upper
49	100		
84	68.4	56.6	84.8

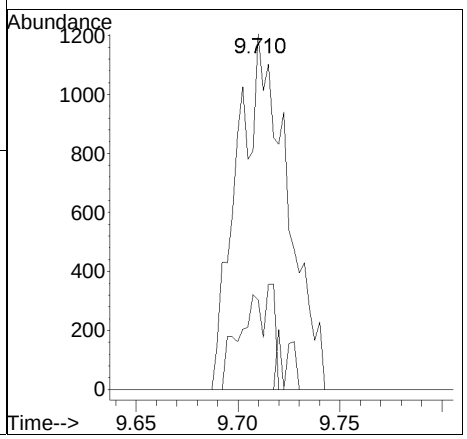


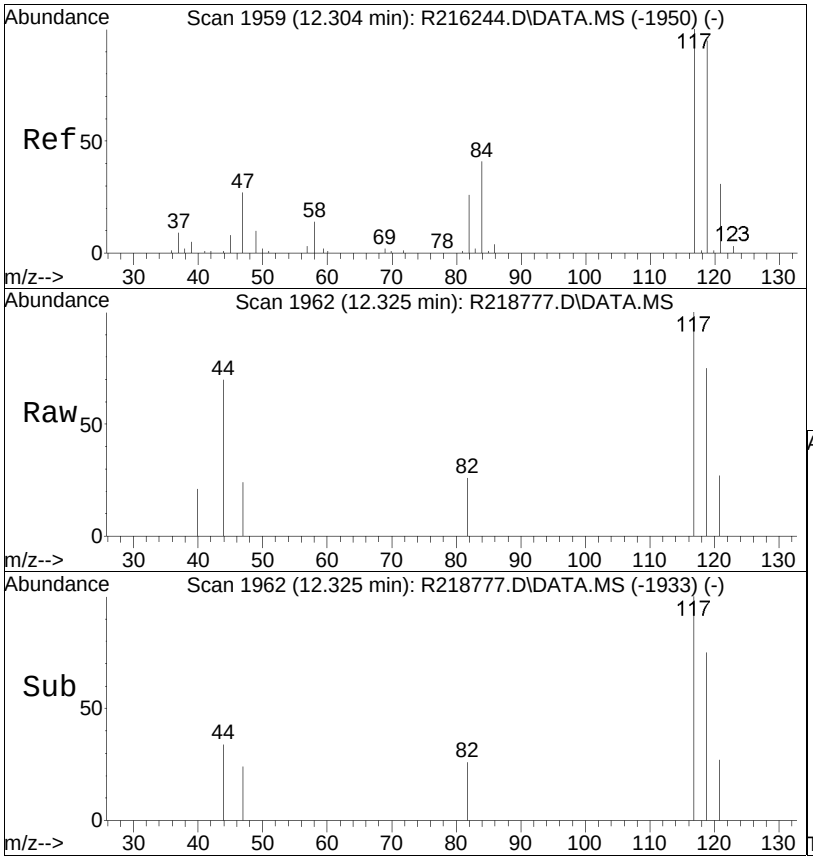


#36
2-butanone
Concen: 0.12 ppbV m
RT: 9.710 min Scan# 1410
Delta R.T. 0.041 min
Lab File: R218777.D
Acq: 5 Jan 2012 23:15

Tgt Ion: 43 Resp: 2048

Ion	Ratio	Lower	Upper
43	100		
72	25.1	17.6	26.4
57	0.0	5.6	8.4#

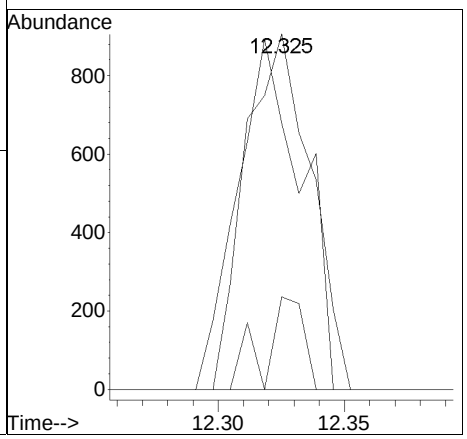


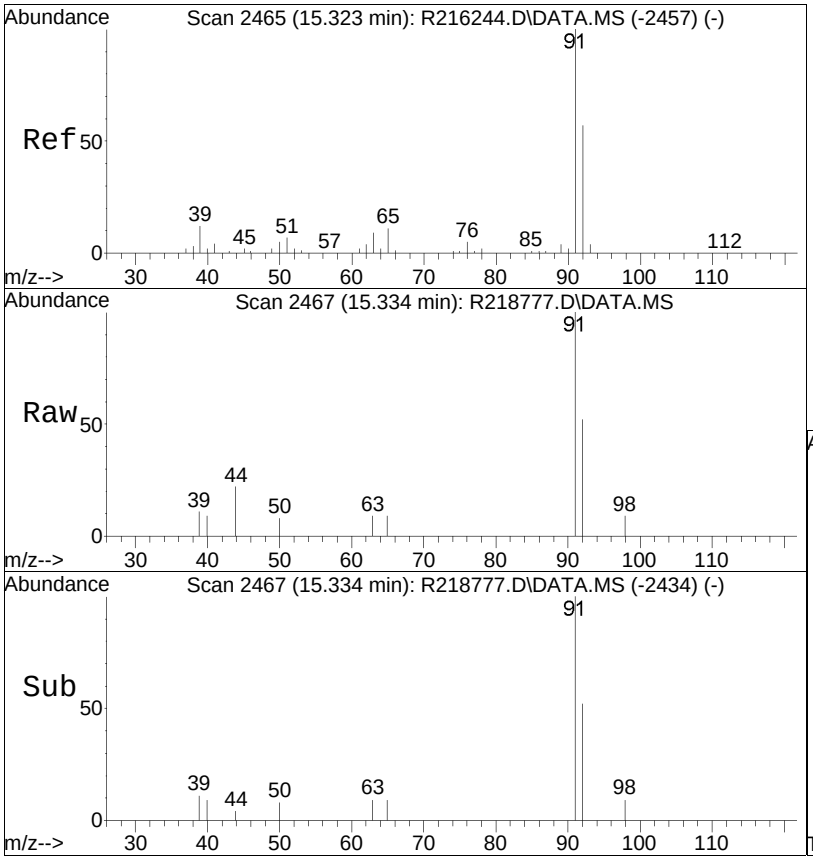


#52
carbon tetrachloride
Concen: 0.06 ppbV
RT: 12.325 min Scan# 1962
Delta R.T. 0.000 min
Lab File: R218777.D
Acq: 5 Jan 2012 23:15

Tgt Ion:117 Resp: 1634

Ion	Ratio	Lower	Upper
117	100		
119	74.9	76.8	115.2#
82	26.0	19.4	29.0

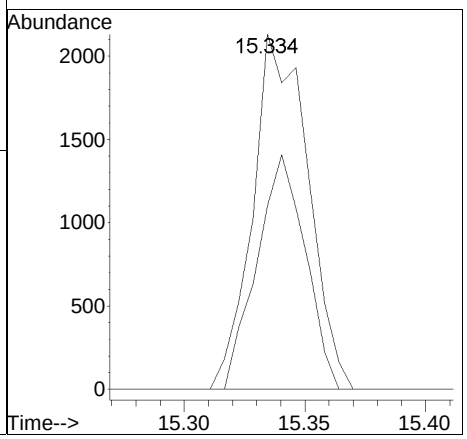


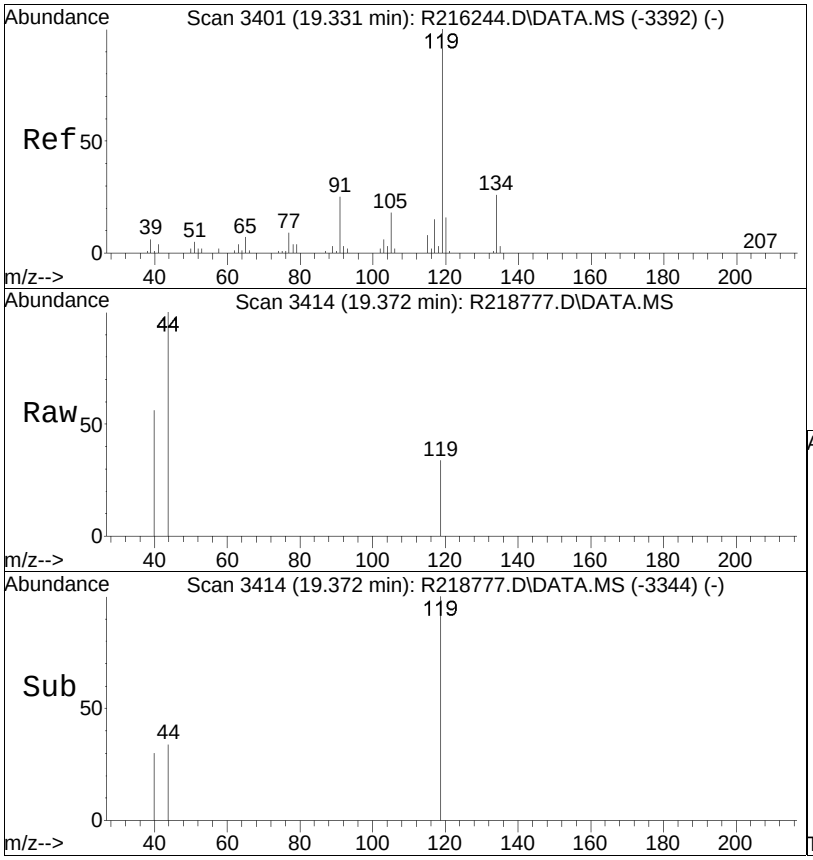


#69
toluene
Concen: 0.10 ppbV
RT: 15.334 min Scan# 2467
Delta R.T. -0.006 min
Lab File: R218777.D
Acq: 5 Jan 2012 23:15

Tgt Ion: 91 Resp: 3389

Ion	Ratio	Lower	Upper
91	100		
92	51.6	47.0	70.4

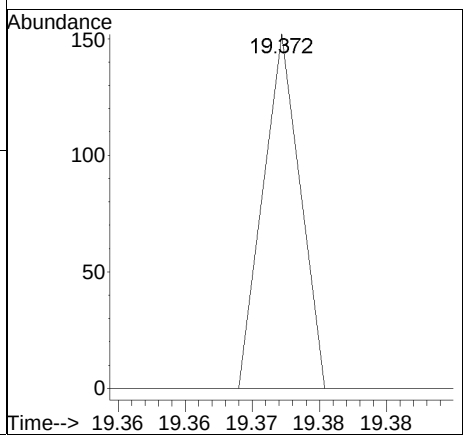




#107
p-isopropyltoluene
Concen: 0.00 ppbV
RT: 19.372 min Scan# 3414
Delta R.T. 0.025 min
Lab File: R218777.D
Acq: 5 Jan 2012 23:15

Tgt Ion:119 Resp: 29

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

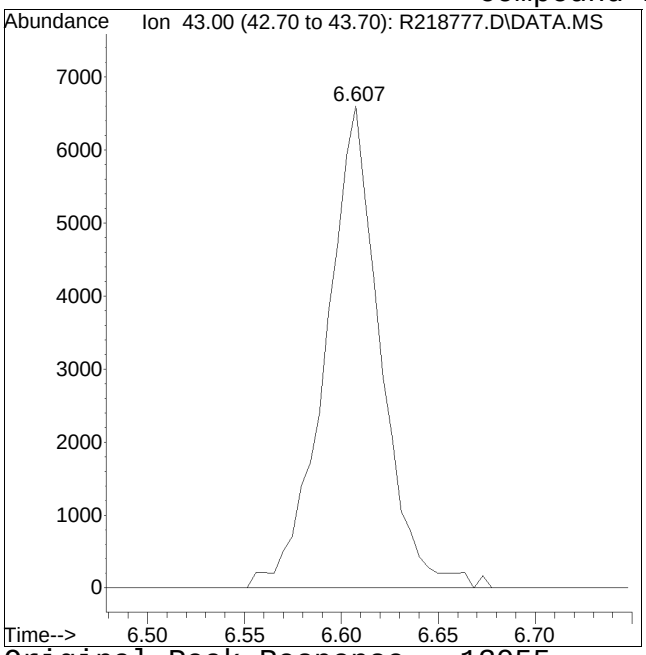


Manual Integration/Negative Proof Report

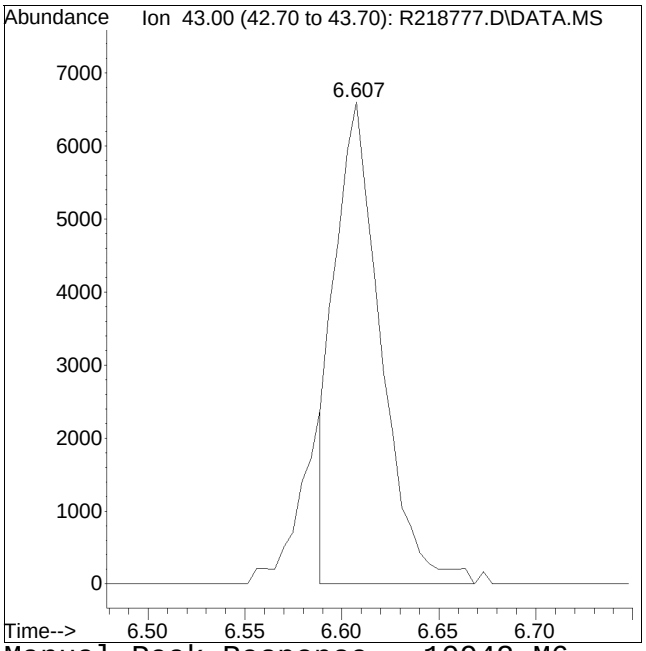
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218777.D
Date Inj'd : 1/5/2012 23:15
Sample : L1200005-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:53 am

Compound #19: acetone



Original Peak Response = 13055



Manual Peak Response = 10942 M6

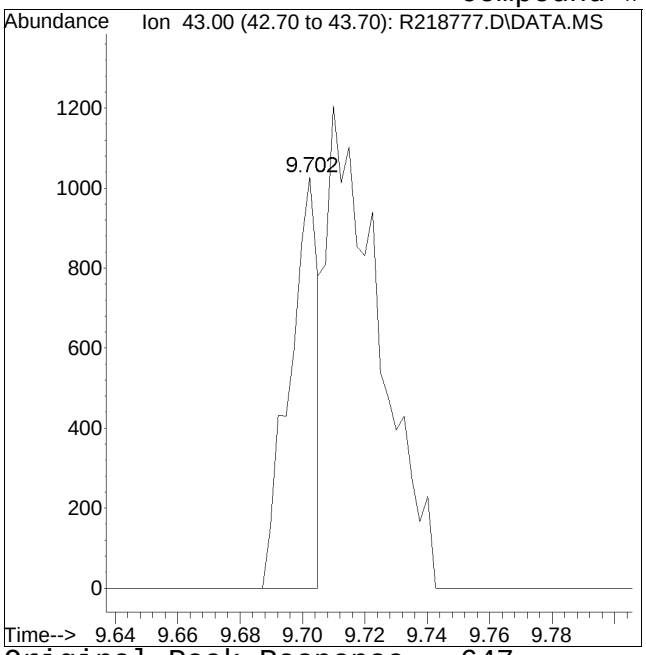
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

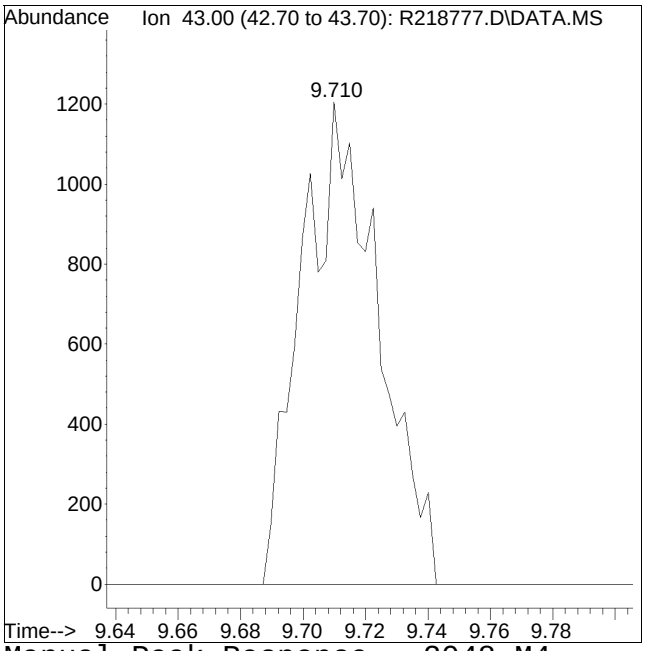
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218777.D
Date Inj'd : 1/5/2012 23:15
Sample : L1200005-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:53 am

Compound #36: 2-butanone



Original Peak Response = 647



Manual Peak Response = 2048 M4

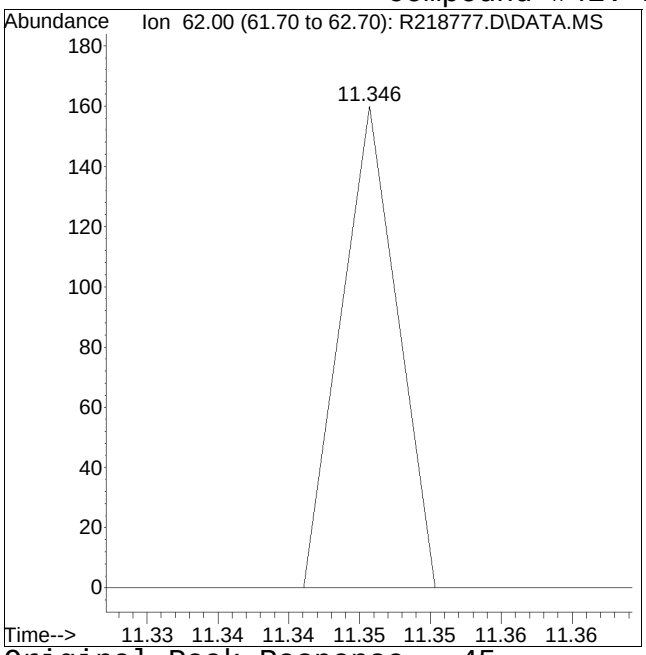
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

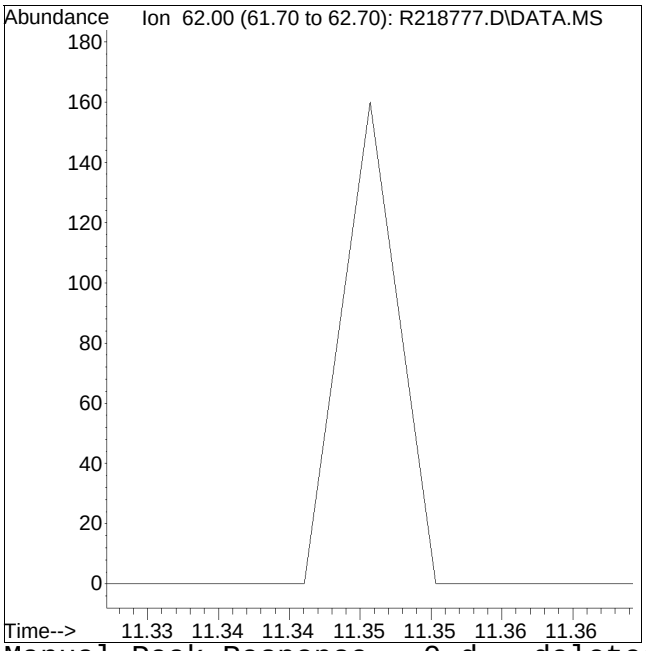
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218777.D
Date Inj'd : 1/5/2012 23:15
Sample : L1200005-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:53 am

Compound #42: 1,2-dichloroethane



Original Peak Response = 45



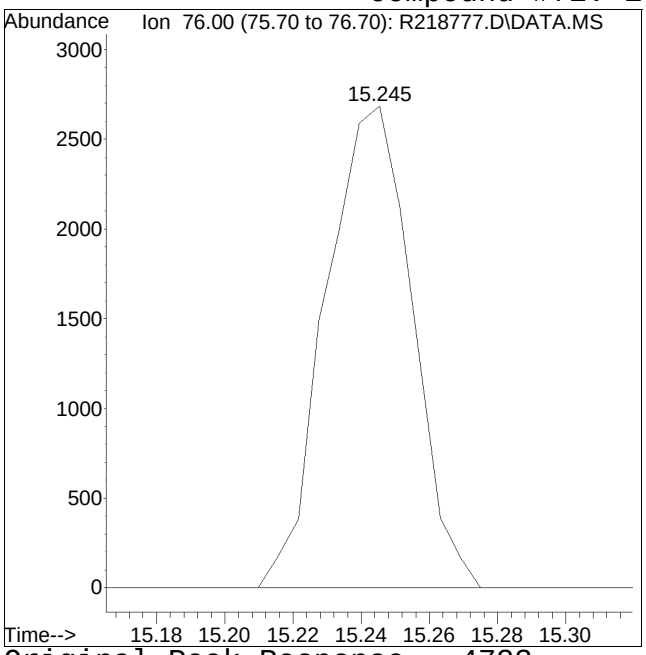
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

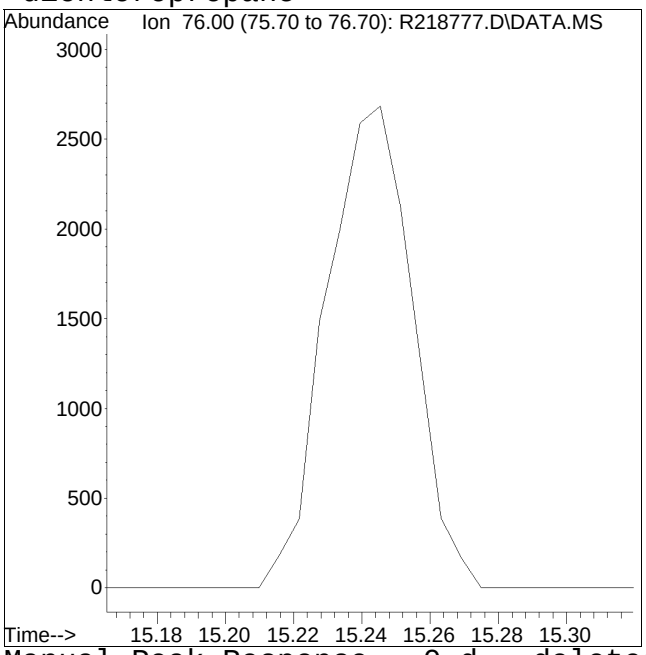
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218777.D
Date Inj'd : 1/5/2012 23:15
Sample : L1200005-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:53 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 4723



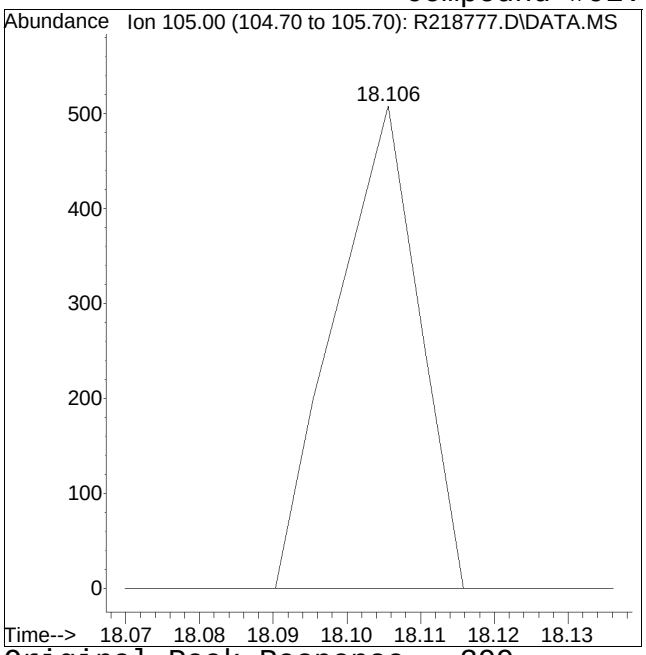
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

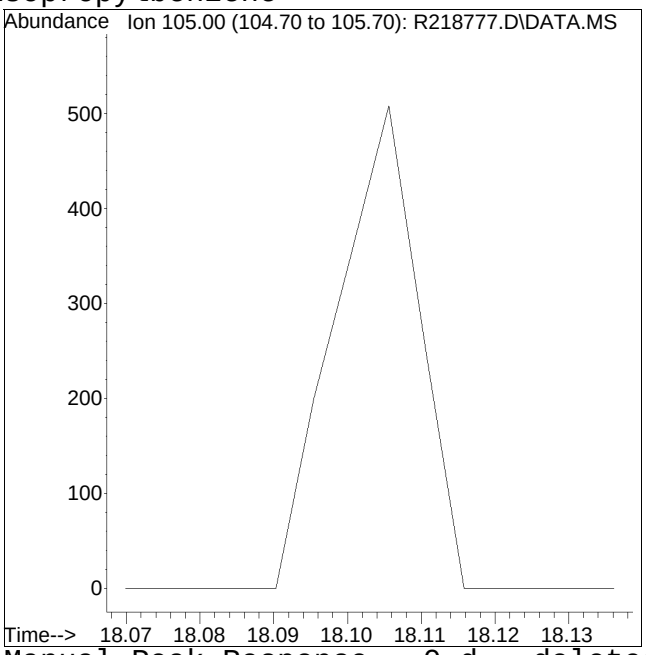
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218777.D
Date Inj'd : 1/5/2012 23:15
Sample : L1200005-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:53 am

Compound #92: isopropylbenzene



Original Peak Response = 399



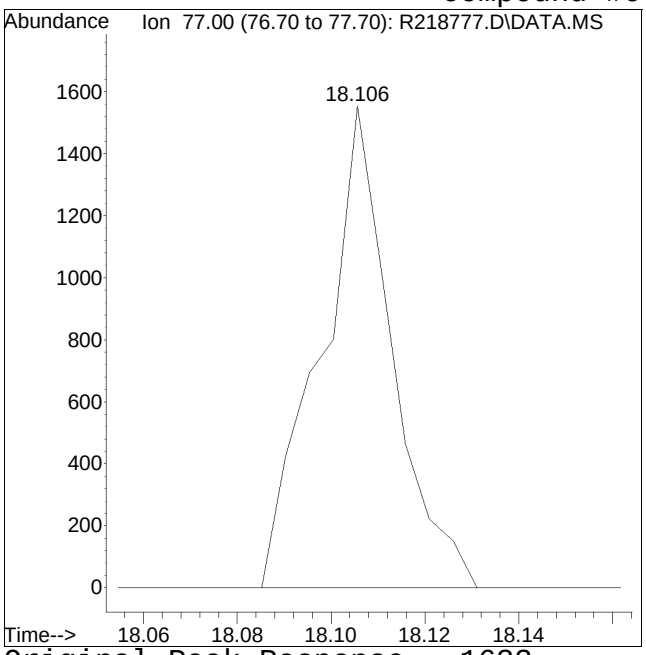
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

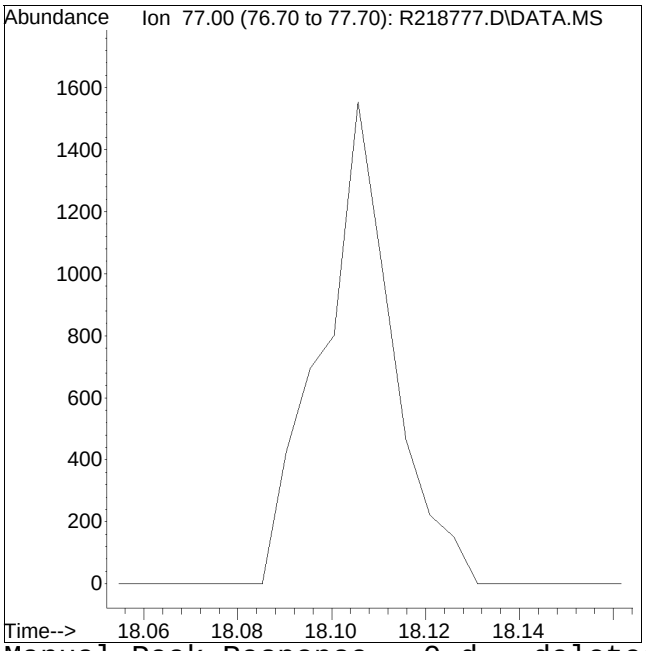
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218777.D
Date Inj'd : 1/5/2012 23:15
Sample : L1200005-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:53 am

Compound #93: bromobenzene



Original Peak Response = 1633



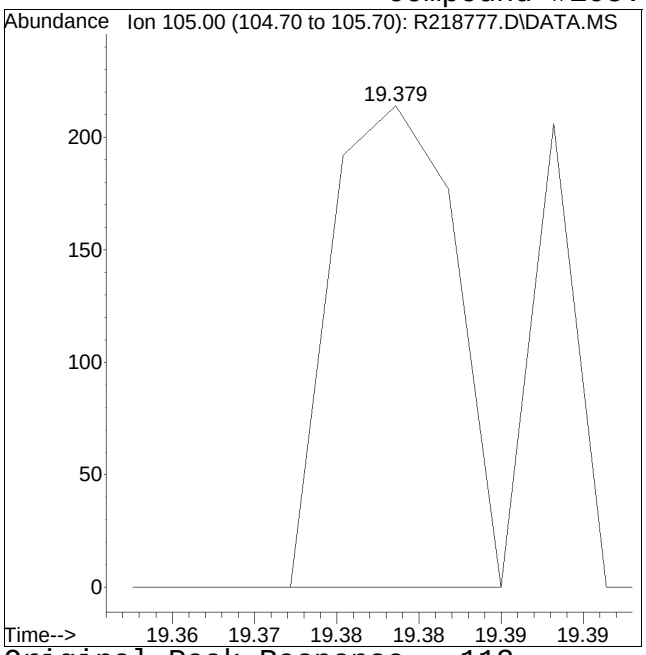
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

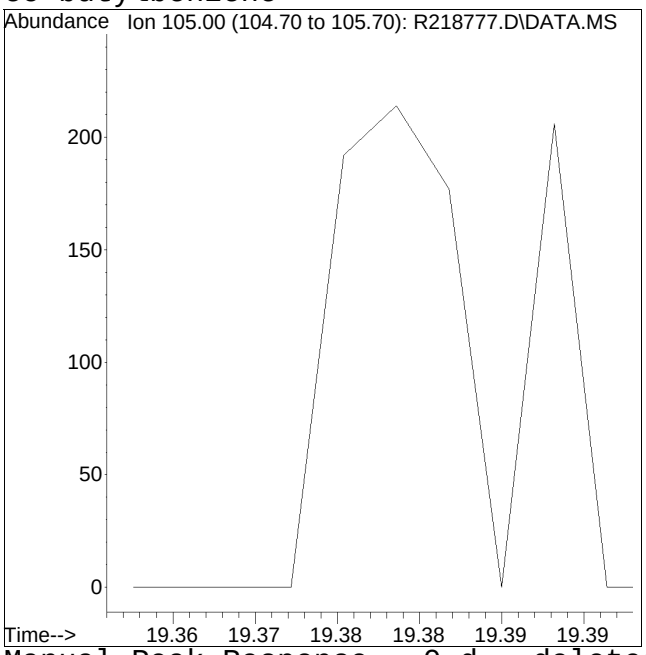
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218777.D
Date Inj'd : 1/5/2012 23:15
Sample : L1200005-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:53 am

Compound #105: sec-butylbenzene



Original Peak Response = 112



Manual Peak Response = 0 d - deleted

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218778.D
Acq On : 5 Jan 2012 23:51
Operator : AIRPIANO2:MB
Sample : L1200005-05,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 06 09:48:48 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	137858	10.000	ppbV	0.00
Standard Area = 151117			Recovery =		91.23%	
43) 1,4-difluorobenzene	12.549	114	421424	10.000	ppbV	0.00
Standard Area = 485506			Recovery =		86.80%	
68) chlorobenzene-D5	16.906	54	80351	10.000	ppbV	0.00
Standard Area = 90670			Recovery =		88.62%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	15828	0.465	ppbV	94
6) chloromethane	4.560	50	4955	0.469	ppbV	99
9) vinyl chloride	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
19) acetone	6.607	43	13842M6	0.972	ppbV	
21) trichlorofluoromethane	6.775	101	6641	0.190	ppbV	95
25) ethyl ether	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	7.779	49	5981	0.415	ppbV	100
30) carbon disulfide	8.109		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.712	43	1403	0.079	ppbV #	81
37) cis-1,2-dichloroethene	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	11.350		0	N.D.		
45) diisopropyl ether	0.000		0	N.D.		
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.318	117	1736	0.067	ppbV #	69
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	0.000		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218778.D
Acq On : 5 Jan 2012 23:51
Operator : AIRPIANO2:MB
Sample : L1200005-05,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 06 09:48:48 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

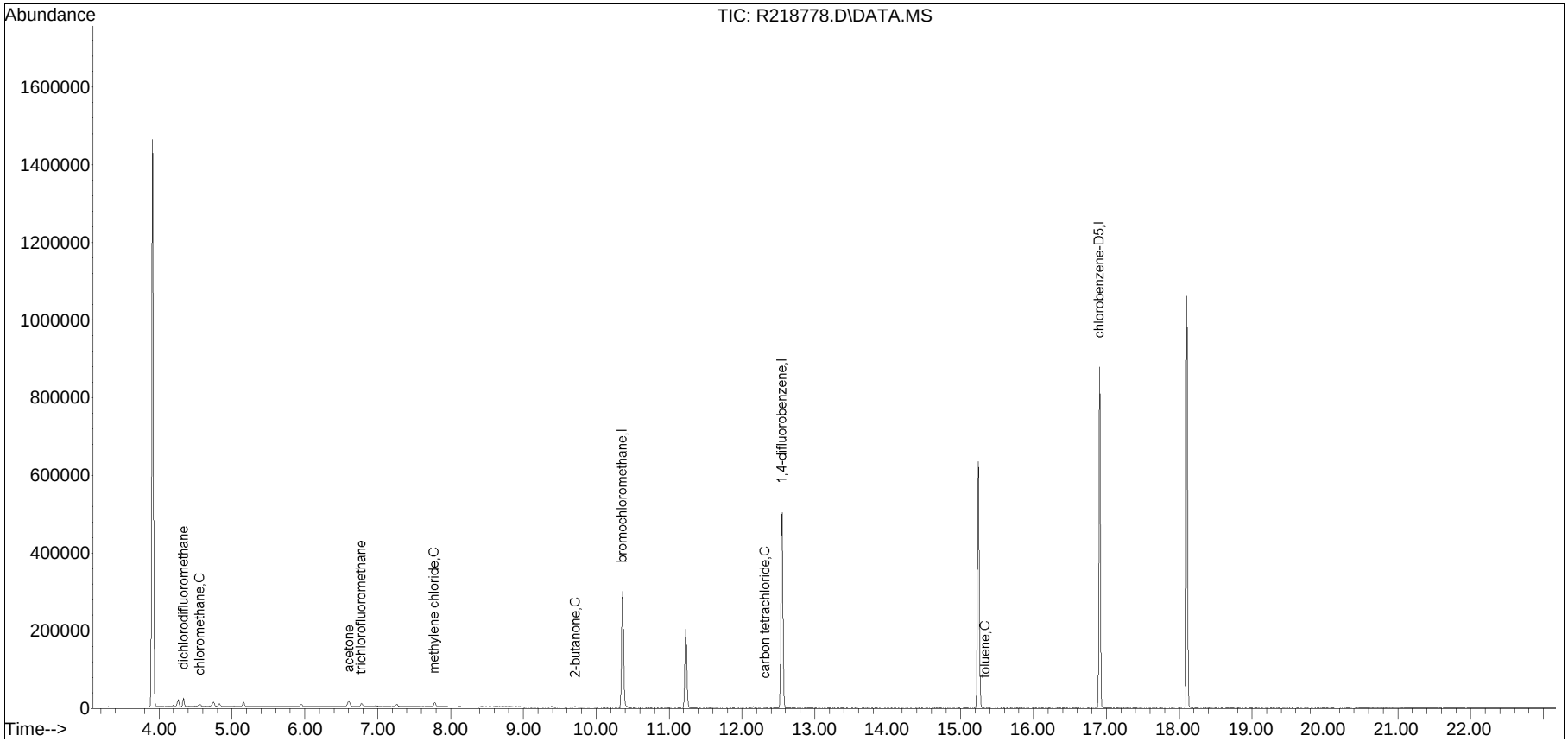
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 4-methyl-2-pentanone	0.000		0	N.D.		
66) trans-1,3-dichloropropene	0.000		0	N.D.		
67) 1,1,2-trichloroethane	0.000		0	N.D.		
69) toluene	15.341	91	3488	0.107	ppbV	99
72) 1,3-dichloropropane	0.000		0	N.D.	d	
73) 2-hexanone	15.553		0	N.D.		
75) dibromochloromethane	0.000		0	N.D.		
76) 1,2-dibromoethane	0.000		0	N.D.		
80) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81) chlorobenzene	0.000		0	N.D.		
82) ethylbenzene	17.236		0	N.D.		
84) m+p-xylene	17.373		0	N.D.		
85) bromoform	0.000		0	N.D.		
86) styrene	0.000		0	N.D.		
87) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88) o-xylene	17.754		0	N.D.		
89) 1,2,3-trichloropropane	0.000		0	N.D.		
92) isopropylbenzene	0.000		0	N.D.	d	
93) bromobenzene	0.000		0	N.D.	d	
94) 2-chlorotoluene	0.000		0	N.D.		
95) n-propylbenzene	0.000		0	N.D.		
96) 4-chlorotoluene	0.000		0	N.D.		
98) 1,3,5-trimethylbenzene	18.746		0	N.D.		
99) tert-butylbenzene	0.000		0	N.D.		
100) 1,2,4-trimethylbenzene	19.053		0	N.D.		
103) 1,3-dichlorobenzene	0.000		0	N.D.		
104) 1,4-dichlorobenzene	0.000		0	N.D.		
105) sec-butylbenzene	0.000		0	N.D.	d	
107) p-isopropyltoluene	0.000		0	N.D.		
108) 1,2-dichlorobenzene	0.000		0	N.D.		
109) n-butylbenzene	0.000		0	N.D.		
112) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116) 1,2,4-trichlorobenzene	0.000		0	N.D.		
117) naphthalene	21.080		0	N.D.		
118) 1,2,3-trichlorobenzene	0.000		0	N.D.		
120) hexachlorobutadiene	0.000		0	N.D.		

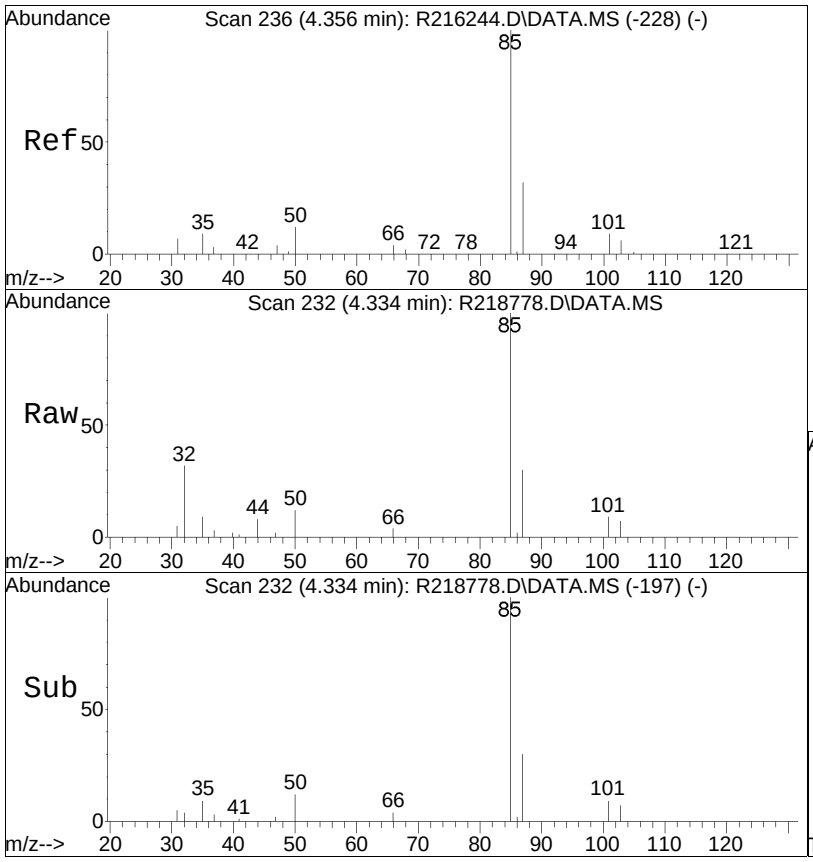
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218778.D
Acq On : 5 Jan 2012 23:51
Operator : AIRPIANO2:MB
Sample : L1200005-05,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 06 09:48:48 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

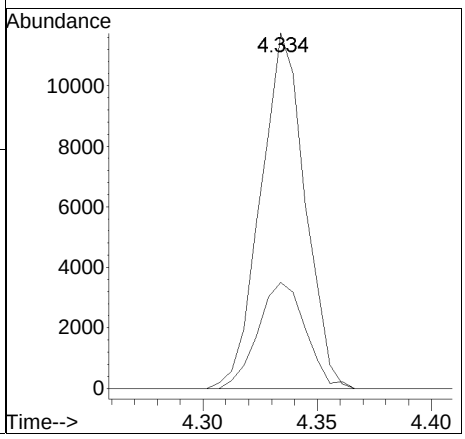


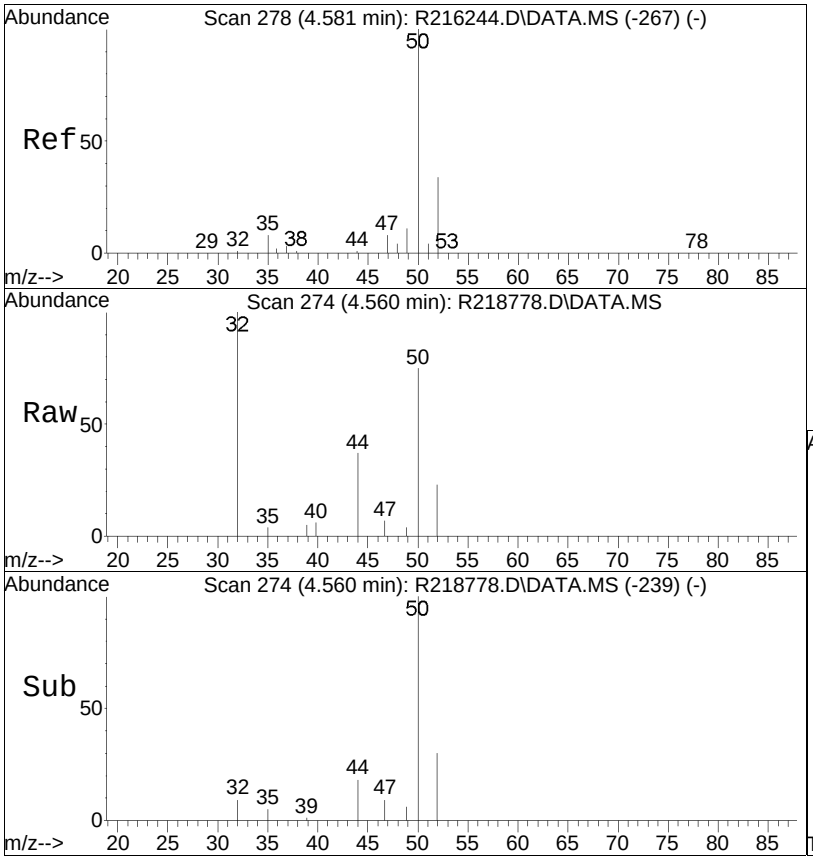


#5
dichlorodifluoromethane
Concen: 0.47 ppbV
RT: 4.334 min Scan# 232
Delta R.T. -0.011 min
Lab File: R218778.D
Acq: 5 Jan 2012 23:51

Tgt Ion: 85 Resp: 15828

Ion	Ratio	Lower	Upper
85	100		
87	29.8	26.4	39.6

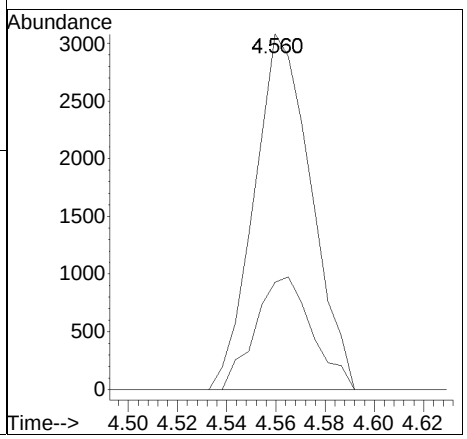


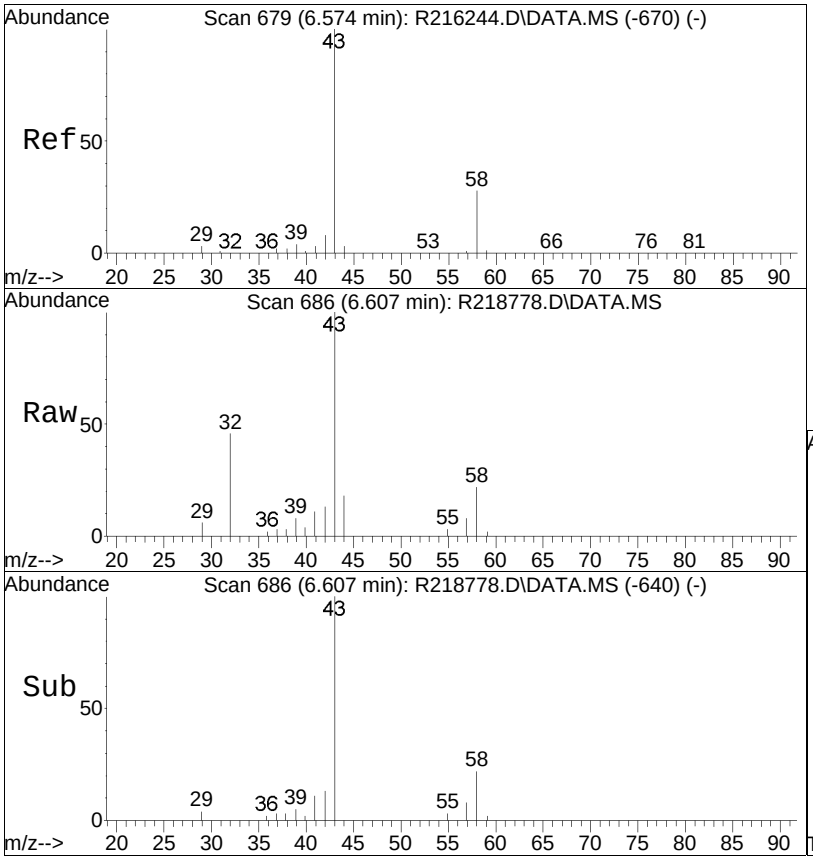


#6
chloromethane
Concen: 0.47 ppbV
RT: 4.560 min Scan# 274
Delta R.T. -0.011 min
Lab File: R218778.D
Acq: 5 Jan 2012 23:51

Tgt Ion: 50 Resp: 4955

Ion	Ratio	Lower	Upper
50	100		
52	30.2	24.4	36.6

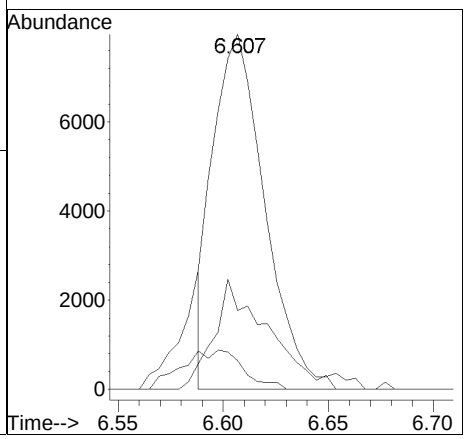


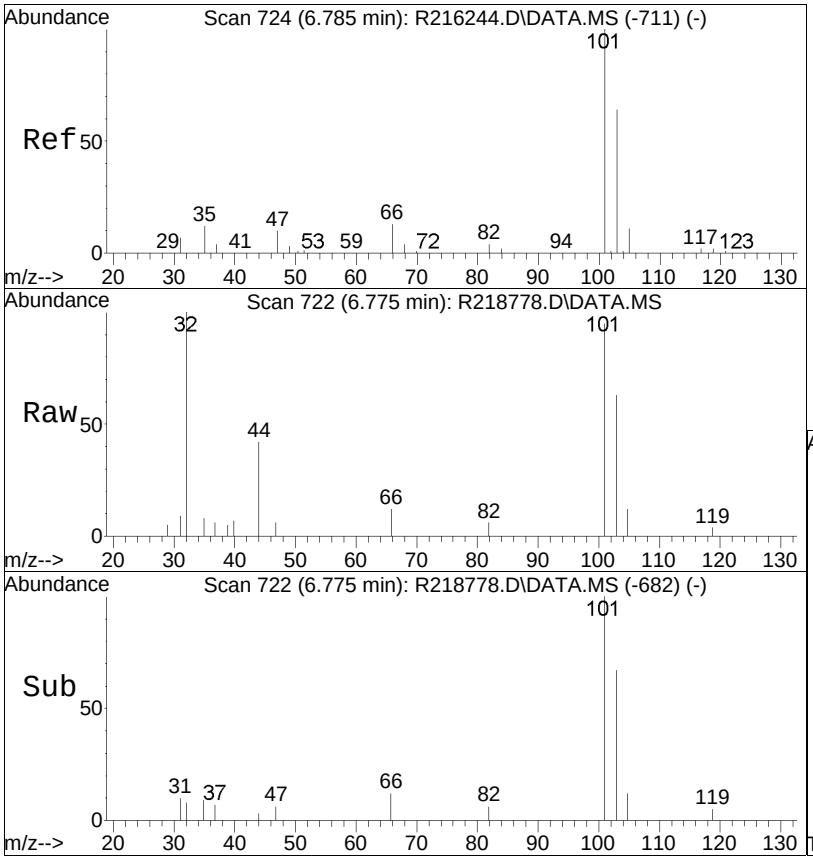


#19
acetone
Concen: 0.97 ppbV m
RT: 6.607 min Scan# 686
Delta R.T. 0.033 min
Lab File: R218778.D
Acq: 5 Jan 2012 23:51

Tgt Ion: 43 Resp: 13842

Ion	Ratio	Lower	Upper
43	100		
58	22.2	22.2	33.2
57	8.1	0.9	1.3#

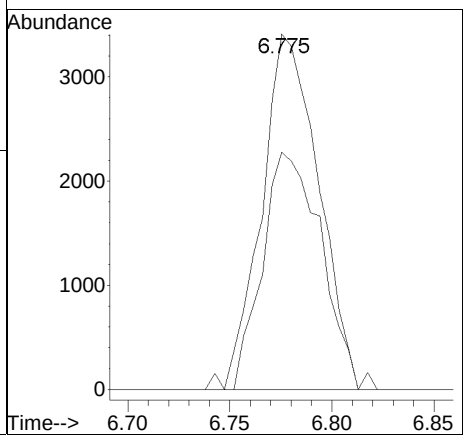


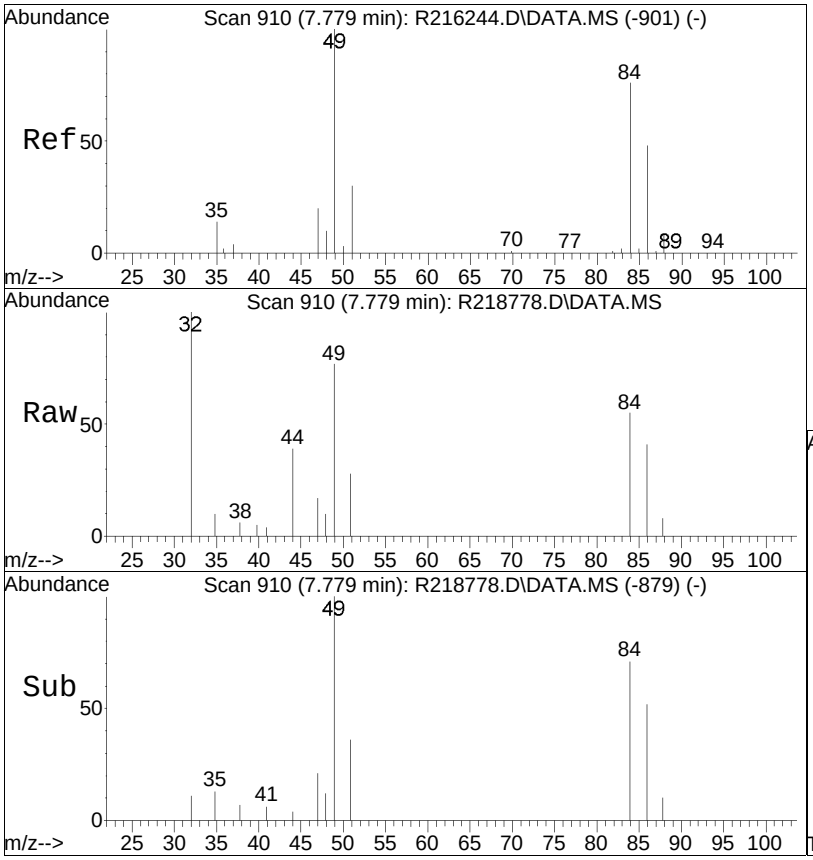


#21
trichlorofluoromethane
Concen: 0.19 ppbV
RT: 6.775 min Scan# 722
Delta R.T. -0.014 min
Lab File: R218778.D
Acq: 5 Jan 2012 23:51

Tgt Ion:101 Resp: 6641

Ion	Ratio	Lower	Upper
101	100		
103	66.7	50.2	75.2

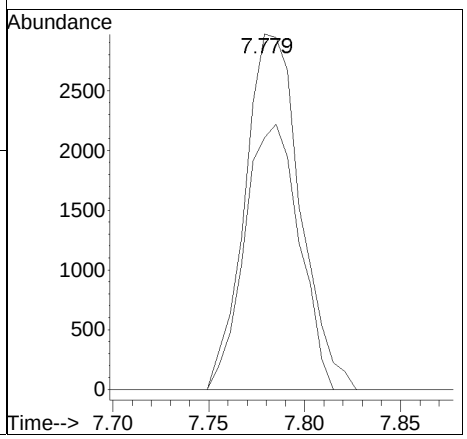


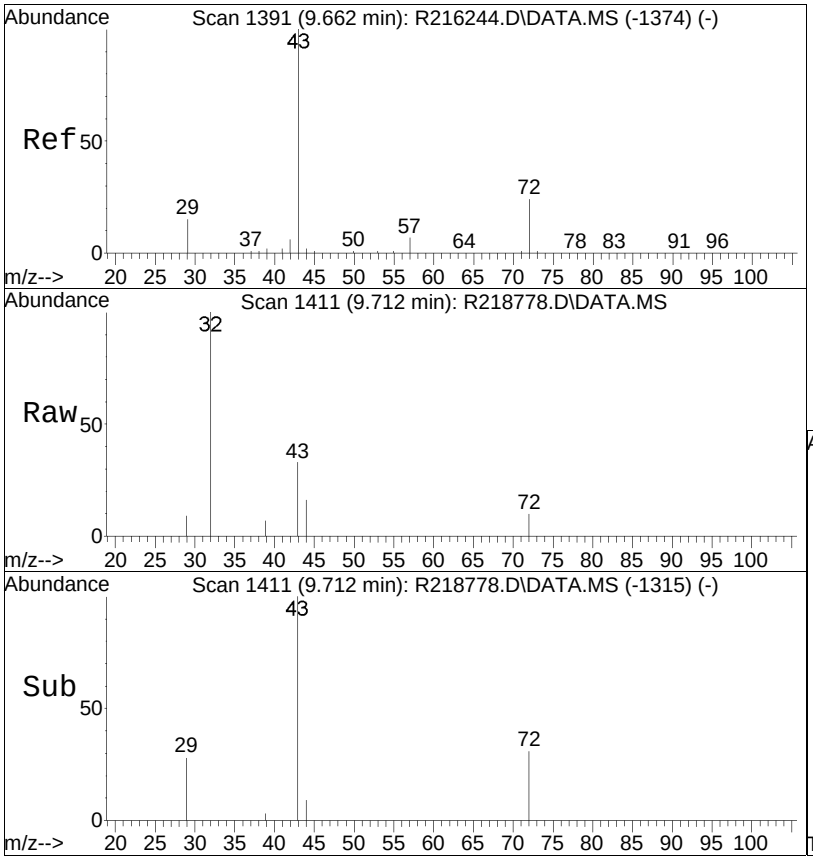


#28
methylene chloride
Concen: 0.41 ppbV
RT: 7.779 min Scan# 910
Delta R.T. -0.012 min
Lab File: R218778.D
Acq: 5 Jan 2012 23:51

Tgt Ion: 49 Resp: 5981

Ion	Ratio	Lower	Upper
49	100		
84	70.8	56.6	84.8

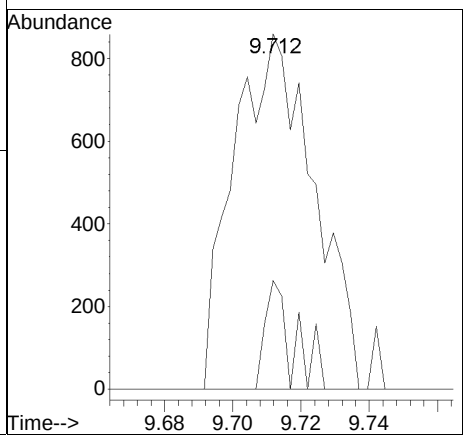


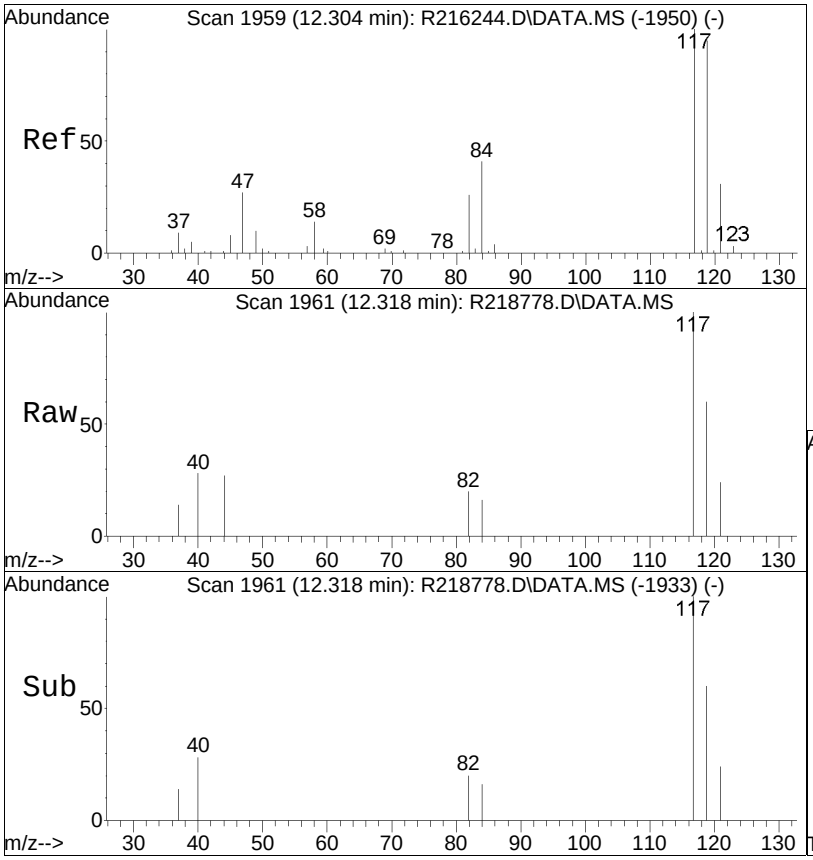


#36
2-butanone
Concen: 0.08 ppbV
RT: 9.712 min Scan# 1411
Delta R.T. 0.043 min
Lab File: R218778.D
Acq: 5 Jan 2012 23:51

Tgt Ion: 43 Resp: 1403

Ion	Ratio	Lower	Upper
43	100		
72	30.6	17.6	26.4#
57	0.0	5.6	8.4#

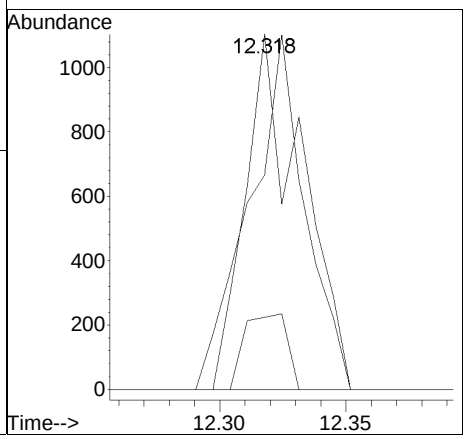


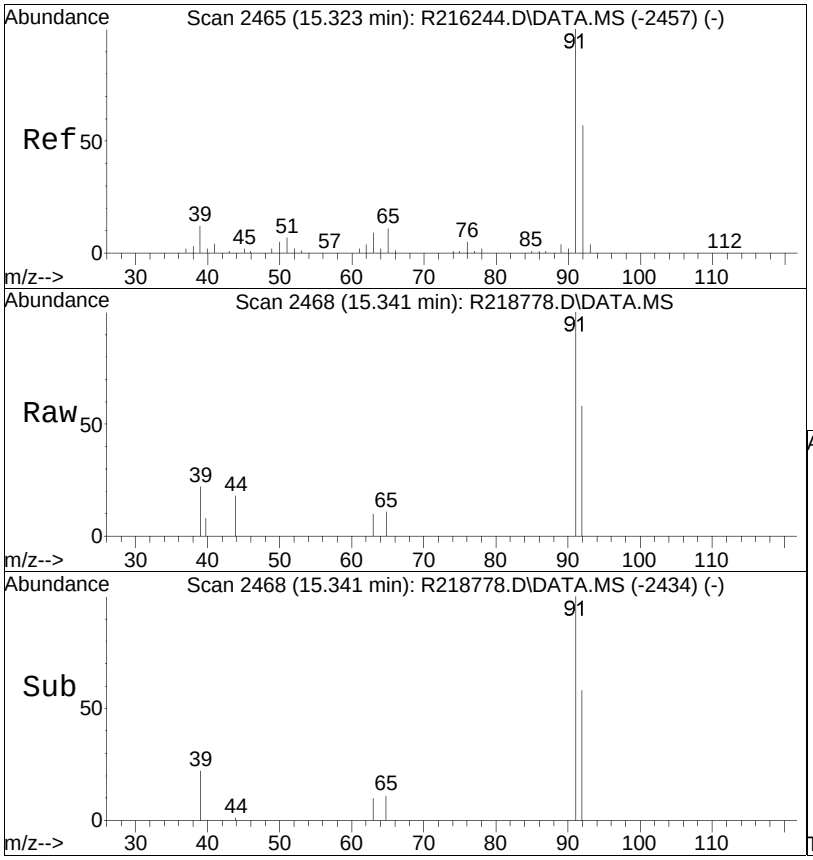


#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 12.318 min Scan# 1961
Delta R.T. -0.007 min
Lab File: R218778.D
Acq: 5 Jan 2012 23:51

Tgt Ion:117 Resp: 1736

Ion	Ratio	Lower	Upper
117	100		
119	60.3	76.8	115.2#
82	20.3	19.4	29.0

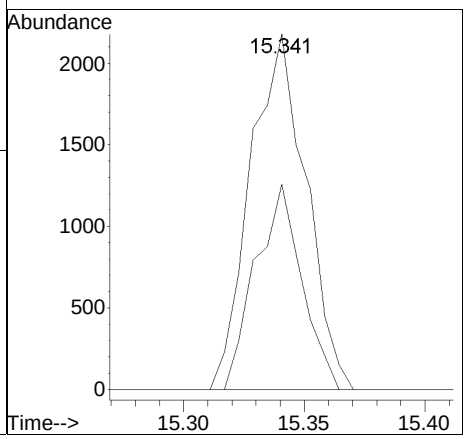




#69
toluene
Concen: 0.11 ppbV
RT: 15.341 min Scan# 2468
Delta R.T. -0.000 min
Lab File: R218778.D
Acq: 5 Jan 2012 23:51

Tgt Ion: 91 Resp: 3488

Ion	Ratio	Lower	Upper
91	100		
92	57.7	47.0	70.4

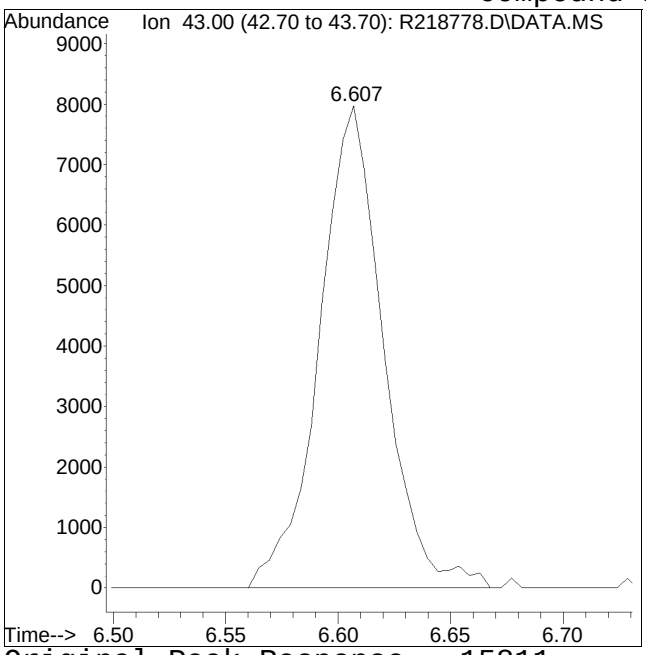


Manual Integration/Negative Proof Report

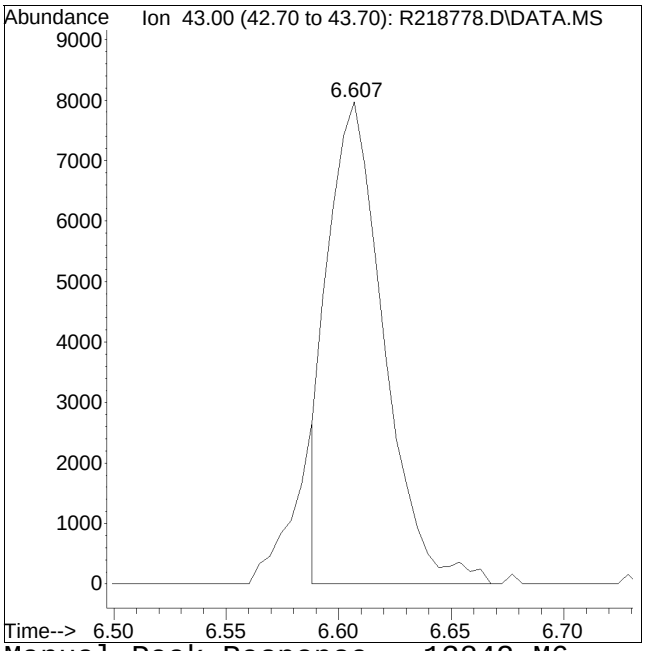
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218778.D
Date Inj'd : 1/5/2012 23:51
Sample : L1200005-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #19: acetone



Original Peak Response = 15811



Manual Peak Response = 13842 M6

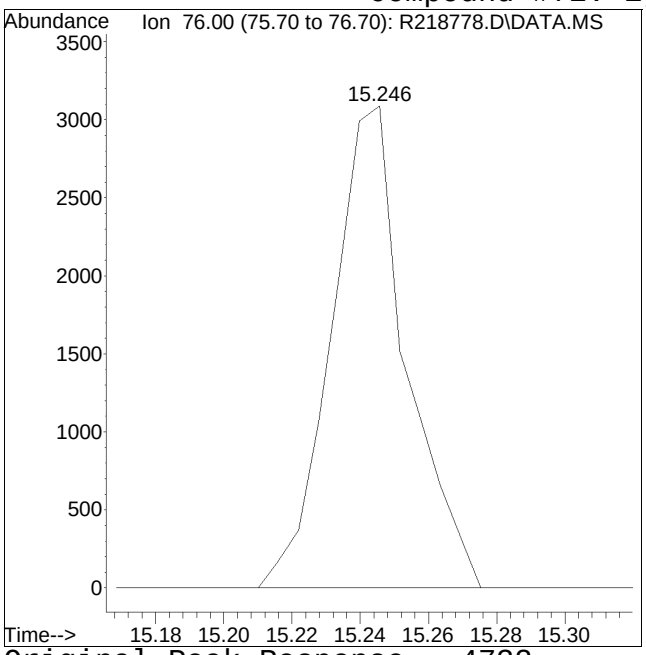
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

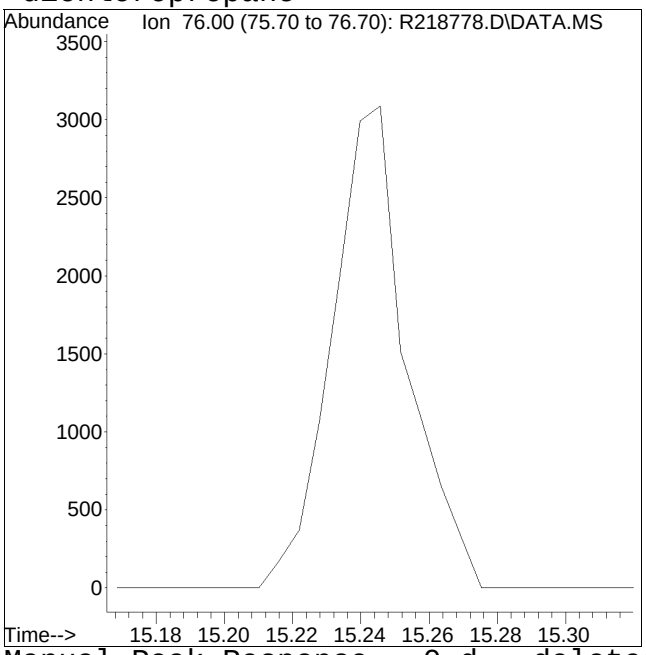
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218778.D
Date Inj'd : 1/5/2012 23:51
Sample : L1200005-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 4732



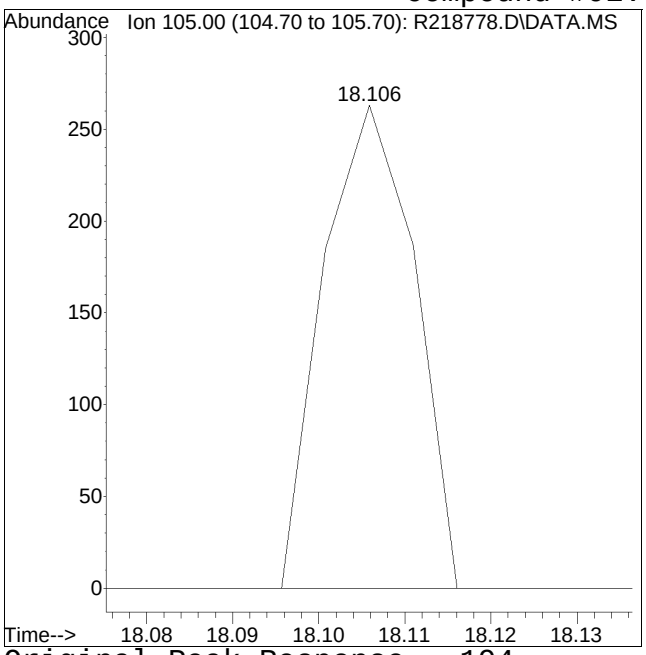
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

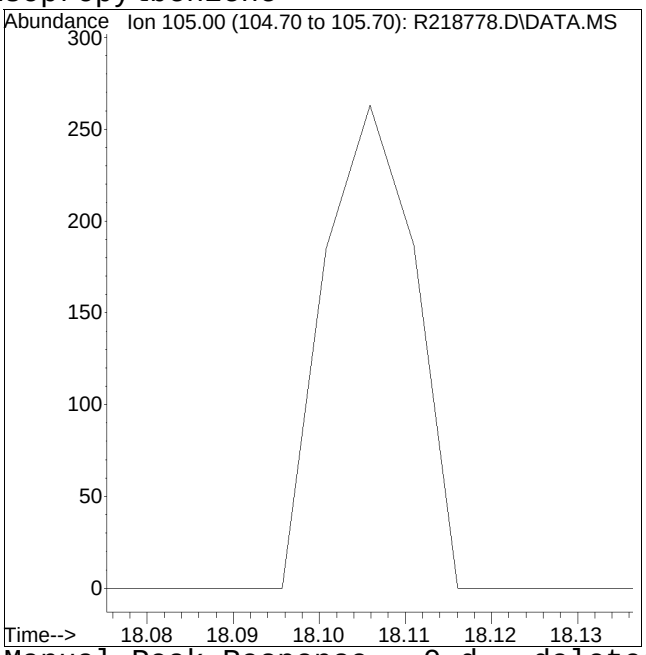
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218778.D
Date Inj'd : 1/5/2012 23:51
Sample : L1200005-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #92: isopropylbenzene



Original Peak Response = 194



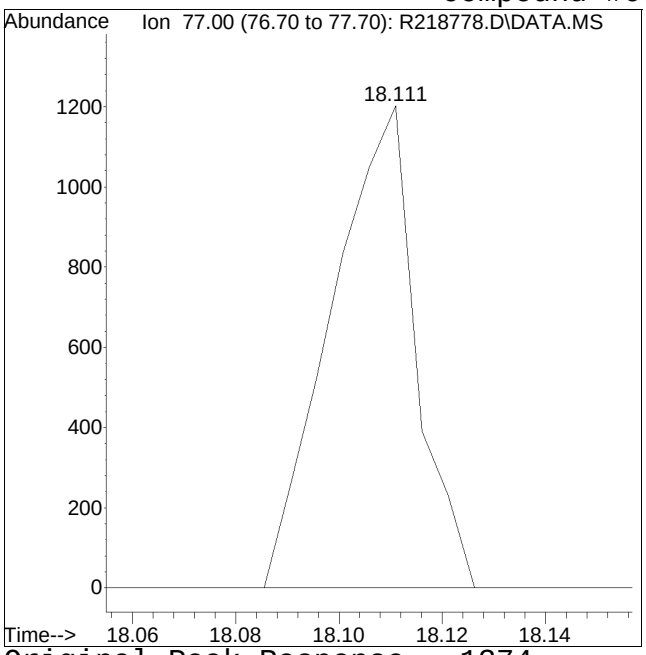
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

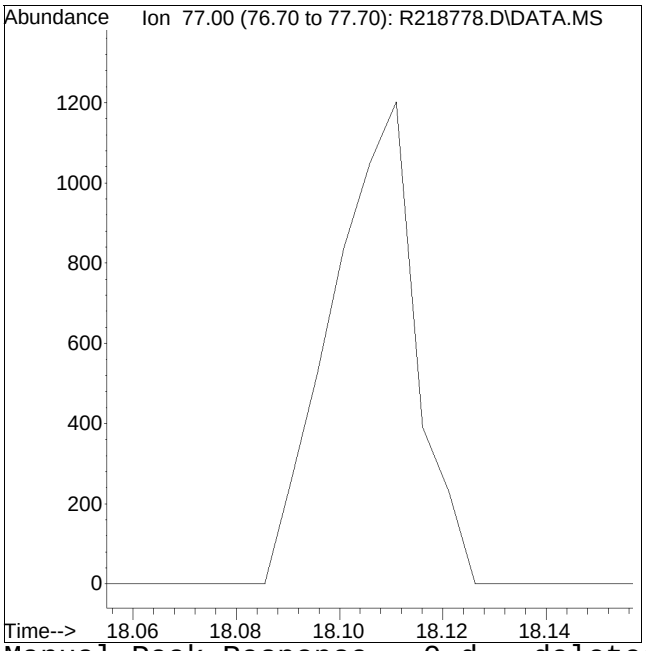
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218778.D
Date Inj'd : 1/5/2012 23:51
Sample : L1200005-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #93: bromobenzene



Original Peak Response = 1374



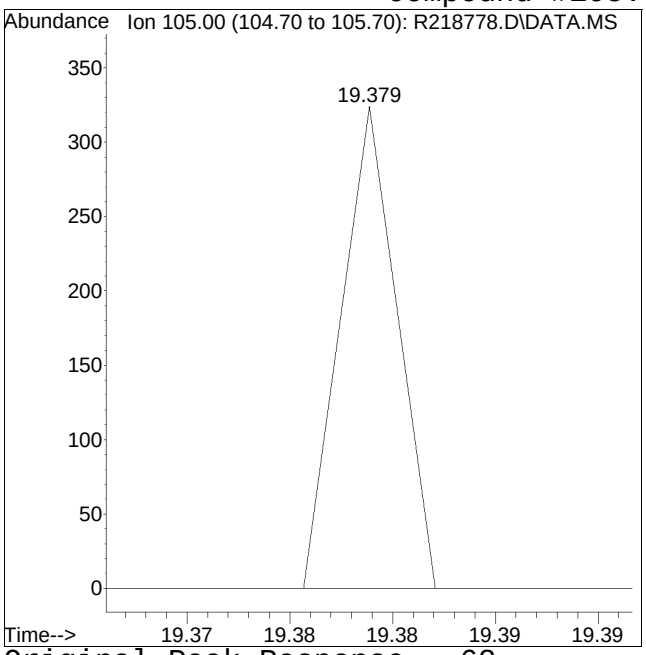
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

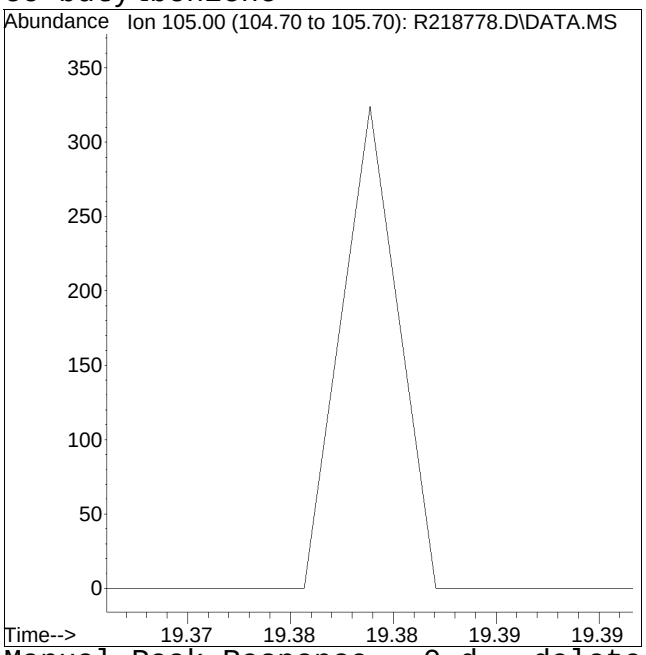
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218778.D
Date Inj'd : 1/5/2012 23:51
Sample : L1200005-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #105: sec-butylbenzene



Original Peak Response = 62



Manual Peak Response = 0 d - deleted

Method Blank
Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218771.D
Acq On : 5 Jan 2012 19:40
Operator : AIRPIANO2:MB
Sample : WG511601-4,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 06 08:48:54 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	139978	10.000	ppbV	0.00
Standard Area = 151117			Recovery =		92.63%	
43) 1,4-difluorobenzene	12.550	114	444228	10.000	ppbV	0.00
Standard Area = 485506			Recovery =		91.50%	
68) chlorobenzene-D5	16.905	54	82489	10.000	ppbV	0.00
Standard Area = 90670			Recovery =		90.98%	

System Monitoring Compounds

Target Compounds						Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.		
6) chloromethane	0.000		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
13) bromomethane	5.444		0	N.D.		
14) chloroethane	0.000		0	N.D.		
19) acetone	6.617	43	1921	0.133	ppbV #	95
21) trichlorofluoromethane	0.000		0	N.D.		
25) ethyl ether	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	7.780		0	N.D.		
30) carbon disulfide	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.707		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
45) diisopropyl ether	0.000		0	N.D.		
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	0.000		0	N.D.		
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	0.000		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218771.D
Acq On : 5 Jan 2012 19:40
Operator : AIRPIANO2:MB
Sample : WG511601-4,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 06 08:48:54 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

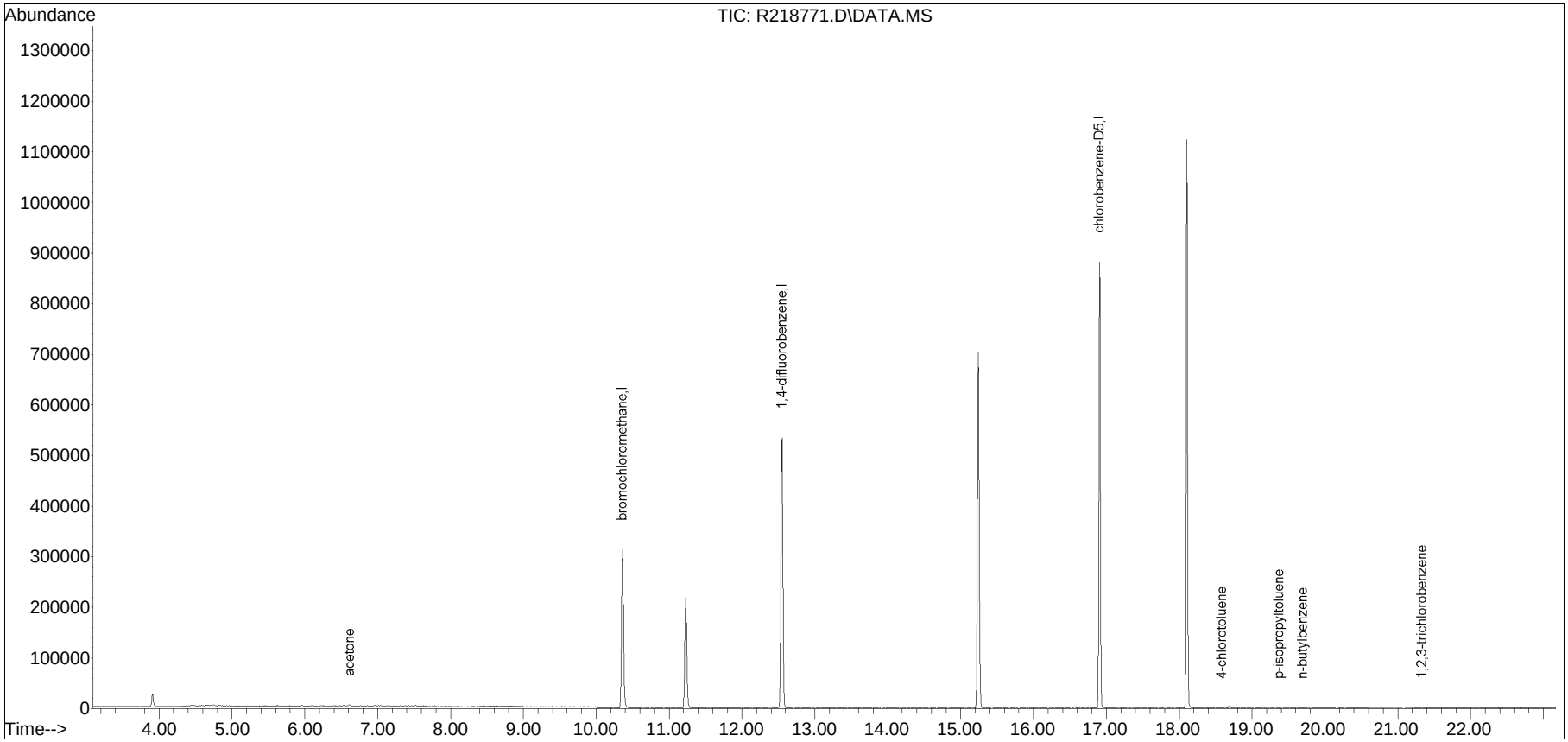
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 4-methyl-2-pentanone	0.000		0	N.D.		
66) trans-1,3-dichloropropene	0.000		0	N.D.		
67) 1,1,2-trichloroethane	0.000		0	N.D.		
69) toluene	15.340		0	N.D.		
72) 1,3-dichloropropane	0.000		0	N.D. d		
73) 2-hexanone	0.000		0	N.D. d		
75) dibromochloromethane	0.000		0	N.D.		
76) 1,2-dibromoethane	0.000		0	N.D.		
80) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81) chlorobenzene	0.000		0	N.D.		
82) ethylbenzene	17.235		0	N.D.		
84) m+p-xylene	17.388		0	N.D.		
85) bromoform	0.000		0	N.D.		
86) styrene	0.000		0	N.D.		
87) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88) o-xylene	0.000		0	N.D.		
89) 1,2,3-trichloropropane	0.000		0	N.D.		
92) isopropylbenzene	0.000		0	N.D. d		
93) bromobenzene	0.000		0	N.D. d		
94) 2-chlorotoluene	0.000		0	N.D.		
95) n-propylbenzene	0.000		0	N.D.		
96) 4-chlorotoluene	18.581	91	82	0.003	ppbV #	40
98) 1,3,5-trimethylbenzene	0.000		0	N.D.		
99) tert-butylbenzene	0.000		0	N.D.		
100) 1,2,4-trimethylbenzene	19.052		0	N.D.		
103) 1,3-dichlorobenzene	0.000		0	N.D. d		
104) 1,4-dichlorobenzene	19.225		0	N.D.		
105) sec-butylbenzene	0.000		0	N.D.		
107) p-isopropyltoluene	19.372	119	35	0.001	ppbV #	49
108) 1,2-dichlorobenzene	19.503		0	N.D.		
109) n-butylbenzene	19.692	91	35	0.001	ppbV #	49
112) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116) 1,2,4-trichlorobenzene	20.960		0	N.D.		
117) naphthalene	21.079		0	N.D.		
118) 1,2,3-trichlorobenzene	21.328	180	641	0.035	ppbV #	63
120) hexachlorobutadiene	0.000		0	N.D.		

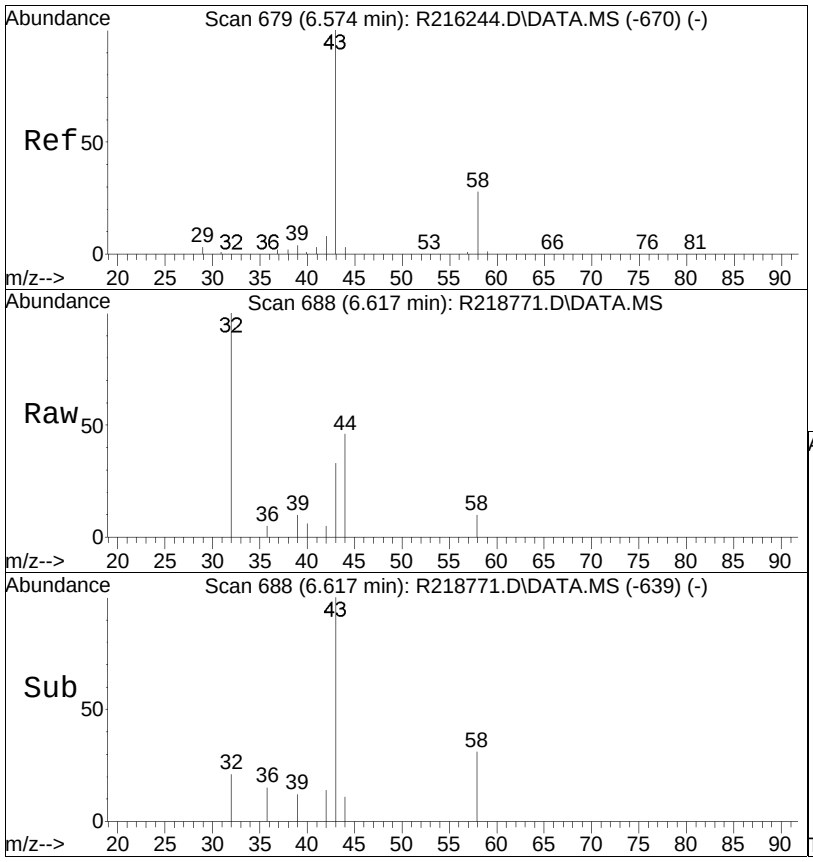
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218771.D
Acq On : 5 Jan 2012 19:40
Operator : AIRPIANO2:MB
Sample : WG511601-4,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 06 08:48:54 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

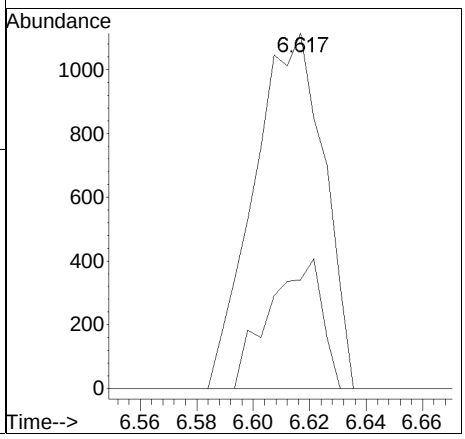


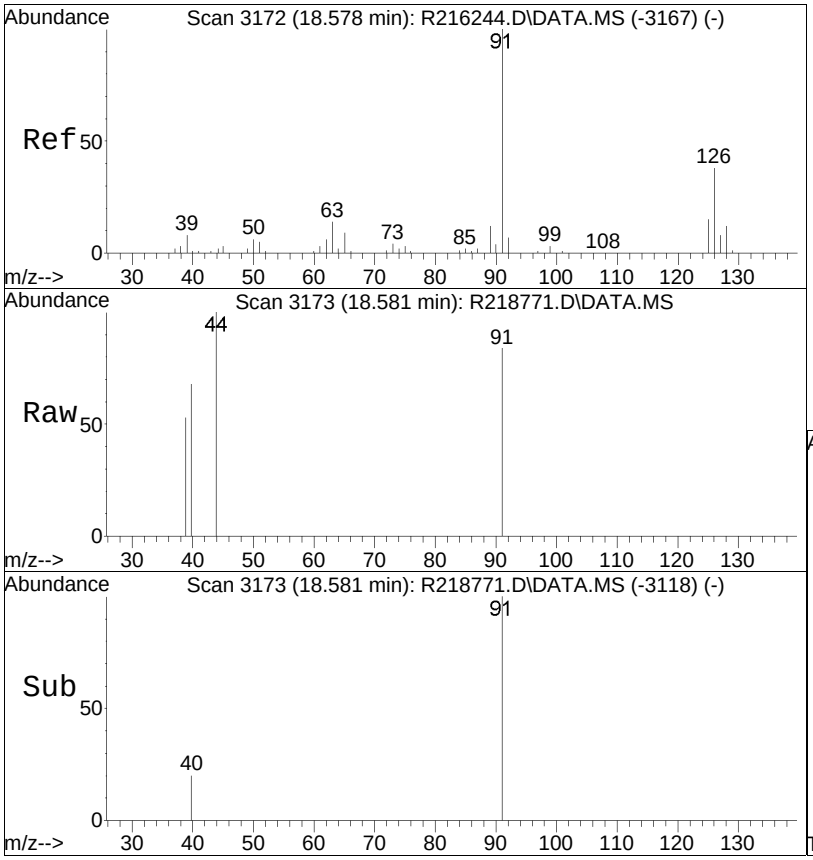


#19
acetone
Concen: 0.13 ppbV
RT: 6.617 min Scan# 688
Delta R.T. 0.043 min
Lab File: R218771.D
Acq: 5 Jan 2012 19:40

Tgt Ion: 43 Resp: 1921

Ion	Ratio	Lower	Upper
43	100		
58	30.6	22.2	33.2
57	0.0	0.9	1.3#

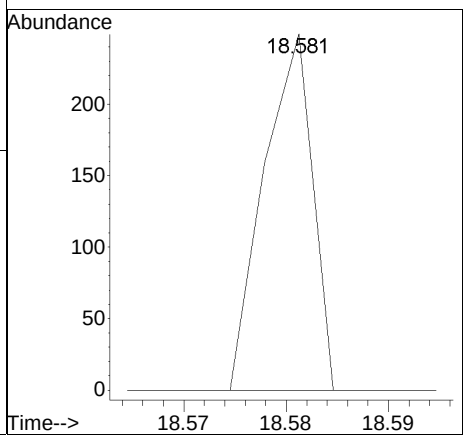


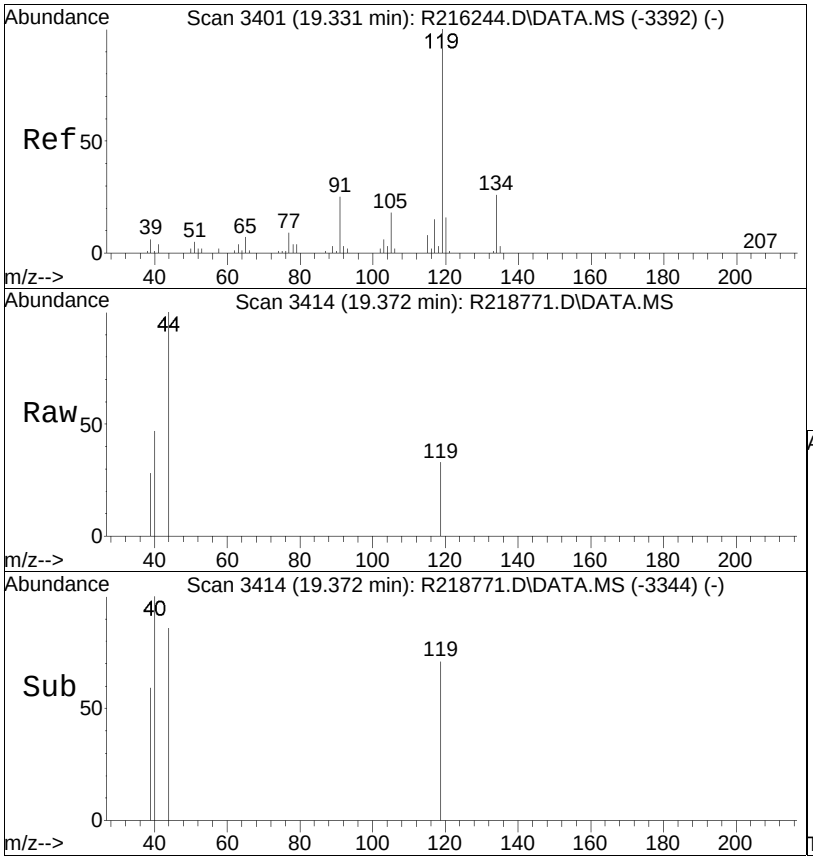


#96
4-chlorotoluene
Concen: 0.00 ppbV
RT: 18.581 min Scan# 3173
Delta R.T. -0.014 min
Lab File: R218771.D
Acq: 5 Jan 2012 19:40

Tgt Ion: 91 Resp: 82

Ion	Ratio	Lower	Upper
91	100		
126	0.0	28.2	42.2#

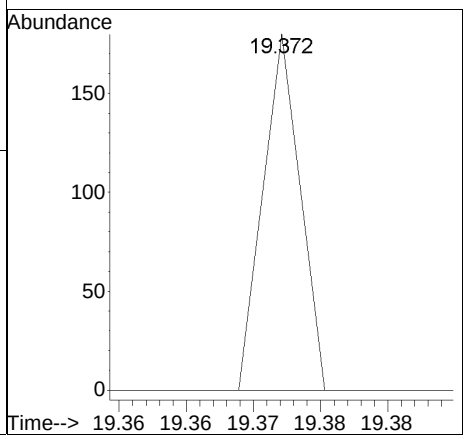


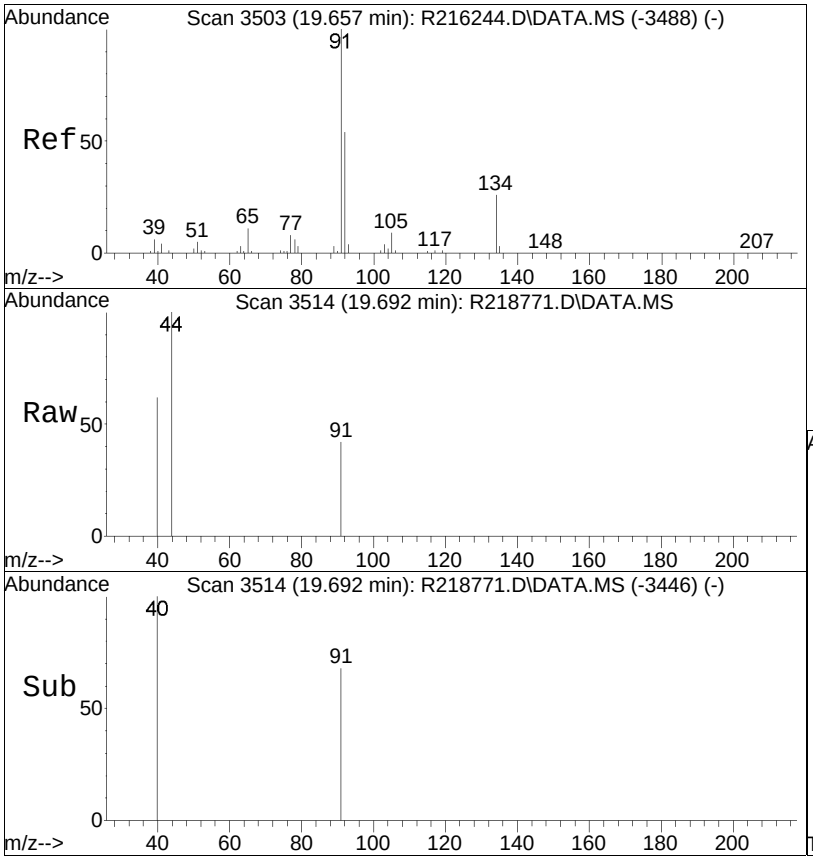


#107
p-isopropyltoluene
Concen: 0.00 ppbV
RT: 19.372 min Scan# 3414
Delta R.T. 0.025 min
Lab File: R218771.D
Acq: 5 Jan 2012 19:40

Tgt Ion:119 Resp: 35

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

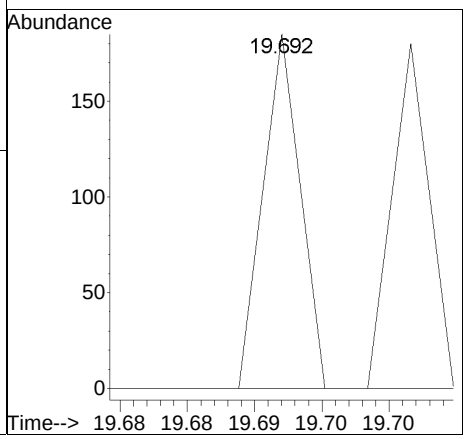


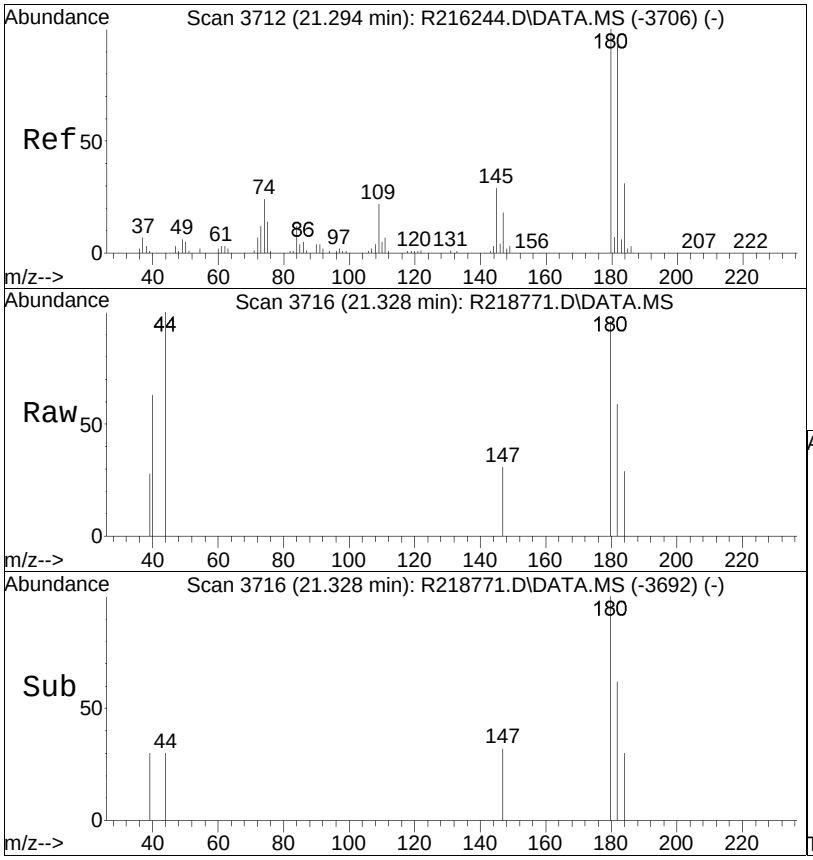


#109
n-butylbenzene
Concen: 0.00 ppbV
RT: 19.692 min Scan# 3514
Delta R.T. 0.019 min
Lab File: R218771.D
Acq: 5 Jan 2012 19:40

Tgt Ion: 91 Resp: 35

Ion	Ratio	Lower	Upper
91	100		
134	0.0	20.9	31.3#

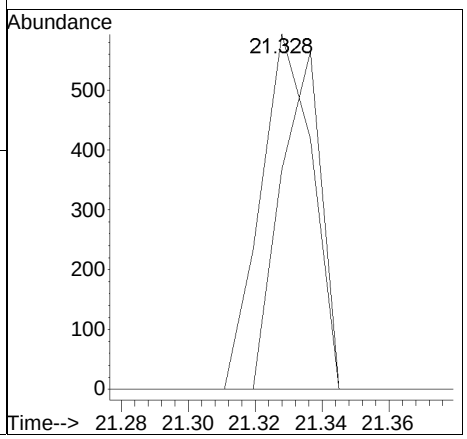




#118
1,2,3-trichlorobenzene
Concen: 0.03 ppbV
RT: 21.328 min Scan# 3716
Delta R.T. 0.008 min
Lab File: R218771.D
Acq: 5 Jan 2012 19:40

Tgt Ion:180 Resp: 641

Ion	Ratio	Lower	Upper
180	100		
182	61.8	76.9	115.3#
109	0.0	17.9	26.9#

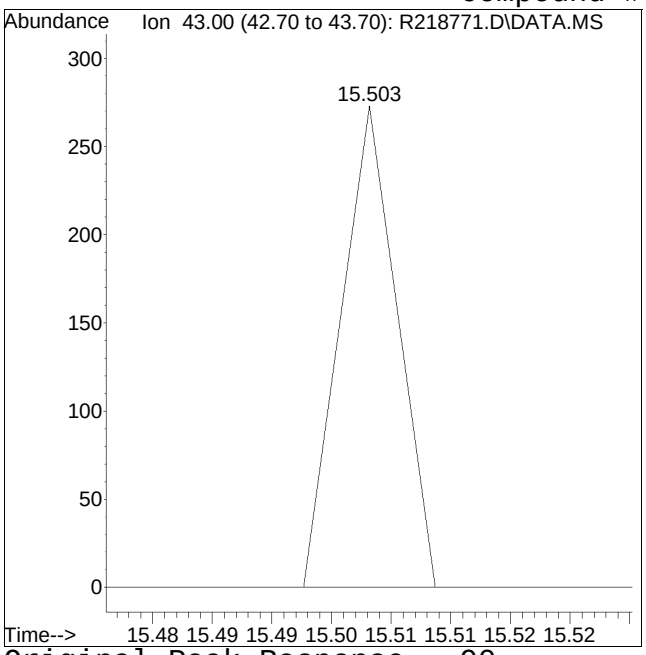


Manual Integration/Negative Proof Report

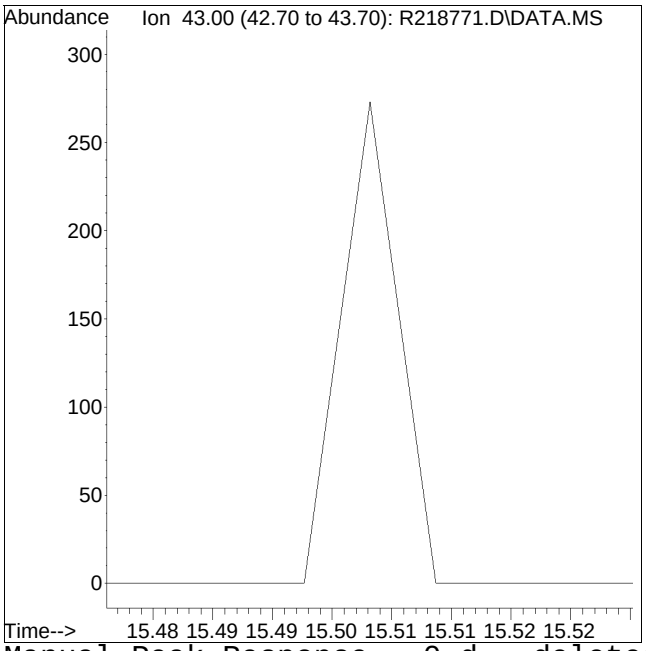
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218771.D
Date Inj'd : 1/5/2012 19:40
Sample : WG511601-4,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:48 am

Compound #73: 2-hexanone



Original Peak Response = 90



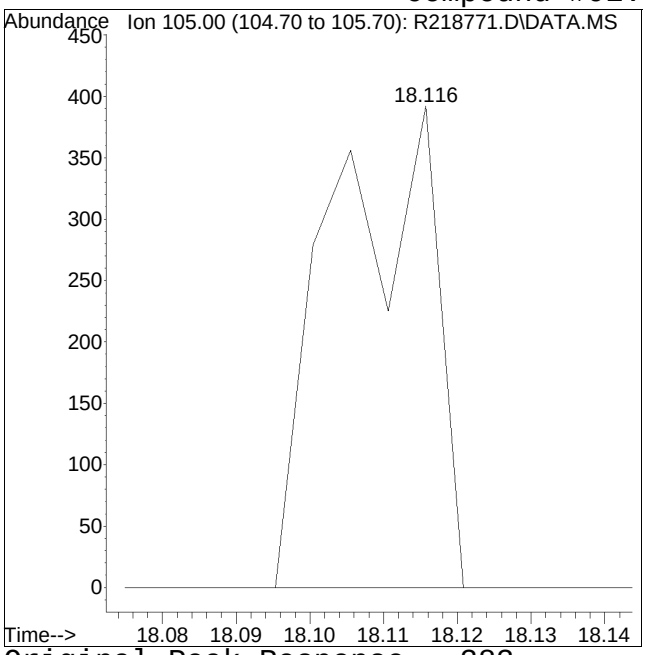
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

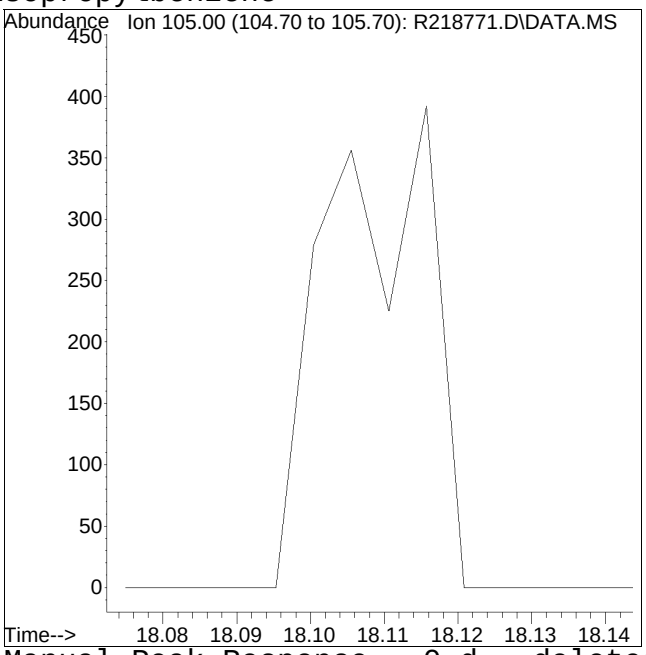
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218771.D
Date Inj'd : 1/5/2012 19:40
Sample : WG511601-4,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:48 am

Compound #92: isopropylbenzene



Original Peak Response = 383



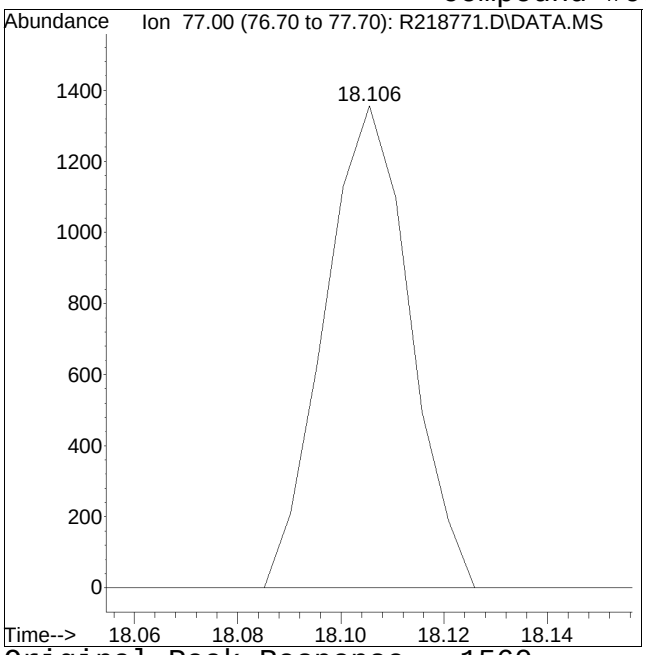
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

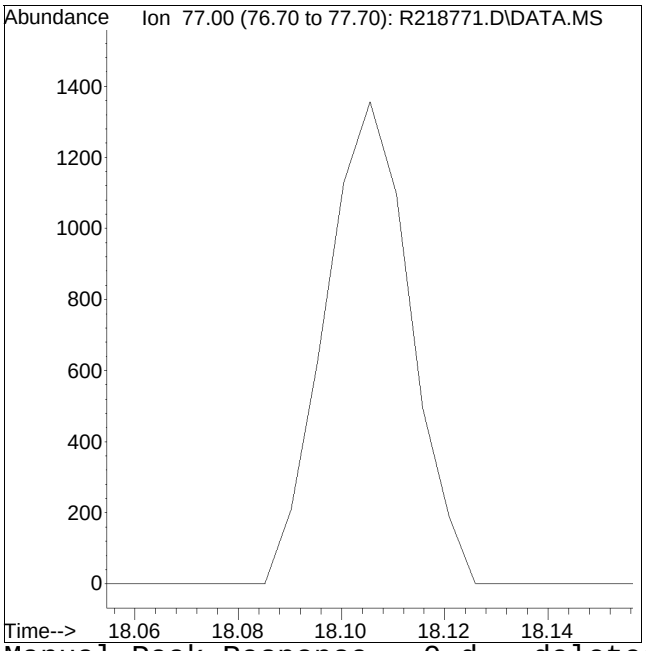
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218771.D
Date Inj'd : 1/5/2012 19:40
Sample : WG511601-4,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:48 am

Compound #93: bromobenzene



Original Peak Response = 1560



Manual Peak Response = 0 d - deleted

Batch Quality Control

LCS Raw Data

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-3,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	85	0.00
5		dichlorodifluoromethane	10.000	8.402	16.0	68	-0.01
6	C	chloromethane	10.000	7.869	21.3	64	-0.02
9	C	vinyl chloride	10.000	8.026	19.7	64	-0.02
13	C	bromomethane	10.000	8.205	17.9	67	-0.01
14	C	chloroethane	10.000	8.451	15.5	69	-0.01
19		acetone	10.000	9.393	6.1	76	-0.01
21		trichlorofluoromethane	10.000	8.287	17.1	68	0.00
25		ethyl ether	10.000	8.221	17.8	62	-0.01
26	C	1,1-dichloroethene	10.000	8.272	17.3	68	0.00
28	C	methylene chloride	10.000	8.421	15.8	72	-0.01
30	C	carbon disulfide	10.000	7.892	21.1	62	0.00
32		trans-1,2-dichloroethene	10.000	8.192	18.1	66	-0.01
33	C	1,1-dichloroethane	10.000	7.814	21.9	62	0.00
34	C	MTBE	10.000	8.307	16.9	61	0.00
36	C	2-butanone	10.000	8.706	12.9	68	0.00
37		cis-1,2-dichloroethene	10.000	8.286	17.1	59	0.00
40		Tetrahydrofuran	10.000	9.635	3.7	79	0.00
41		2,2-dichloropropane	10.000	8.356	16.4	65	0.00
42	C	1,2-dichloroethane	10.000	9.079	9.2	71	0.00
43	I	1,4-difluorobenzene	10.000	10.000	0.0	91	0.00
45		diisopropyl ether	10.000	8.675	13.2	74	0.00
46		tert-butyl ethyl ether	10.000	8.781	12.2	72	0.00
48	C	1,1,1-trichloroethane	10.000	8.344	16.6	74	0.00
49		1,1-dichloropropene	10.000	8.187	18.1	73	0.00
52	C	carbon tetrachloride	10.000	8.259	17.4	74	0.00
54		tert-amyl methyl ether	10.000	9.003	10.0	74	0.00
55		dibromomethane	10.000	8.033	19.7	72	0.00
56	C	1,2-dichloropropane	10.000	8.762	12.4	76	0.00
57		bromodichloromethane	10.000	8.312	16.9	72	0.00
58	C	1,4-dioxane	10.000	9.819	1.8	83	0.00
63	C	cis-1,3-dichloropropene	10.000	8.995	10.1	76	0.00
64	C	4-methyl-2-pentanone	10.000	9.560	4.4	82	0.00
66		trans-1,3-dichloropropene	10.000	7.662	23.4	65	0.00
67	C	1,1,2-trichloroethane	10.000	9.205	7.9	82	0.00
68	I	chlorobenzene-D5	10.000	10.000	0.0	81	0.00
69	C	toluene	10.000	10.216	-2.2	74	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-3,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
72		1,3-dichloropropane	10.000	9.785	2.1	67	0.00
73		2-hexanone	10.000	10.918	-9.2	79	0.00
75		dibromochloromethane	10.000	10.600	-6.0	73	0.00
76	C	1,2-dibromoethane	10.000	10.488	-4.9	77	0.00
80		1,1,1,2-tetrachloroethane	10.000	10.071	-0.7	73	0.00
81	C	chlorobenzene	10.000	10.667	-6.7	78	0.00
82	C	ethylbenzene	10.000	11.088	-10.9	78	0.00
84	C	m+p-xylene	20.000	22.079	-10.4	77	0.00
85	C	bromoform	10.000	10.520	-5.2	69	0.00
86	C	styrene	10.000	11.339	-13.4	77	0.00
87	C	1,1,2,2-tetrachloroethane	10.000	11.766	-17.7	79	0.00
88	C	o-xylene	10.000	11.944	-19.4	78	0.00
89		1,2,3-trichloropropane	10.000	11.273	-12.7	78	0.00
92	C	isopropylbenzene	10.000	11.230	-12.3	79	0.00
93		bromobenzene	10.000	9.957	0.4	66	0.00
94		2-chlorotoluene	10.000	10.940	-9.4	76	0.00
95		n-propylbenzene	10.000	11.632	-16.3	78	0.00
96		4-chlorotoluene	10.000	10.968	-9.7	75	0.00
98		1,3,5-trimethylbenzene	10.000	12.282	-22.8	84	0.00
99		tert-butylbenzene	10.000	12.275	-22.8	80	-0.01
100		1,2,4-trimethylbenzene	10.000	12.975	-29.8	83	-0.01
103		1,3-dichlorobenzene	10.000	12.311	-23.1	83	-0.02
104	C	1,4-dichlorobenzene	10.000	12.226	-22.3	83	-0.02
105		sec-butylbenzene	10.000	12.202	-22.0	79	-0.02
107		p-isopropyltoluene	10.000	12.129	-21.3	78	-0.02
108		1,2-dichlorobenzene	10.000	12.625	-26.3	85	-0.02
109		n-butylbenzene	10.000	13.086	-30.9#	84	-0.02
112	C	1,2-dibromo-3-chloropropane	10.000	12.806	-28.1	80	-0.03
116	C	1,2,4-trichlorobenzene	10.000	14.790	-47.9#	88	-0.03
117		naphthalene	10.000	13.060	-30.6#	85	-0.03
118		1,2,3-trichlorobenzene	10.000	14.704	-47.0#	95	-0.03
120	C	hexachlorobutadiene	10.000	14.779	-47.8#	89	-0.04

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 2

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-3,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	151117	10.000	ppbV	0.00
Standard Area = 151117			Recovery = 100.00%			
43) 1,4-difluorobenzene	12.549	114	485506	10.000	ppbV	0.00
Standard Area = 485506			Recovery = 100.00%			
68) chlorobenzene-D5	16.908	54	90670	10.000	ppbV	0.00
Standard Area = 90670			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	313288	8.402	ppbV	100
6) chloromethane	4.554	50	91175	7.869	ppbV	95
9) vinyl chloride	4.871	62	105483	8.026	ppbV	98
13) bromomethane	5.461	94	110539	8.205	ppbV	98
14) chloroethane	5.716	64	49702	8.451	ppbV	95
19) acetone	6.560	43	146628	9.393	ppbV	94
21) trichlorofluoromethane	6.780	101	316735	8.287	ppbV	98
25) ethyl ether	7.307	31	107359	8.221	ppbV	99
26) 1,1-dichloroethene	7.612	61	175354	8.272	ppbV	98
28) methylene chloride	7.779	49	133076	8.421	ppbV	98
30) carbon disulfide	8.109	76	291779	7.892	ppbV	100
32) trans-1,2-dichloroethene	8.941	61	209662	8.192	ppbV	96
33) 1,1-dichloroethane	9.182	63	179020	7.814	ppbV	98
34) MTBE	9.266	73	223194	8.307	ppbV	99
36) 2-butanone	9.661	43	169147	8.706	ppbV	97
37) cis-1,2-dichloroethene	10.169	61	134292	8.286	ppbV	91
40) Tetrahydrofuran	10.964	42	93667	9.635	ppbV	99
41) 2,2-dichloropropane	10.539	77	181402	8.356	ppbV	96
42) 1,2-dichloroethane	11.350	62	141493	9.079	ppbV	99
45) diisopropyl ether	10.424	87	67691	8.675	ppbV #	87
46) tert-butyl ethyl ether	11.034	59	257004	8.781	ppbV	98
48) 1,1,1-trichloroethane	11.637	97	225293	8.344	ppbV	98
49) 1,1-dichloropropene	11.991	75	160819	8.187	ppbV	96
52) carbon tetrachloride	12.325	117	246324	8.259	ppbV	97
54) tert-amyl methyl ether	12.821	73	241881	9.003	ppbV	95
55) dibromomethane	13.043	93	137325	8.033	ppbV #	87
56) 1,2-dichloropropane	13.074	63	108348	8.762	ppbV	97
57) bromodichloromethane	13.296	83	226724	8.312	ppbV	97
58) 1,4-dioxane	13.334	88	64357	9.819	ppbV #	78
63) cis-1,3-dichloropropene	14.310	75	159024	8.995	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-3,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

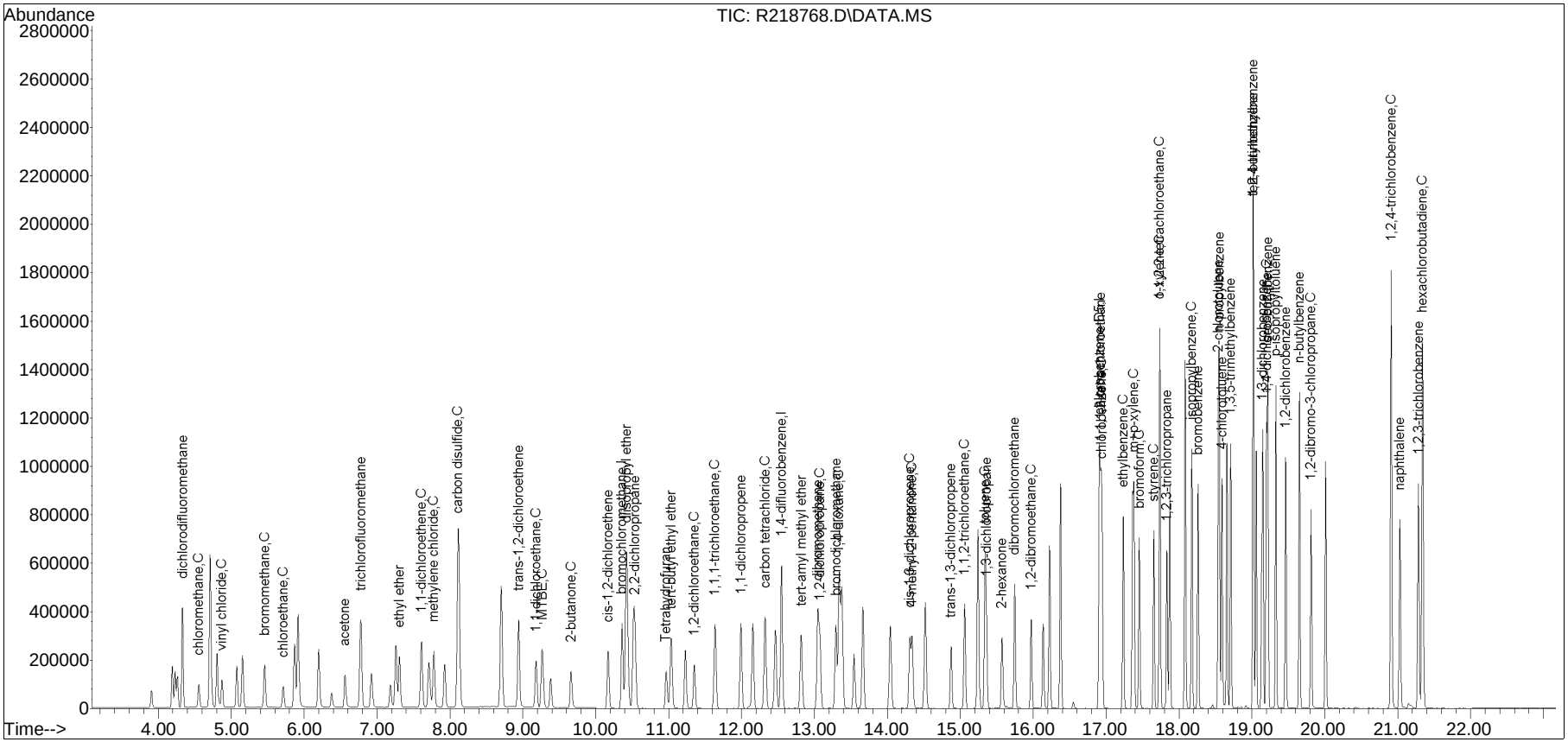
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64)	4-methyl-2-pentanone	14.338	43	210541	9.560	ppbV		96
66)	trans-1,3-dichloropropene	14.872	75	130614	7.662	ppbV		98
67)	1,1,2-trichloroethane	15.062	97	126758	9.205	ppbV		96
69)	toluene	15.341	91	374629	10.216	ppbV		98
72)	1,3-dichloropropane	15.359	76	161151	9.785	ppbV		95
73)	2-hexanone	15.570	43	197201	10.918	ppbV		97
75)	dibromochloromethane	15.746	129	248562	10.600	ppbV		99
76)	1,2-dibromoethane	15.974	107	203889	10.488	ppbV		95
80)	1,1,1,2-tetrachloroethane	16.925	131	178619	10.071	ppbV		95
81)	chlorobenzene	16.941	112	313160	10.667	ppbV		97
82)	ethylbenzene	17.238	91	455016	11.088	ppbV		98
84)	m+p-xylene	17.380	91	713085	22.079	ppbV		97
85)	bromoform	17.456	173	262500	10.520	ppbV		99
86)	styrene	17.654	104	268150	11.339	ppbV		99
87)	1,1,2,2-tetrachloroethane	17.736	83	276116	11.766	ppbV		99
88)	o-xylene	17.736	91	412766	11.944	ppbV		99
89)	1,2,3-trichloropropane	17.832	75	227571	11.273	ppbV		99
92)	isopropylbenzene	18.174	105	526431	11.230	ppbV		99
93)	bromobenzene	18.261	77	247791	9.957	ppbV	#	82
94)	2-chlorotoluene	18.541	126	150040	10.940	ppbV		82
95)	n-propylbenzene	18.552	120	149008	11.632	ppbV		91
96)	4-chlorotoluene	18.588	91	385774	10.968	ppbV		98
98)	1,3,5-trimethylbenzene	18.709	105	437230	12.282	ppbV		98
99)	tert-butylbenzene	19.017	119	486290	12.275	ppbV		98
100)	1,2,4-trimethylbenzene	19.017	105	443159	12.975	ppbV		98
103)	1,3-dichlorobenzene	19.149	146	345088	12.311	ppbV		94
104)	1,4-dichlorobenzene	19.200	146	341667	12.226	ppbV		96
105)	sec-butylbenzene	19.216	105	659528	12.202	ppbV		99
107)	p-isopropyltoluene	19.328	119	552214	12.129	ppbV		98
108)	1,2-dichlorobenzene	19.462	146	327863	12.625	ppbV		96
109)	n-butylbenzene	19.651	91	531486	13.086	ppbV		99
112)	1,2-dibromo-3-chloropr...	19.812	75	126035	12.806	ppbV		87
116)	1,2,4-trichlorobenzene	20.909	180	276276	14.790	ppbV		95
117)	naphthalene	21.028	128	541220	13.060	ppbV		99
118)	1,2,3-trichlorobenzene	21.285	180	299872	14.704	ppbV	#	97
120)	hexachlorobutadiene	21.337	225	307218	14.779	ppbV	#	92

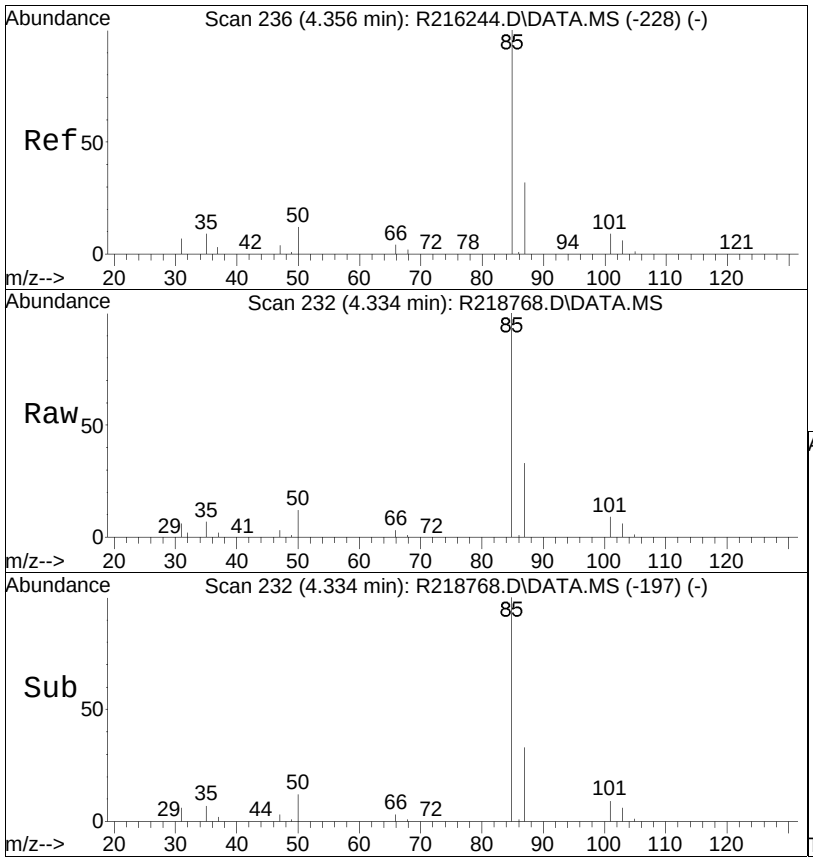
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-3,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

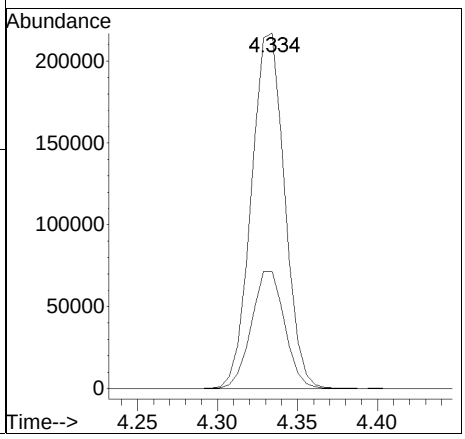


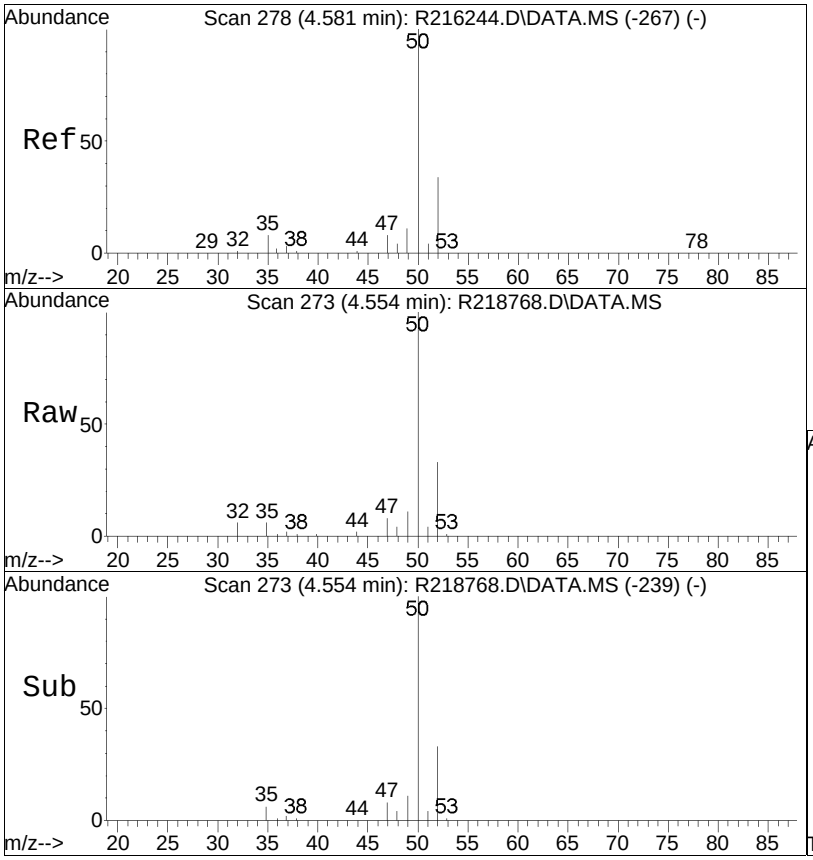


#5
dichlorodifluoromethane
Concen: 8.40 ppbV
RT: 4.334 min Scan# 232
Delta R.T. -0.011 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 85 Resp: 313288

Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.4	39.6

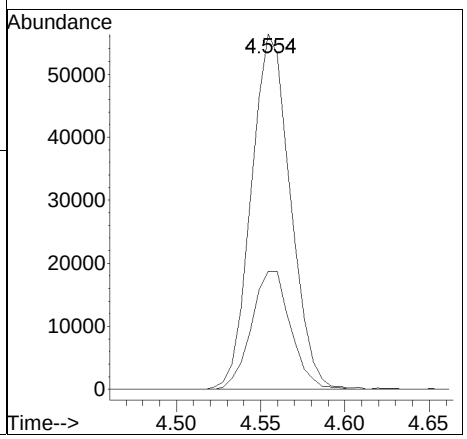


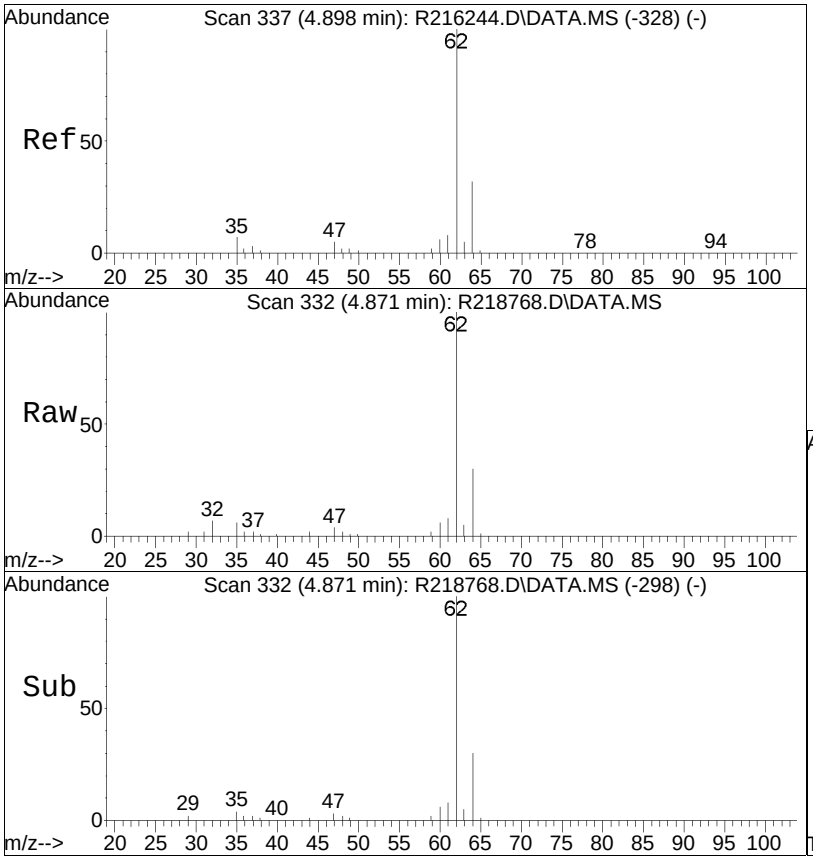


#6
chloromethane
Concen: 7.87 ppbV
RT: 4.554 min Scan# 273
Delta R.T. -0.016 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 50 Resp: 91175

Ion	Ratio	Lower	Upper
50	100		
52	33.2	24.4	36.6

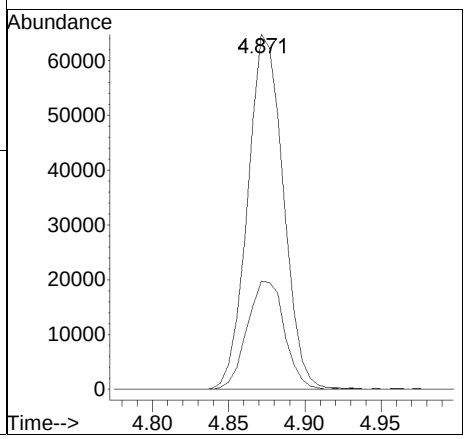


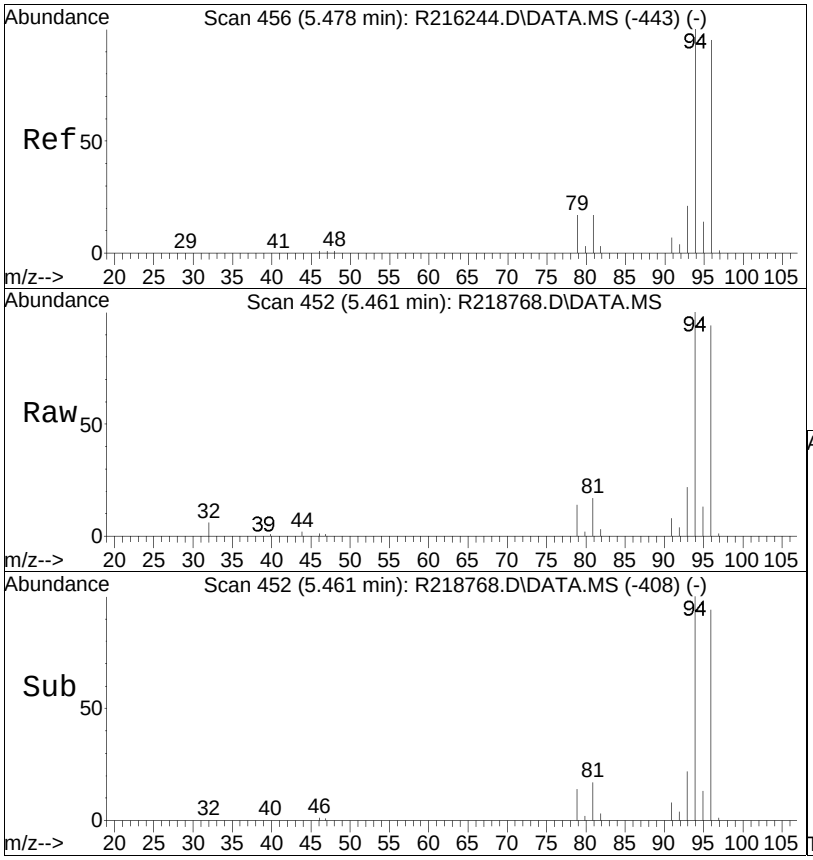


#9
vinyl chloride
Concen: 8.03 ppbV
RT: 4.871 min Scan# 332
Delta R.T. -0.016 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 62 Resp: 105483

Ion	Ratio	Lower	Upper
62	100		
64	30.4	25.0	37.6

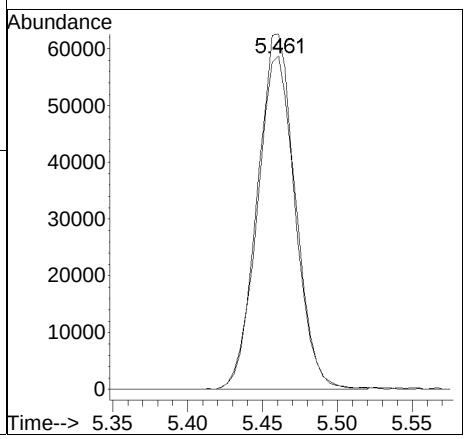


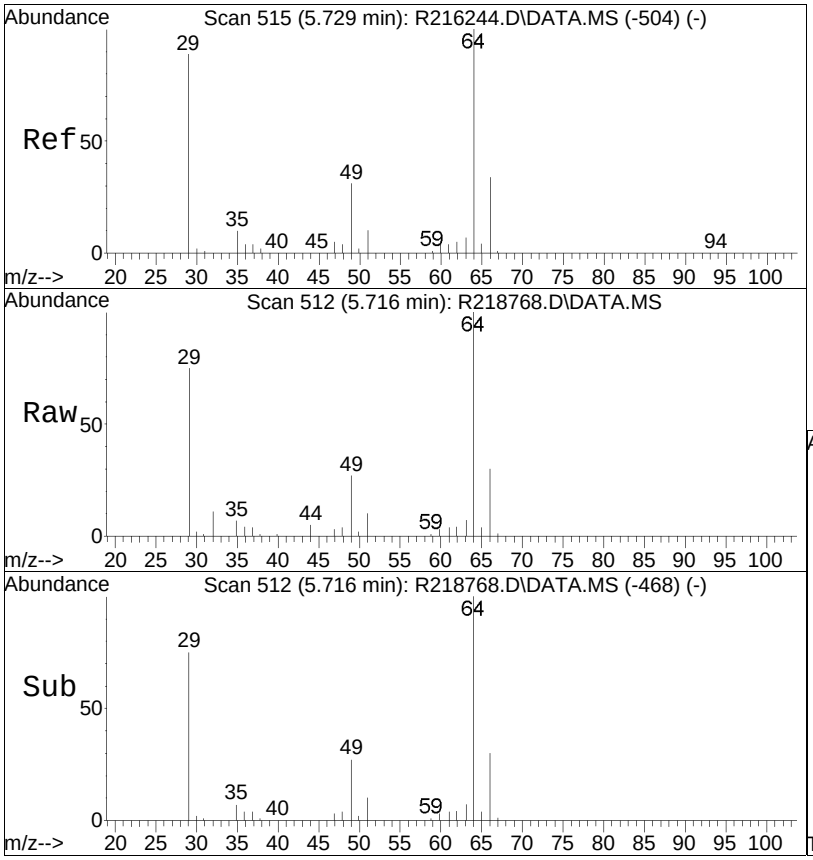


#13
bromomethane
Concen: 8.21 ppbV
RT: 5.461 min Scan# 452
Delta R.T. -0.013 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 94 Resp: 110539

Ion	Ratio	Lower	Upper
94	100		
96	93.9	73.9	110.9

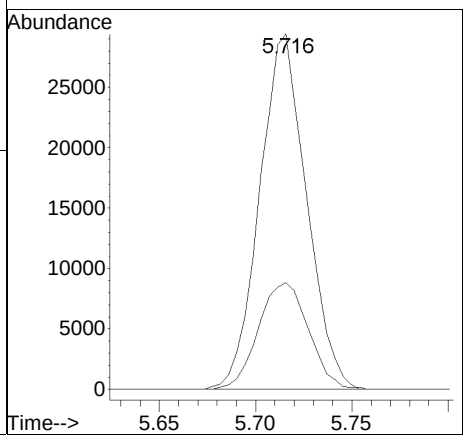


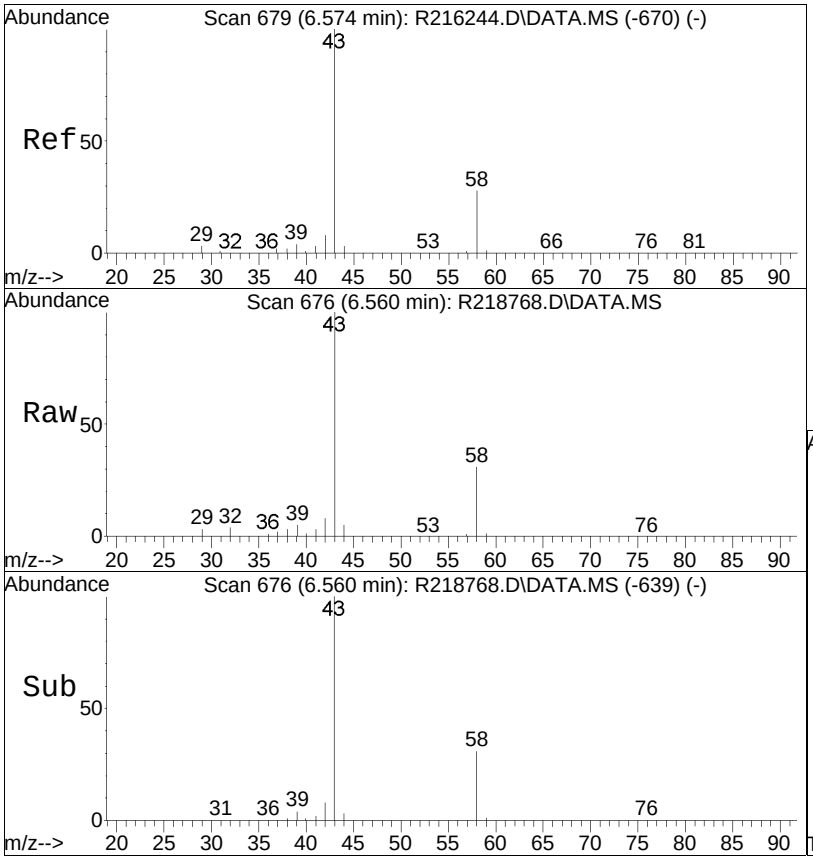


#14
chloroethane
Concen: 8.45 ppbV
RT: 5.716 min Scan# 512
Delta R.T. -0.013 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 64 Resp: 49702

Ion	Ratio	Lower	Upper
64	100		
66	30.0	26.2	39.4

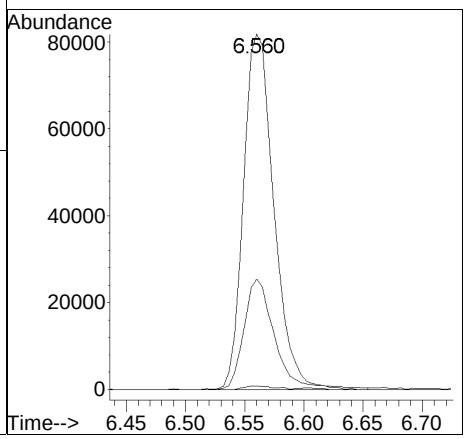


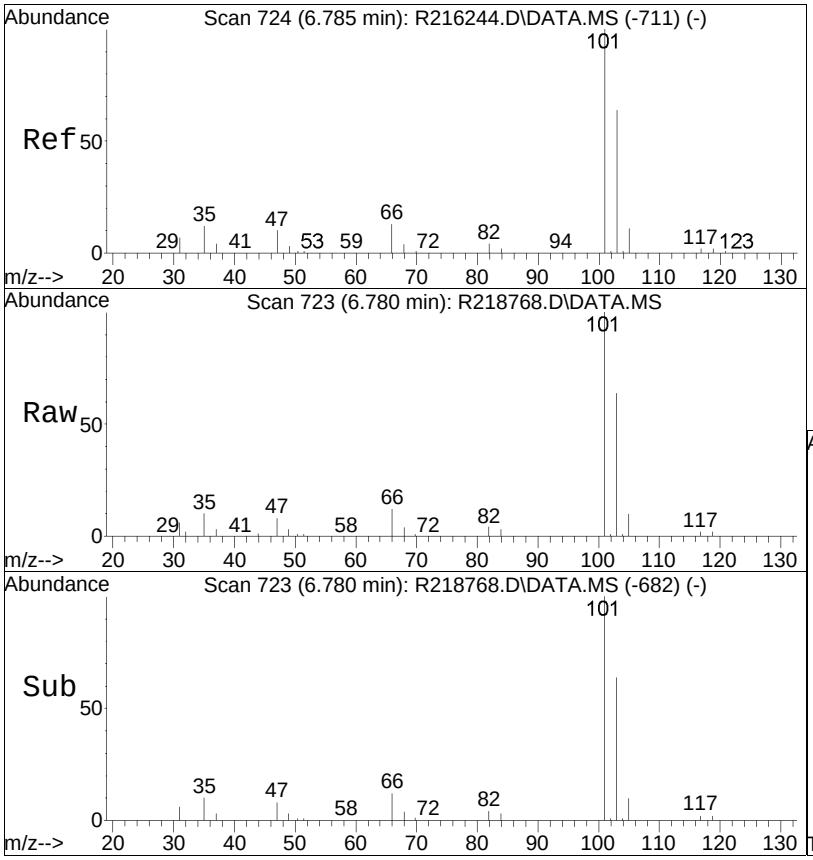


#19
acetone
Concen: 9.39 ppbV
RT: 6.560 min Scan# 676
Delta R.T. -0.014 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 43 Resp: 146628

Ion	Ratio	Lower	Upper
43	100		
58	31.1	22.2	33.2
57	0.9	0.9	1.3

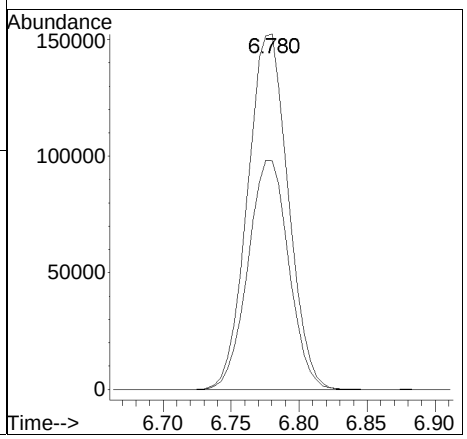


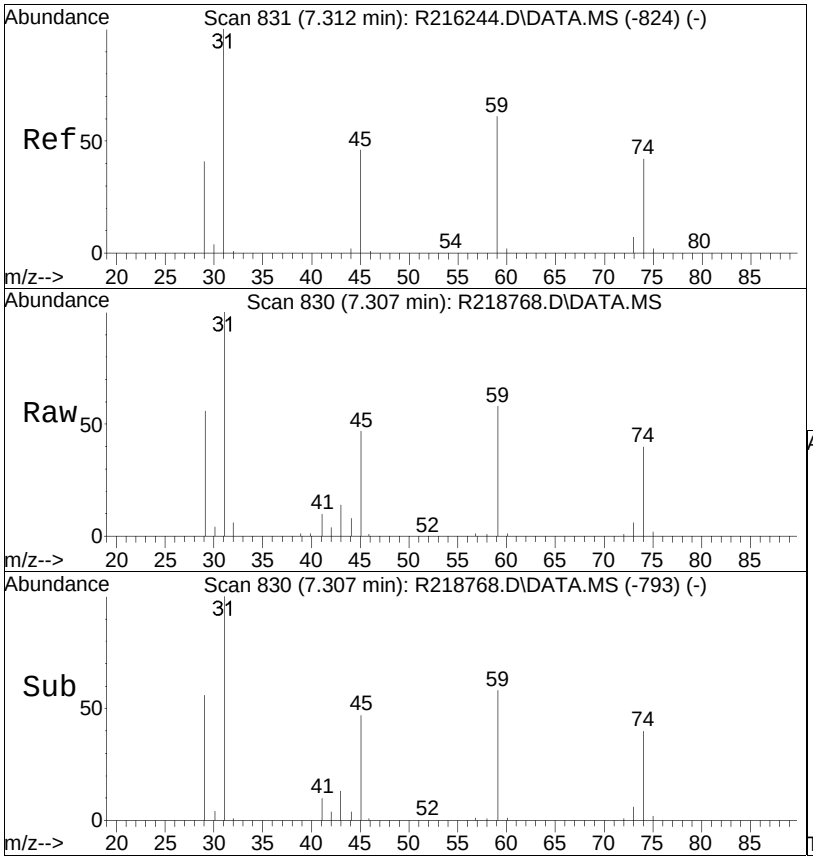


#21
trichlorofluoromethane
Concen: 8.29 ppbV
RT: 6.780 min Scan# 723
Delta R.T. -0.009 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:101 Resp: 316735

Ion	Ratio	Lower	Upper
101	100		
103	64.4	50.2	75.2

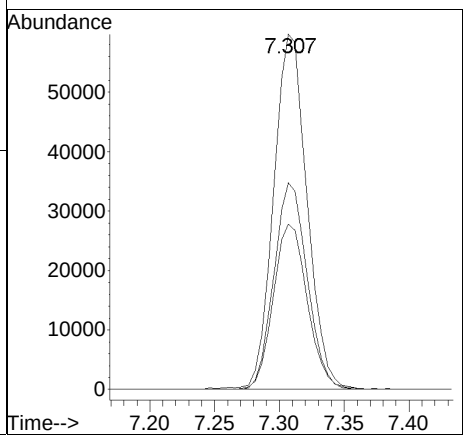


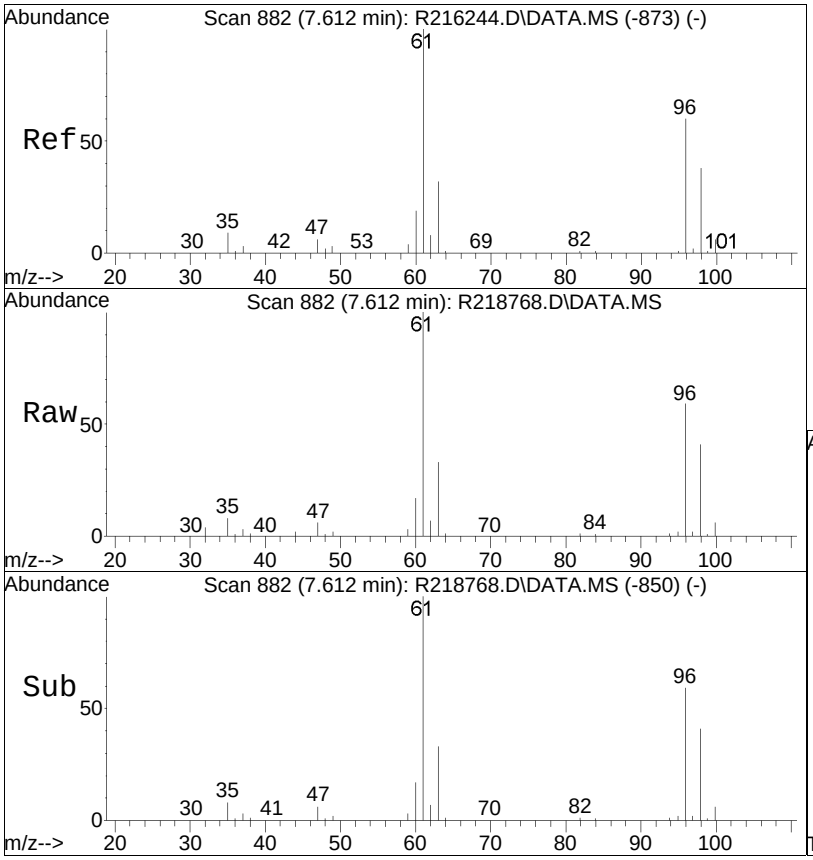


#25
ethyl ether
Concen: 8.22 ppbV
RT: 7.307 min Scan# 830
Delta R.T. -0.010 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 31 Resp: 107359

Ion	Ratio	Lower	Upper
31	100		
59	58.2	46.4	69.6
45	46.6	37.8	56.8

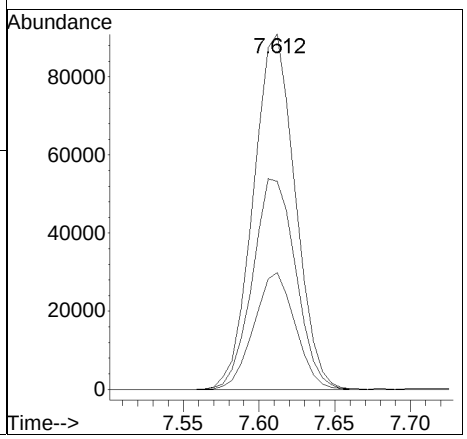


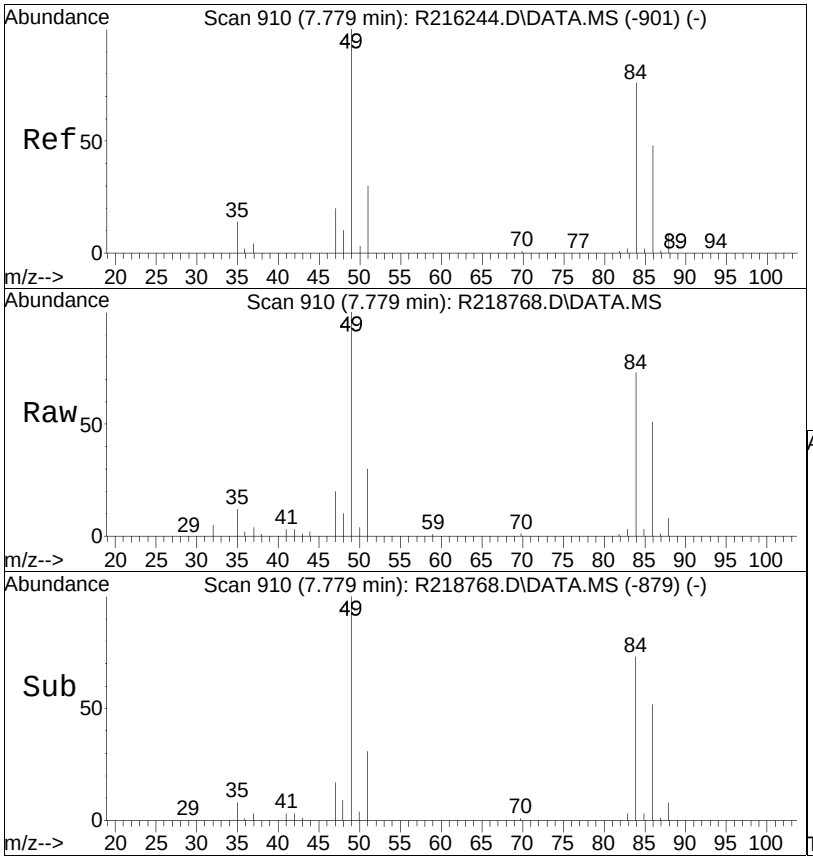


#26
1,1-dichloroethene
Concen: 8.27 ppbV
RT: 7.612 min Scan# 882
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 61 Resp: 175354

Ion	Ratio	Lower	Upper
61	100		
96	58.5	48.1	72.1
63	32.9	26.0	39.0

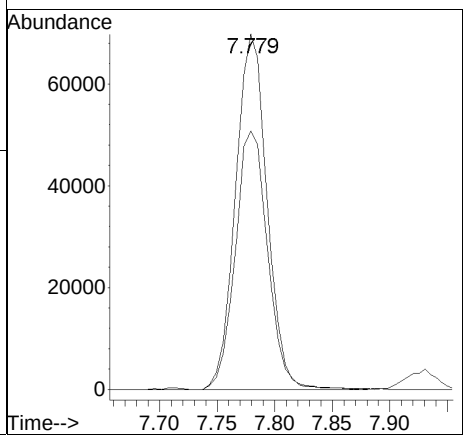


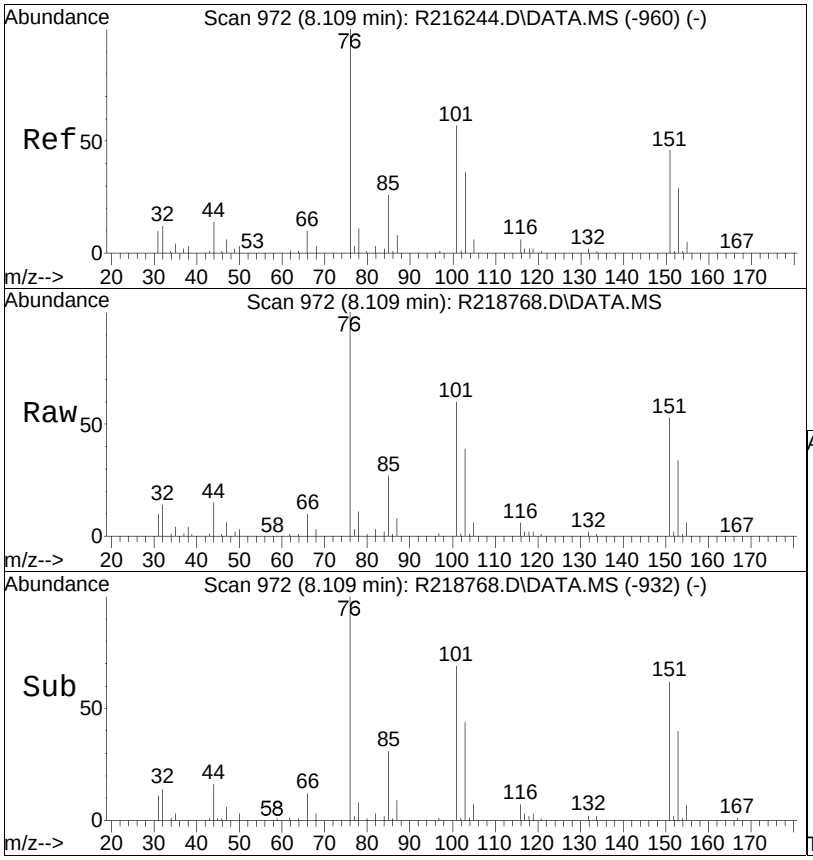


#28
methylene chloride
Concen: 8.42 ppbV
RT: 7.779 min Scan# 910
Delta R.T. -0.012 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 49 Resp: 133076

Ion	Ratio	Lower	Upper
49	100		
84	72.7	56.6	84.8

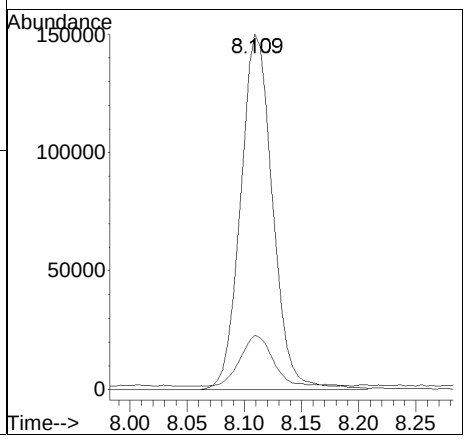


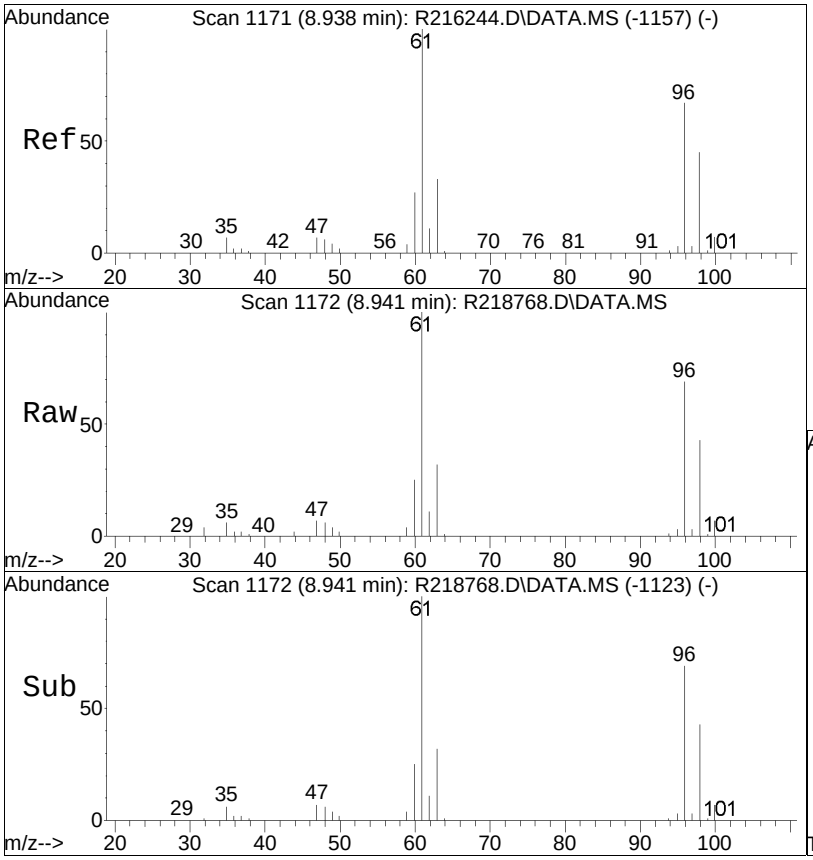


#30
carbon disulfide
Concen: 7.89 ppbV
RT: 8.109 min Scan# 972
Delta R.T. -0.009 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 76 Resp: 291779

Ion	Ratio	Lower	Upper
76	100		
44	15.3	12.2	18.4

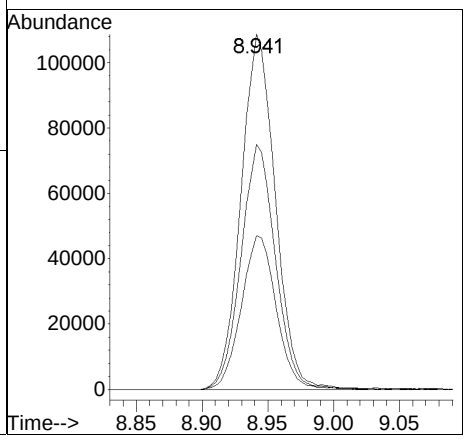


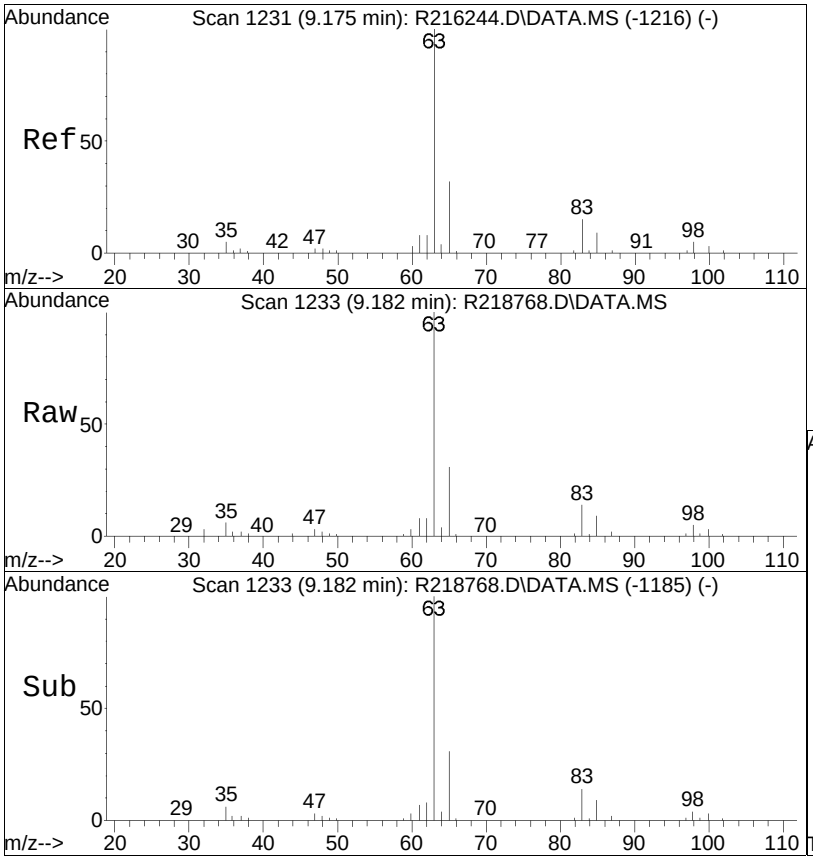


#32
trans-1,2-dichloroethene
Concen: 8.19 ppbV
RT: 8.941 min Scan# 1172
Delta R.T. -0.012 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 61 Resp: 209662

Ion	Ratio	Lower	Upper
61	100		
96	69.0	52.2	78.2
98	43.3	33.4	50.2

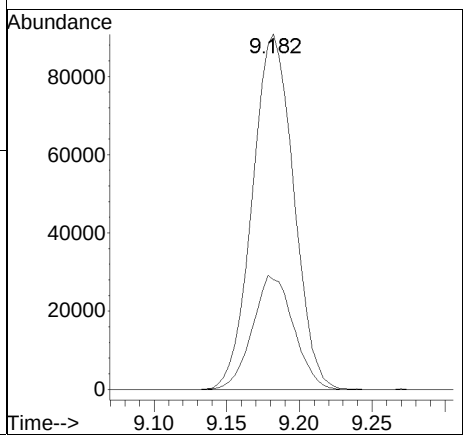


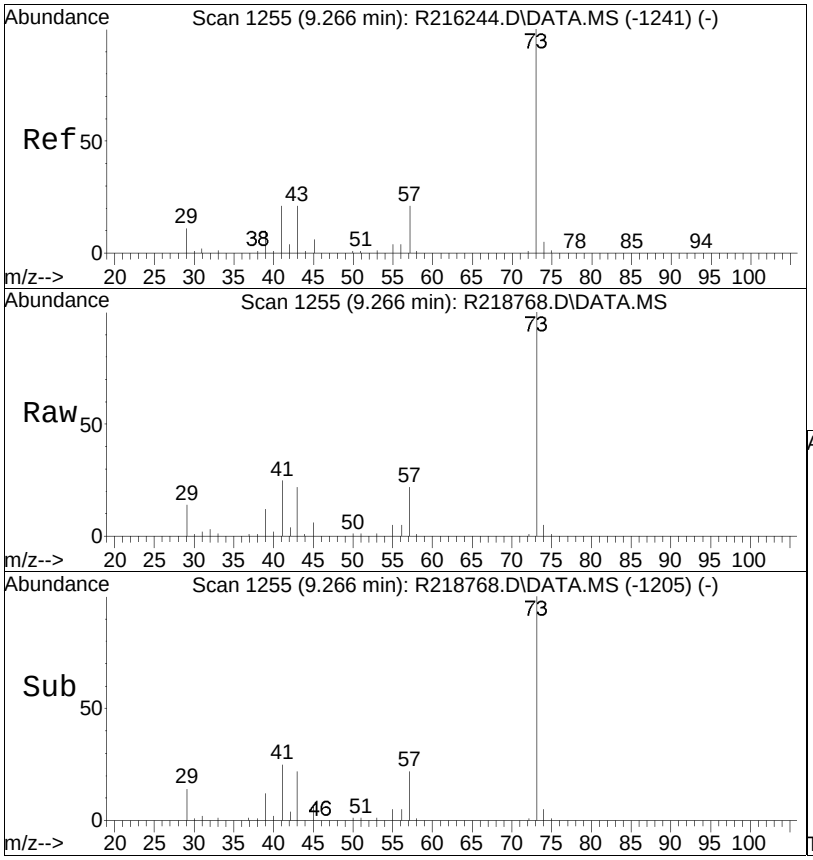


#33
1,1-dichloroethane
Concen: 7.81 ppbV
RT: 9.182 min Scan# 1233
Delta R.T. -0.008 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 63 Resp: 179020

Ion	Ratio	Lower	Upper
63	100		
65	30.9	25.8	38.6

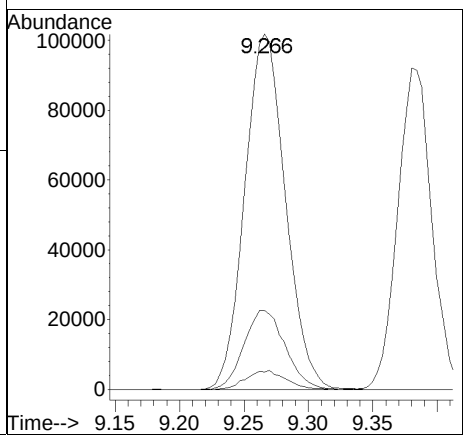


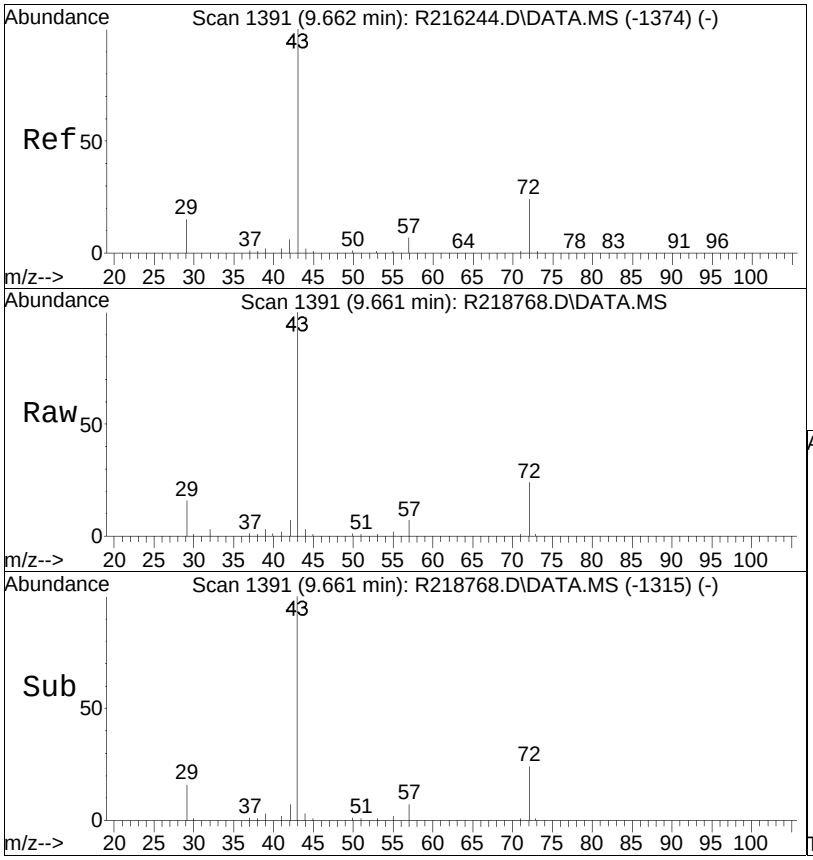


#34
MTBE
Concen: 8.31 ppbV
RT: 9.266 min Scan# 1255
Delta R.T. -0.008 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 73 Resp: 223194

Ion	Ratio	Lower	Upper
73	100		
55	4.9	4.3	6.5
43	22.2	17.9	26.9

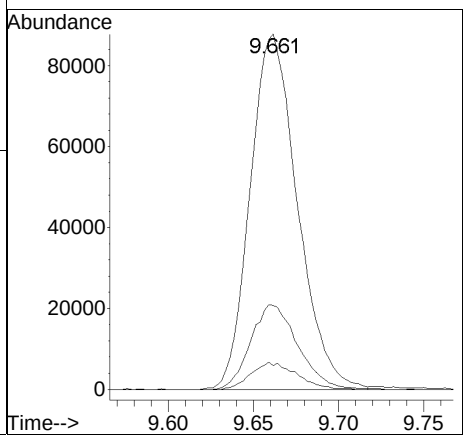


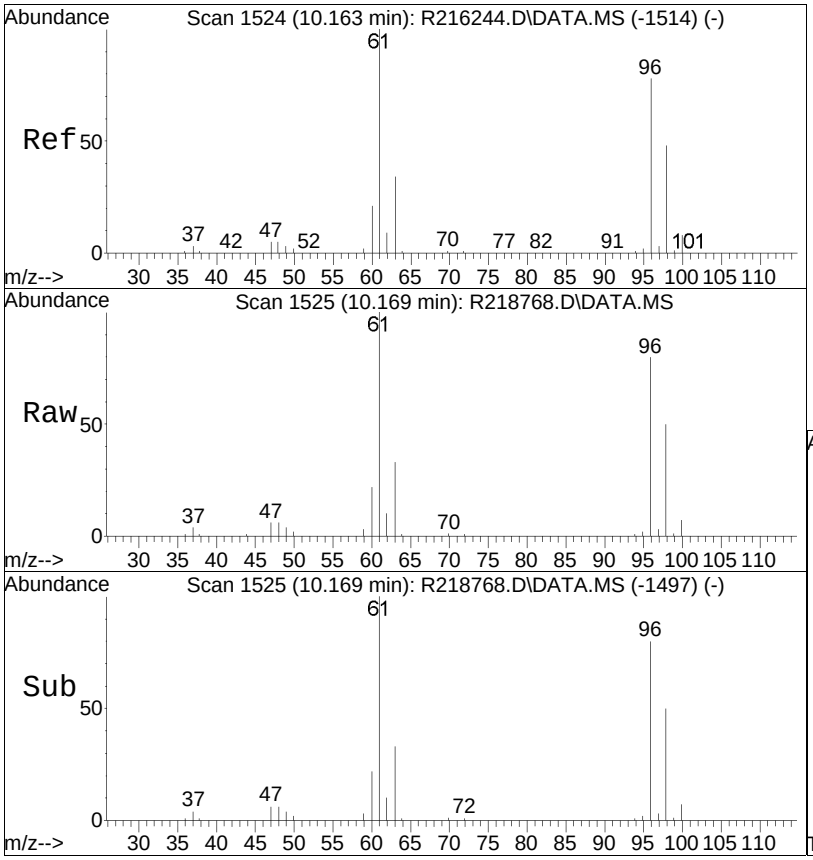


#36
2-butanone
Concen: 8.71 ppbV
RT: 9.661 min Scan# 1391
Delta R.T. -0.008 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 43 Resp: 169147

Ion	Ratio	Lower	Upper
43	100		
72	23.6	17.6	26.4
57	6.7	5.6	8.4

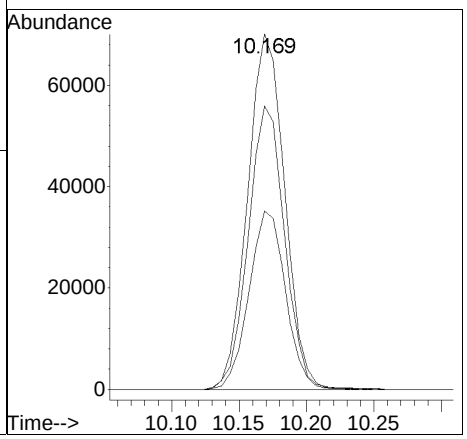


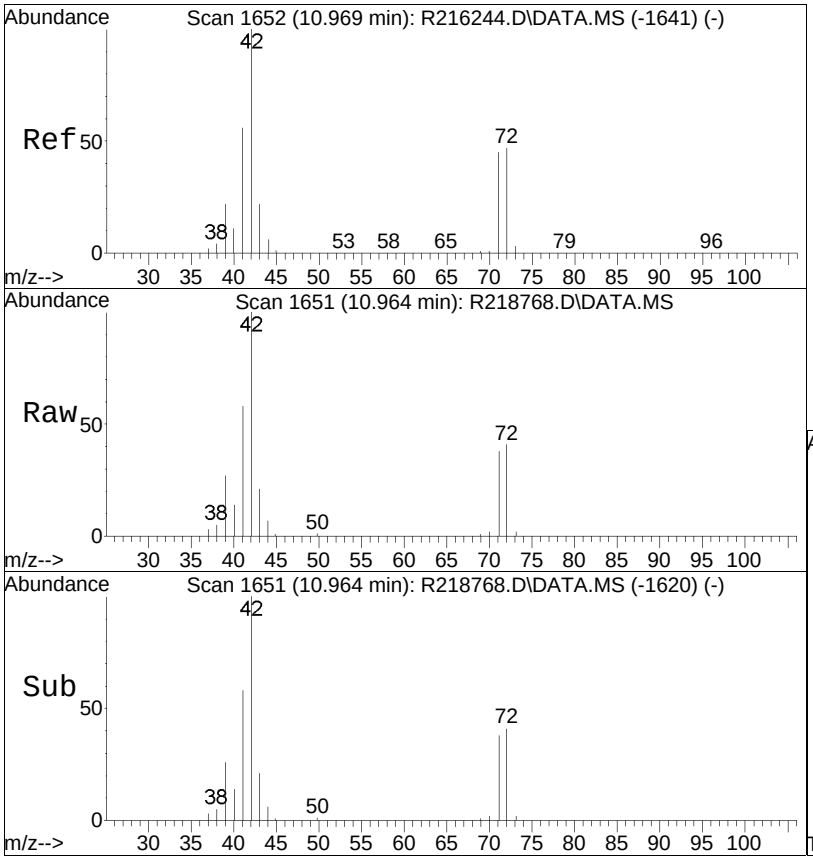


#37
cis-1,2-dichloroethene
Concen: 8.29 ppbV
RT: 10.169 min Scan# 1525
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 61 Resp: 134292

Ion	Ratio	Lower	Upper
61	100		
96	79.7	57.4	86.2
98	50.2	35.3	52.9

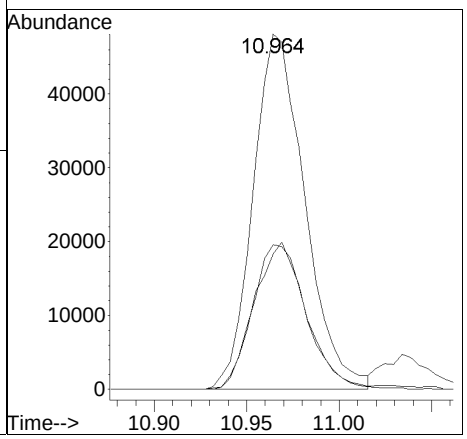


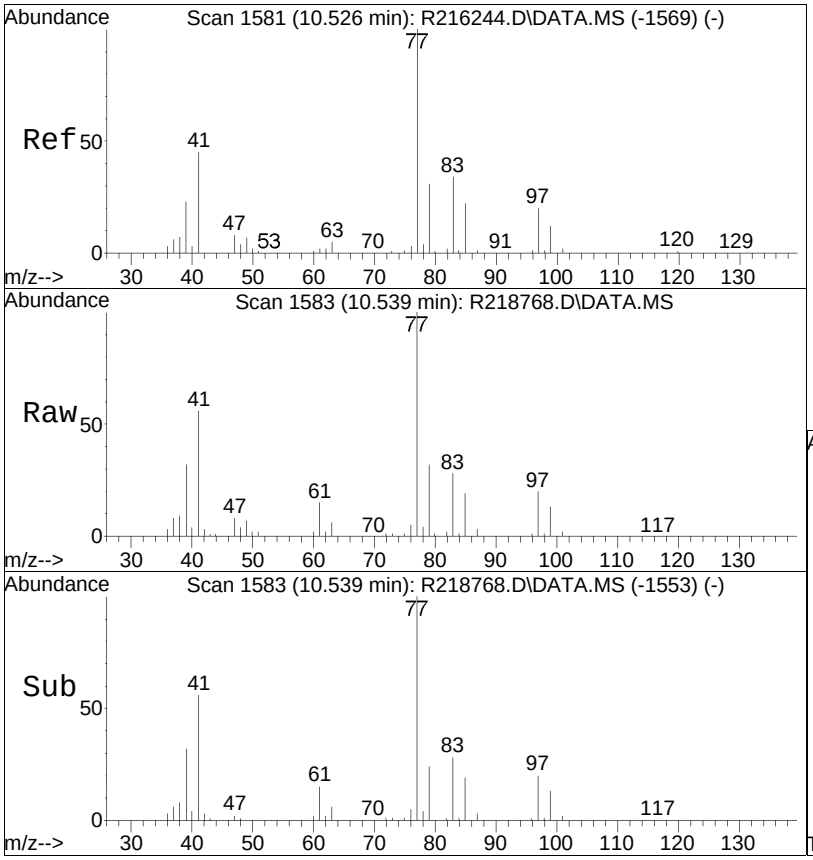


#40
Tetrahydrofuran
Concen: 9.63 ppbV
RT: 10.964 min Scan# 1651
Delta R.T. -0.009 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 42 Resp: 93667

Ion	Ratio	Lower	Upper
42	100		
71	38.1	31.9	47.9
72	40.7	32.6	48.8

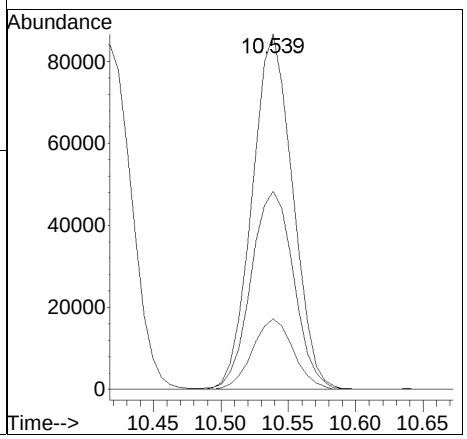


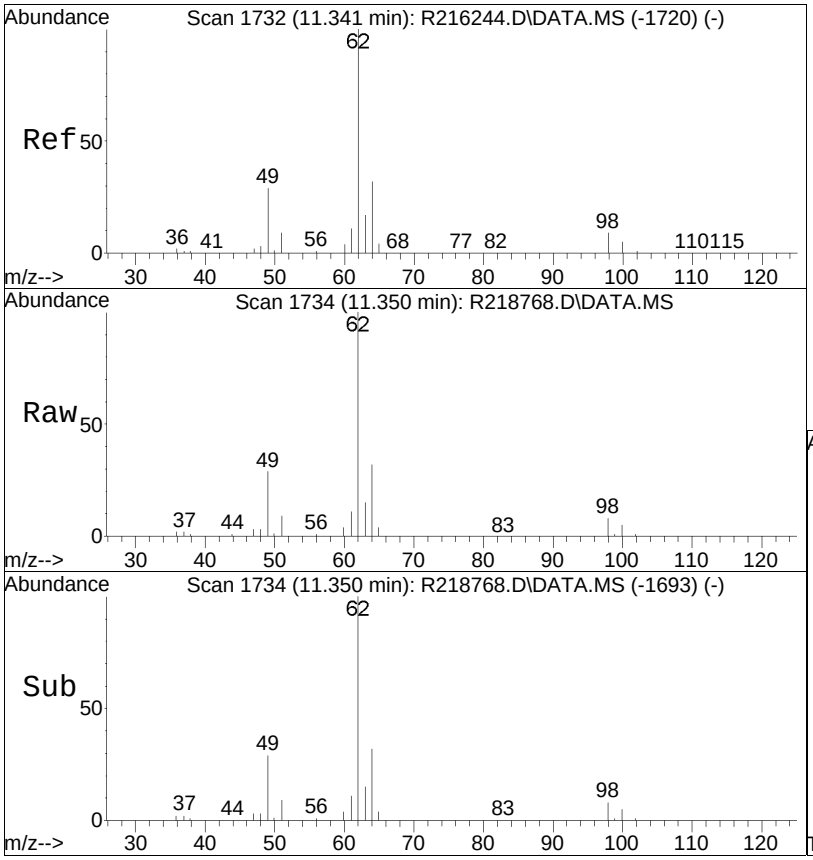


#41
2,2-dichloropropane
Concen: 8.36 ppbV
RT: 10.539 min Scan# 1583
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 77 Resp: 181402

Ion	Ratio	Lower	Upper
77	100		
41	55.7	48.1	72.1
97	19.8	15.7	23.5

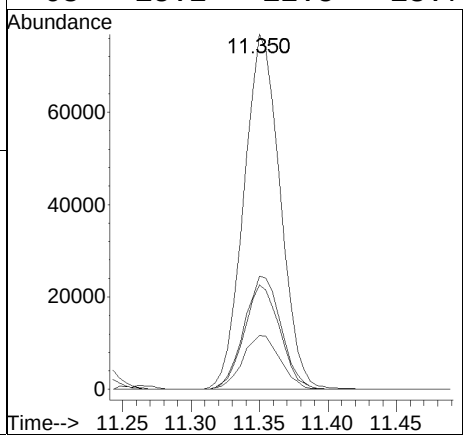


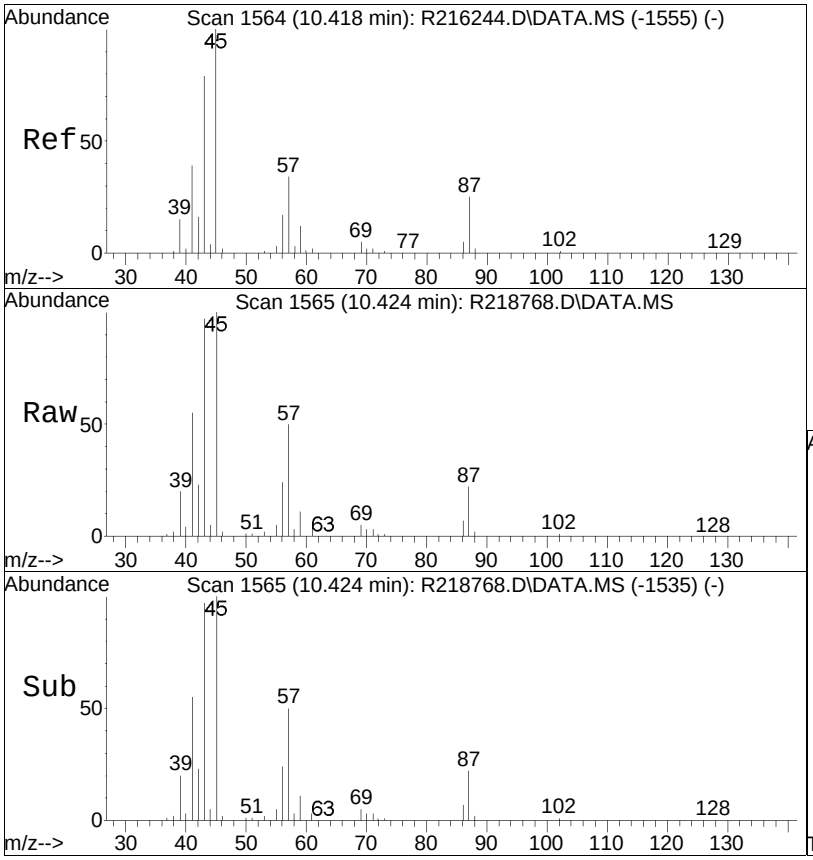


#42
1,2-dichloroethane
Concen: 9.08 ppbV
RT: 11.350 min Scan# 1734
Delta R.T. -0.009 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 62 Resp: 141493

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.4	36.6
49	29.4	23.3	34.9
63	15.2	12.5	18.7

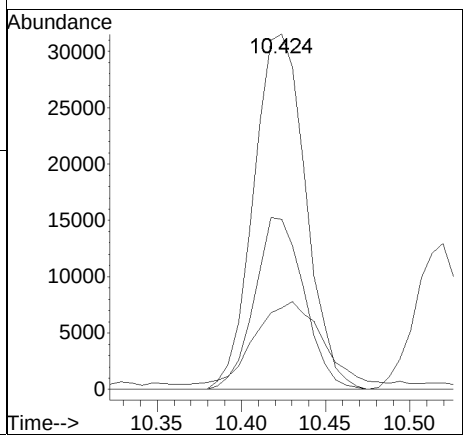


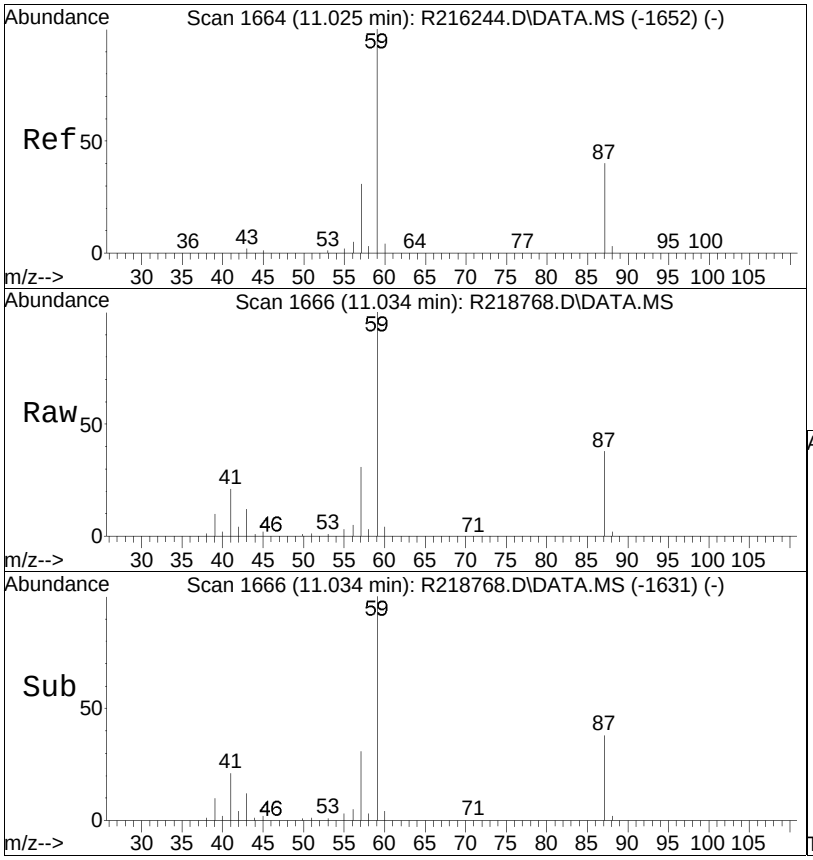


#45
diisopropyl ether
Concen: 8.68 ppbV
RT: 10.424 min Scan# 1565
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 87 Resp: 67691

Ion	Ratio	Lower	Upper
87	100		
59	47.8	40.7	61.1
44	23.0	30.2	45.4#

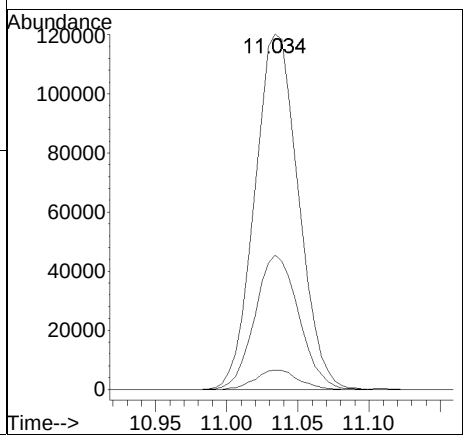


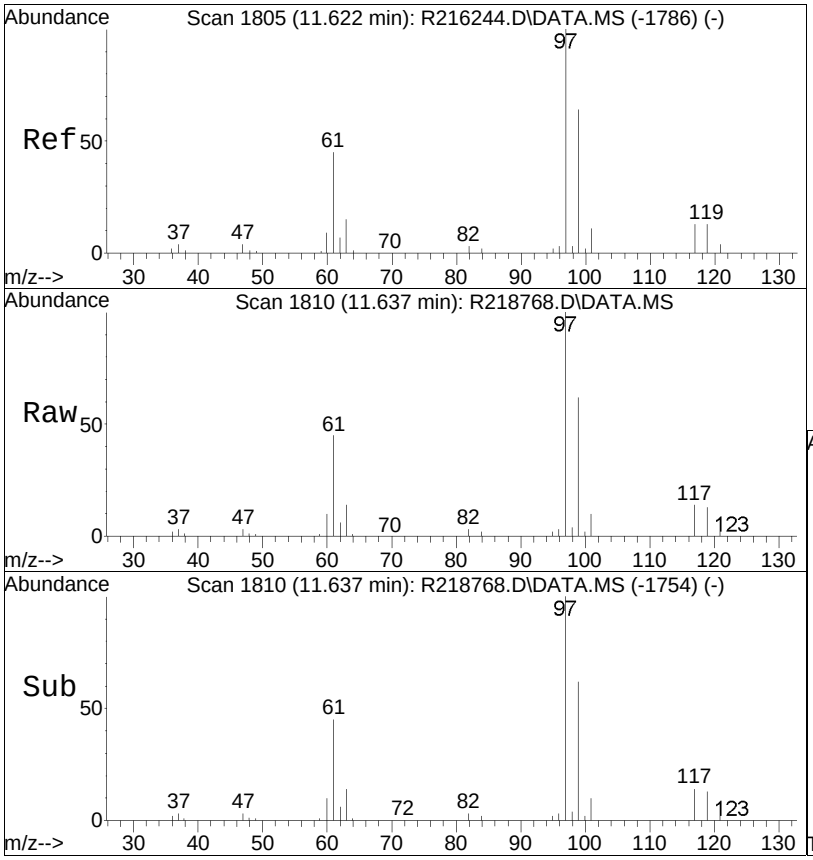


#46
tert-butyl ethyl ether
Concen: 8.78 ppbV
RT: 11.034 min Scan# 1666
Delta R.T. -0.009 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 59 Resp: 257004

Ion	Ratio	Lower	Upper
59	100		
87	37.8	31.1	46.7
56	5.4	4.1	6.1

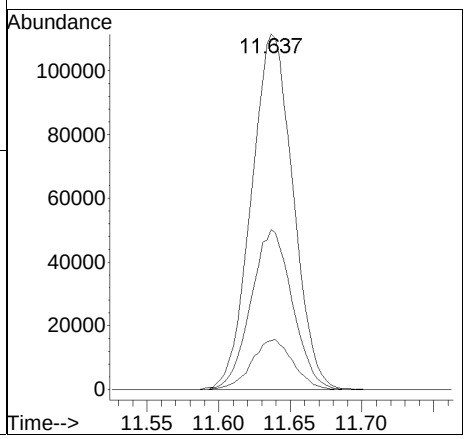


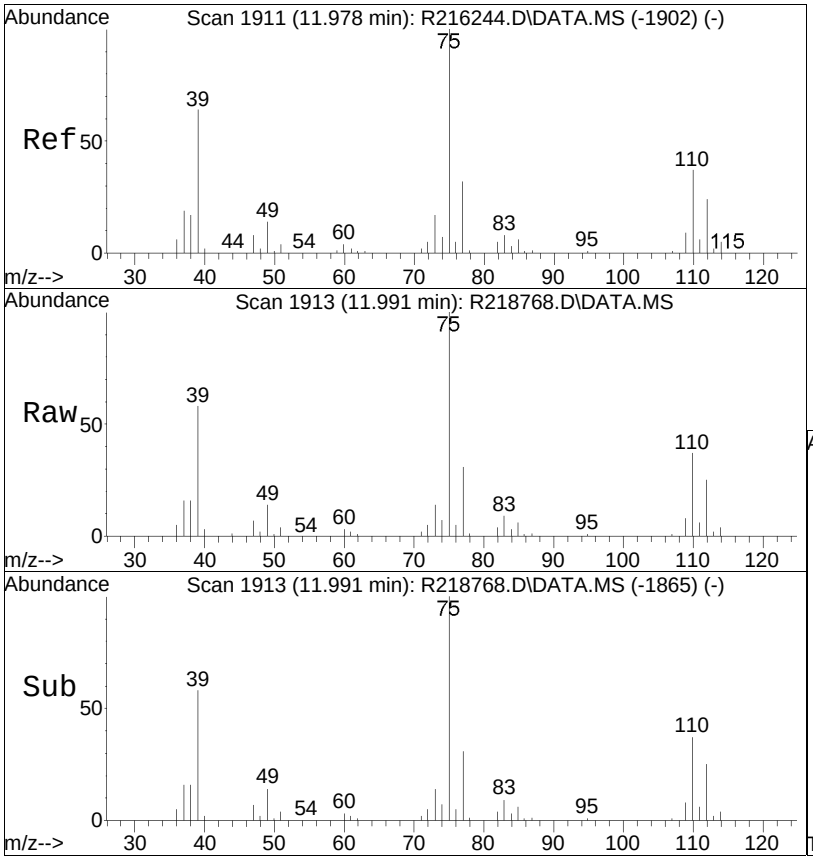


#48
1,1,1-trichloroethane
Concen: 8.34 ppbV
RT: 11.637 min Scan# 1810
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 97 Resp: 225293

Ion	Ratio	Lower	Upper
97	100		
61	45.0	34.6	51.8
117	13.8	10.8	16.2

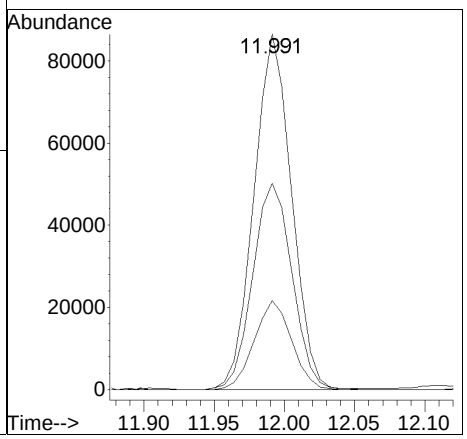


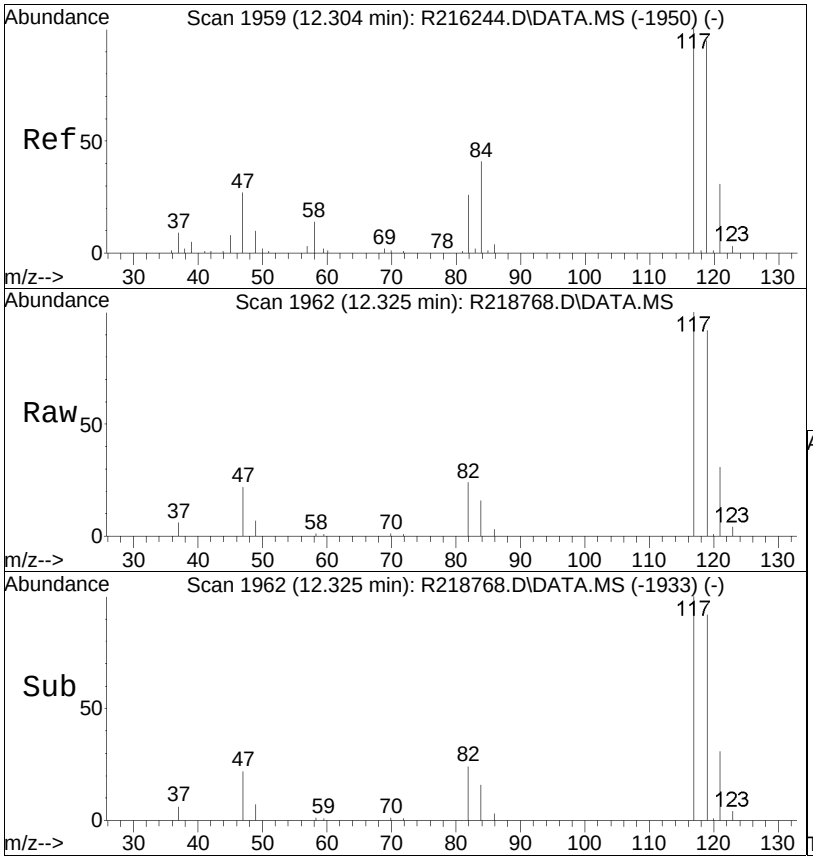


#49
1,1-dichloropropene
Concen: 8.19 ppbV
RT: 11.991 min Scan# 1913
Delta R.T. -0.007 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 75 Resp: 160819

Ion	Ratio	Lower	Upper
75	100		
112	25.0	17.8	26.8
39	58.0	48.6	73.0

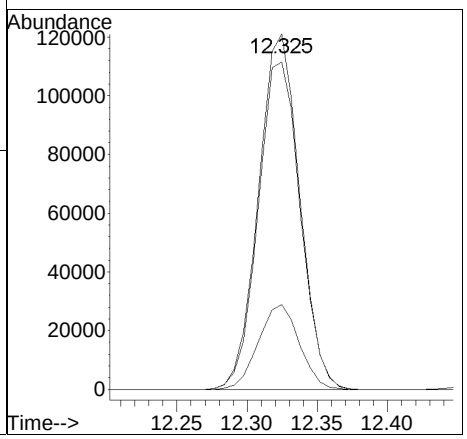


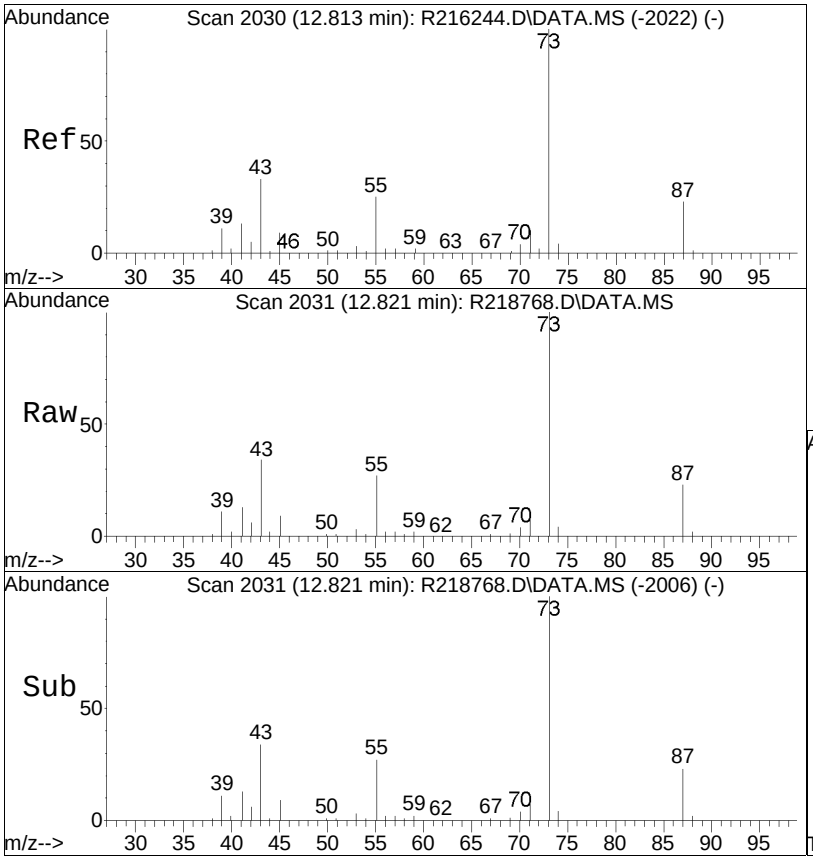


#52
carbon tetrachloride
Concen: 8.26 ppbV
RT: 12.325 min Scan# 1962
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:117 Resp: 246324

Ion	Ratio	Lower	Upper
117	100		
119	92.1	76.8	115.2
82	23.8	19.4	29.0

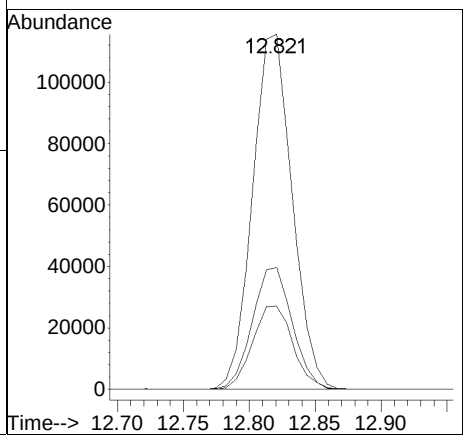


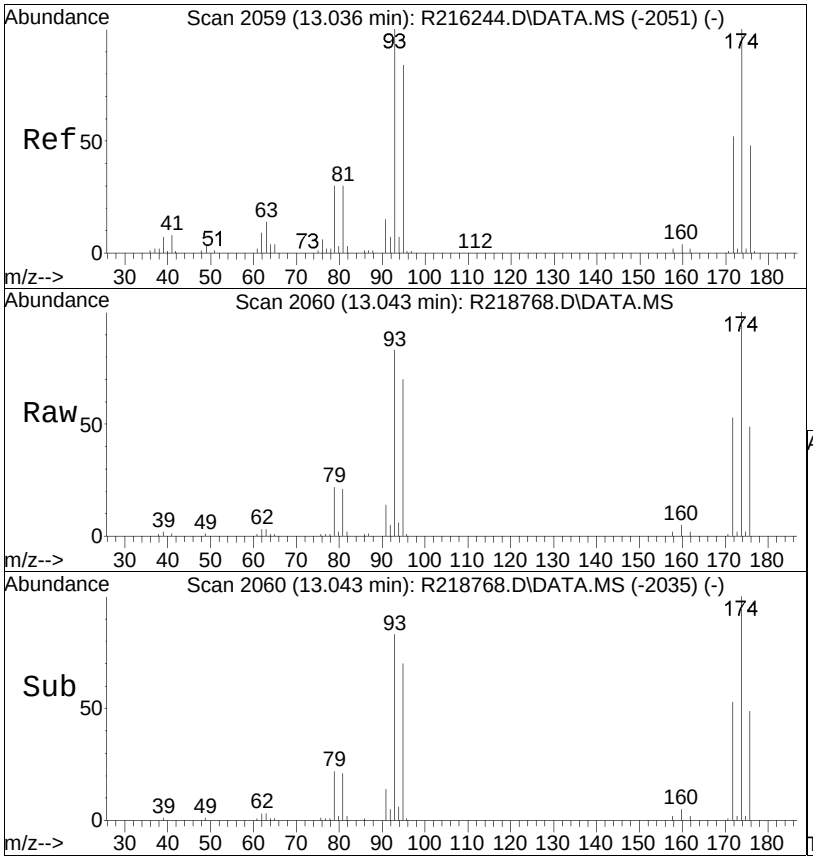


#54
tert-amyl methyl ether
Concen: 9.00 ppbV
RT: 12.821 min Scan# 2031
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 73 Resp: 241881

Ion	Ratio	Lower	Upper
73	100		
43	34.3	30.5	45.7
87	23.4	19.8	29.6

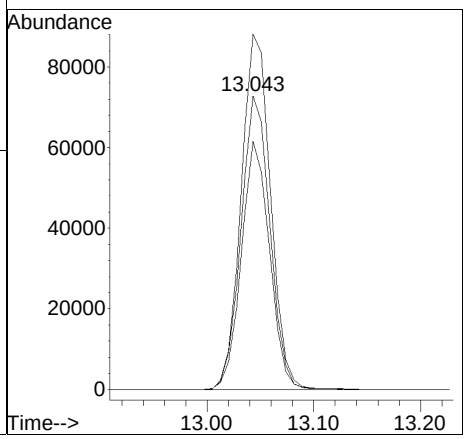


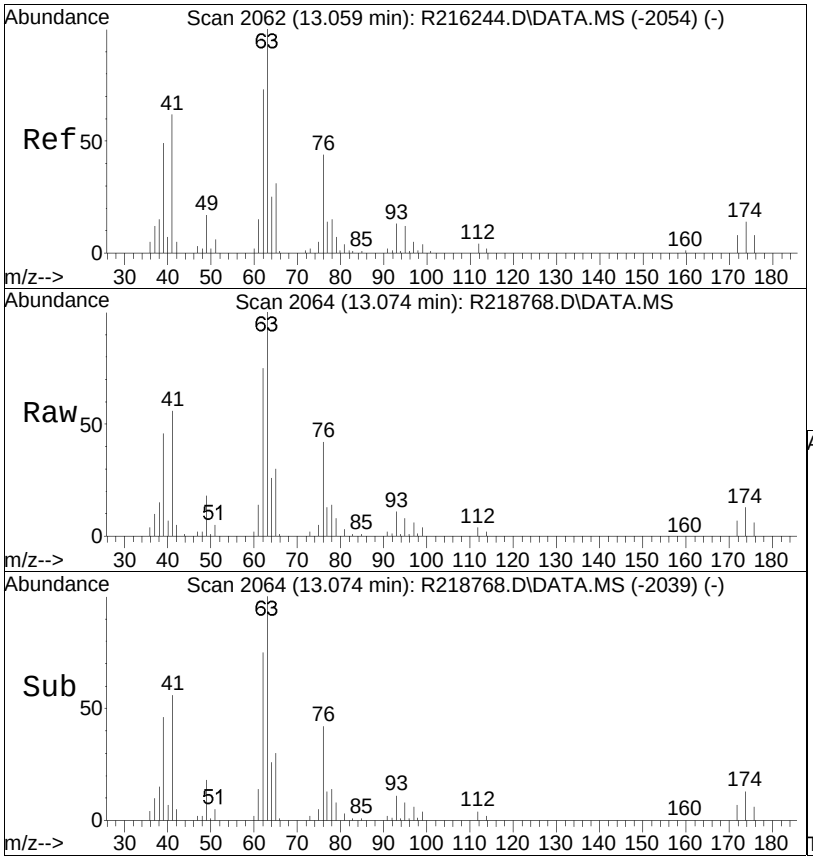


#55
dibromomethane
Concen: 8.03 ppbV
RT: 13.043 min Scan# 2060
Delta R.T. -0.008 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 93 Resp: 137325

Ion	Ratio	Lower	Upper
93	100		
174	121.1	79.0	118.4#
95	84.5	68.4	102.6

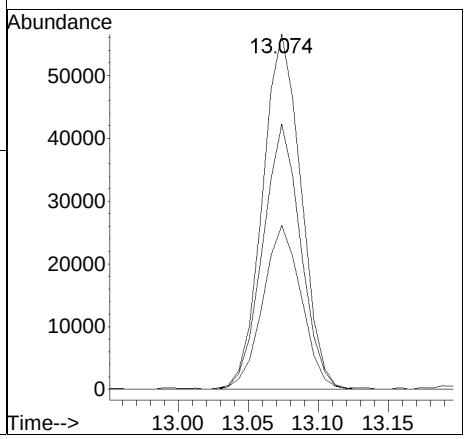


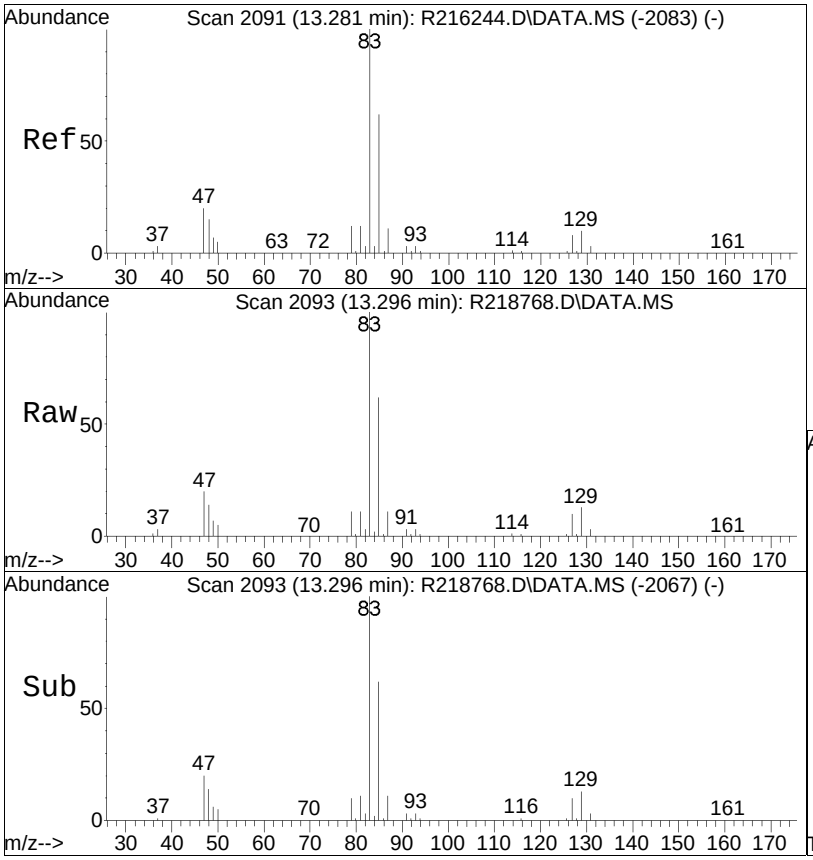


#56
1,2-dichloropropane
Concen: 8.76 ppbV
RT: 13.074 min Scan# 2064
Delta R.T. -0.008 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 63 Resp: 108348

Ion	Ratio	Lower	Upper
63	100		
62	74.6	57.4	86.2
39	46.2	35.2	52.8

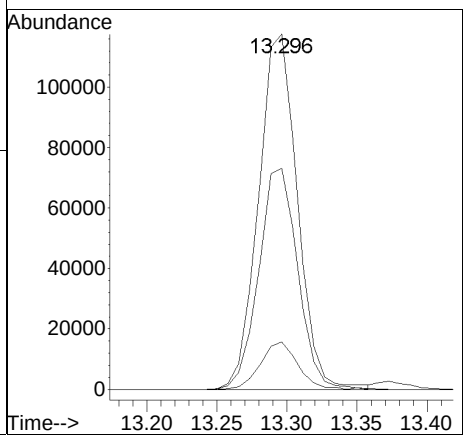


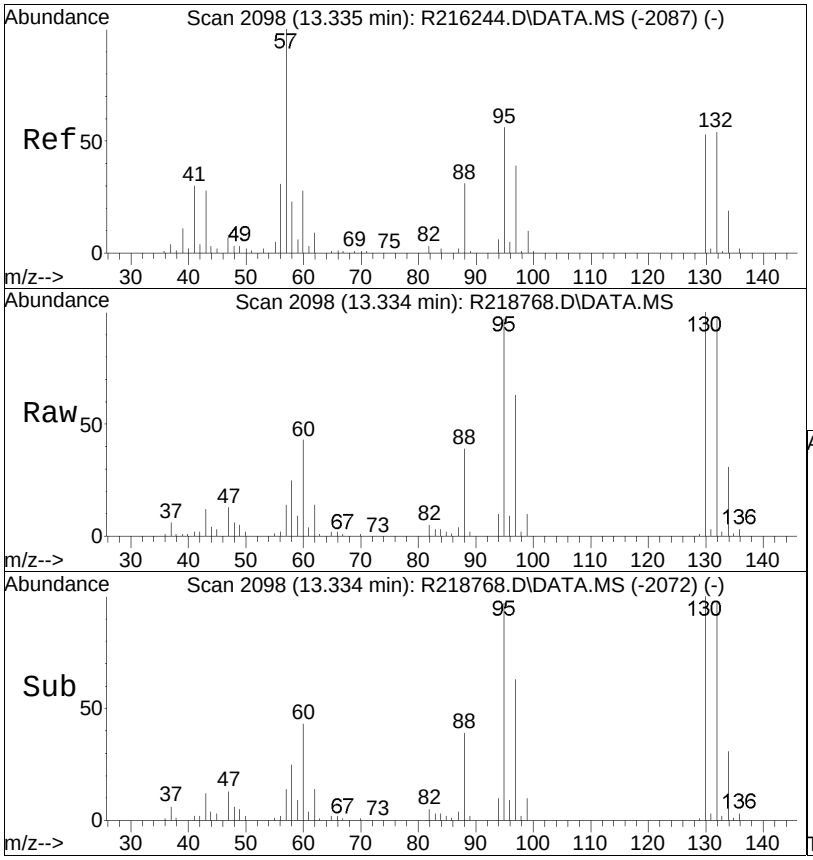


#57
bromodichloromethane
Concen: 8.31 ppbV
RT: 13.296 min Scan# 2093
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 83 Resp: 226724

Ion	Ratio	Lower	Upper
83	100		
85	62.2	51.7	77.5
129	13.4	9.2	13.8

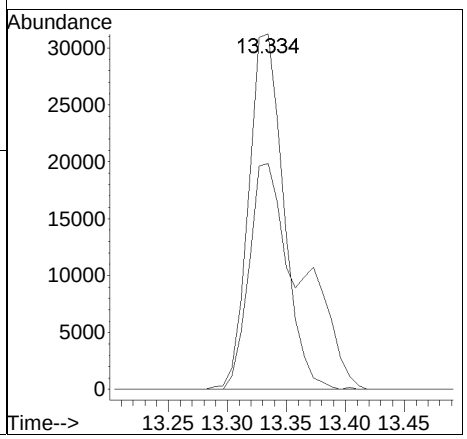


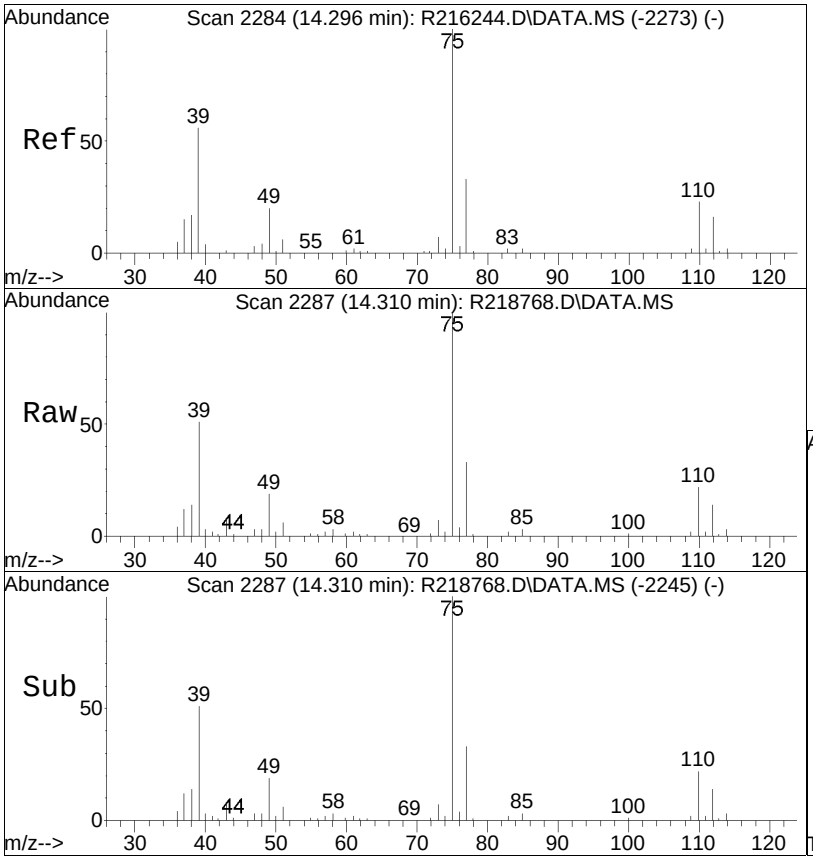


#58
1,4-dioxane
Concen: 9.82 ppbV
RT: 13.334 min Scan# 2098
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 88 Resp: 64357

Ion	Ratio	Lower	Upper
88	100		
58	63.6	66.6	99.8#

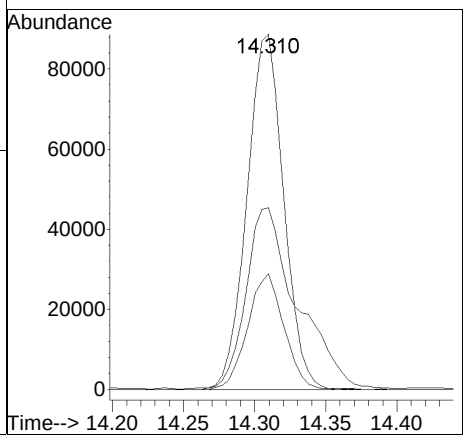


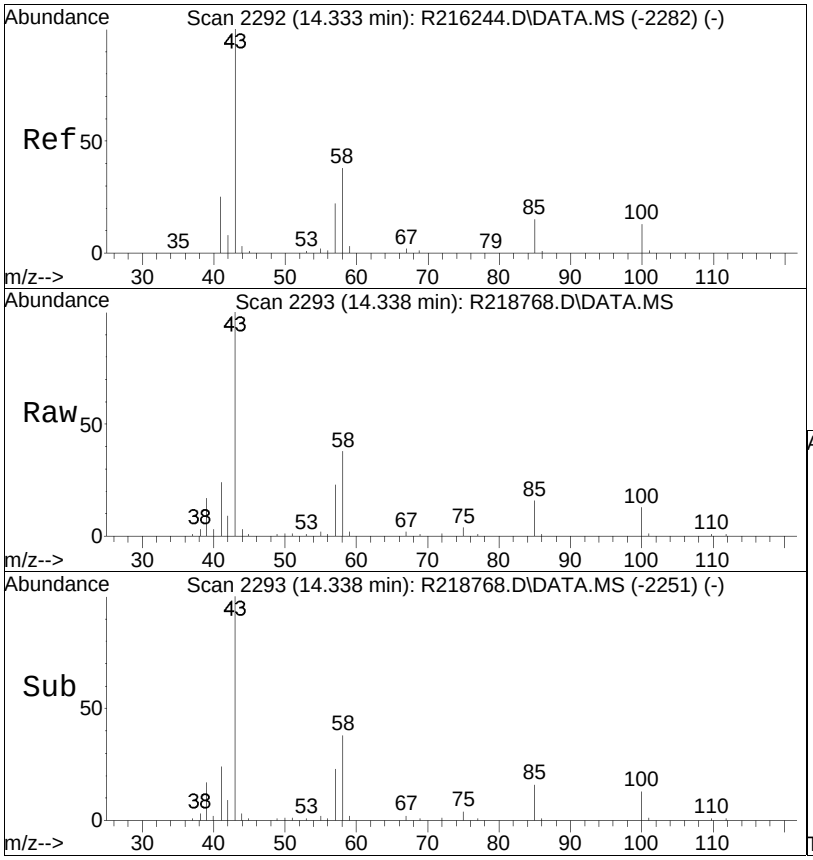


#63
cis-1,3-dichloropropene
Concen: 9.00 ppbV
RT: 14.310 min Scan# 2287
Delta R.T. -0.005 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 75 Resp: 159024

Ion	Ratio	Lower	Upper
75	100		
39	51.2	42.0	63.0
77	32.5	24.0	36.0

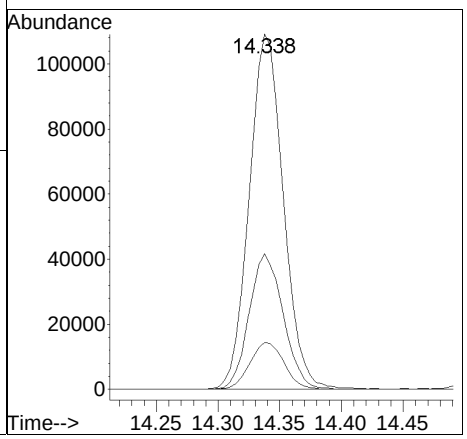


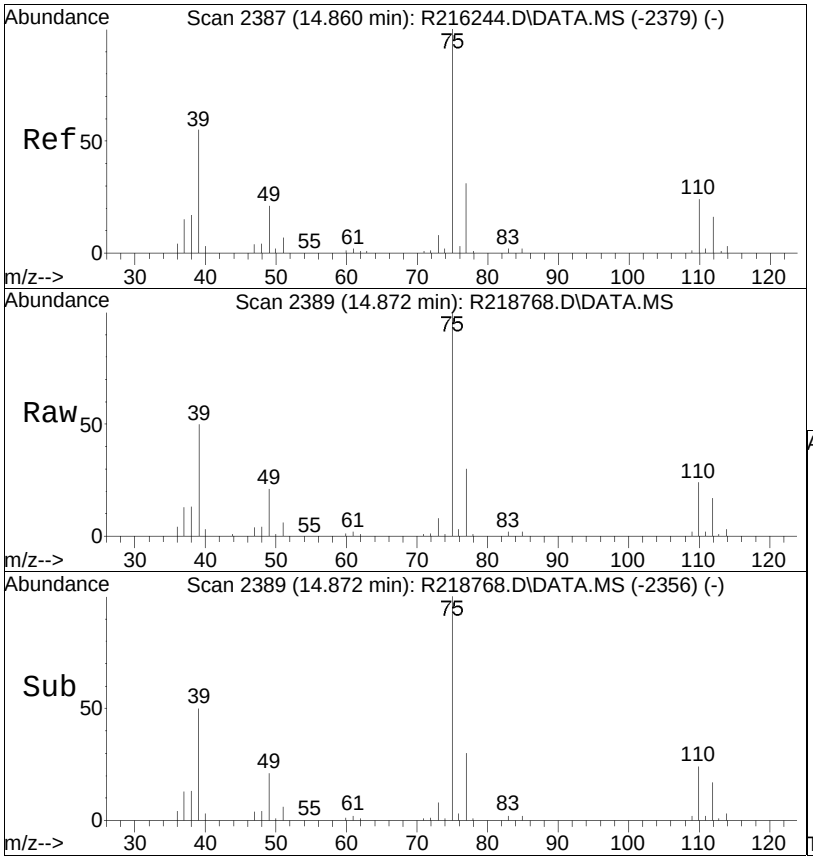


#64
4-methyl-2-pentanone
Concen: 9.56 ppbV
RT: 14.338 min Scan# 2293
Delta R.T. -0.005 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 43 Resp: 210541

Ion	Ratio	Lower	Upper
43	100		
58	38.2	29.0	43.4
100	13.2	9.2	13.8

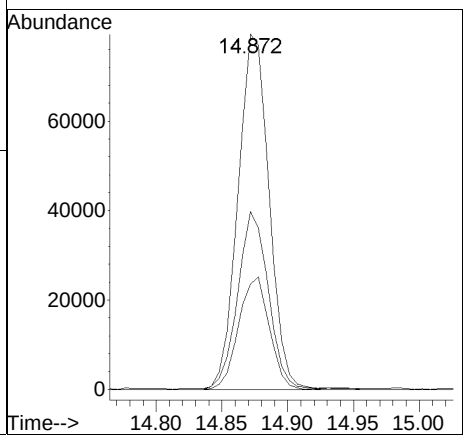


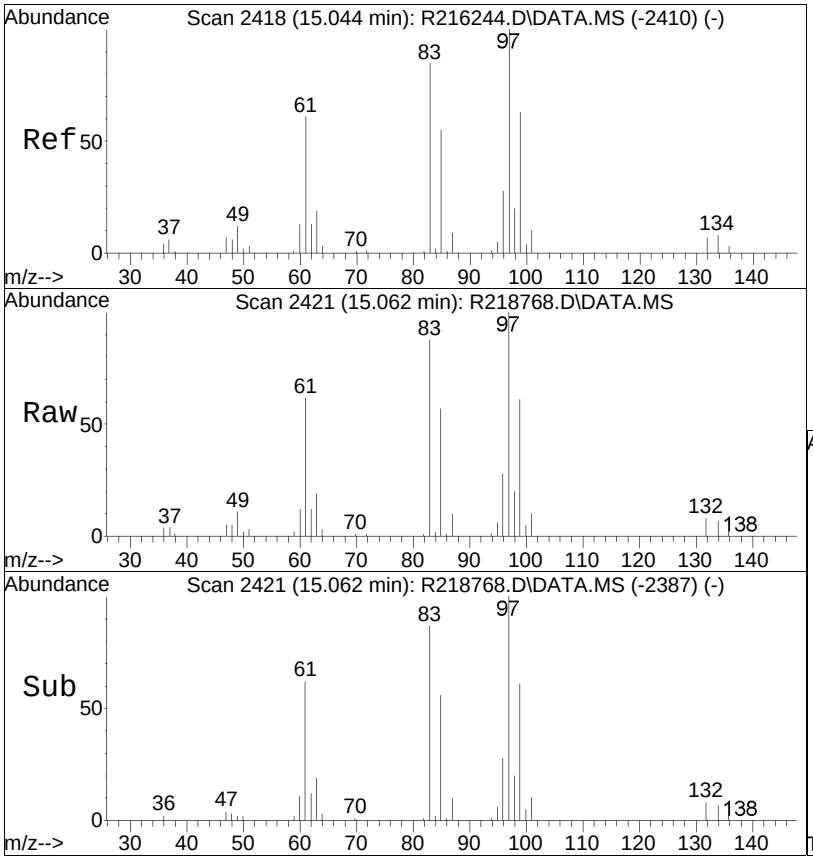


#66
trans-1,3-dichloropropene
Concen: 7.66 ppbV
RT: 14.872 min Scan# 2389
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 75 Resp: 130614

Ion	Ratio	Lower	Upper
75	100		
77	29.6	25.4	38.0
39	50.0	39.3	58.9

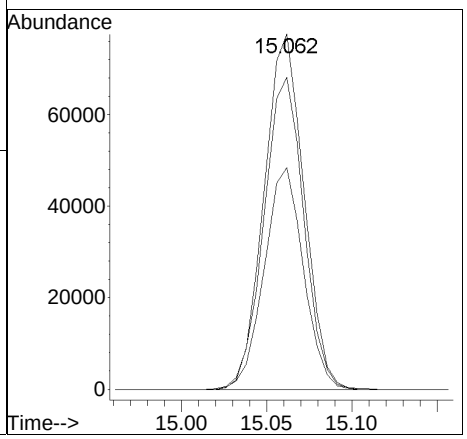


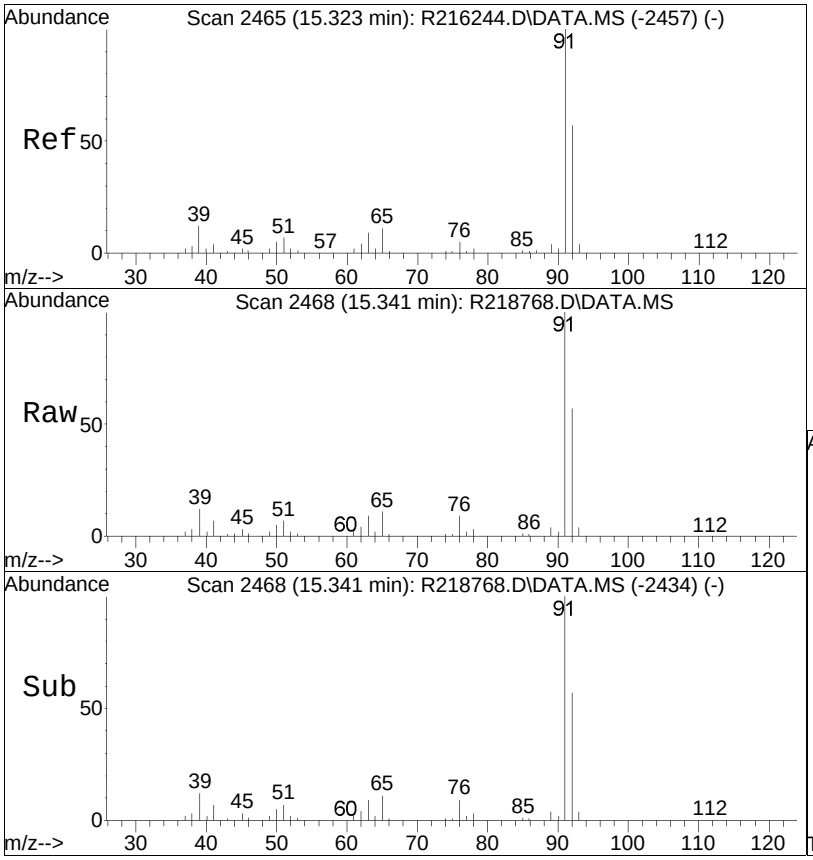


#67
1,1,2-trichloroethane
Concen: 9.21 ppbV
RT: 15.062 min Scan# 2421
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 97 Resp: 126758

Ion	Ratio	Lower	Upper
97	100		
83	87.8	68.2	102.4
61	62.4	46.1	69.1

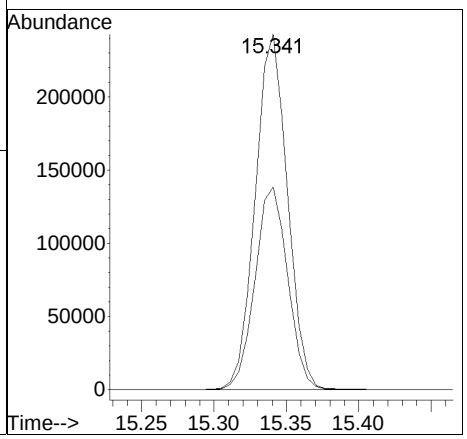


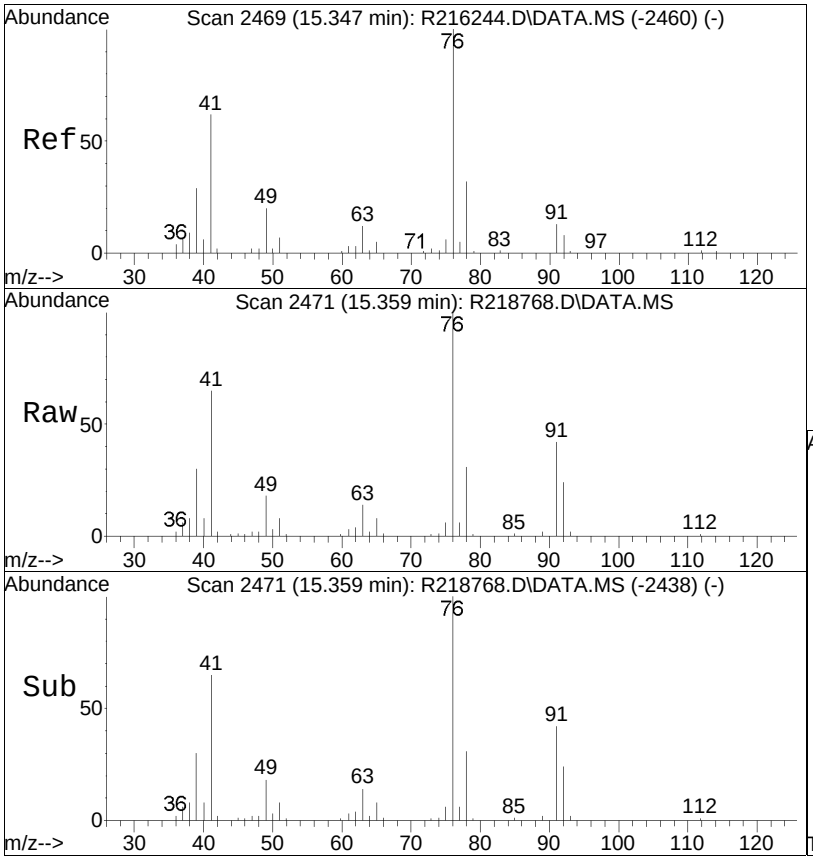


#69
toluene
Concen: 10.22 ppbV
RT: 15.341 min Scan# 2468
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 91 Resp: 374629

Ion	Ratio	Lower	Upper
91	100		
92	57.0	47.0	70.4

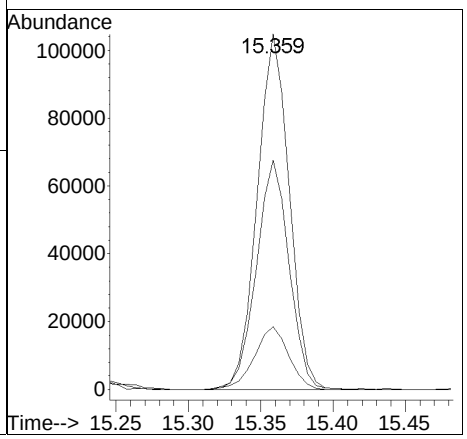


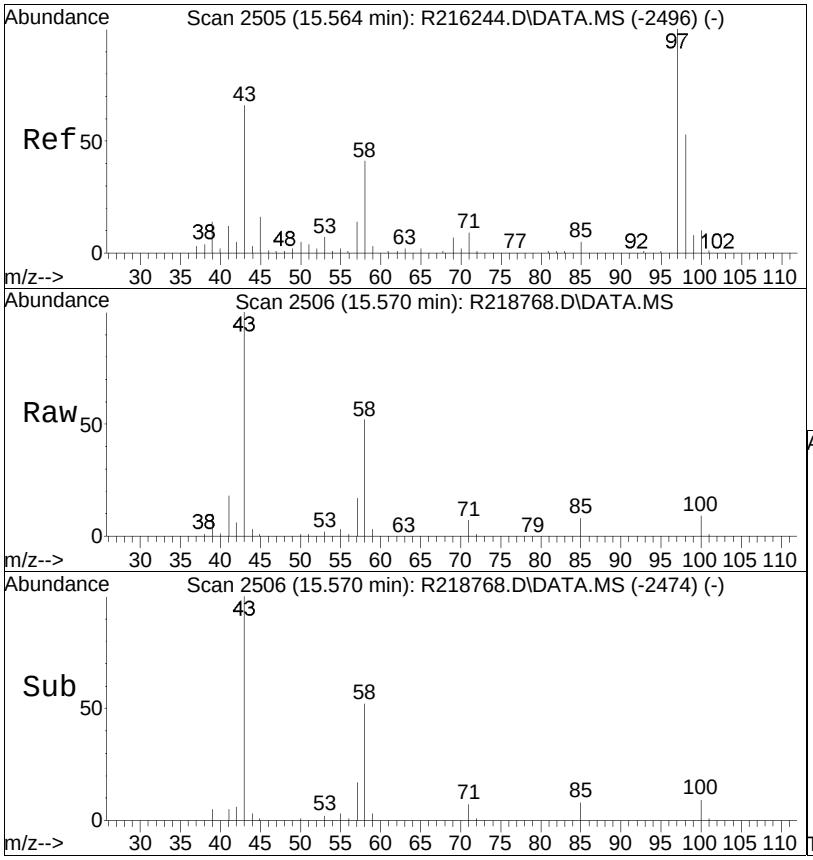


#72
1,3-dichloropropane
Concen: 9.79 ppbV
RT: 15.359 min Scan# 2471
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 76 Resp: 161151

Ion	Ratio	Lower	Upper
76	100		
41	64.5	55.0	82.4
49	17.6	13.4	20.2

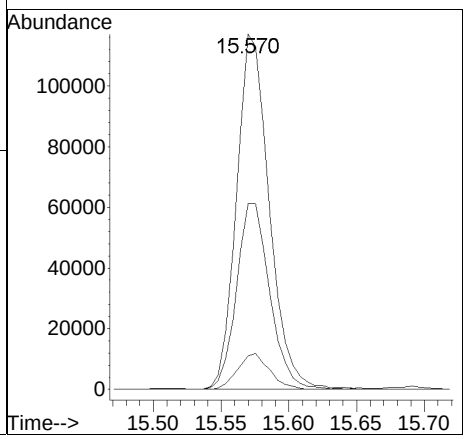


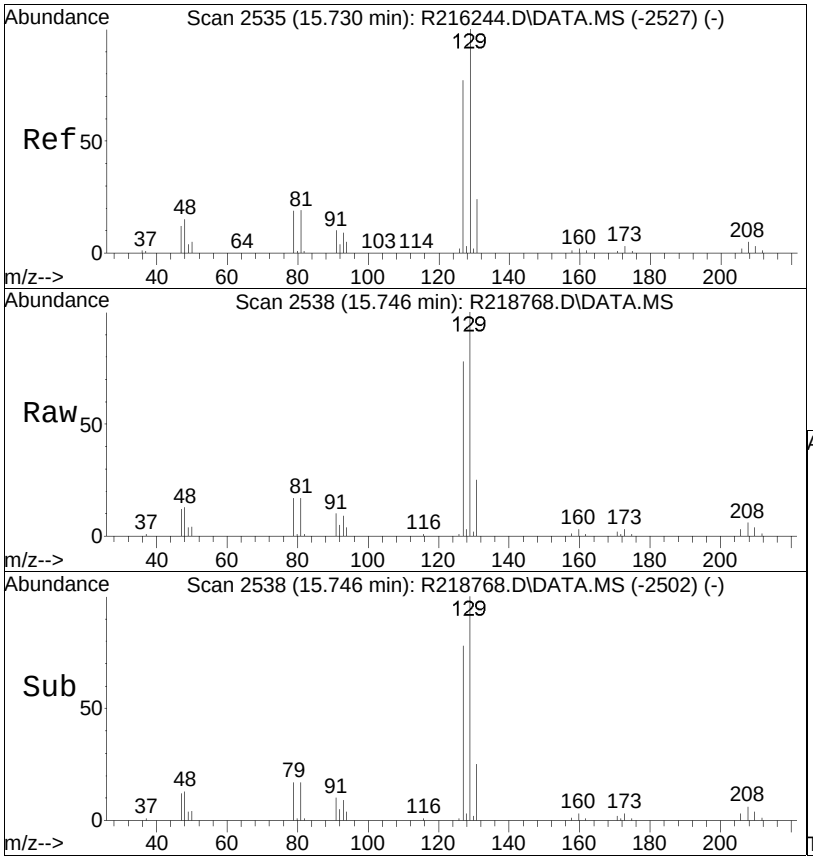


#73
2-hexanone
Concen: 10.92 ppbV
RT: 15.570 min Scan# 2506
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 43 Resp: 197201

Ion	Ratio	Lower	Upper
43	100		
58	52.3	43.5	65.3
100	9.4	8.5	12.7

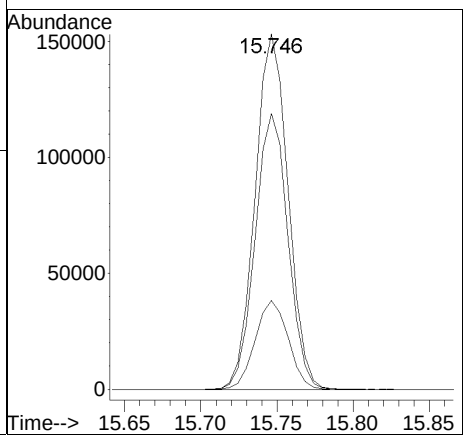


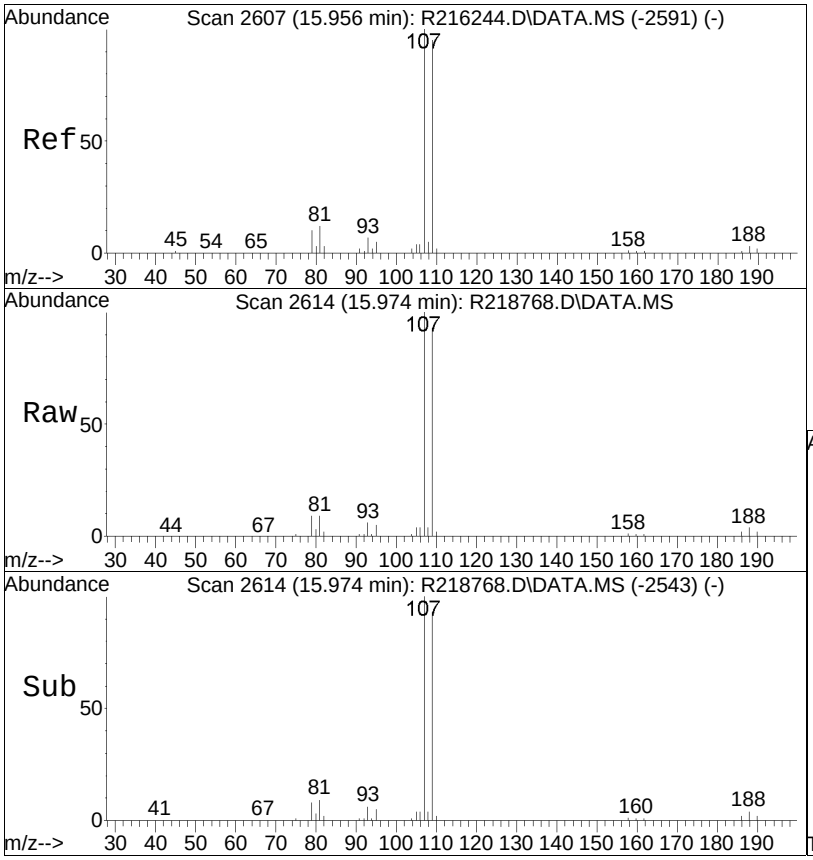


#75
dibromochloromethane
Concen: 10.60 ppbV
RT: 15.746 min Scan# 2538
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:129 Resp: 248562

Ion	Ratio	Lower	Upper
129	100		
127	77.6	61.8	92.8
131	25.0	19.1	28.7

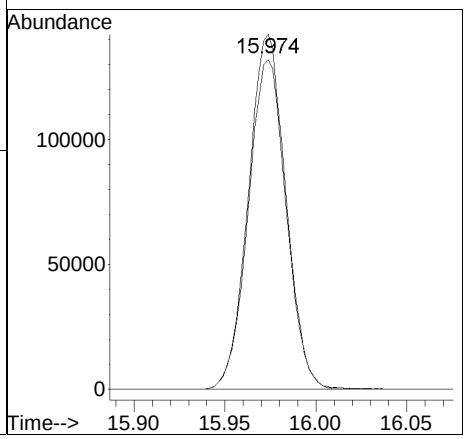


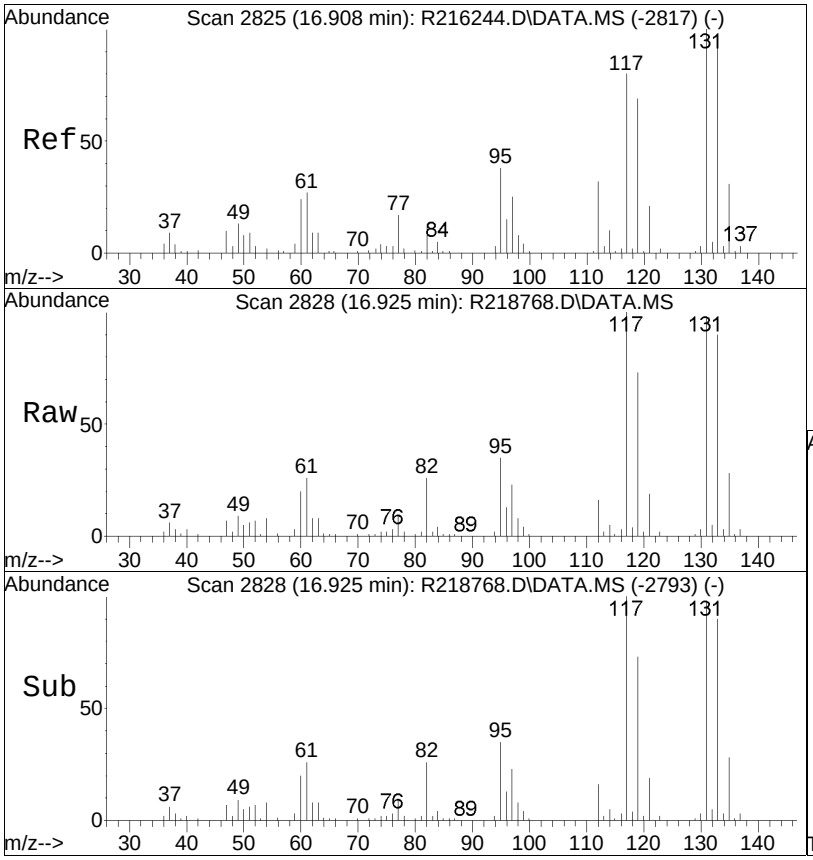


#76
1,2-dibromoethane
Concen: 10.49 ppbV
RT: 15.974 min Scan# 2614
Delta R.T. -0.003 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:107 Resp: 203889

Ion	Ratio	Lower	Upper
107	100		
109	92.8	77.8	116.8

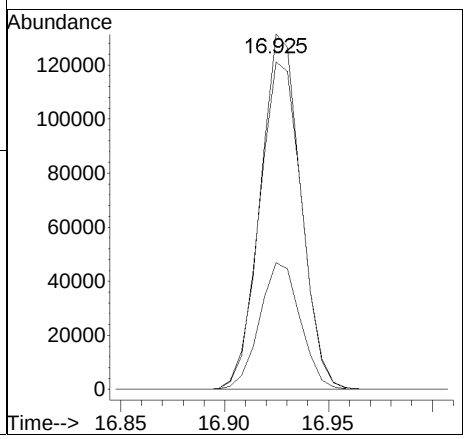


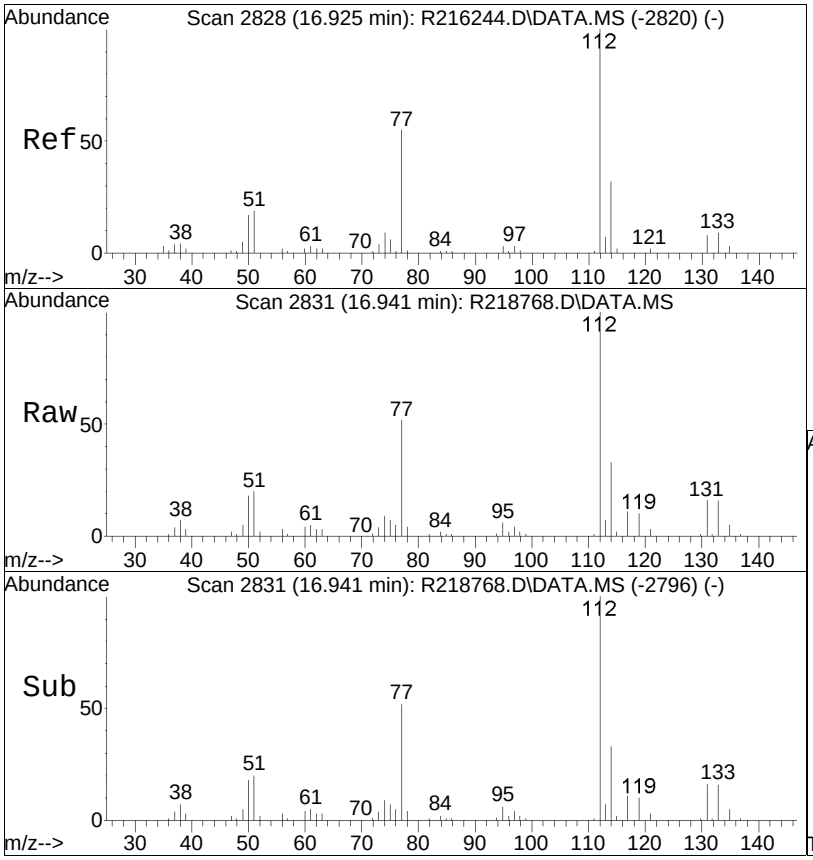


#80
1,1,1,2-tetrachloroethane
Concen: 10.07 ppbV
RT: 16.925 min Scan# 2828
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:131 Resp: 178619

Ion	Ratio	Lower	Upper
131	100		
133	92.2	78.2	117.2
95	35.7	30.5	45.7

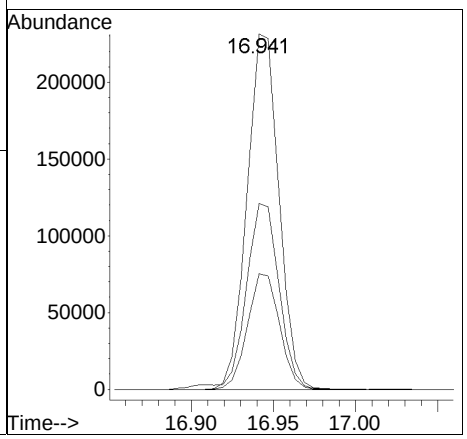


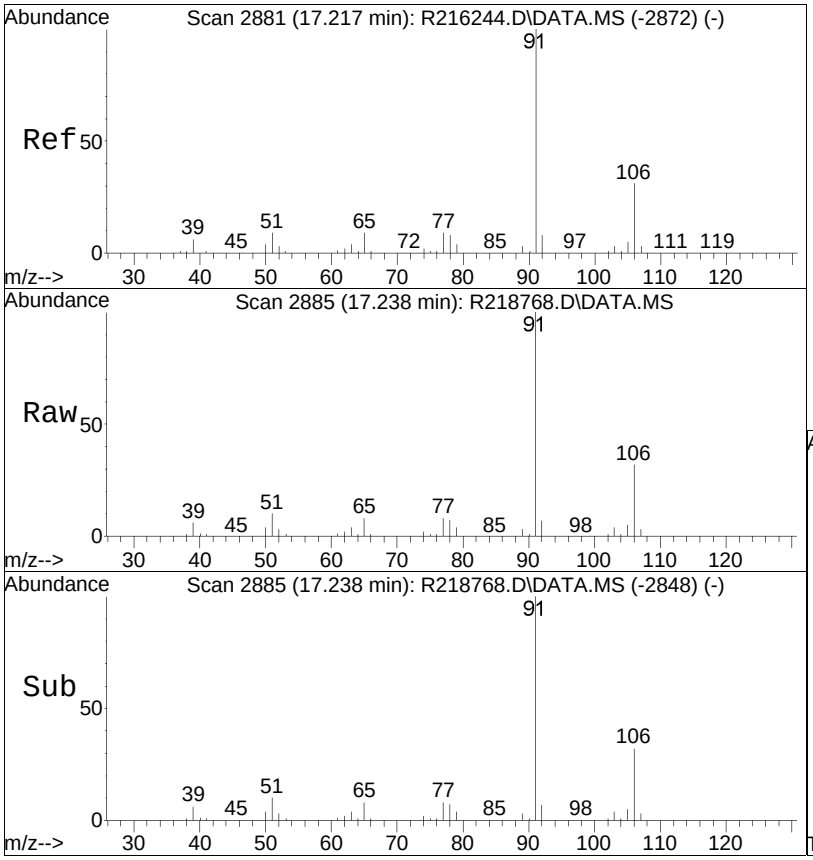


#81
chlorobenzene
Concen: 10.67 ppbV
RT: 16.941 min Scan# 2831
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:112 Resp: 313160

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.9	38.9
77	52.4	44.6	67.0

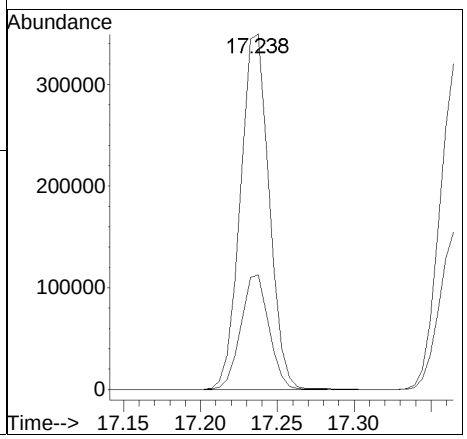


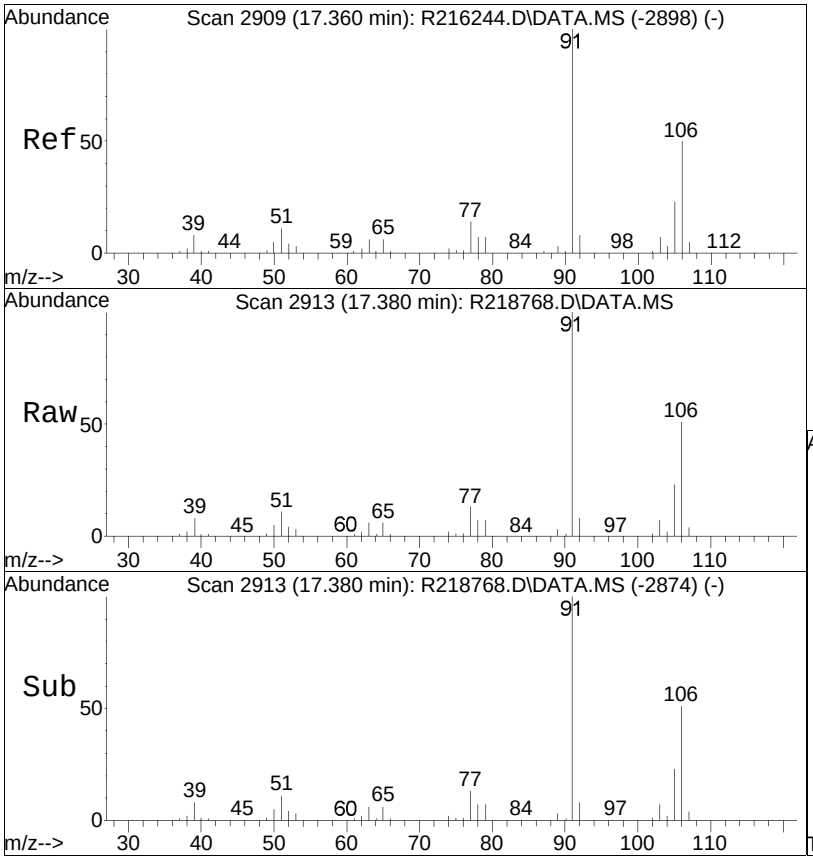


#82
ethylbenzene
Concen: 11.09 ppbV
RT: 17.238 min Scan# 2885
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 91 Resp: 455016

Ion	Ratio	Lower	Upper
91	100		
106	32.3	25.1	37.7

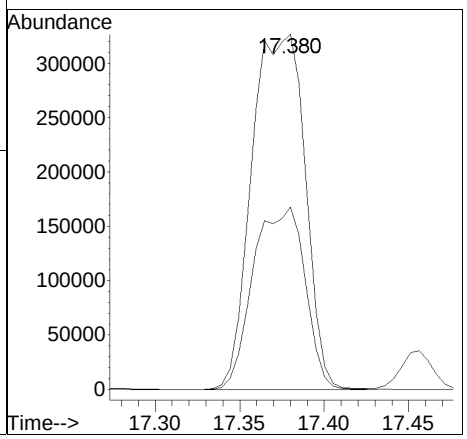


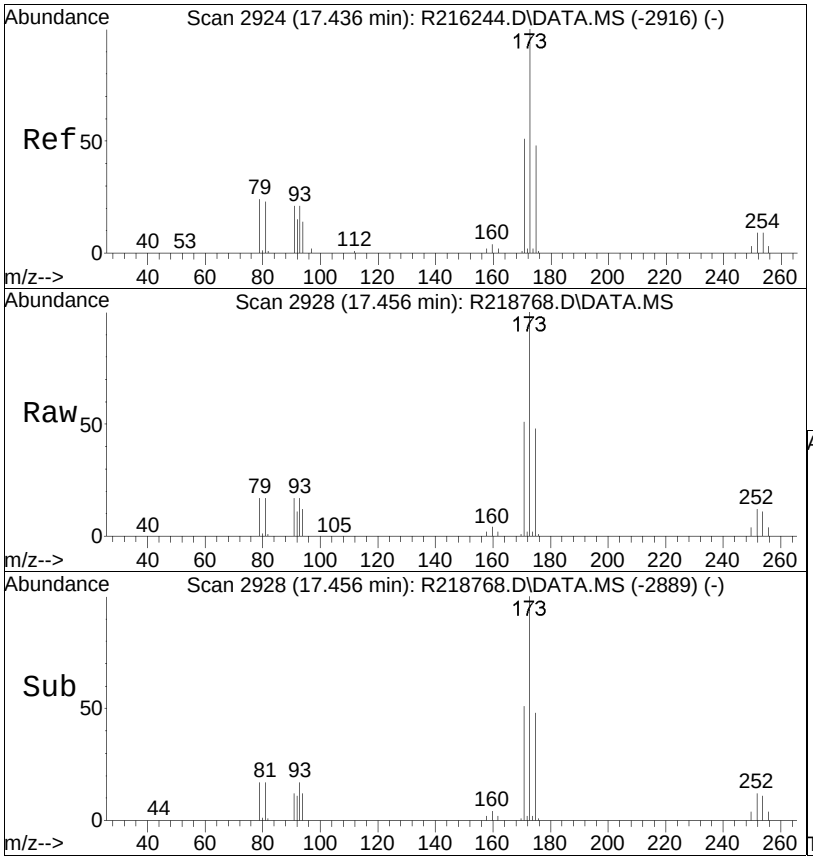


#84
m+p-xylene
Concen: 22.08 ppbV
RT: 17.380 min Scan# 2913
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 91 Resp: 713085

Ion	Ratio	Lower	Upper
91	100		
106	51.3	39.5	59.3

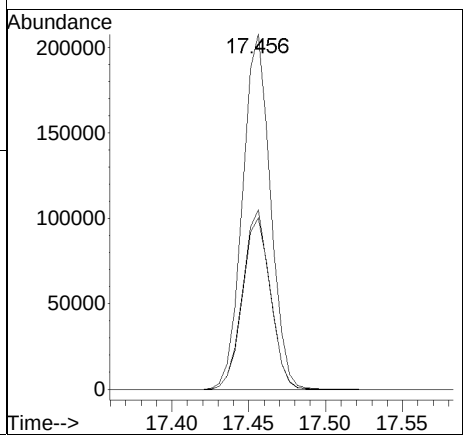


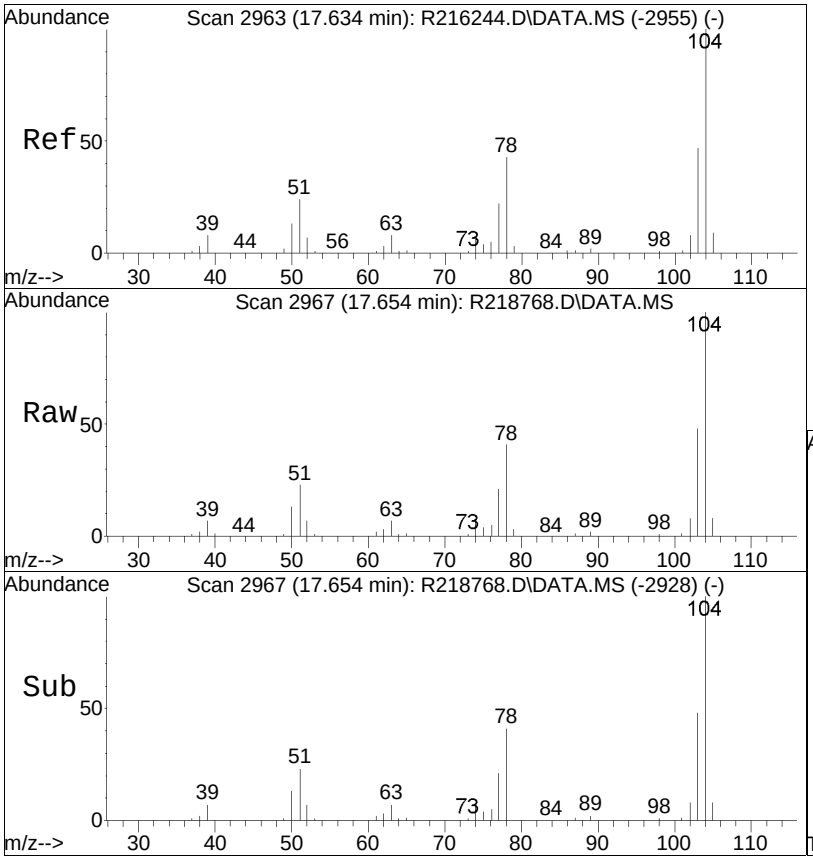


#85
bromoform
Concen: 10.52 ppbV
RT: 17.456 min Scan# 2928
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:173 Resp: 262500

Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.6	57.8
171	50.6	41.2	61.8

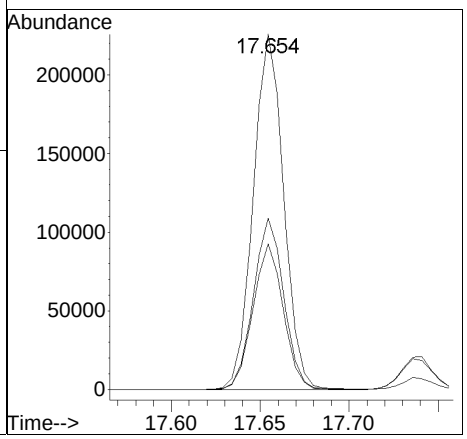


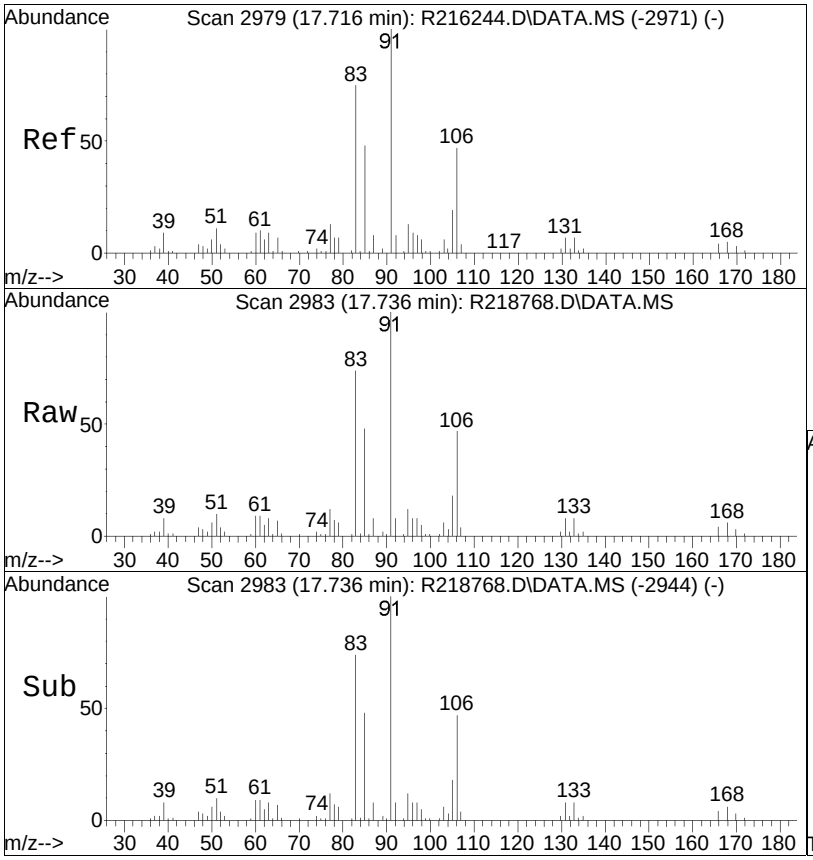


#86
styrene
Concen: 11.34 ppbV
RT: 17.654 min Scan# 2967
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:104 Resp: 268150

Ion	Ratio	Lower	Upper
104	100		
103	48.2	38.9	58.3
78	41.0	33.4	50.2

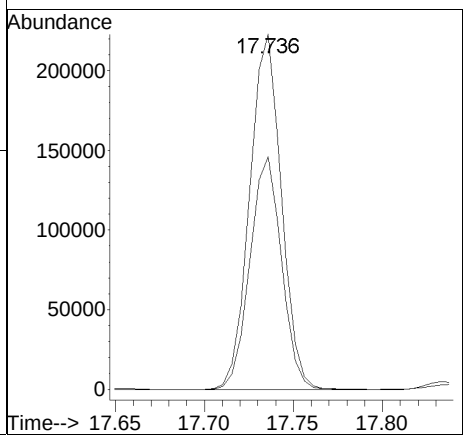


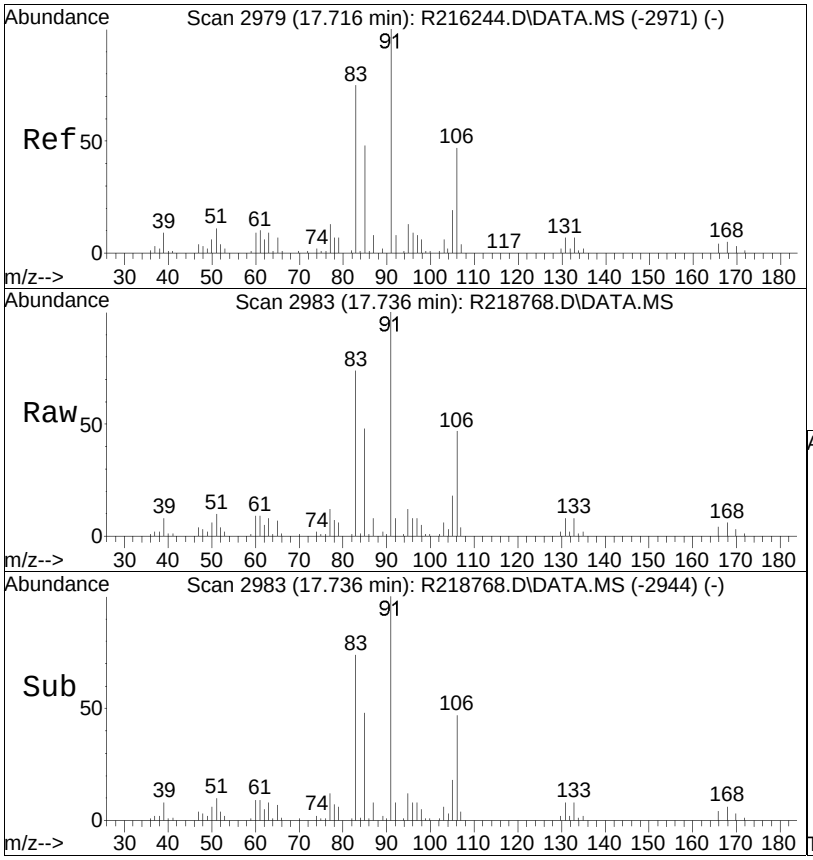


#87
1,1,2,2-tetrachloroethane
Concen: 11.77 ppbV
RT: 17.736 min Scan# 2983
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 83 Resp: 276116

Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.1	78.1

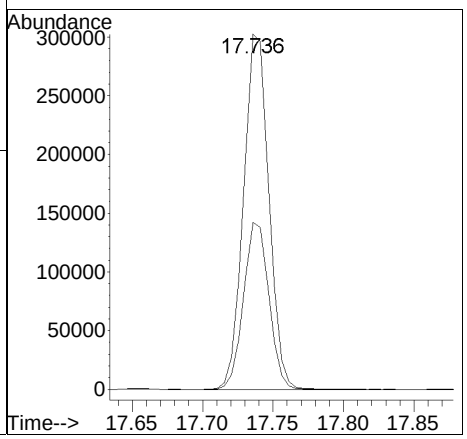


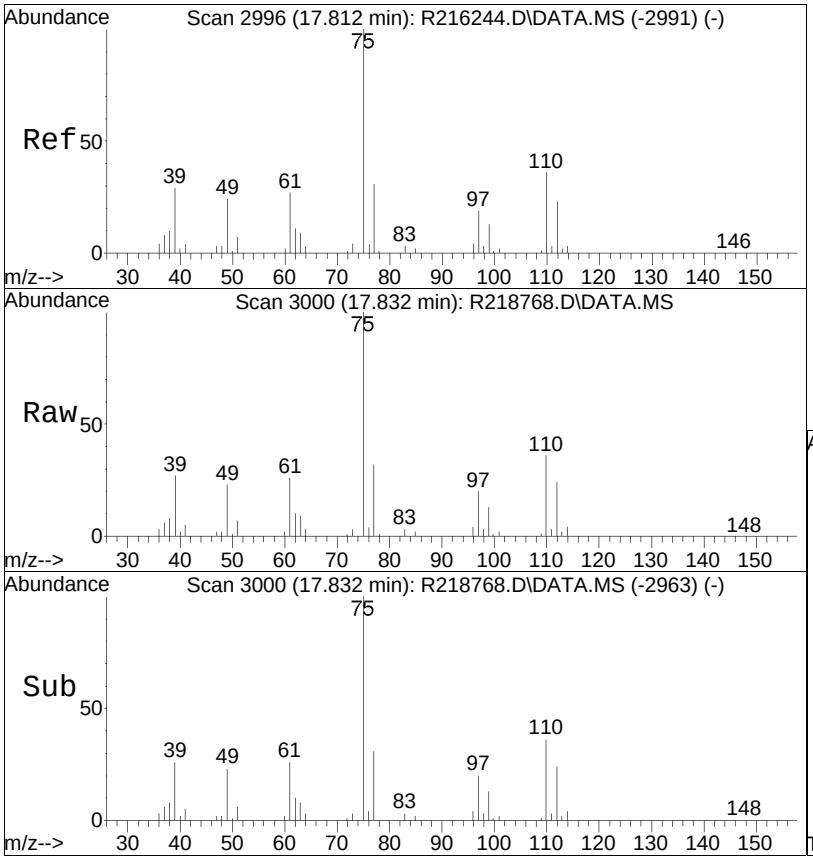


#88
o-xylene
Concen: 11.94 ppbV
RT: 17.736 min Scan# 2983
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 91 Resp: 412766

Ion	Ratio	Lower	Upper
91	100		
106	47.0	38.1	57.1

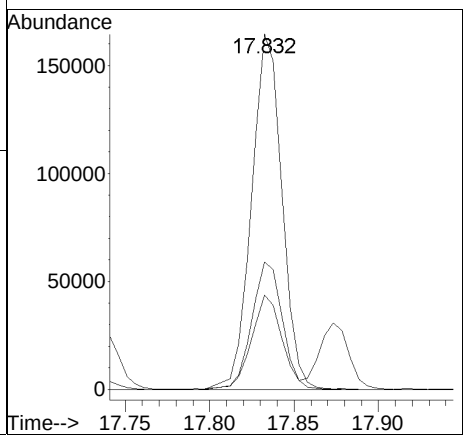


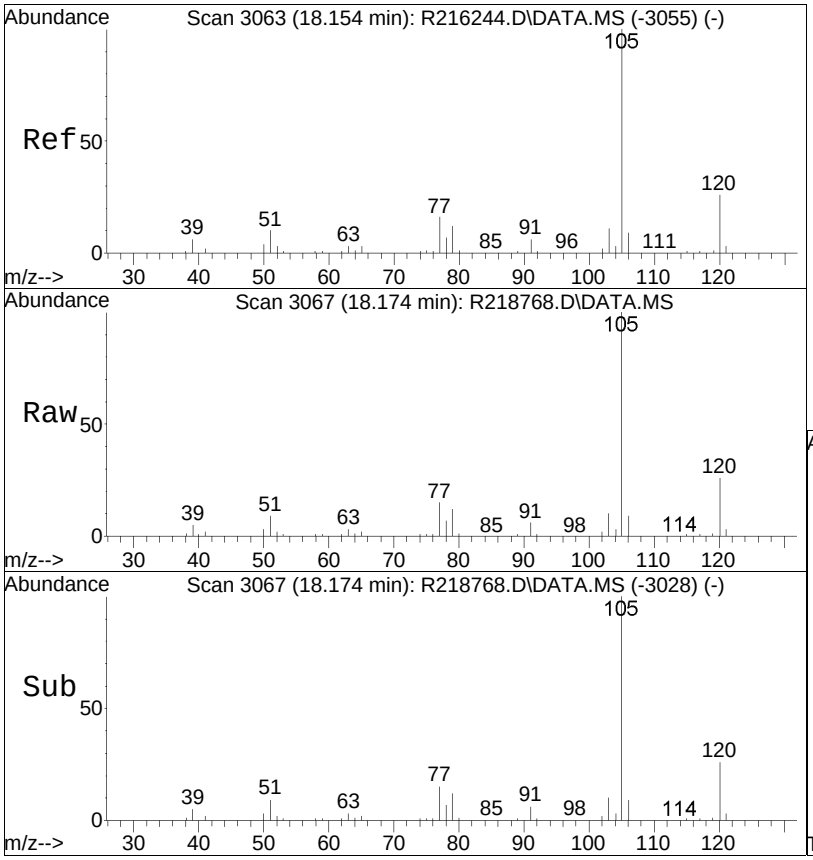


#89
1,2,3-trichloropropane
Concen: 11.27 ppbV
RT: 17.832 min Scan# 3000
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 75 Resp: 227571

Ion	Ratio	Lower	Upper
75	100		
110	35.8	29.4	44.0
39	26.5	21.8	32.6

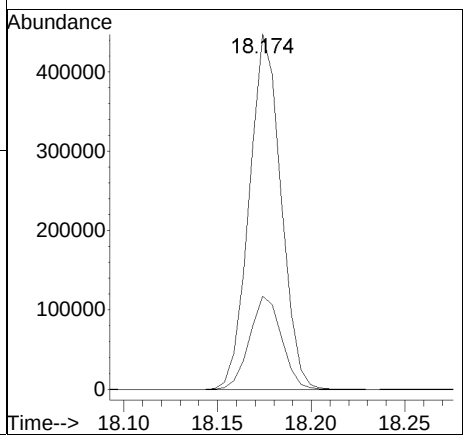


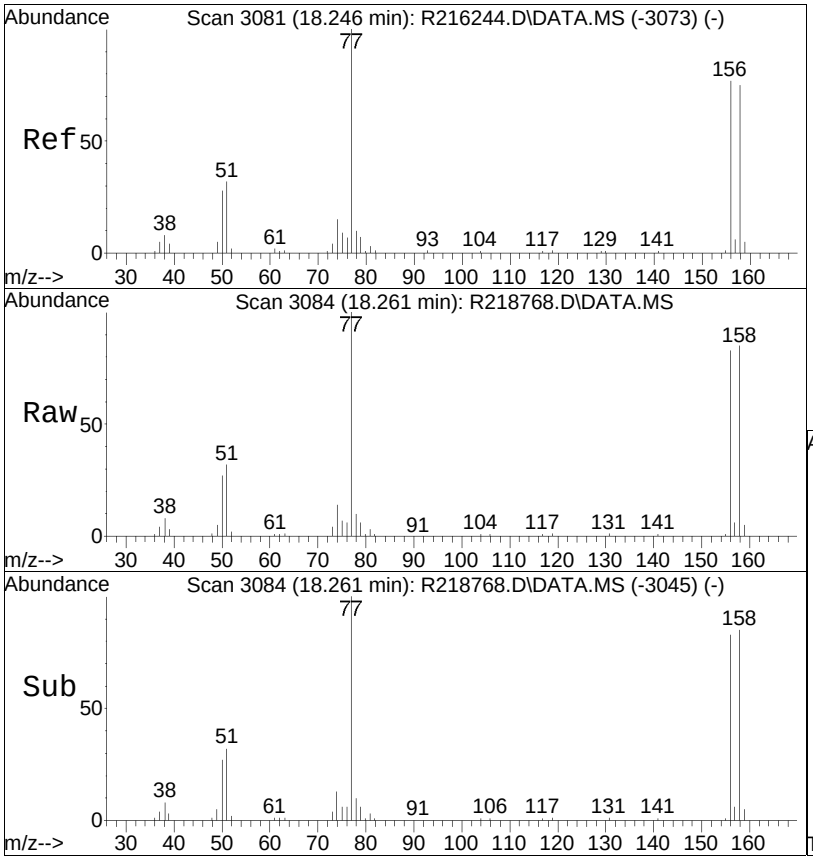


#92
isopropylbenzene
Concen: 11.23 ppbV
RT: 18.174 min Scan# 3067
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:105 Resp: 526431

Ion	Ratio	Lower	Upper
105	100		
120	26.2	21.2	31.8

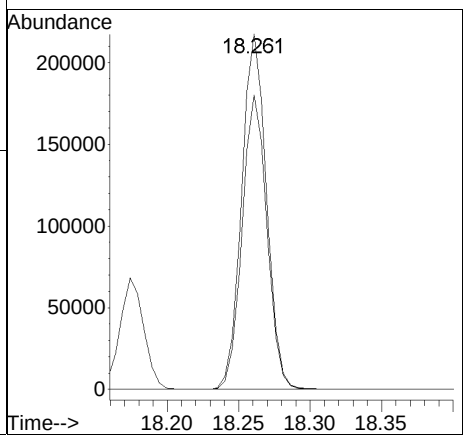


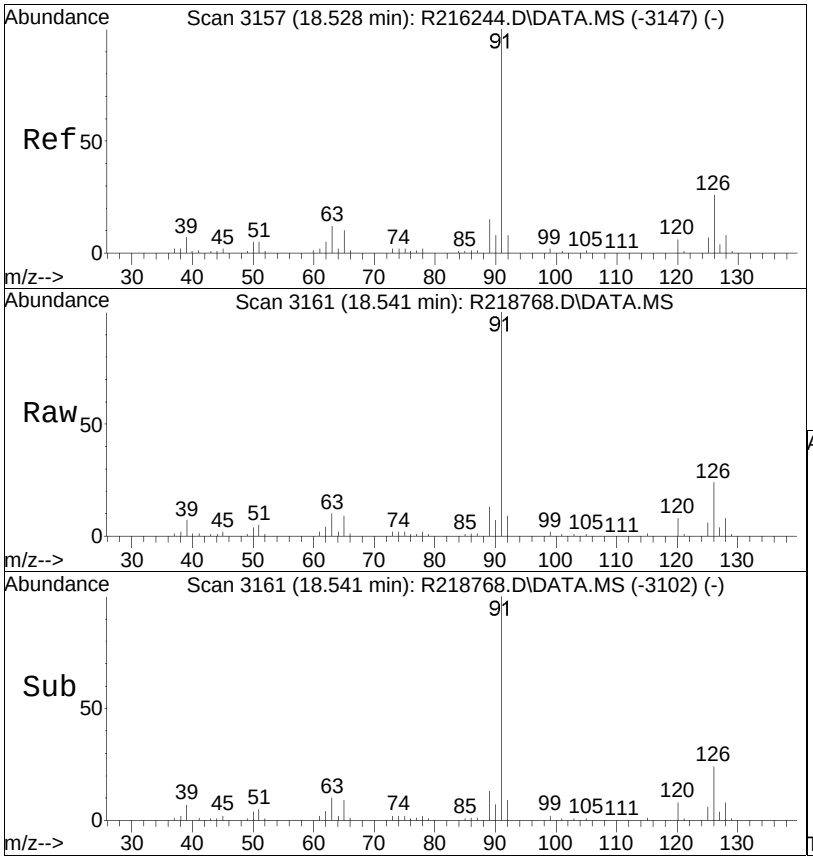


#93
bromobenzene
Concen: 9.96 ppbV
RT: 18.261 min Scan# 3084
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 77 Resp: 247791

Ion	Ratio	Lower	Upper
77	100		
156	82.9	55.0	82.4#

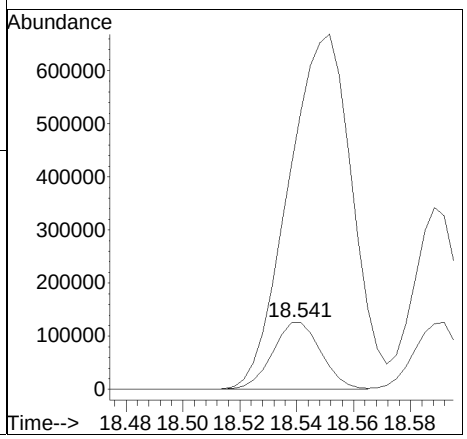


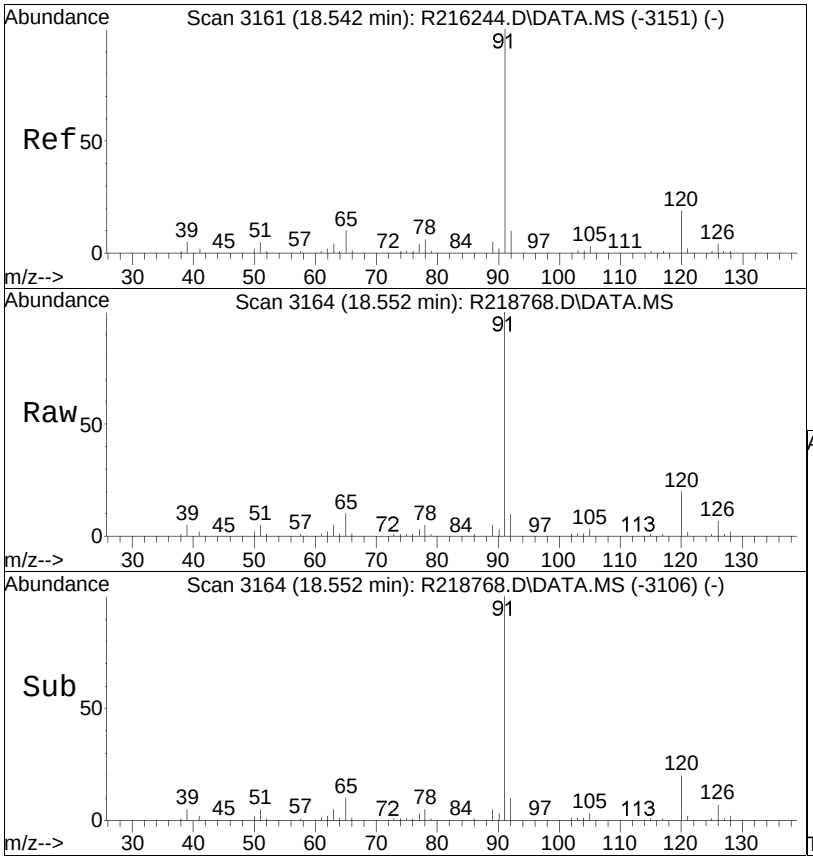


#94
2-chlorotoluene
Concen: 10.94 ppbV
RT: 18.541 min Scan# 3161
Delta R.T. -0.003 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:126 Resp: 150040

Ion	Ratio	Lower	Upper
126	100		
91	416.6	300.2	450.2

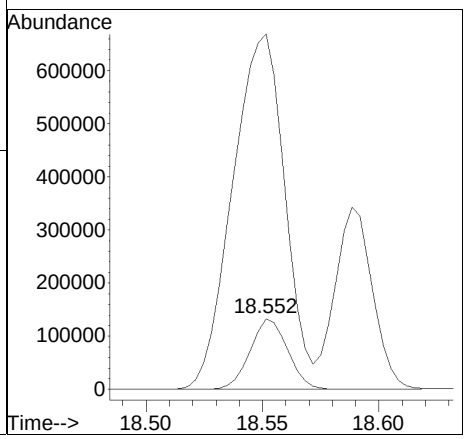


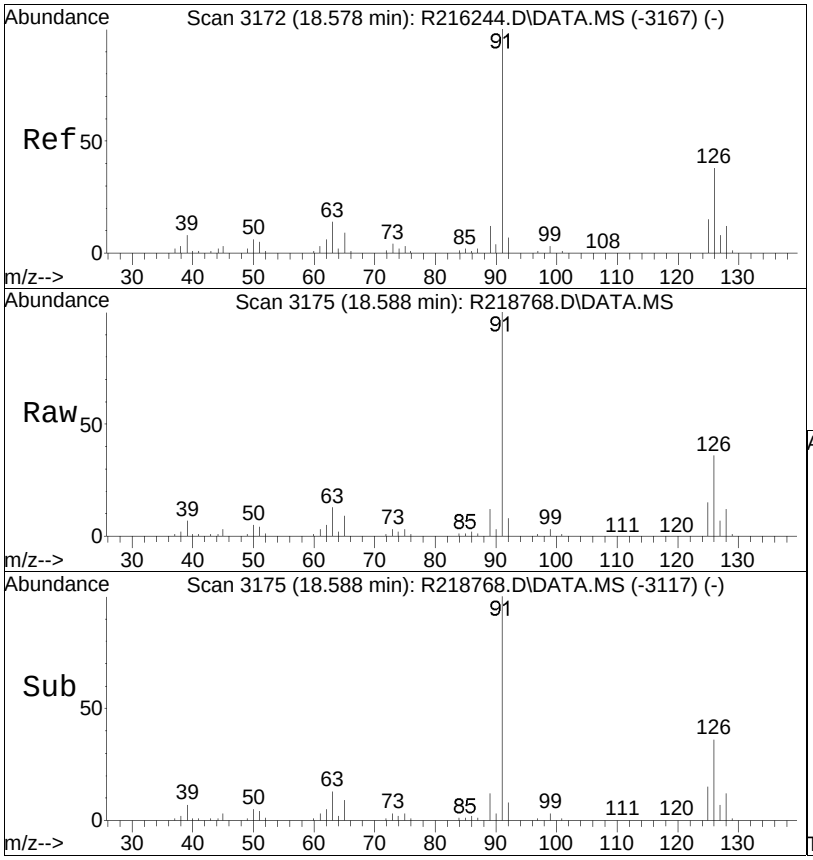


#95
n-propylbenzene
Concen: 11.63 ppbV
RT: 18.552 min Scan# 3164
Delta R.T. -0.007 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:120 Resp: 149008

Ion	Ratio	Lower	Upper
120	100		
91	503.9	424.8	637.2

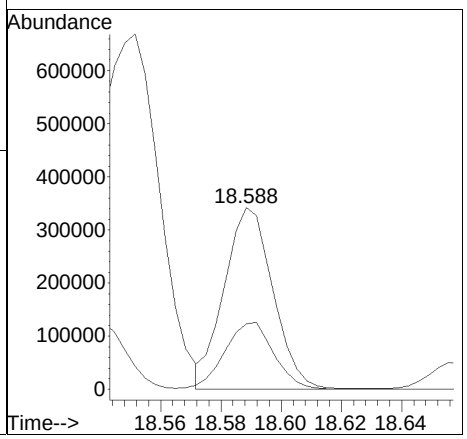


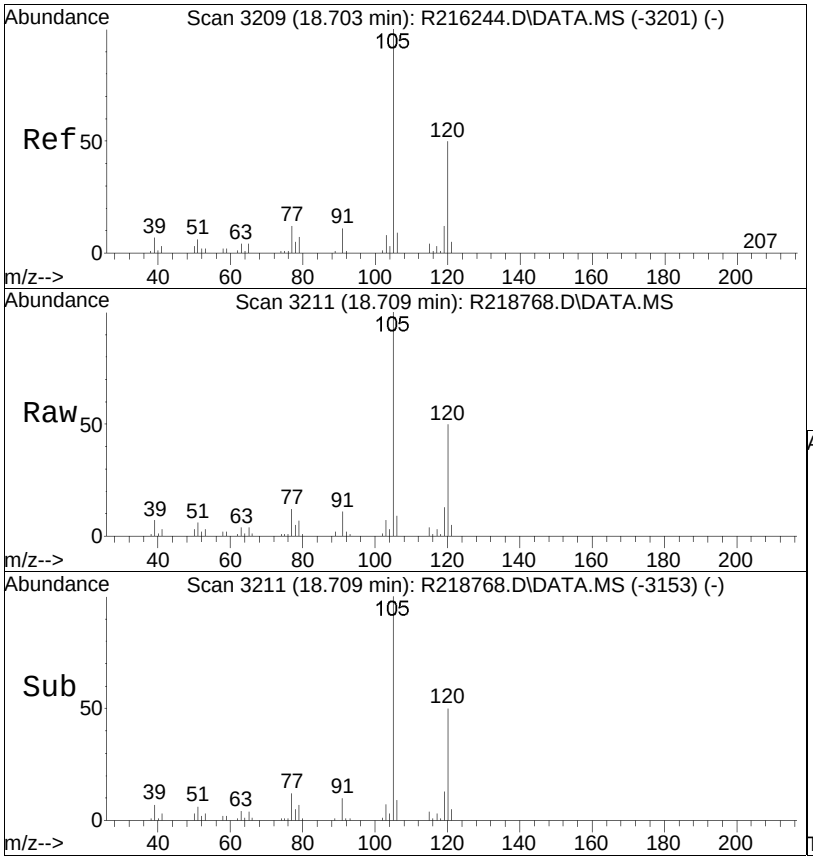


#96
4-chlorotoluene
Concen: 10.97 ppbV
RT: 18.588 min Scan# 3175
Delta R.T. -0.007 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 91 Resp: 385774

Ion	Ratio	Lower	Upper
91	100		
126	36.1	28.2	42.2

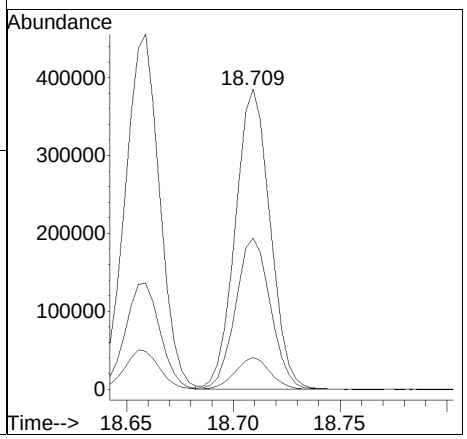


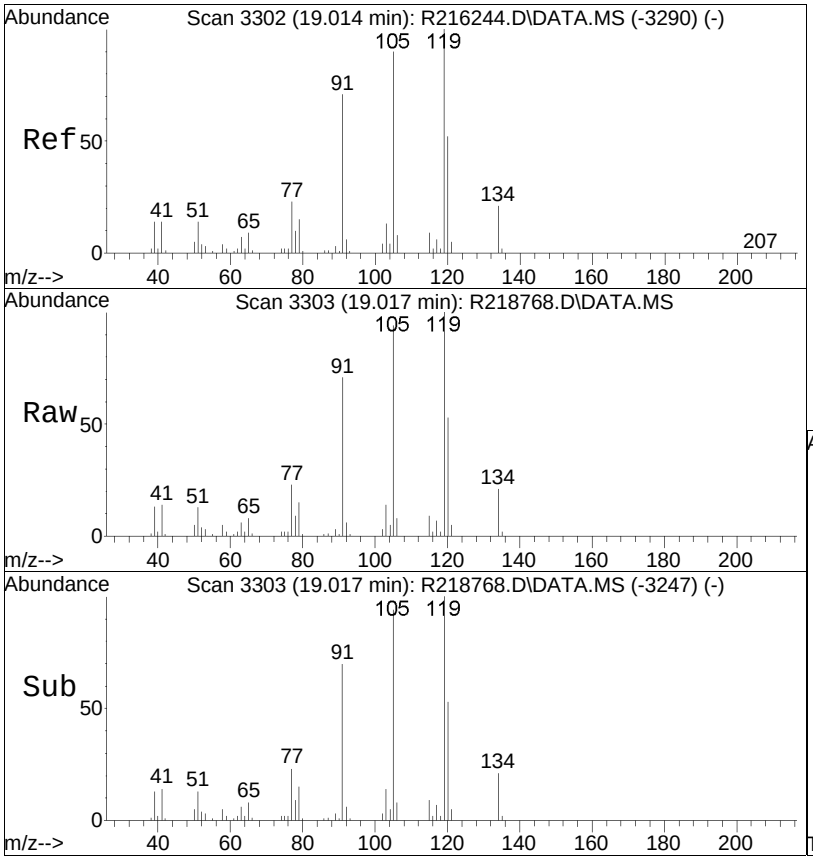


#98
1,3,5-trimethylbenzene
Concen: 12.28 ppbV
RT: 18.709 min Scan# 3211
Delta R.T. -0.007 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:105 Resp: 437230

Ion	Ratio	Lower	Upper
105	100		
120	50.3	39.4	59.0
91	10.7	8.8	13.2

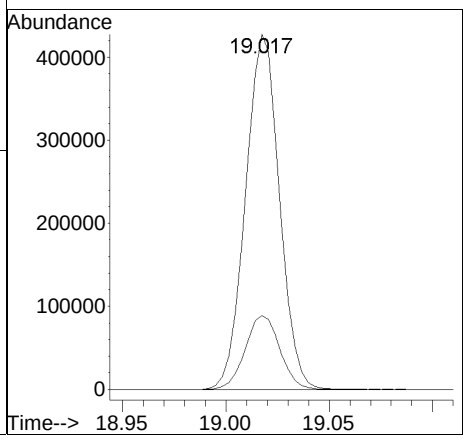


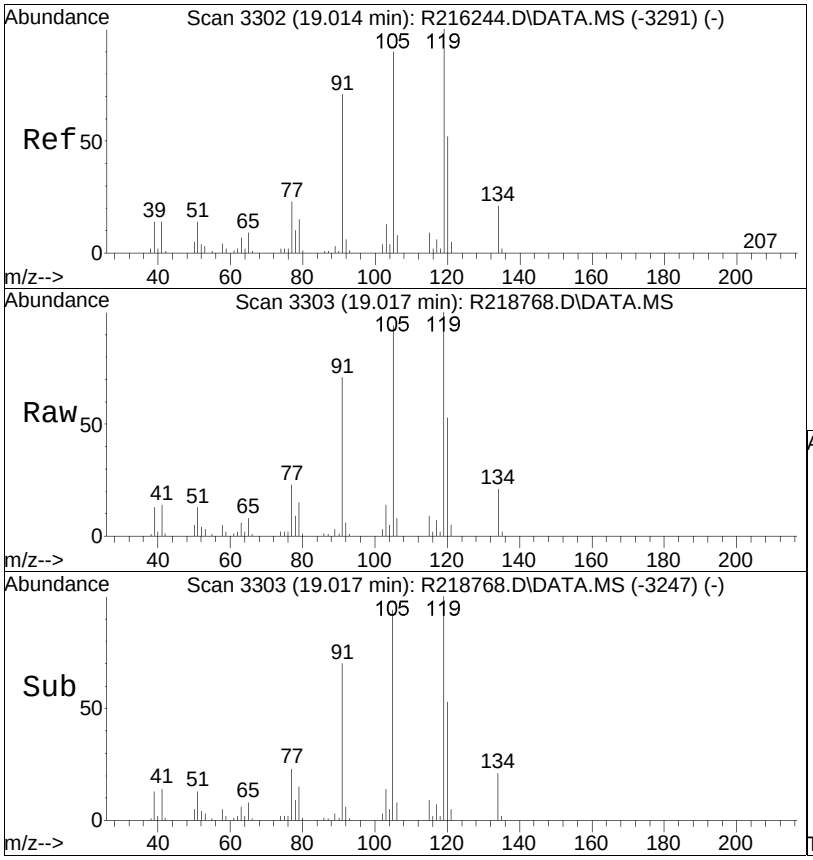


#99
tert-butylbenzene
Concen: 12.28 ppbV
RT: 19.017 min Scan# 3303
Delta R.T. -0.013 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:119 Resp: 486290

Ion	Ratio	Lower	Upper
119	100		
134	20.8	17.2	25.8

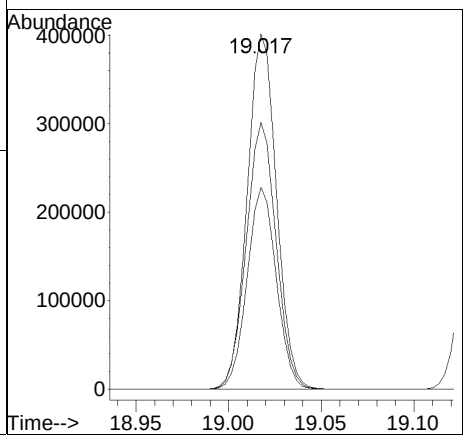


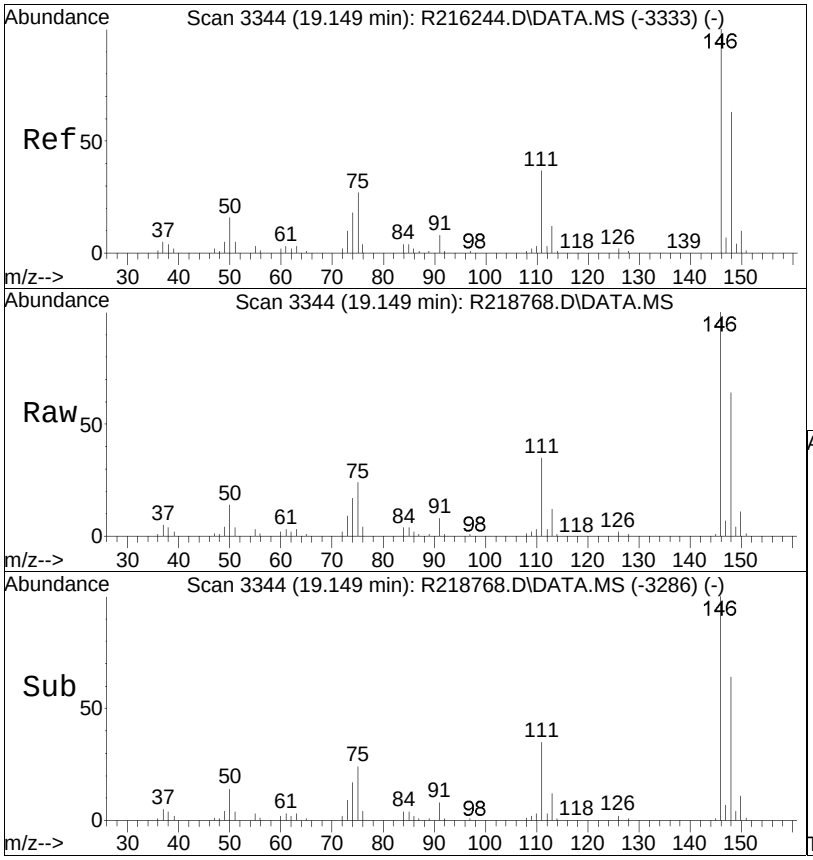


#100
1,2,4-trimethylbenzene
Concen: 12.98 ppbV
RT: 19.017 min Scan# 3303
Delta R.T. -0.013 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:105 Resp: 443159

Ion	Ratio	Lower	Upper
105	100		
120	56.9	44.1	66.1
91	75.1	61.6	92.4

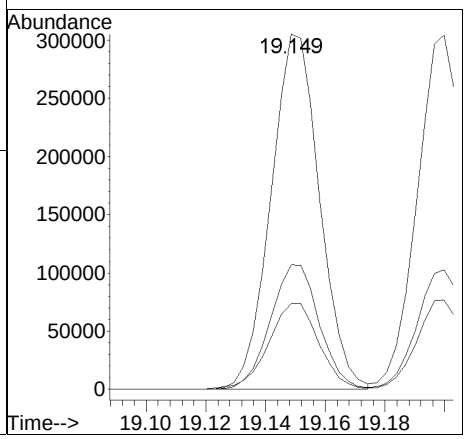


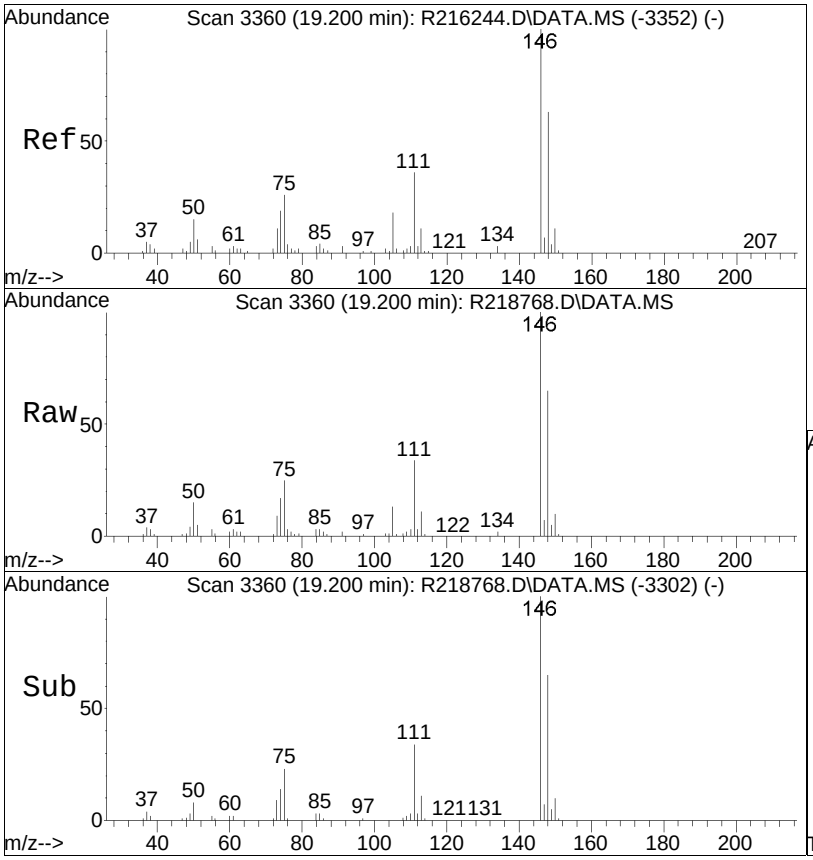


#103
1,3-dichlorobenzene
Concen: 12.31 ppbV
RT: 19.149 min Scan# 3344
Delta R.T. -0.016 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:146 Resp: 345088

Ion	Ratio	Lower	Upper
146	100		
111	35.0	31.2	46.8
75	24.1	21.4	32.2

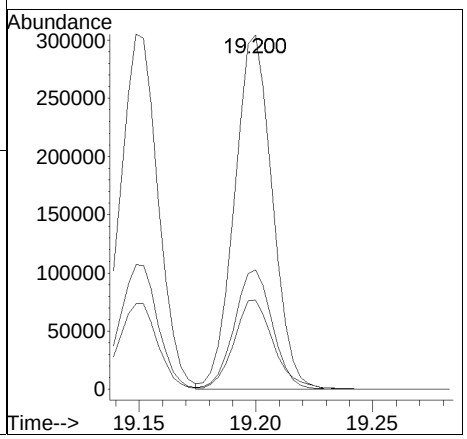


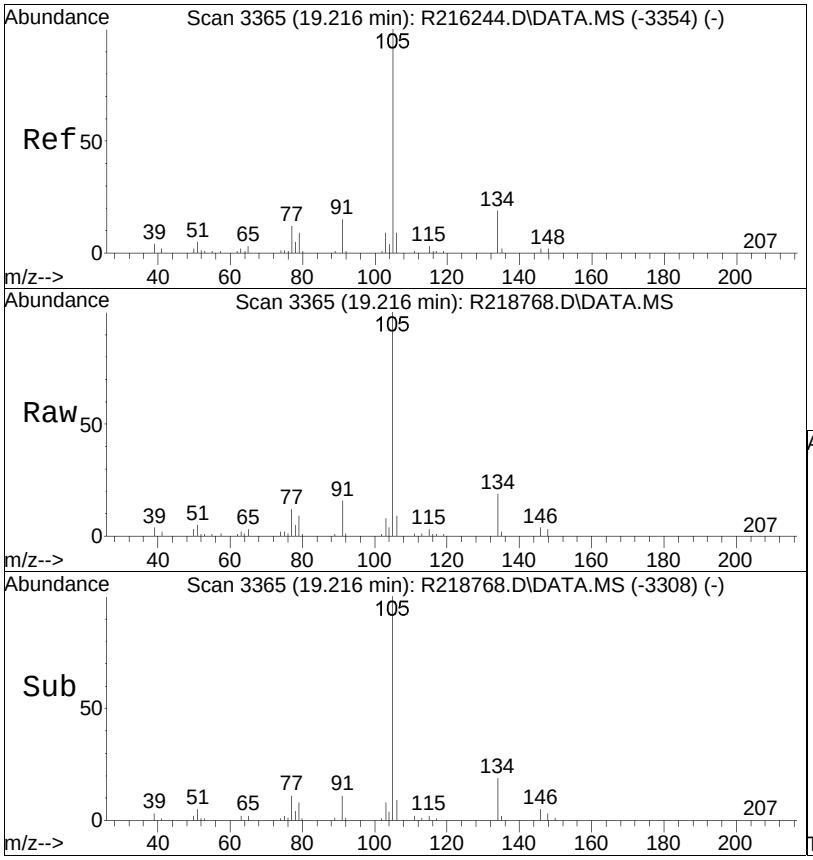


#104
1,4-dichlorobenzene
Concen: 12.23 ppbV
RT: 19.200 min Scan# 3360
Delta R.T. -0.016 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:146 Resp: 341667

Ion	Ratio	Lower	Upper
146	100		
111	33.7	29.8	44.6
75	25.2	21.2	31.8

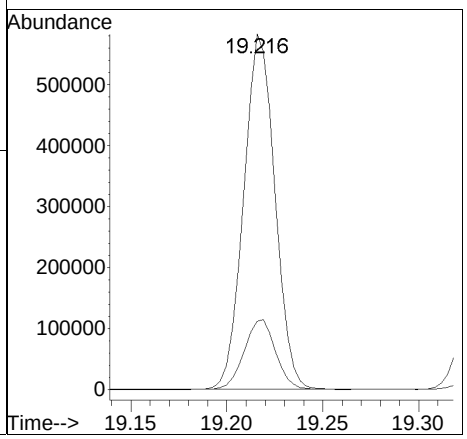


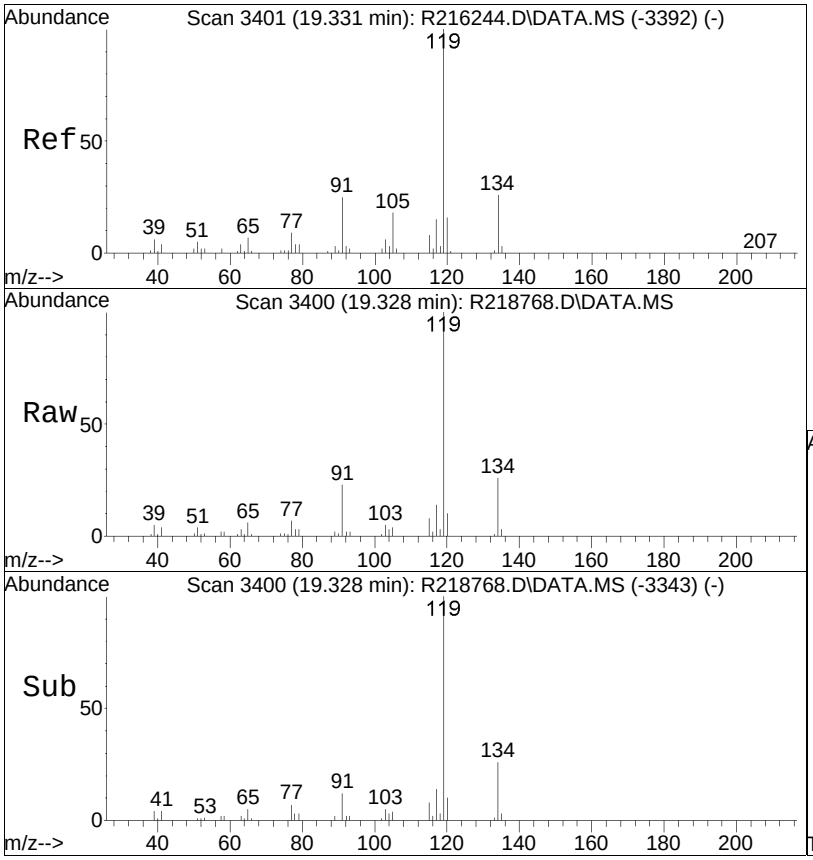


#105
sec-butylbenzene
Concen: 12.20 ppbV
RT: 19.216 min Scan# 3365
Delta R.T. -0.019 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:105 Resp: 659528

Ion	Ratio	Lower	Upper
105	100		
134	19.2	15.1	22.7

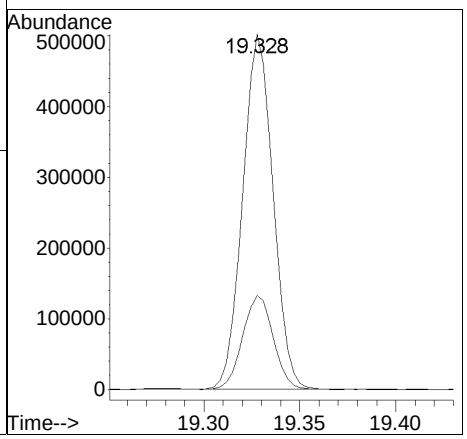


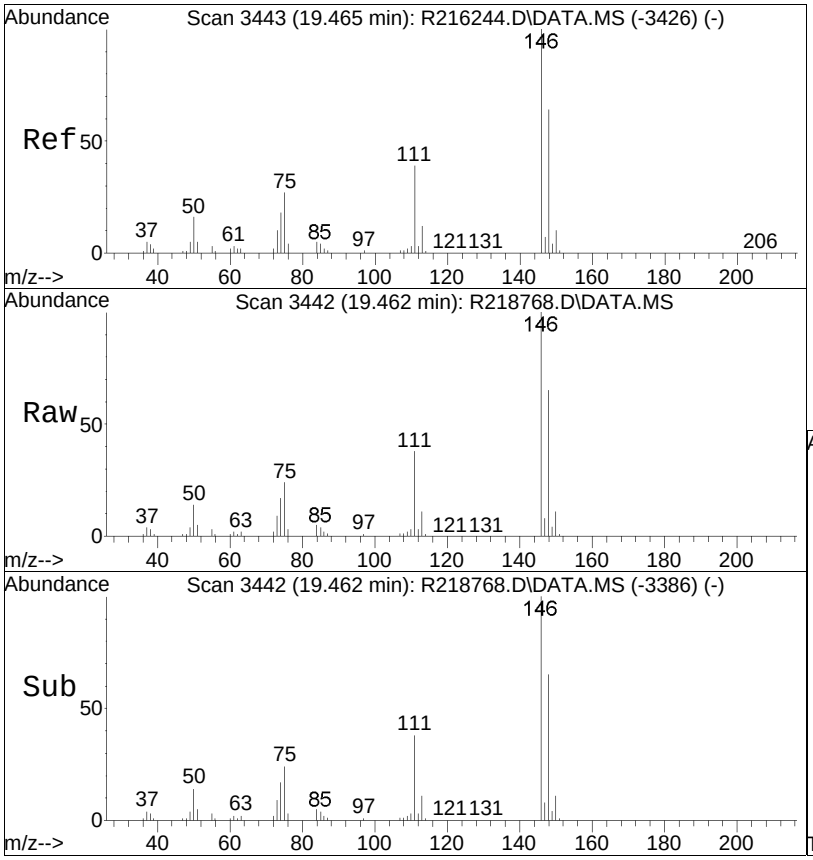


#107
p-isopropyltoluene
Concen: 12.13 ppbV
RT: 19.328 min Scan# 3400
Delta R.T. -0.019 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:119 Resp: 552214

Ion	Ratio	Lower	Upper
119	100		
134	26.5	20.6	30.8

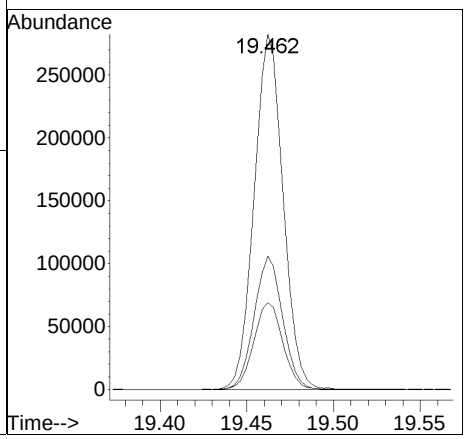


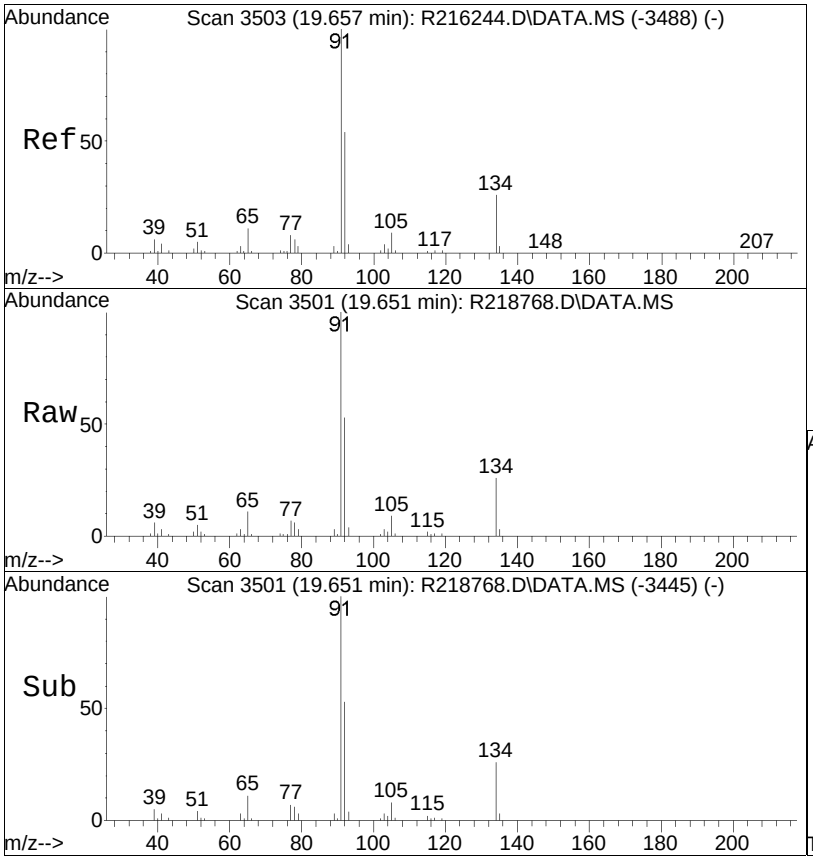


#108
1,2-dichlorobenzene
Concen: 12.62 ppbV
RT: 19.462 min Scan# 3442
Delta R.T. -0.022 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:146 Resp: 327863

Ion	Ratio	Lower	Upper
146	100		
111	37.6	31.6	47.4
75	24.4	22.0	33.0

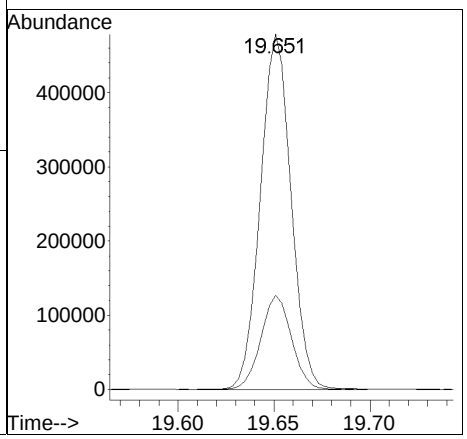


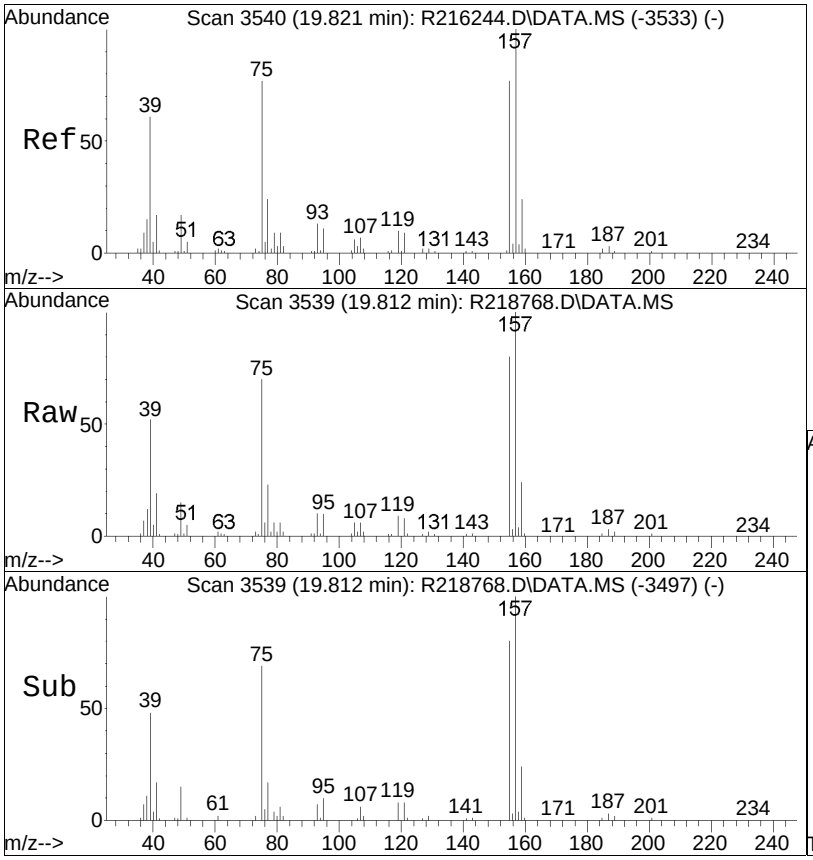


#109
n-butylbenzene
Concen: 13.09 ppbV
RT: 19.651 min Scan# 3501
Delta R.T. -0.022 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 91 Resp: 531486

Ion	Ratio	Lower	Upper
91	100		
134	26.5	20.9	31.3

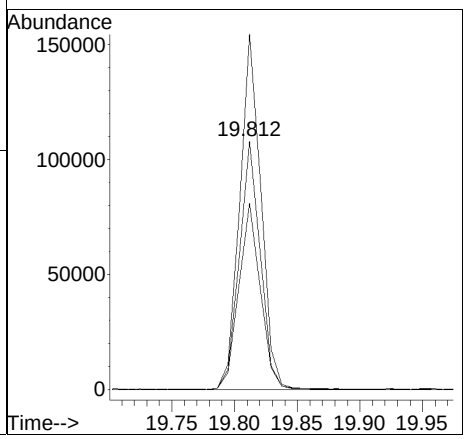


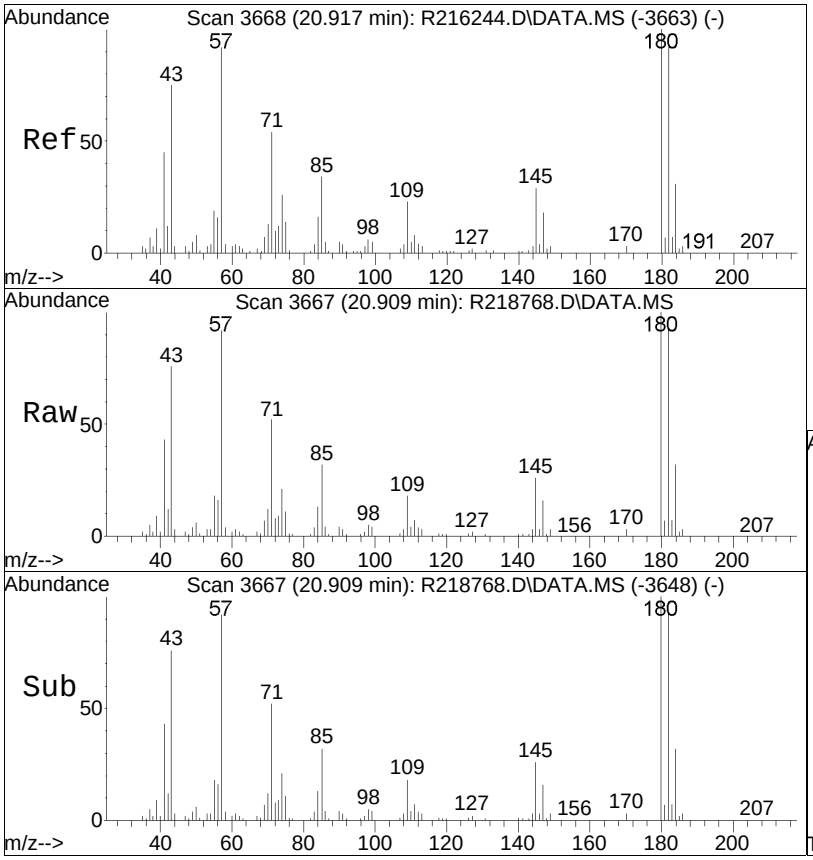


#112
1,2-dibromo-3-chloropropane
Concen: 12.81 ppbV
RT: 19.812 min Scan# 3539
Delta R.T. -0.026 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 75 Resp: 126035

Ion	Ratio	Lower	Upper
75	100		
157	143.3	99.4	149.0
39	75.0	64.8	97.2

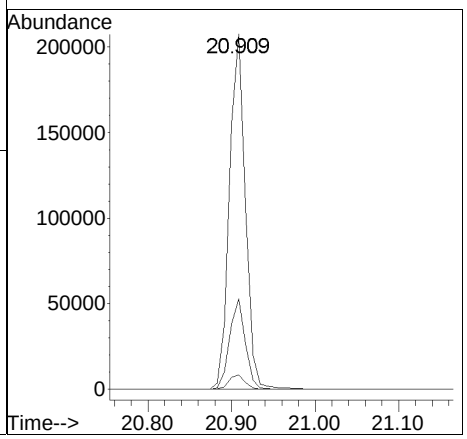


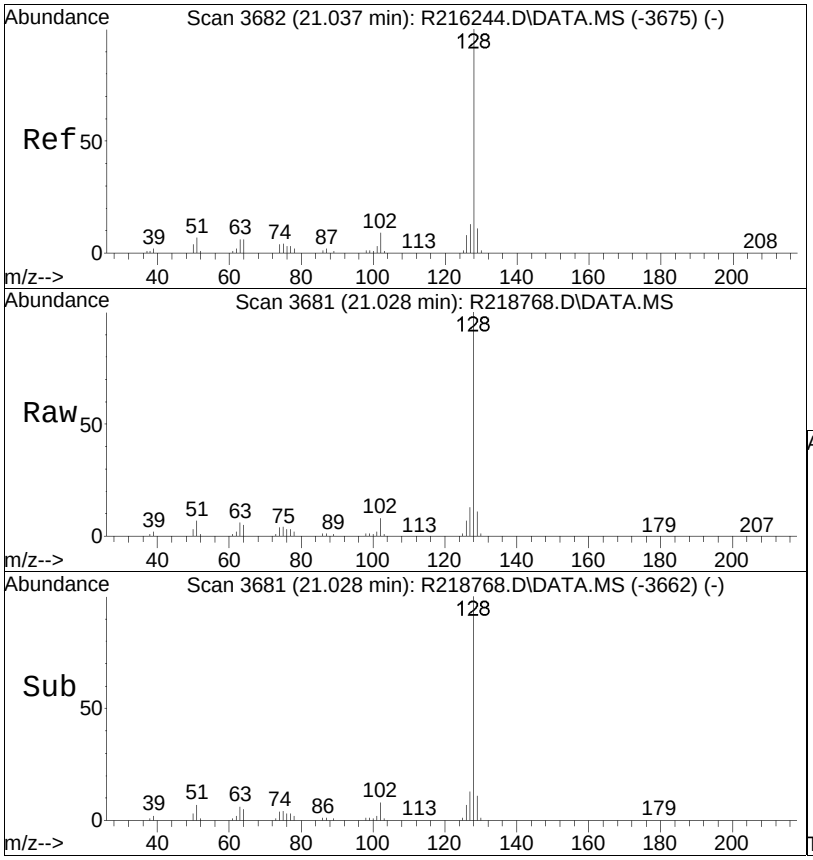


#116
1,2,4-trichlorobenzene
Concen: 14.79 ppbV
RT: 20.909 min Scan# 3667
Delta R.T. -0.034 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:180 Resp: 276276

Ion	Ratio	Lower	Upper
180	100		
145	25.5	22.6	33.8
110	4.1	4.1	6.1

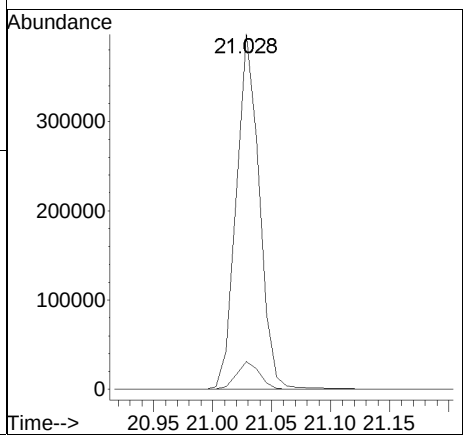


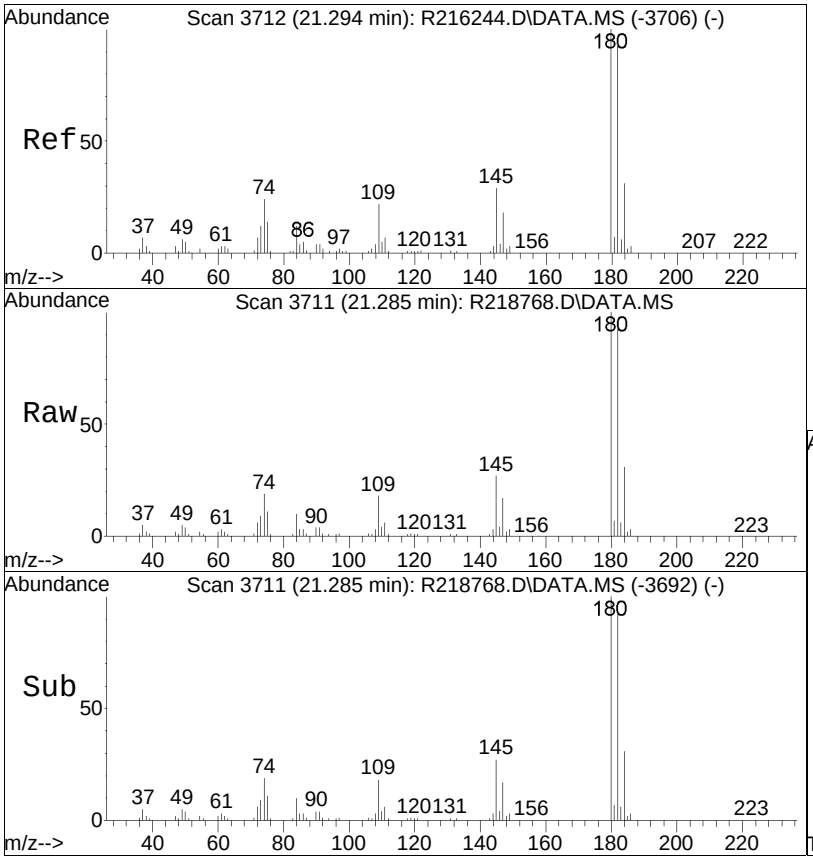


#117
naphthalene
Concen: 13.06 ppbV
RT: 21.028 min Scan# 3681
Delta R.T. -0.035 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:128 Resp: 541220

Ion	Ratio	Lower	Upper
128	100		
102	7.8	6.4	9.6

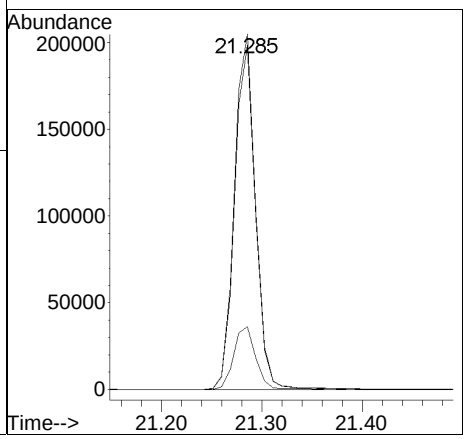


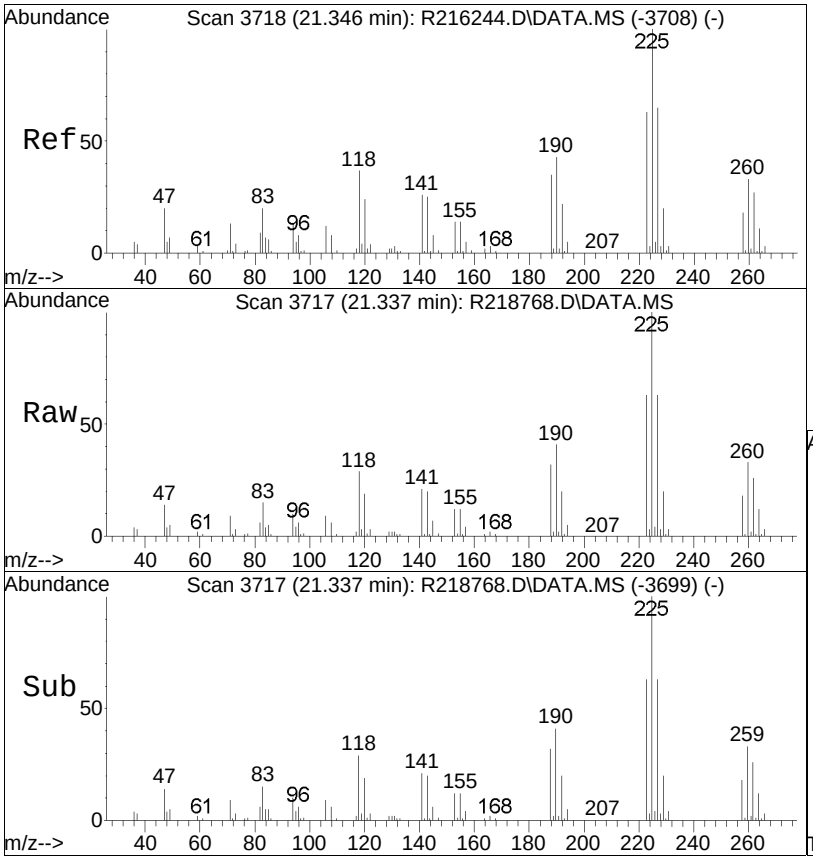


#118
1,2,3-trichlorobenzene
Concen: 14.70 ppbV
RT: 21.285 min Scan# 3711
Delta R.T. -0.035 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:180 Resp: 299872

Ion	Ratio	Lower	Upper
180	100		
182	96.9	76.9	115.3
109	17.7	17.9	26.9#

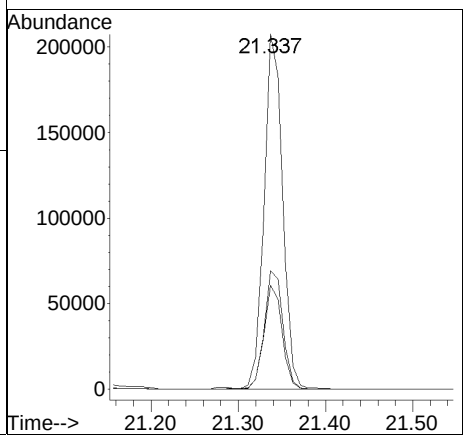




#120
hexachlorobutadiene
Concen: 14.78 ppbV
RT: 21.337 min Scan# 3717
Delta R.T. -0.043 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:225 Resp: 307218

Ion	Ratio	Lower	Upper
225	100		
260	33.4	26.0	39.0
118	29.3	30.0	45.0#



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2012Q	Method	: TALL111221.M
Data File	: R218768.D	Operator	: AIRPIANO2:ry
Date Inj'd	: 1/5/2012 17:06	Instrument	: Air Piano 2
Sample	: WG511601-3,3,250,250	Quant Date	: 1/5/2012 5:35 pm

There are no manual integrations or false positives in this file.

Sample Utilized
For QC

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218779.D
Acq On : 6 Jan 2012 00:27
Operator : AIRPIANO2:MB
Sample : L1200006-01,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 12:06:01 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	142731	10.000	ppbV	0.00
Standard Area = 151117			Recovery =		94.45%	
43) 1,4-difluorobenzene	12.549	114	423793	10.000	ppbV	0.00
Standard Area = 485506			Recovery =		87.29%	
68) chlorobenzene-D5	16.908	54	81403	10.000	ppbV	0.00
Standard Area = 90670			Recovery =		89.78%	

System Monitoring Compounds

Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	13144M2	0.373	ppbV	
6) chloromethane	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.	d	
14) chloroethane	0.000		0	N.D.	d	
19) acetone	6.584	43	123667M4	8.387	ppbV	
21) trichlorofluoromethane	6.785	101	8192	0.227	ppbV	96
25) ethyl ether	0.000		0	N.D.	d	
26) 1,1-dichloroethene	7.612		0	N.D.		
28) methylene chloride	7.785	49	8703	0.583	ppbV	96
30) carbon disulfide	8.119	76	1432	0.041	ppbV #	1
32) trans-1,2-dichloroethene	8.957		0	N.D.		
33) 1,1-dichloroethane	9.186		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.699	43	25070	1.366	ppbV #	96
37) cis-1,2-dichloroethene	0.000		0	N.D.	d	
40) Tetrahydrofuran	0.000		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	11.350	62	1154	0.078	ppbV #	85
45) diisopropyl ether	0.000		0	N.D.	d	
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.325	117	1772	0.068	ppbV #	91
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	13.051	93	180M4	0.012	ppbV	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	13.304		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218779.D
Acq On : 6 Jan 2012 00:27
Operator : AIRPIANO2:MB
Sample : L1200006-01,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 12:06:01 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

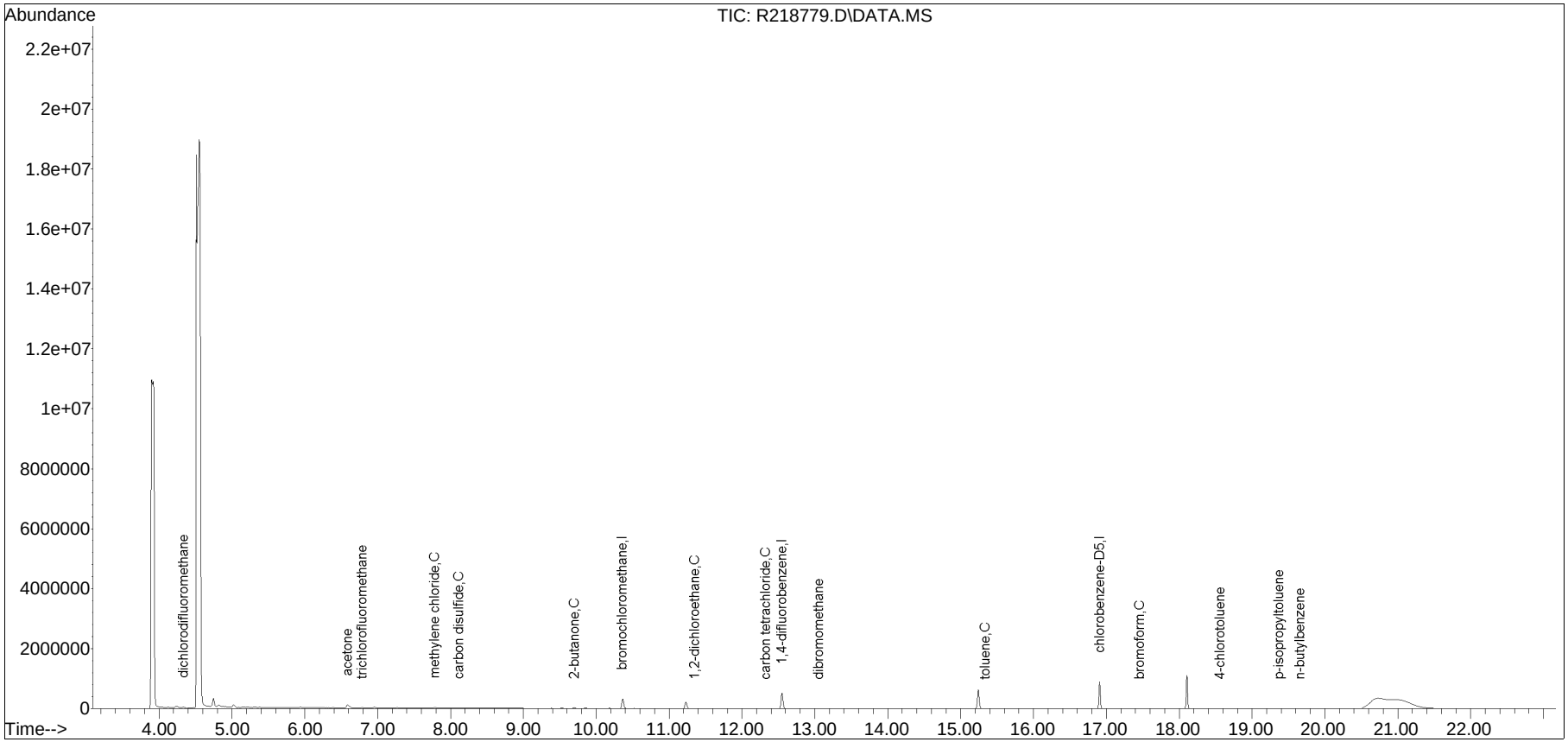
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64)	4-methyl-2-pentanone	14.417		0	N.D.		
66)	trans-1,3-dichloropropene	0.000		0	N.D.		
67)	1,1,2-trichloroethane	0.000		0	N.D.		
69)	toluene	15.341	91	4811	0.146	ppbV	100
72)	1,3-dichloropropane	0.000		0	N.D.	d	
73)	2-hexanone	0.000		0	N.D.	d	
75)	dibromochloromethane	15.752		0	N.D.		
76)	1,2-dibromoethane	0.000		0	N.D.		
80)	1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81)	chlorobenzene	0.000		0	N.D.		
82)	ethylbenzene	17.243		0	N.D.		
84)	m+p-xylene	17.365		0	N.D.		
85)	bromoform	17.461	173	3295	0.147	ppbV	93
86)	styrene	0.000		0	N.D.		
87)	1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88)	o-xylene	17.751		0	N.D.		
89)	1,2,3-trichloropropane	0.000		0	N.D.		
92)	isopropylbenzene	0.000		0	N.D.	d	
93)	bromobenzene	0.000		0	N.D.	d	
94)	2-chlorotoluene	0.000		0	N.D.		
95)	n-propylbenzene	0.000		0	N.D.		
96)	4-chlorotoluene	18.562	91	316M4	0.010	ppbV	
98)	1,3,5-trimethylbenzene	18.736		0	N.D.		
99)	tert-butylbenzene	0.000		0	N.D.		
100)	1,2,4-trimethylbenzene	19.050		0	N.D.		
103)	1,3-dichlorobenzene	0.000		0	N.D.		
104)	1,4-dichlorobenzene	0.000		0	N.D.		
105)	sec-butylbenzene	0.000		0	N.D.		
107)	p-isopropyltoluene	19.369	119	35	0.001	ppbV #	49
108)	1,2-dichlorobenzene	0.000		0	N.D.		
109)	n-butylbenzene	19.657	91	31	0.001	ppbV #	49
112)	1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116)	1,2,4-trichlorobenzene	0.000		0	N.D.		
117)	naphthalene	21.071		0	N.D.		
118)	1,2,3-trichlorobenzene	0.000		0	N.D.		
120)	hexachlorobutadiene	0.000		0	N.D.		

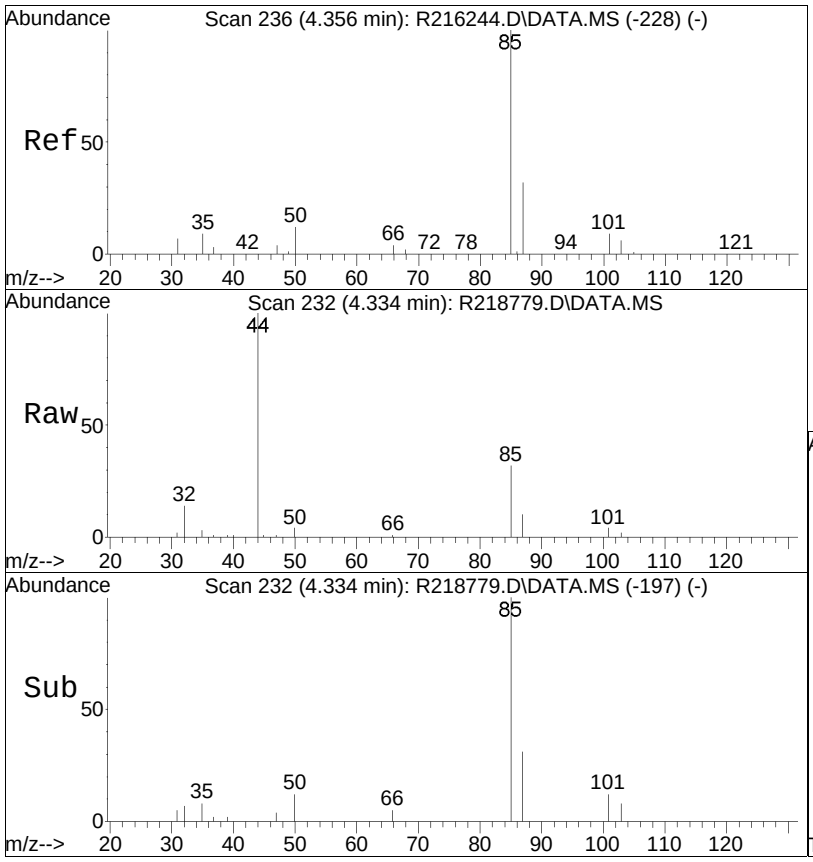
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218779.D
Acq On : 6 Jan 2012 00:27
Operator : AIRPIANO2:MB
Sample : L1200006-01,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 12:06:01 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

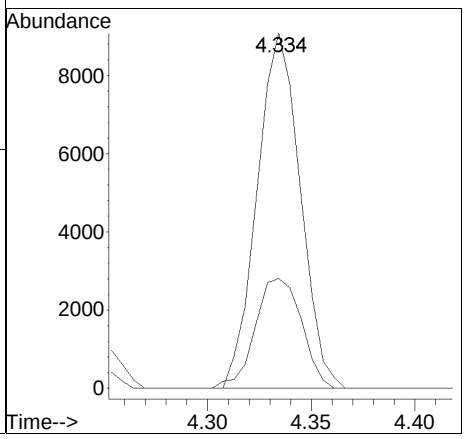


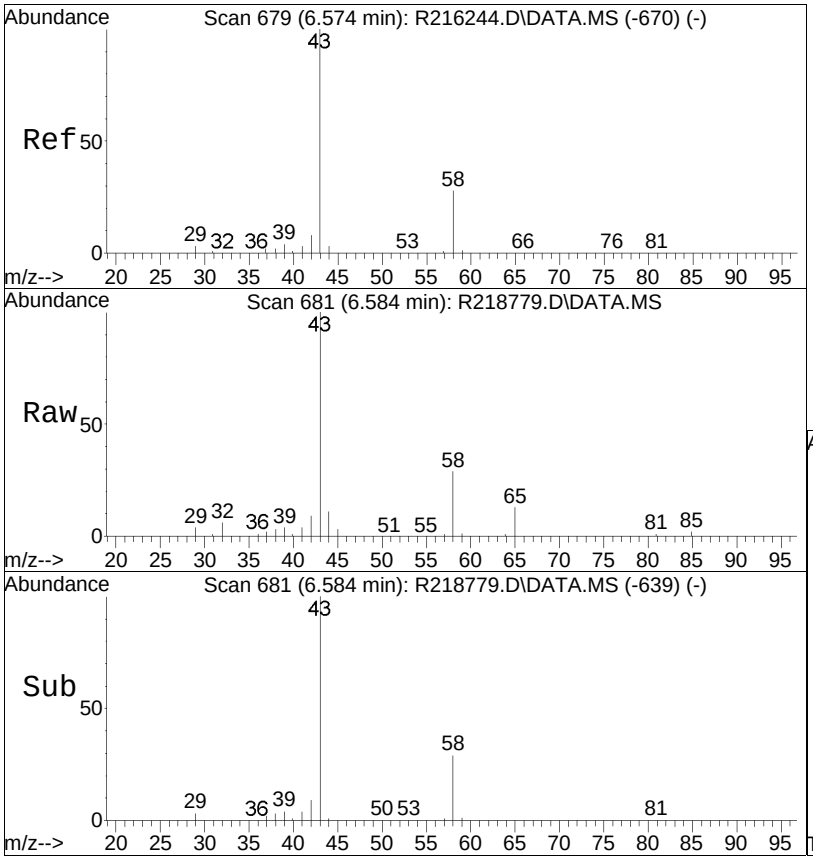


#5
dichlorodifluoromethane
Concen: 0.37 ppbV m
RT: 4.334 min Scan# 232
Delta R.T. -0.011 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 85 Resp: 13144

Ion	Ratio	Lower	Upper
85	100		
87	30.9	26.4	39.6

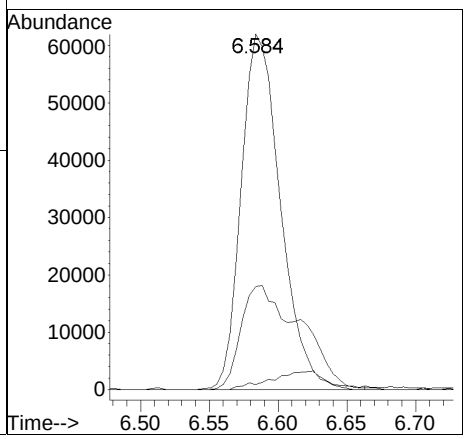


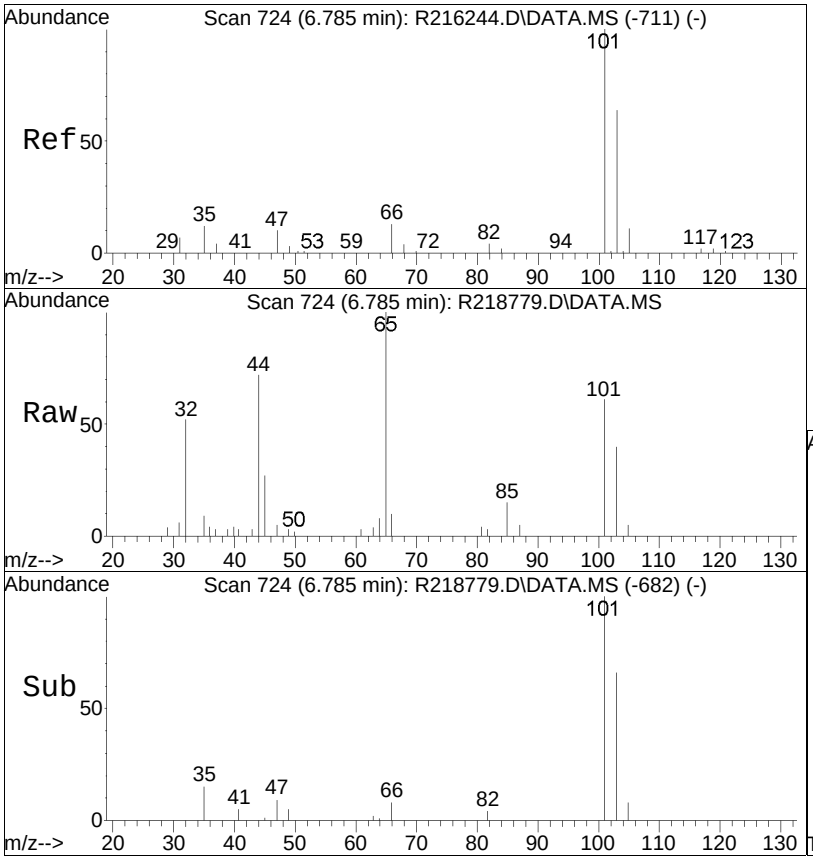


#19
acetone
Concen: 8.39 ppbV m
RT: 6.584 min Scan# 681
Delta R.T. 0.009 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 43 Resp: 123667

Ion	Ratio	Lower	Upper
43	100		
58	28.9	22.2	33.2
57	1.4	0.9	1.3#

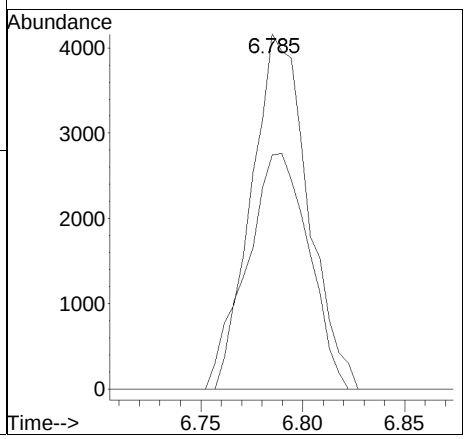


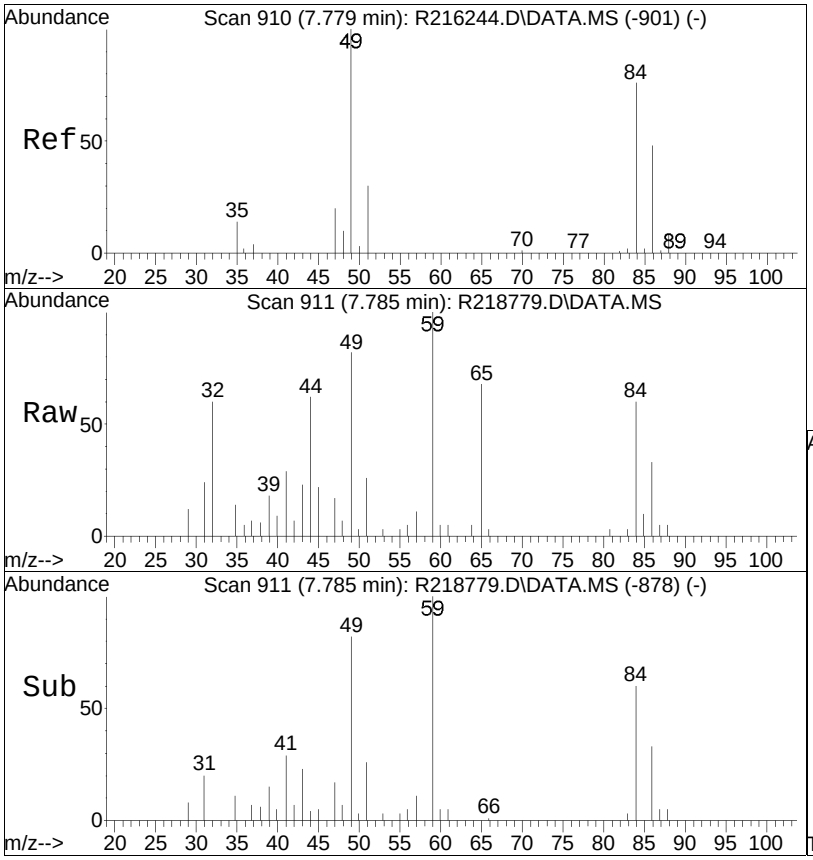


#21
trichlorofluoromethane
Concen: 0.23 ppbV
RT: 6.785 min Scan# 724
Delta R.T. -0.005 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion:101 Resp: 8192

Ion	Ratio	Lower	Upper
101	100		
103	65.9	50.2	75.2

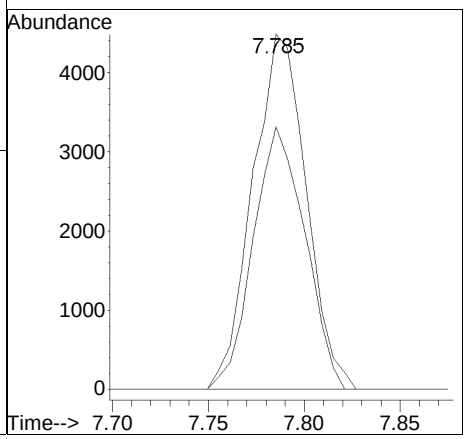


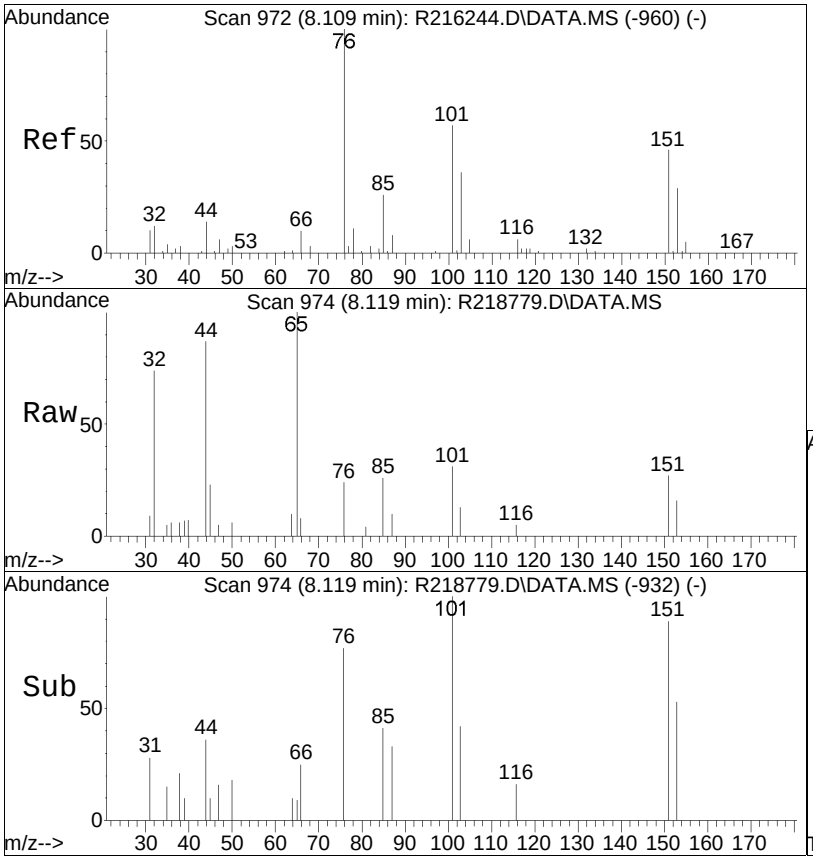


#28
methylene chloride
Concen: 0.58 ppbV
RT: 7.785 min Scan# 911
Delta R.T. -0.006 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 49 Resp: 8703

Ion	Ratio	Lower	Upper
49	100		
84	73.9	56.6	84.8

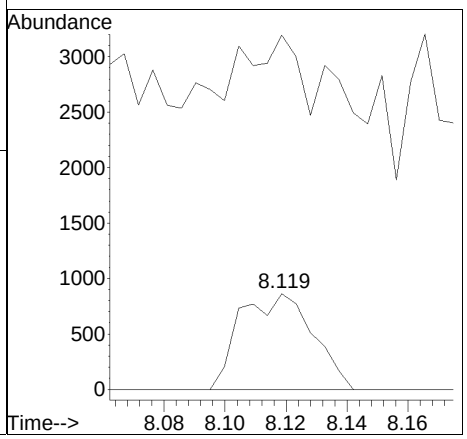


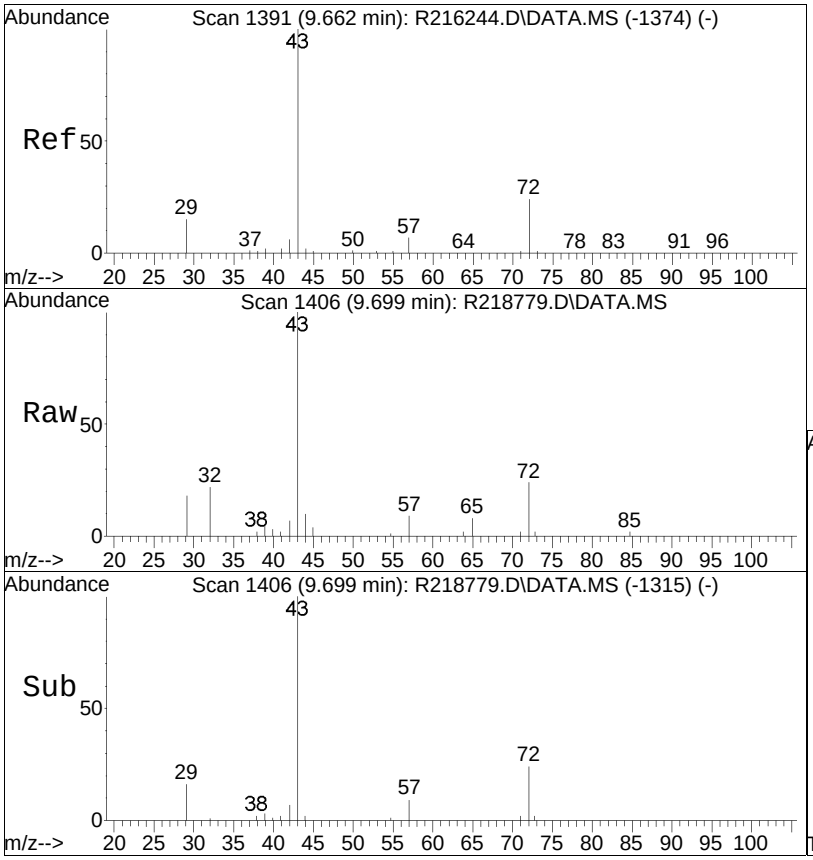


#30
carbon disulfide
Concen: 0.04 ppbV
RT: 8.119 min Scan# 974
Delta R.T. 0.000 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 76 Resp: 1432

Ion	Ratio	Lower	Upper
76	100		
44	370.1	12.2	18.4#

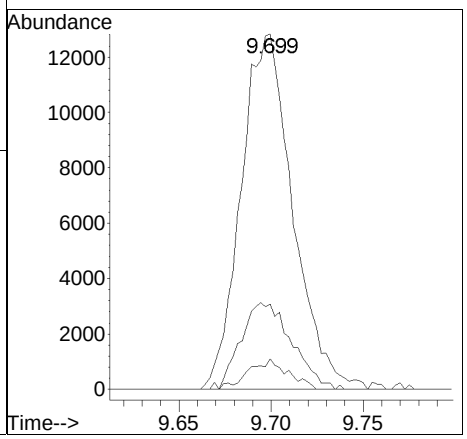


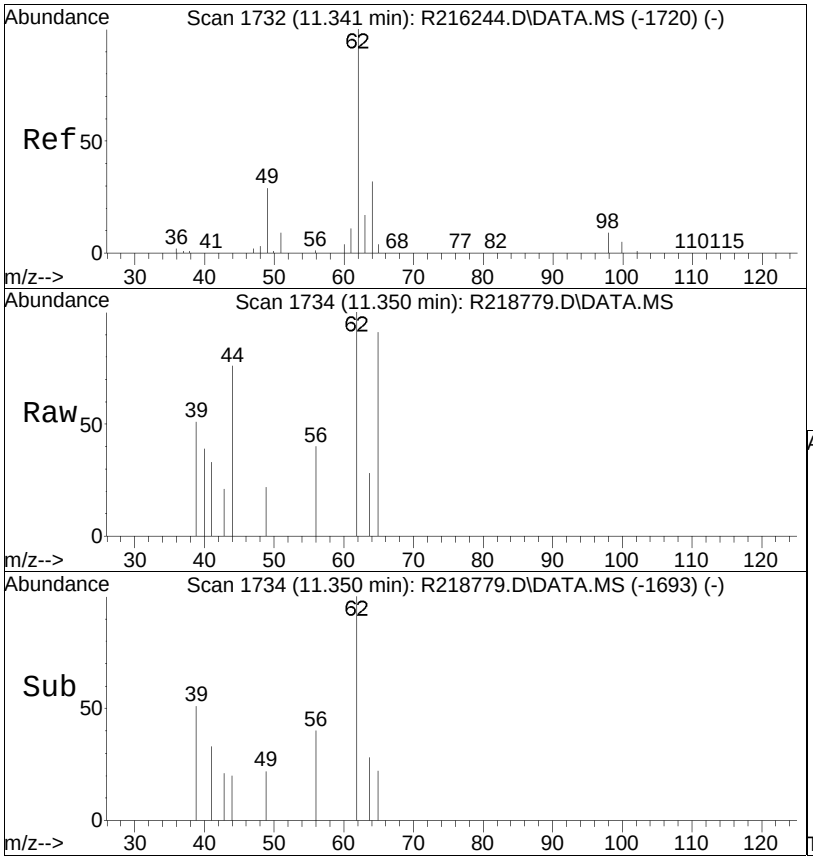


#36
2-butanone
Concen: 1.37 ppbV
RT: 9.699 min Scan# 1406
Delta R.T. 0.030 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 43 Resp: 25070

Ion	Ratio	Lower	Upper
43	100		
72	24.0	17.6	26.4
57	8.6	5.6	8.4#

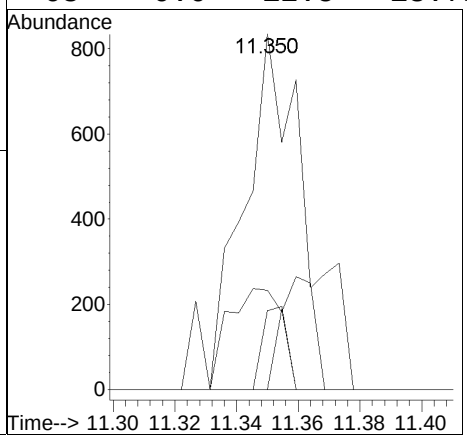


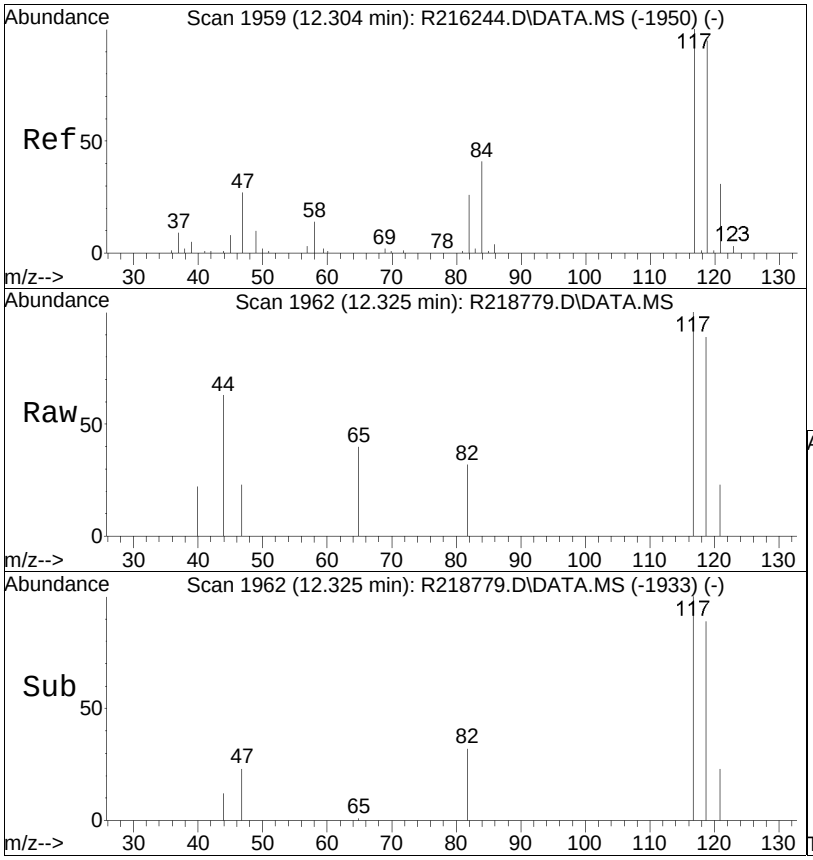


#42
1,2-dichloroethane
Concen: 0.08 ppbV
RT: 11.350 min Scan# 1734
Delta R.T. -0.009 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 62 Resp: 1154

Ion	Ratio	Lower	Upper
62	100		
64	27.9	24.4	36.6
49	22.2	23.3	34.9#
63	0.0	12.5	18.7#

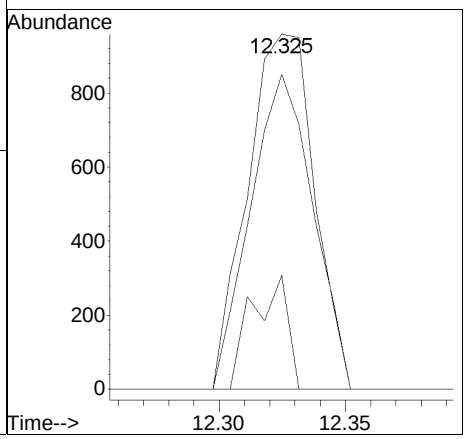


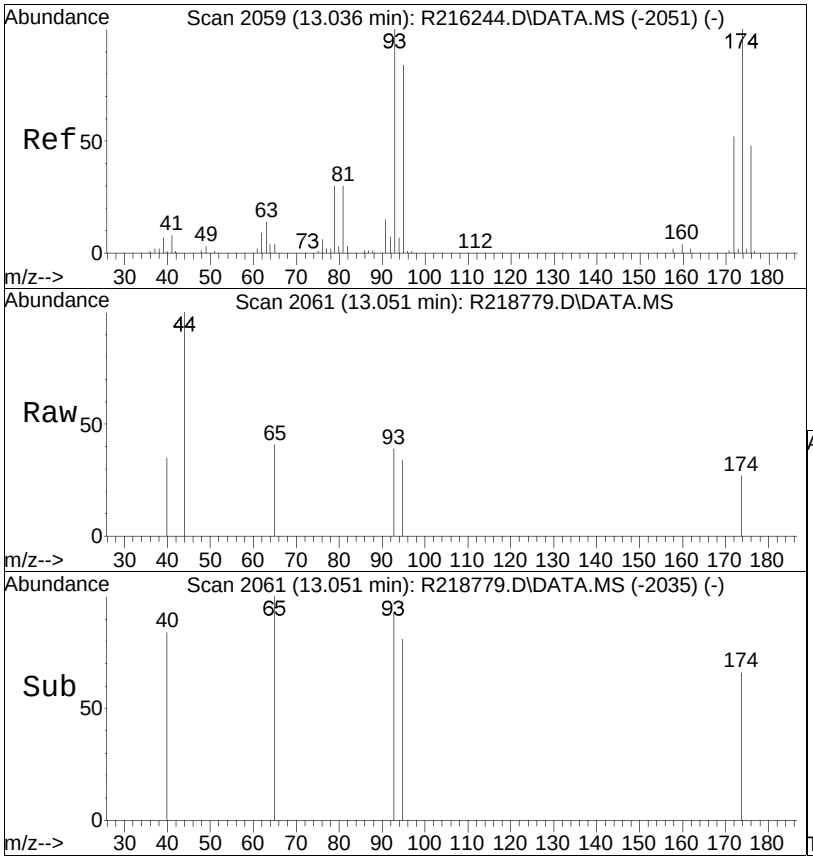


#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 12.325 min Scan# 1962
Delta R.T. 0.000 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion:117 Resp: 1772

Ion	Ratio	Lower	Upper
117	100		
119	88.6	76.8	115.2
82	32.0	19.4	29.0#

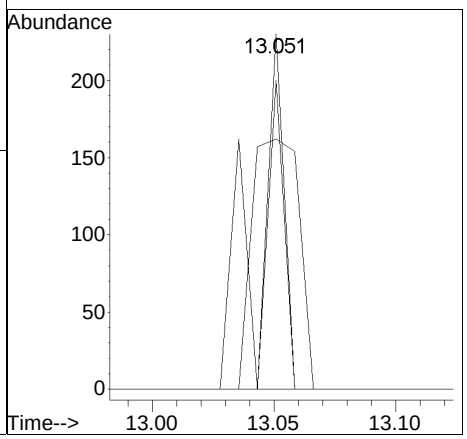


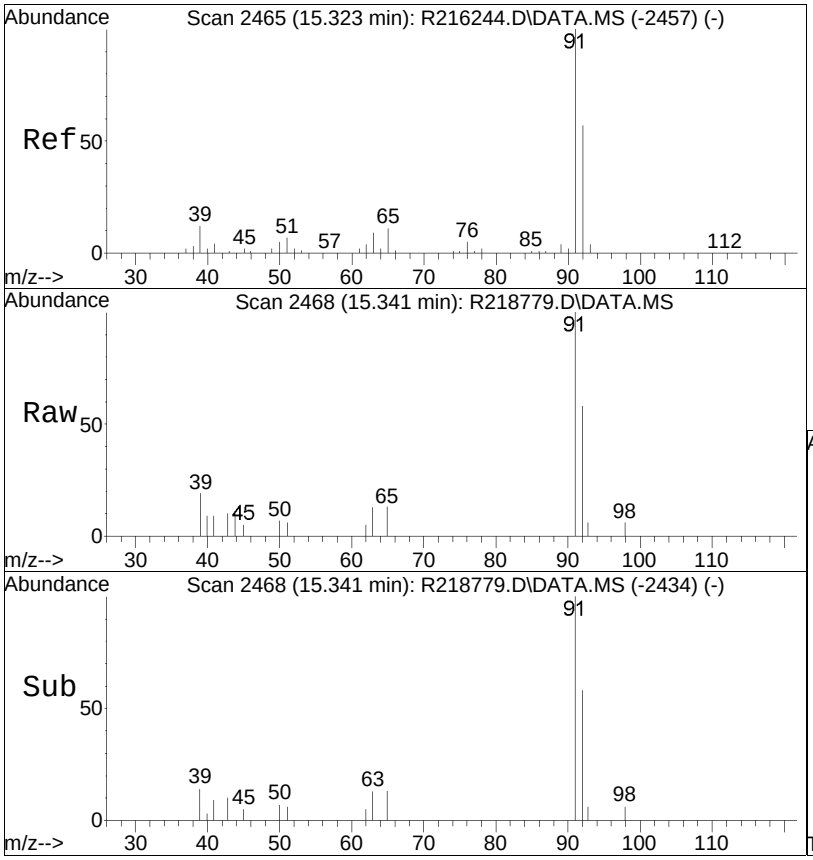


#55
dibromomethane
Concen: 0.01 ppbV m
RT: 13.051 min Scan# 2061
Delta R.T. 0.000 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 93 Resp: 180

Ion	Ratio	Lower	Upper
93	100		
174	70.4	79.0	118.4#
95	87.0	68.4	102.6

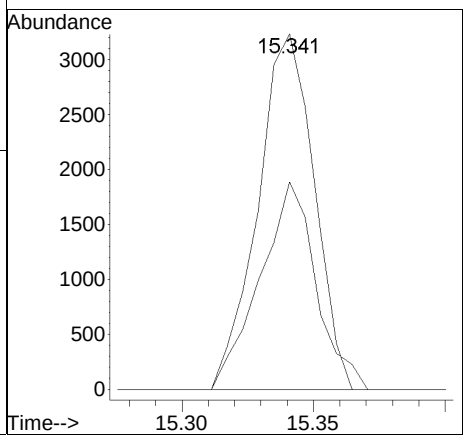


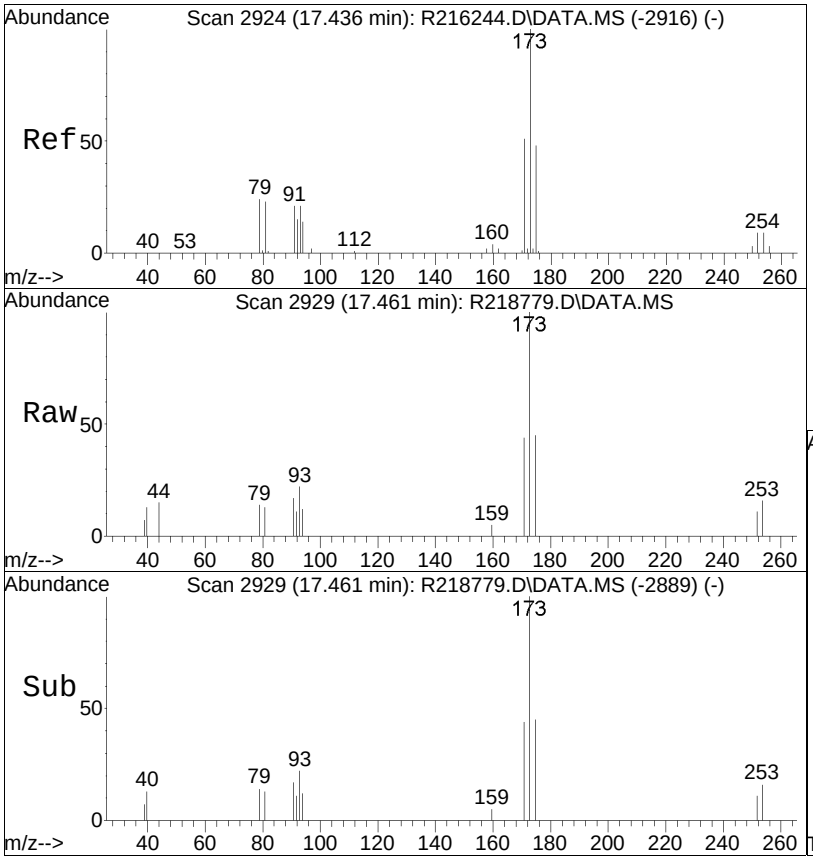


#69
toluene
Concen: 0.15 ppbV
RT: 15.341 min Scan# 2468
Delta R.T. 0.000 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 91 Resp: 4811

Ion	Ratio	Lower	Upper
91	100		
92	58.4	47.0	70.4

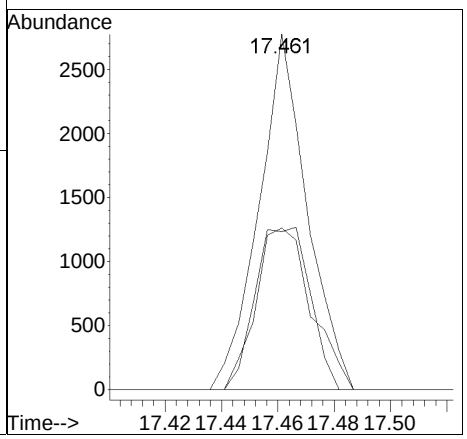


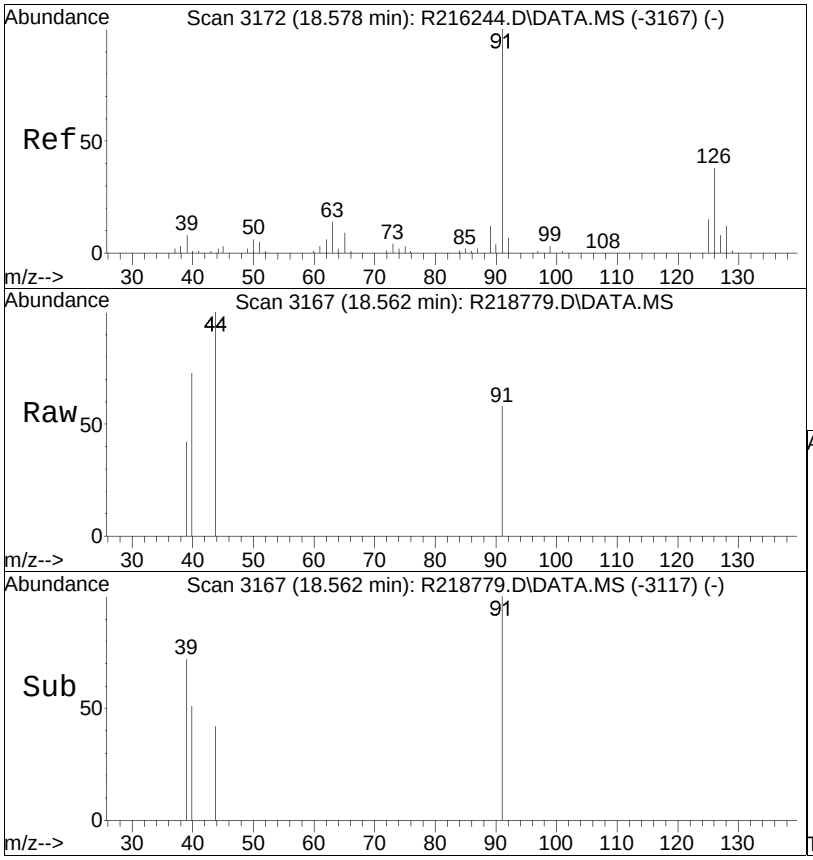


#85
bromoform
Concen: 0.15 ppbV
RT: 17.461 min Scan# 2929
Delta R.T. 0.005 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion:173 Resp: 3295

Ion	Ratio	Lower	Upper
173	100		
175	45.4	38.6	57.8
171	44.4	41.2	61.8

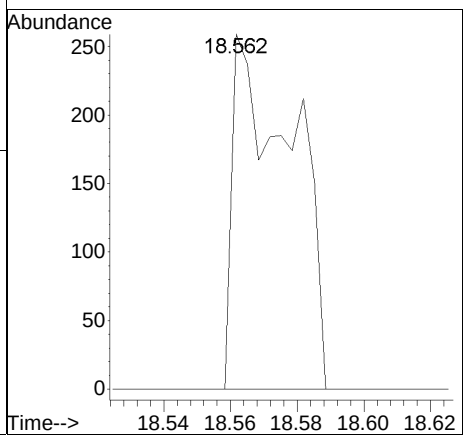


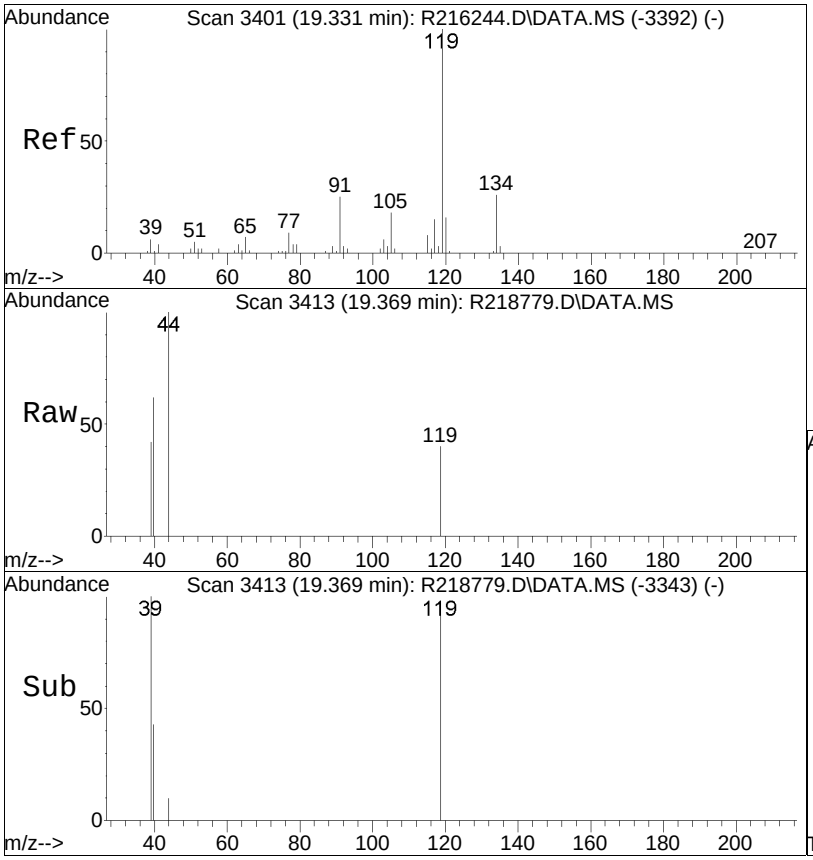


#96
4-chlorotoluene
Concen: 0.01 ppbV m
RT: 18.562 min Scan# 3167
Delta R.T. -0.033 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 91 Resp: 316

Ion	Ratio	Lower	Upper
91	100		
126	0.0	28.2	42.2#

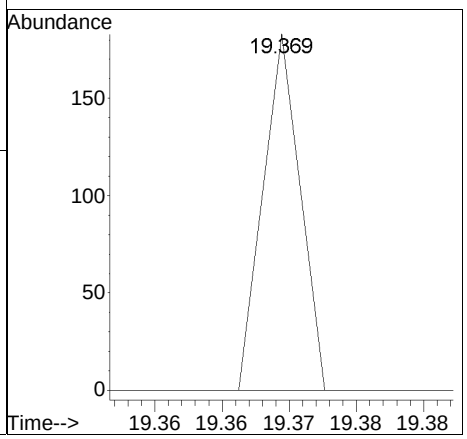


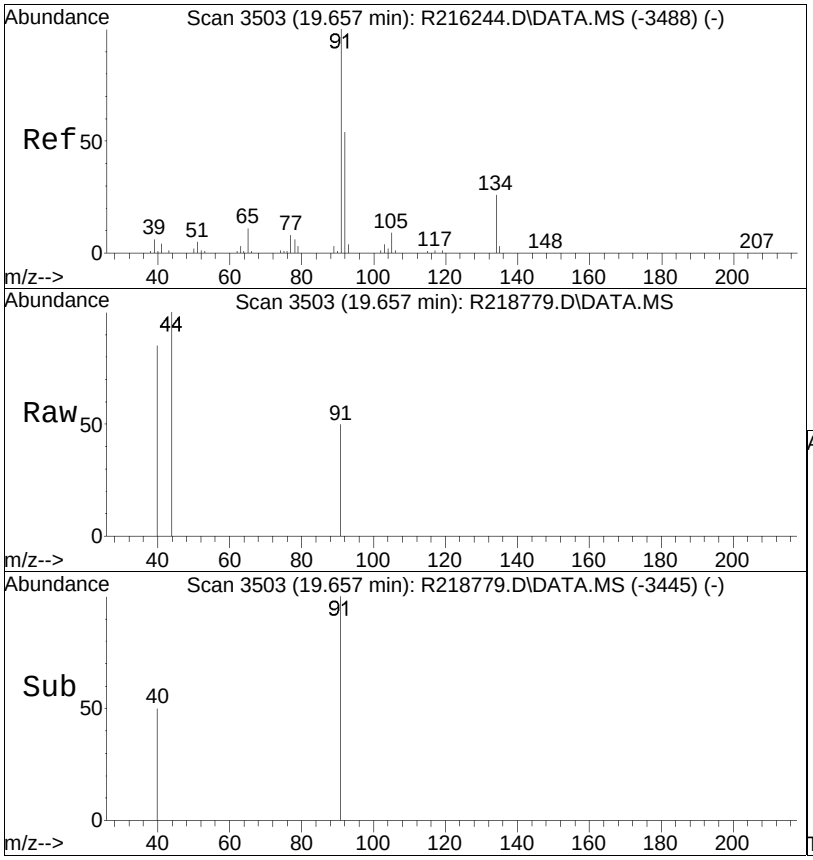


#107
p-isopropyltoluene
Concen: 0.00 ppbV
RT: 19.369 min Scan# 3413
Delta R.T. 0.022 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion:119 Resp: 35

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

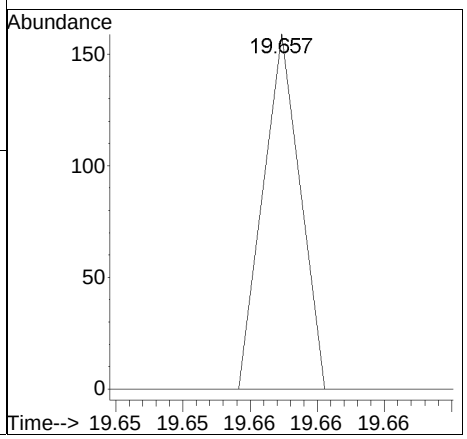




#109
n-butylbenzene
Concen: 0.00 ppbV
RT: 19.657 min Scan# 3503
Delta R.T. -0.016 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 91 Resp: 31

Ion	Ratio	Lower	Upper
91	100		
134	0.0	20.9	31.3#

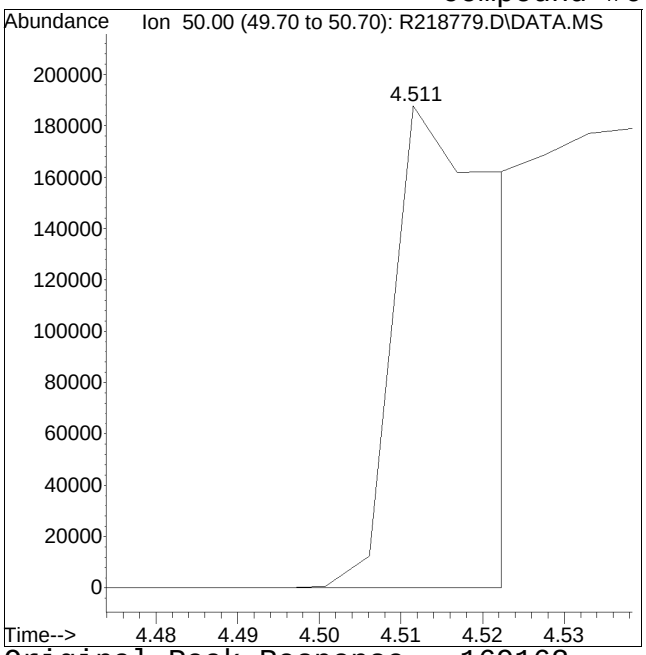


Manual Integration/Negative Proof Report

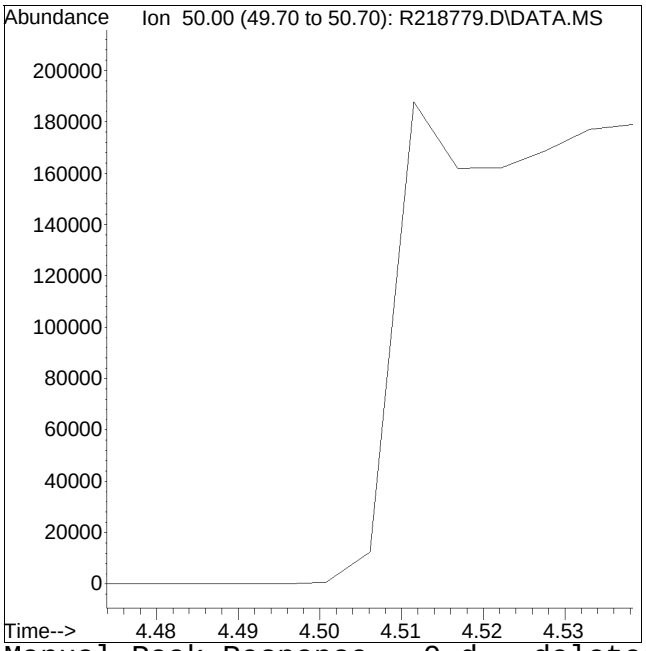
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #6: chloromethane



Original Peak Response = 169162



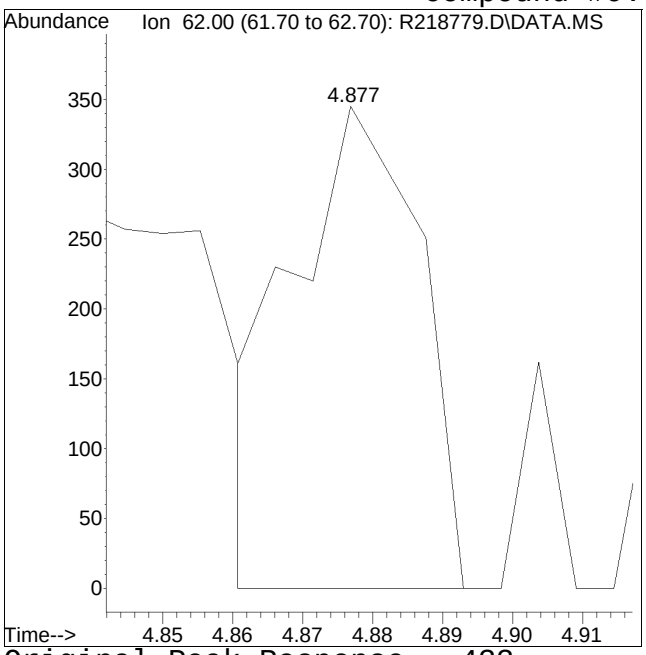
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

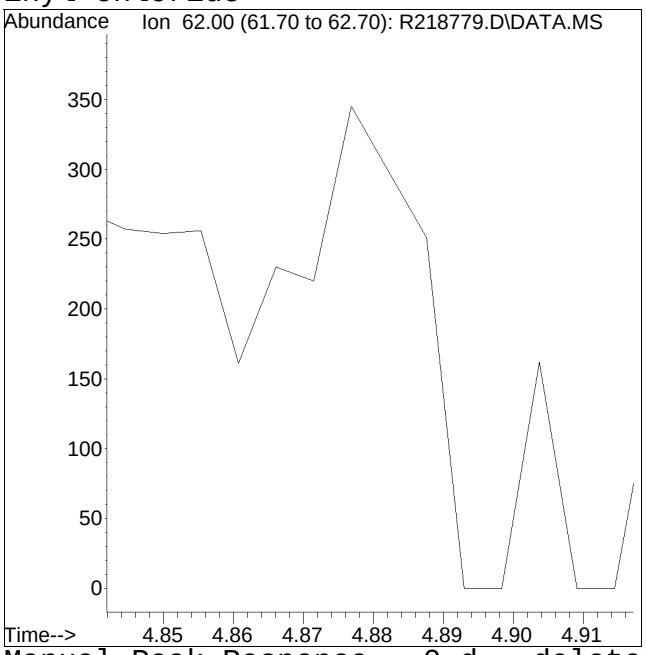
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #9: vinyl chloride



Original Peak Response = 433



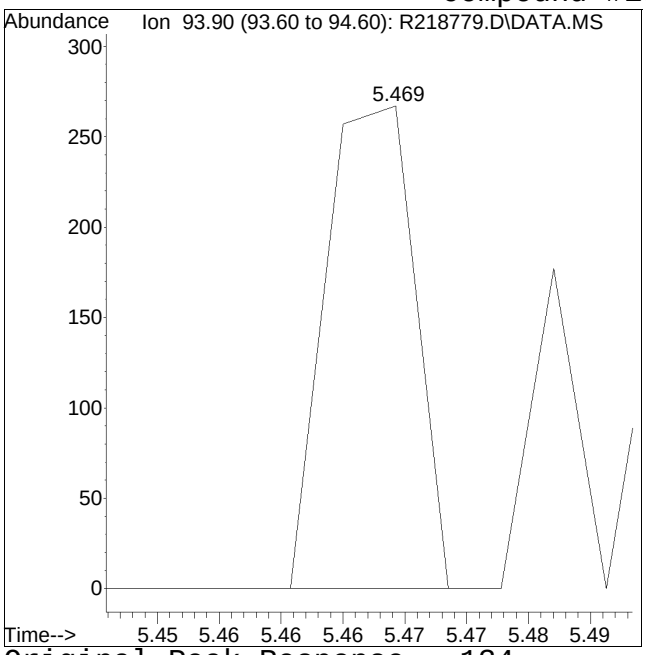
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

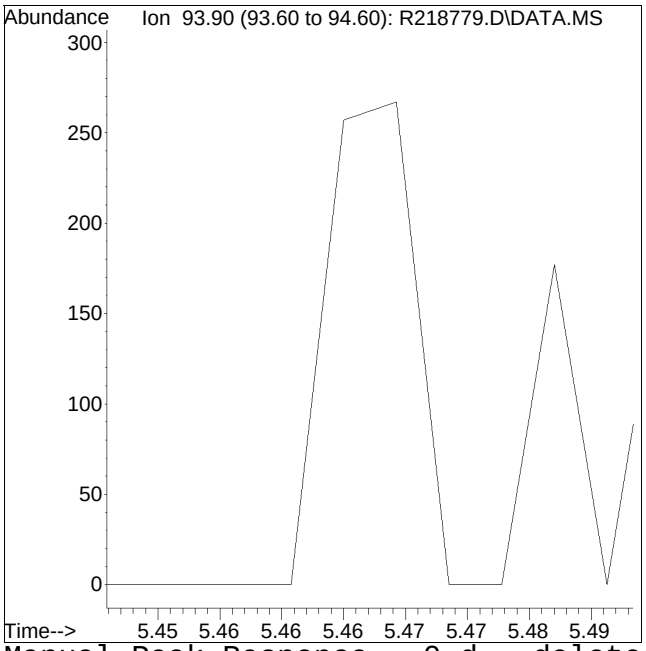
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #13: bromomethane



Original Peak Response = 134



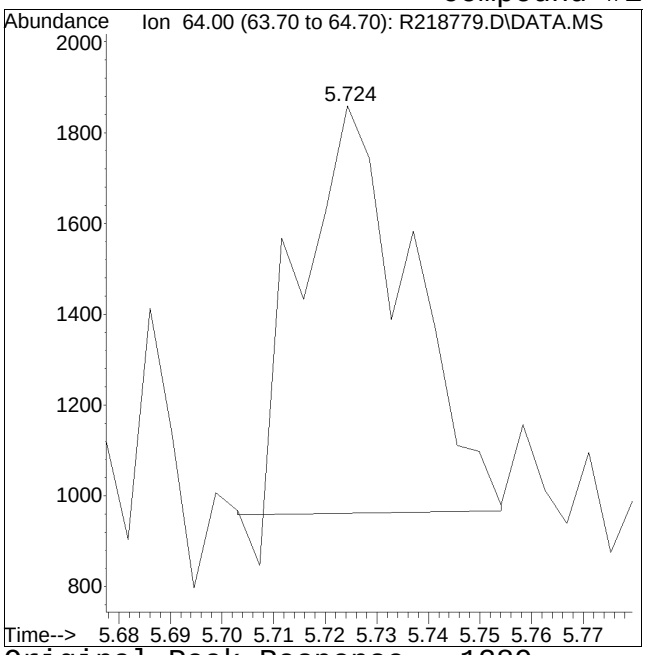
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

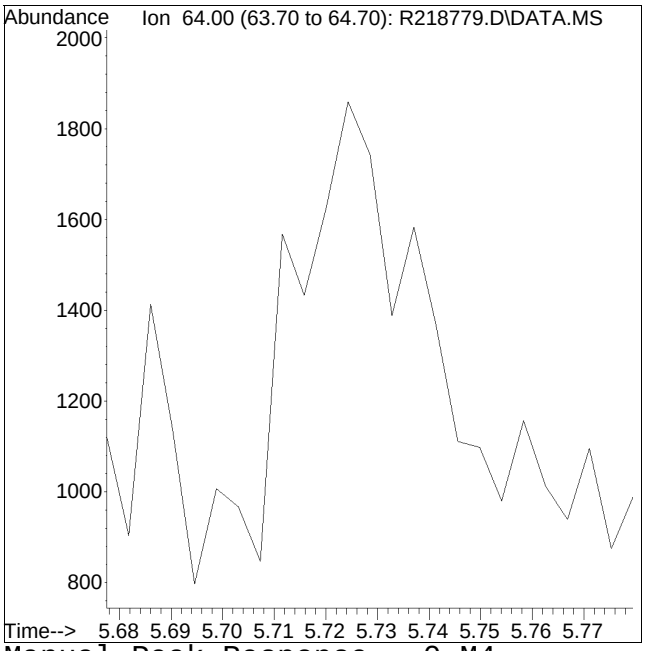
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #14: chloroethane



Original Peak Response = 1289



Manual Peak Response = 0 M4

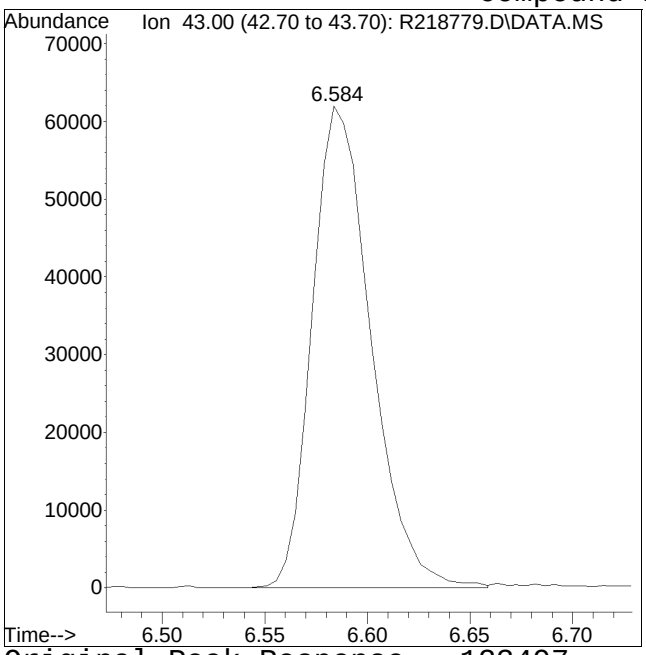
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

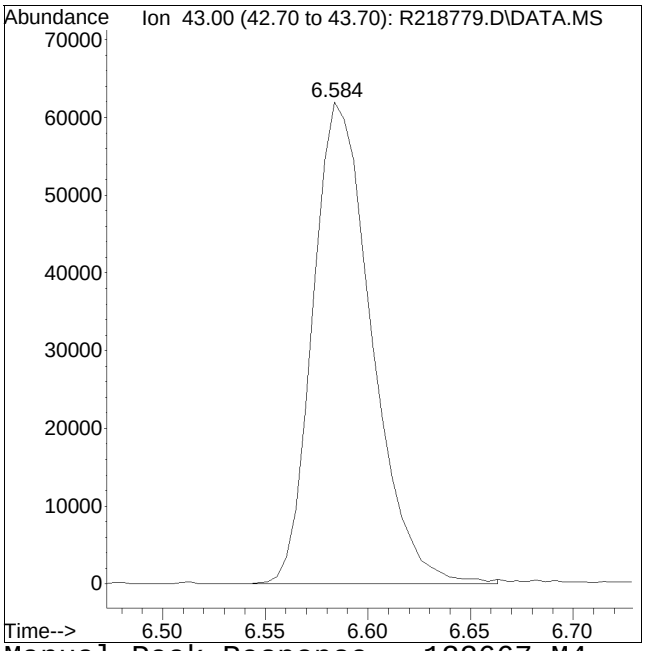
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #19: acetone



Original Peak Response = 123497



Manual Peak Response = 123667 M4

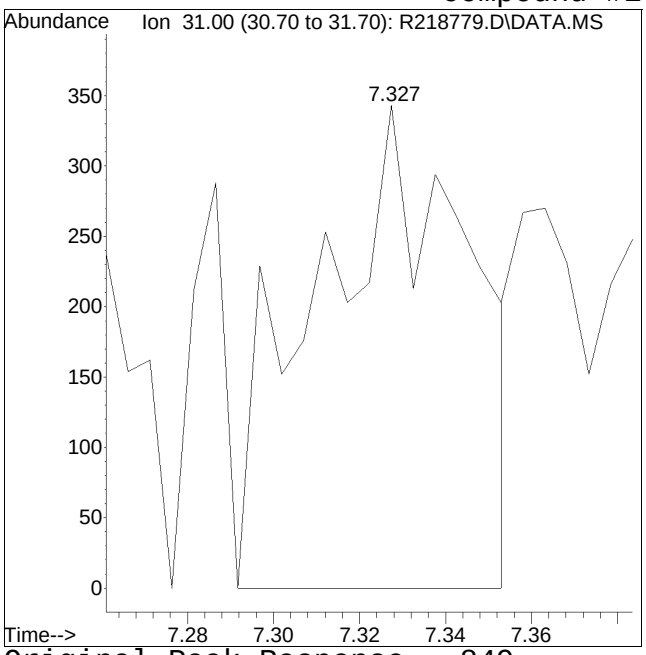
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

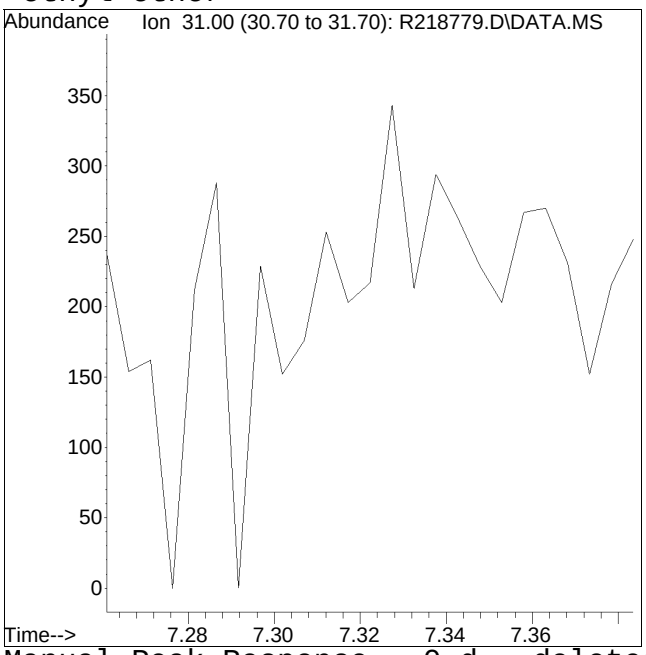
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #25: ethyl ether



Original Peak Response = 849



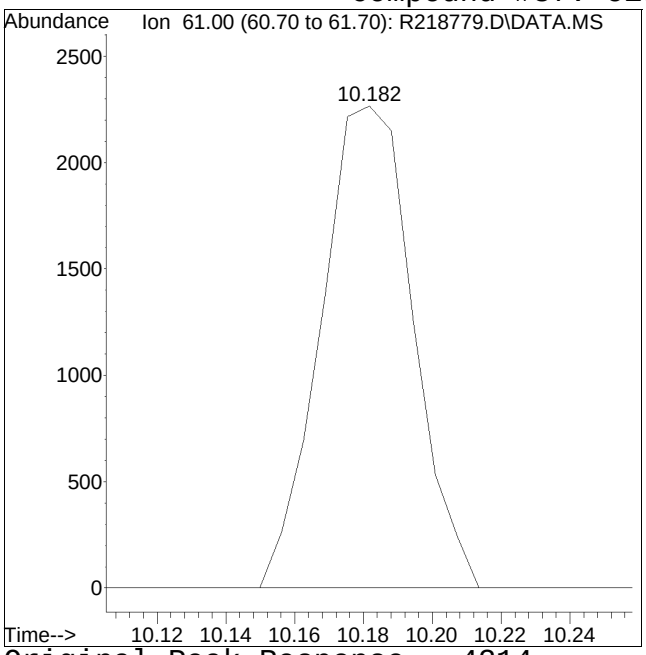
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

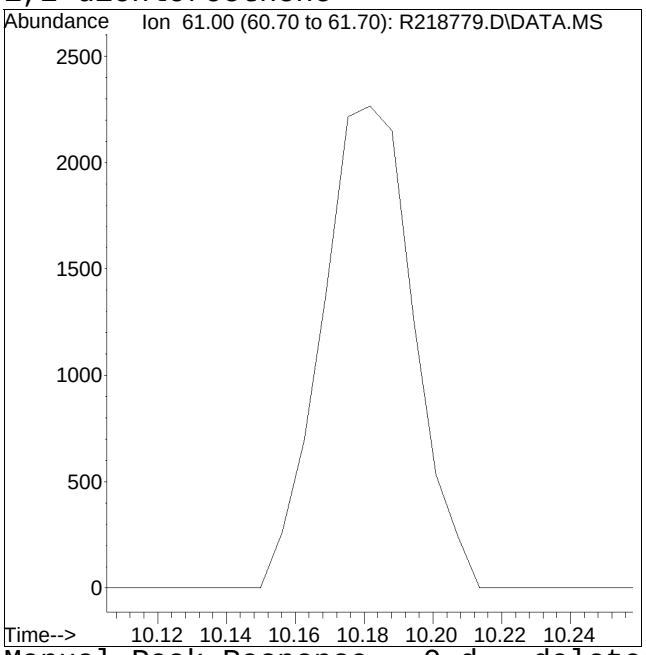
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #37: cis-1,2-dichloroethene



Original Peak Response = 4214



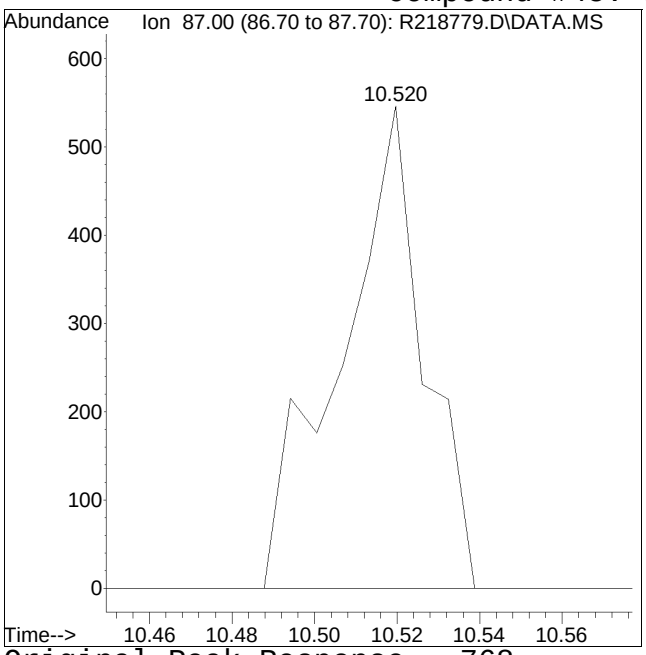
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

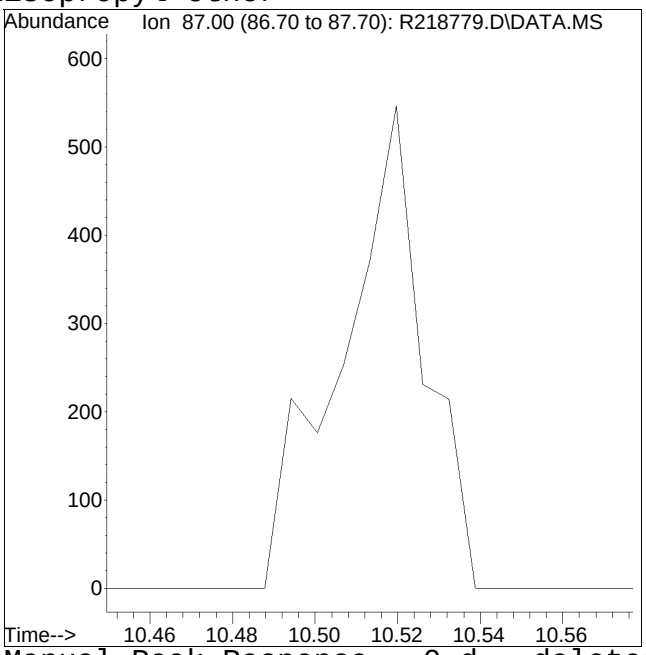
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #45: diisopropyl ether



Original Peak Response = 768



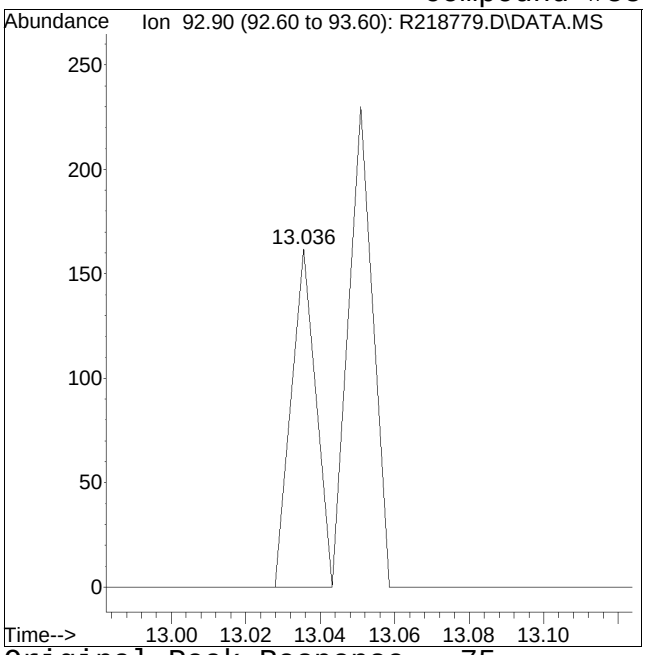
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

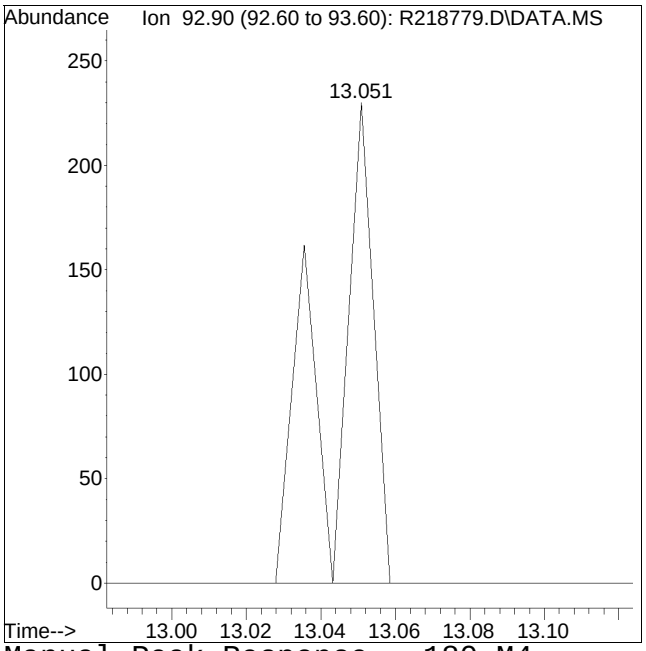
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #55: dibromomethane



Original Peak Response = 75



Manual Peak Response = 180 M4

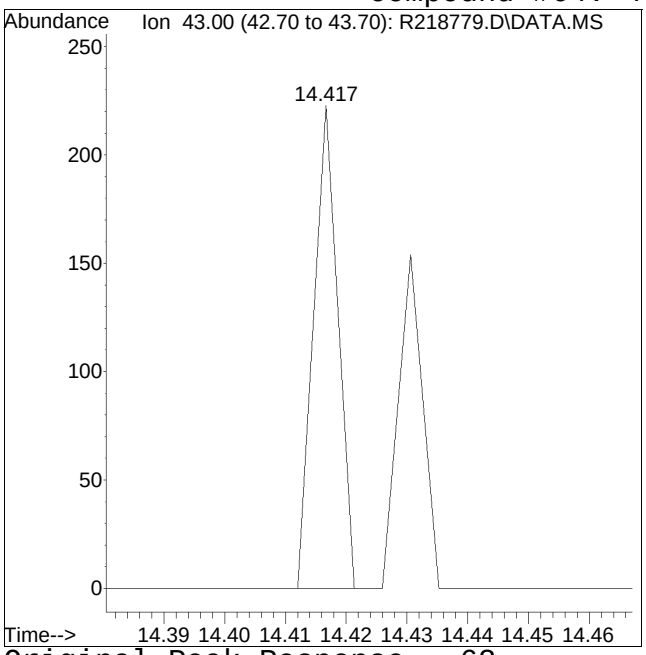
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

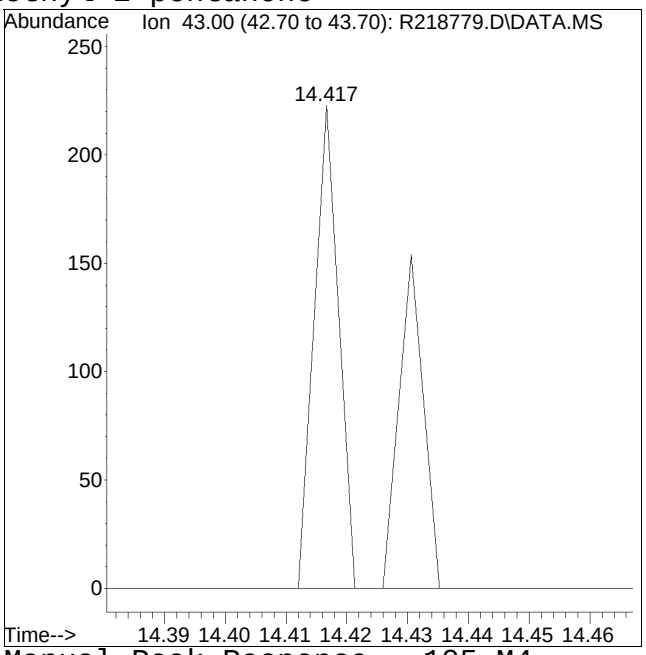
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 62



Manual Peak Response = 105 M4

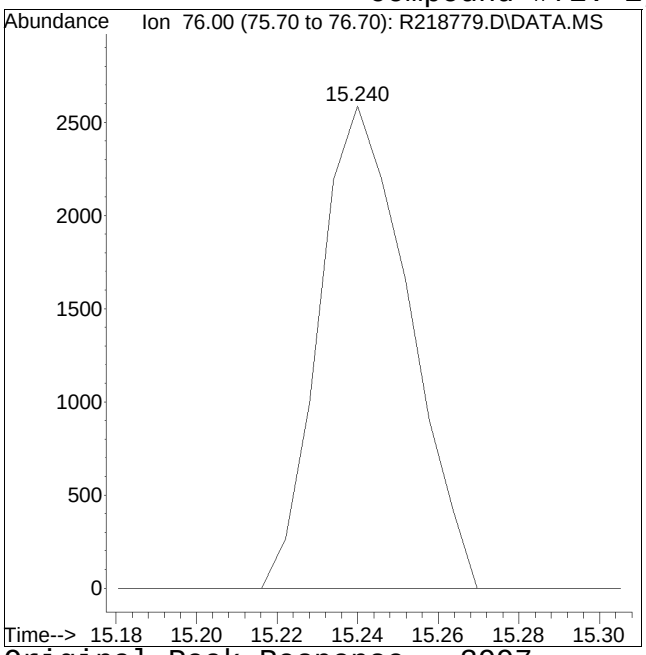
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

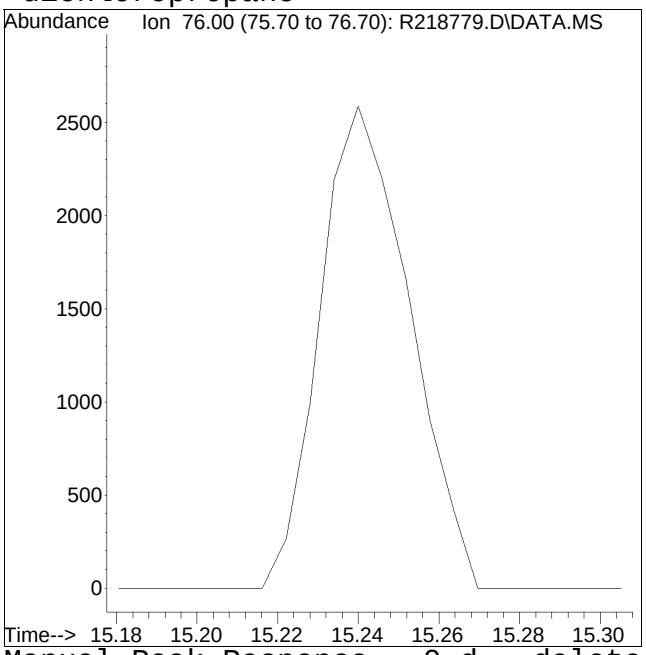
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 3997



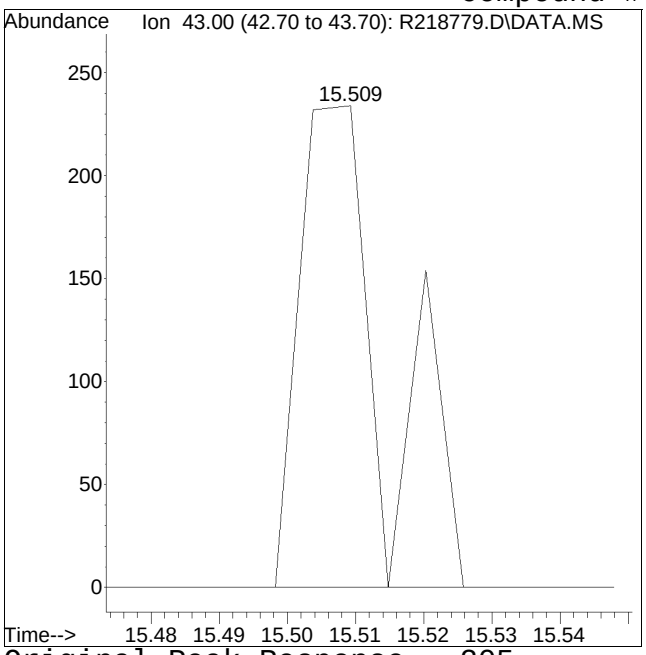
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

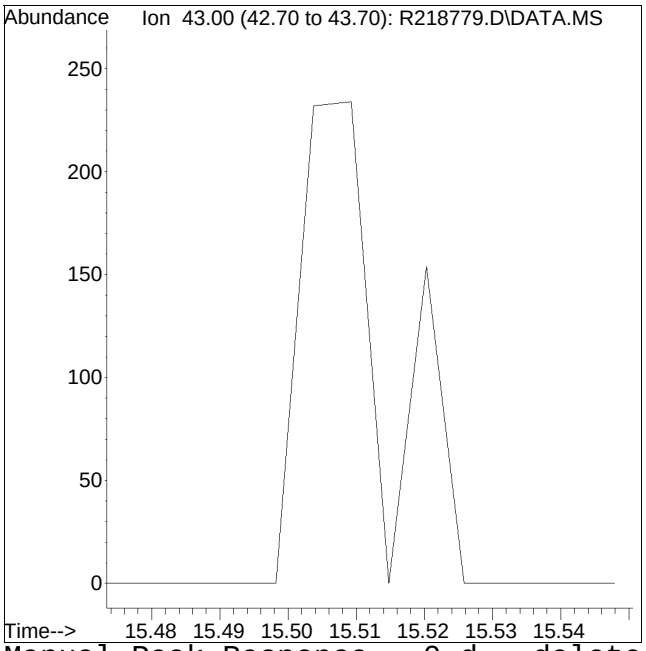
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #73: 2-hexanone



Original Peak Response = 205



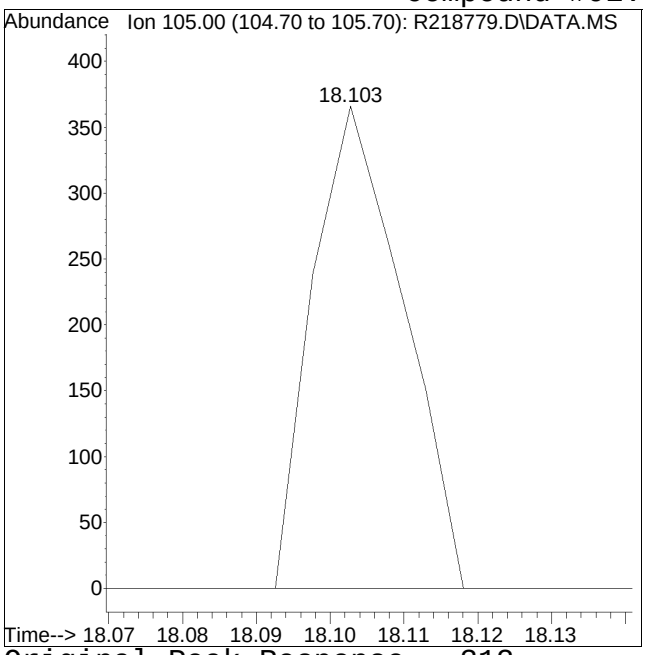
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

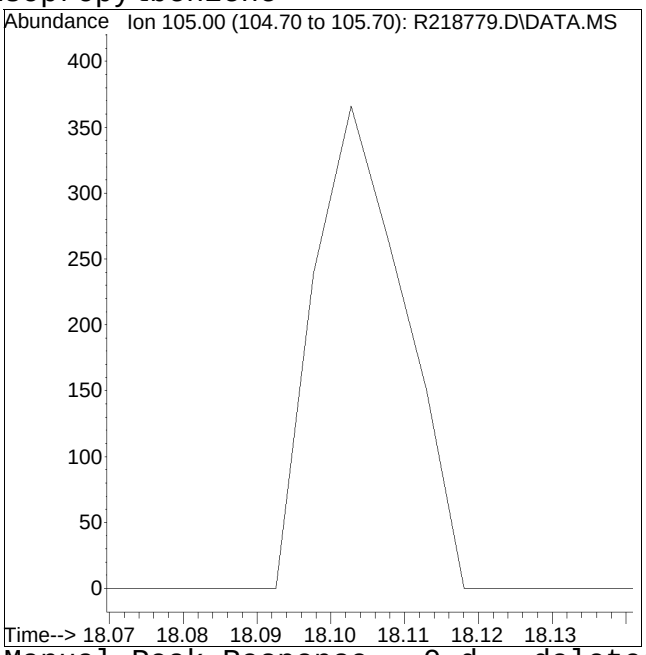
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #92: isopropylbenzene



Original Peak Response = 312



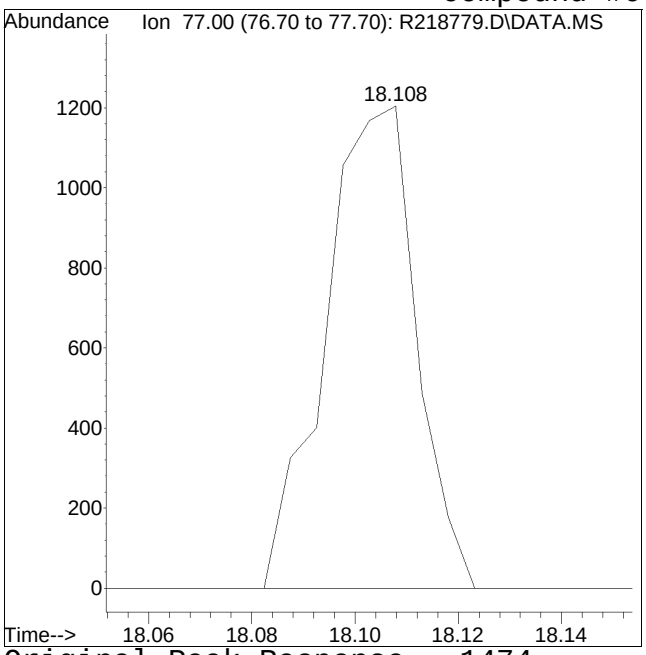
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

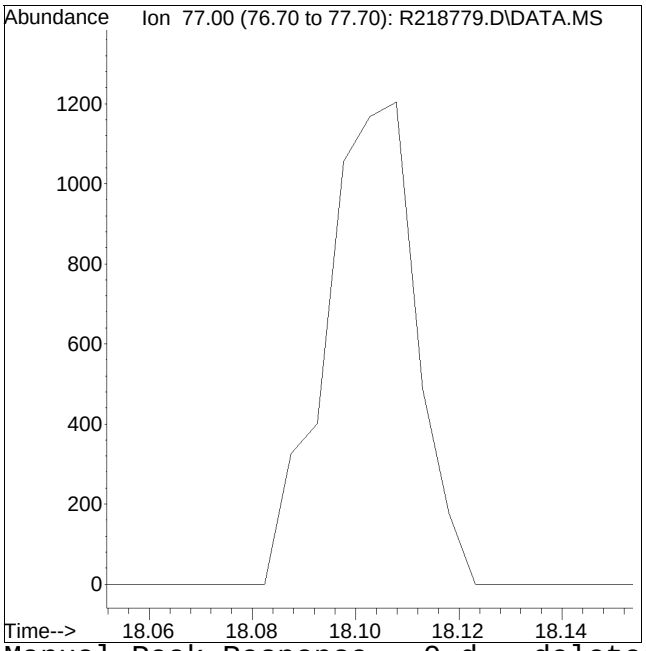
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #93: bromobenzene



Original Peak Response = 1474



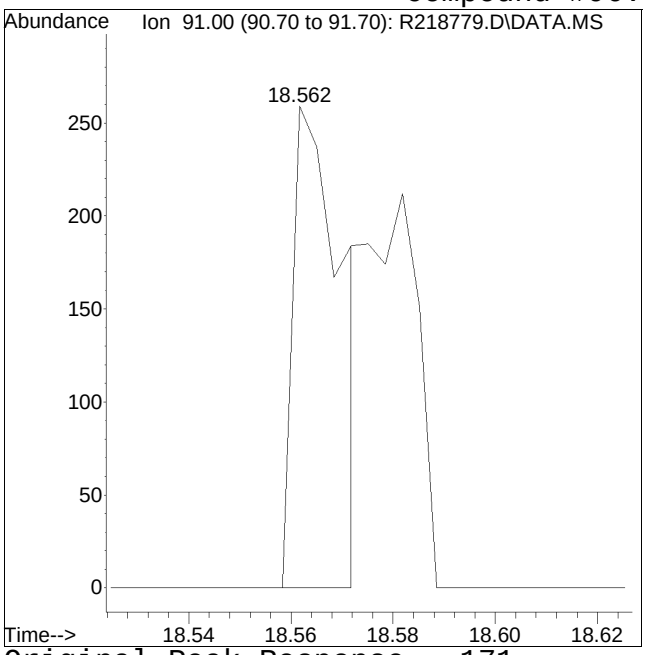
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

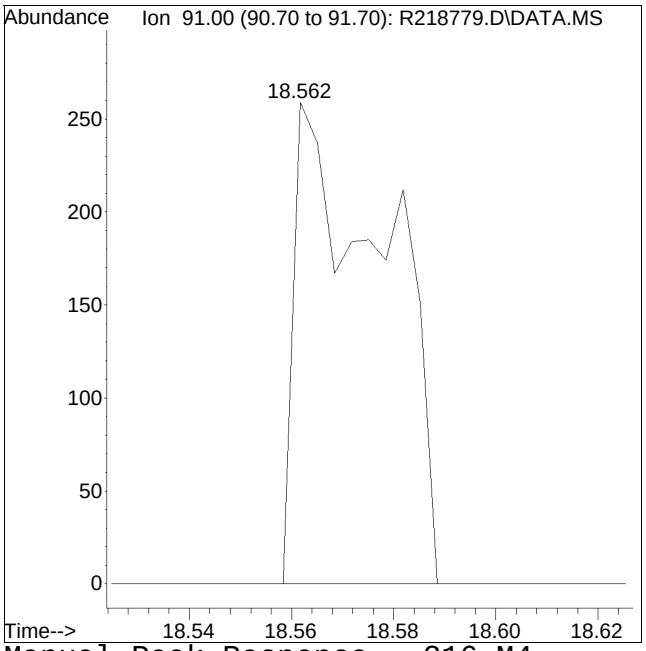
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #96: 4-chlorotoluene



Original Peak Response = 171



Manual Peak Response = 316 M4

M4 = Poor automated baseline construction.

Duplicate Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218780.D
Acq On : 6 Jan 2012 1:03
Operator : AIRPIANO2:MB
Sample : WG511601-5,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 12:06:43 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	141133	10.000	ppbV	0.00
Standard Area = 151117			Recovery =		93.39%	
43) 1,4-difluorobenzene	12.549	114	416663	10.000	ppbV	0.00
Standard Area = 485506			Recovery =		85.82%	
68) chlorobenzene-D5	16.908	54	80602	10.000	ppbV	0.00
Standard Area = 90670			Recovery =		88.90%	

System Monitoring Compounds

Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	13433M2	0.386	ppbV	
6) chloromethane	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.	d	
14) chloroethane	0.000		0	N.D.	d	
19) acetone	6.583	43	122684M4	8.415	ppbV	
21) trichlorofluoromethane	6.789	101	8481	0.238	ppbV	98
25) ethyl ether	0.000		0	N.D.	d	
26) 1,1-dichloroethene	0.000		0	N.D.	d	
28) methylene chloride	7.791	49	8594	0.582	ppbV	97
30) carbon disulfide	8.123	76	1676	0.049	ppbV #	1
32) trans-1,2-dichloroethene	8.945		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.	d	
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.694	43	24740	1.363	ppbV	97
37) cis-1,2-dichloroethene	0.000		0	N.D.	d	
40) Tetrahydrofuran	0.000		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	11.350	62	945	0.065	ppbV #	87
45) diisopropyl ether	0.000		0	N.D.	d	
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	11.640		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.318	117	1842	0.072	ppbV #	90
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	13.058	93	153	0.010	ppbV #	3
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	13.296		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218780.D
Acq On : 6 Jan 2012 1:03
Operator : AIRPIANO2:MB
Sample : WG511601-5,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 12:06:43 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

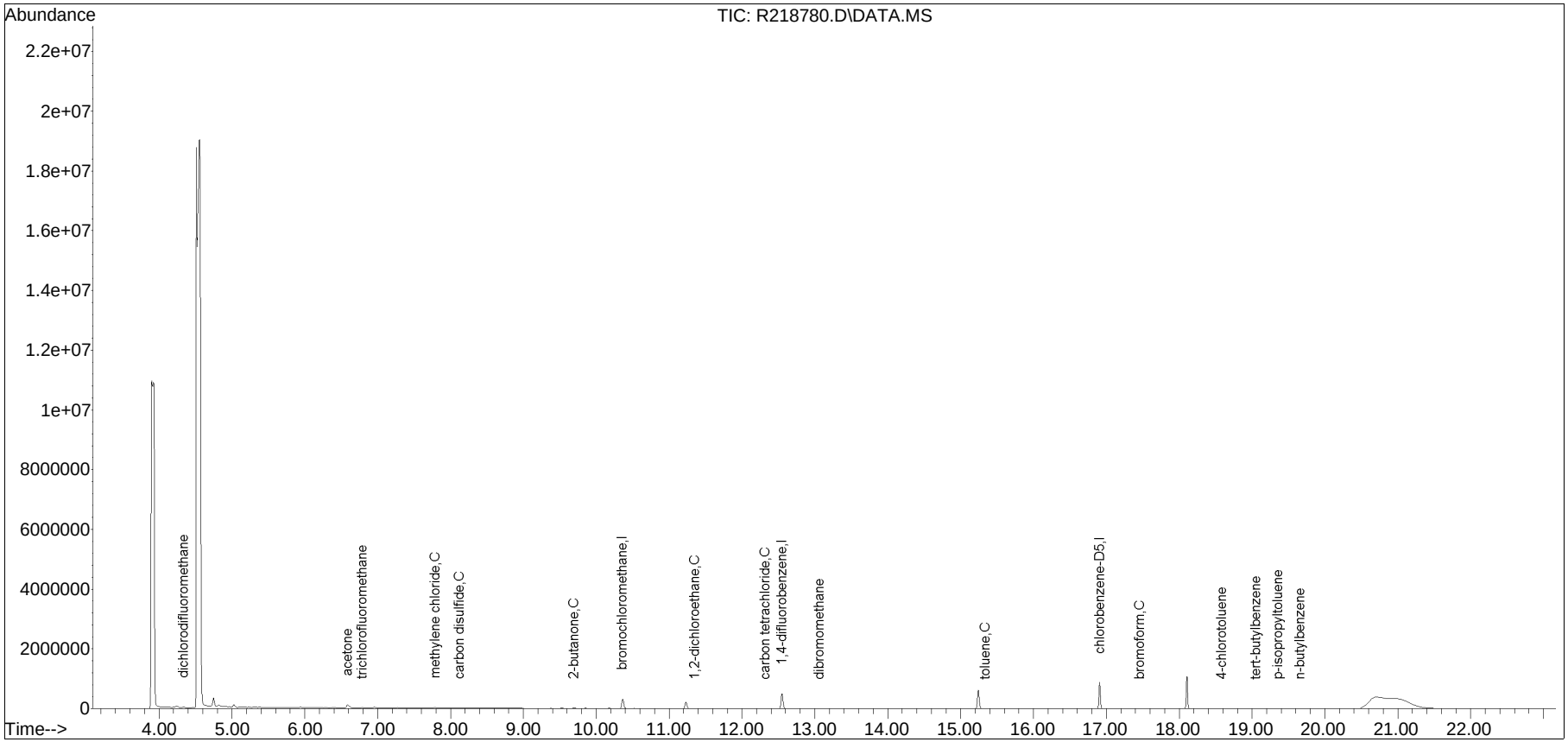
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64)	4-methyl-2-pentanone	14.416		0	N.D.		
66)	trans-1,3-dichloropropene	0.000		0	N.D.		
67)	1,1,2-trichloroethane	0.000		0	N.D.		
69)	toluene	15.341	91	5248	0.161	ppbV	98
72)	1,3-dichloropropane	0.000		0	N.D.	d	
73)	2-hexanone	15.625		0	N.D.		
75)	dibromochloromethane	15.746		0	N.D.		
76)	1,2-dibromoethane	0.000		0	N.D.		
80)	1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81)	chlorobenzene	0.000		0	N.D.		
82)	ethylbenzene	17.243		0	N.D.		
84)	m+p-xylene	17.370		0	N.D.		
85)	bromoform	17.461	173	3264	0.147	ppbV	92
86)	styrene	17.670		0	N.D.		
87)	1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88)	o-xylene	17.756		0	N.D.		
89)	1,2,3-trichloropropane	0.000		0	N.D.		
92)	isopropylbenzene	0.000		0	N.D.	d	
93)	bromobenzene	0.000		0	N.D.	d	
94)	2-chlorotoluene	0.000		0	N.D.		
95)	n-propylbenzene	0.000		0	N.D.		
96)	4-chlorotoluene	18.585	91	84	0.003	ppbV #	40
98)	1,3,5-trimethylbenzene	18.689		0	N.D.		
99)	tert-butylbenzene	19.053	119	31	0.001	ppbV #	54
100)	1,2,4-trimethylbenzene	19.056		0	N.D.		
103)	1,3-dichlorobenzene	0.000		0	N.D.		
104)	1,4-dichlorobenzene	0.000		0	N.D.		
105)	sec-butylbenzene	0.000		0	N.D.	d	
107)	p-isopropyltoluene	19.356	119	34	0.001	ppbV #	49
108)	1,2-dichlorobenzene	0.000		0	N.D.		
109)	n-butylbenzene	19.657	91	45	0.001	ppbV #	49
112)	1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116)	1,2,4-trichlorobenzene	0.000		0	N.D.		
117)	naphthalene	21.080		0	N.D.		
118)	1,2,3-trichlorobenzene	0.000		0	N.D.		
120)	hexachlorobutadiene	0.000		0	N.D.		

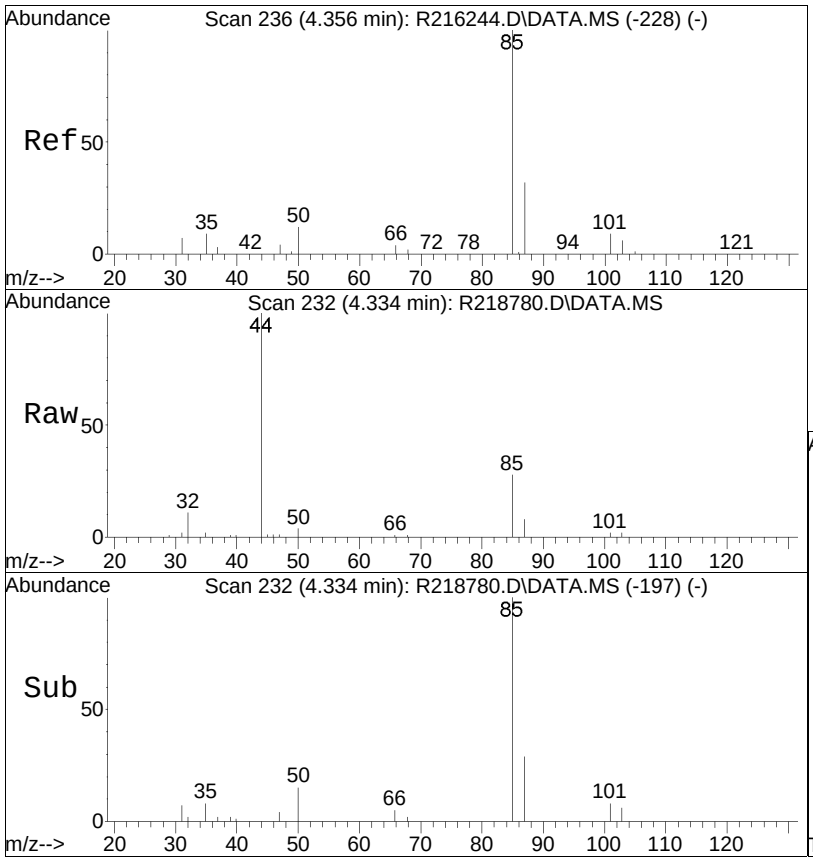
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218780.D
Acq On : 6 Jan 2012 1:03
Operator : AIRPIANO2:MB
Sample : WG511601-5,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 12:06:43 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

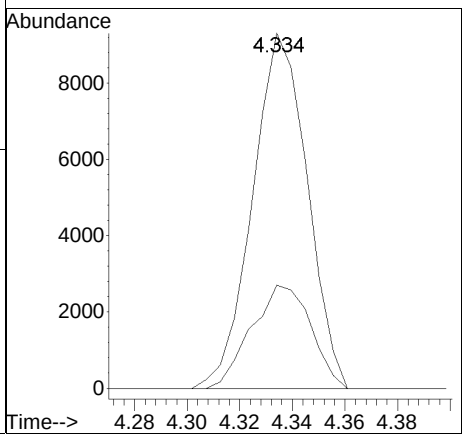


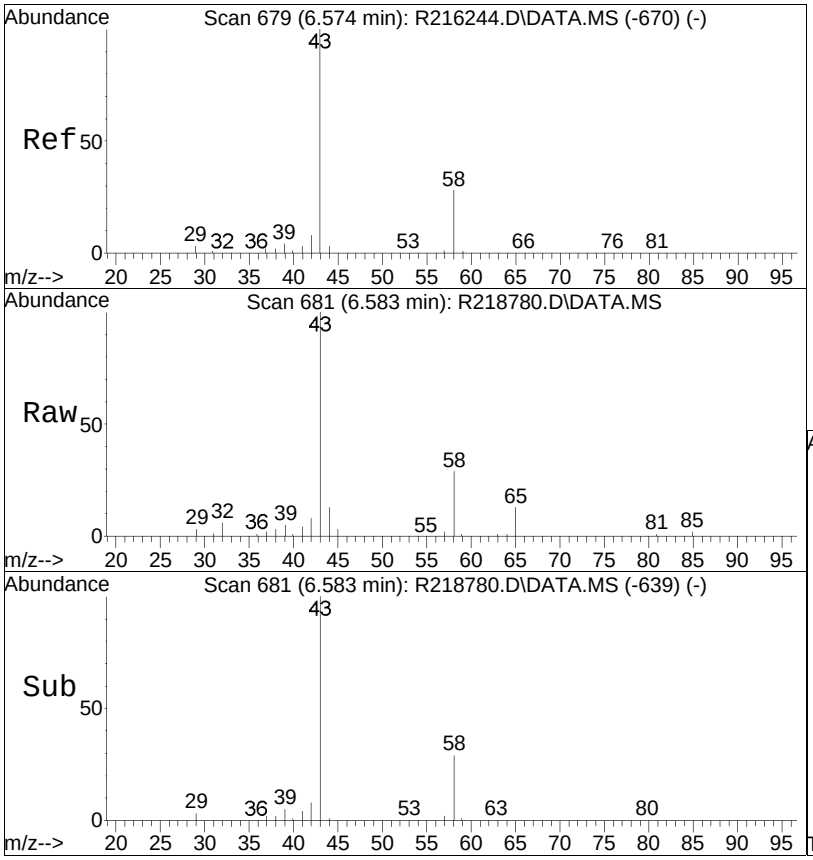


#5
dichlorodifluoromethane
Concen: 0.39 ppbV m
RT: 4.334 min Scan# 232
Delta R.T. -0.011 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 85 Resp: 13433

Ion	Ratio	Lower	Upper
85	100		
87	29.0	26.4	39.6

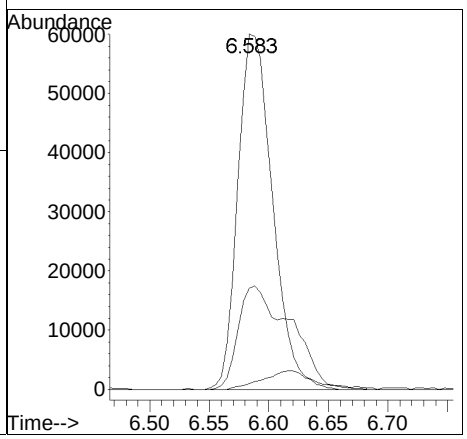


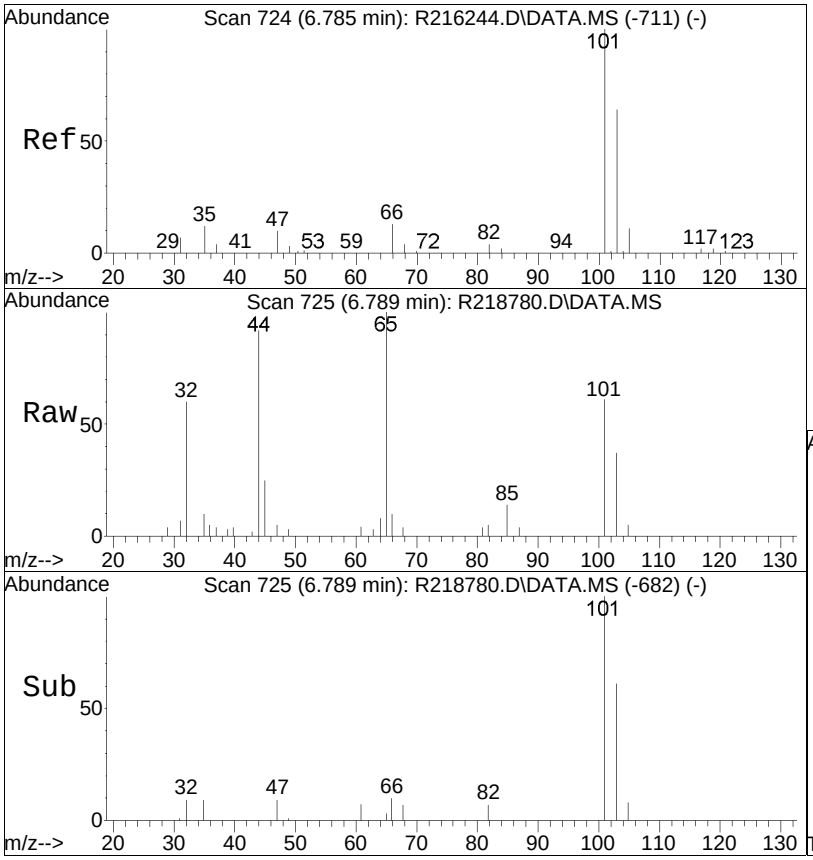


#19
acetone
Concen: 8.41 ppbV m
RT: 6.583 min Scan# 681
Delta R.T. 0.009 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 43 Resp: 122684

Ion	Ratio	Lower	Upper
43	100		
58	28.5	22.2	33.2
57	1.6	0.9	1.3#

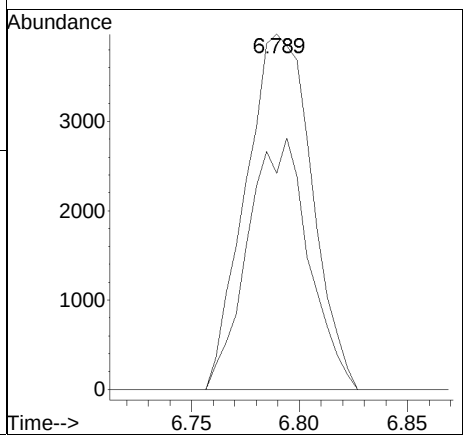


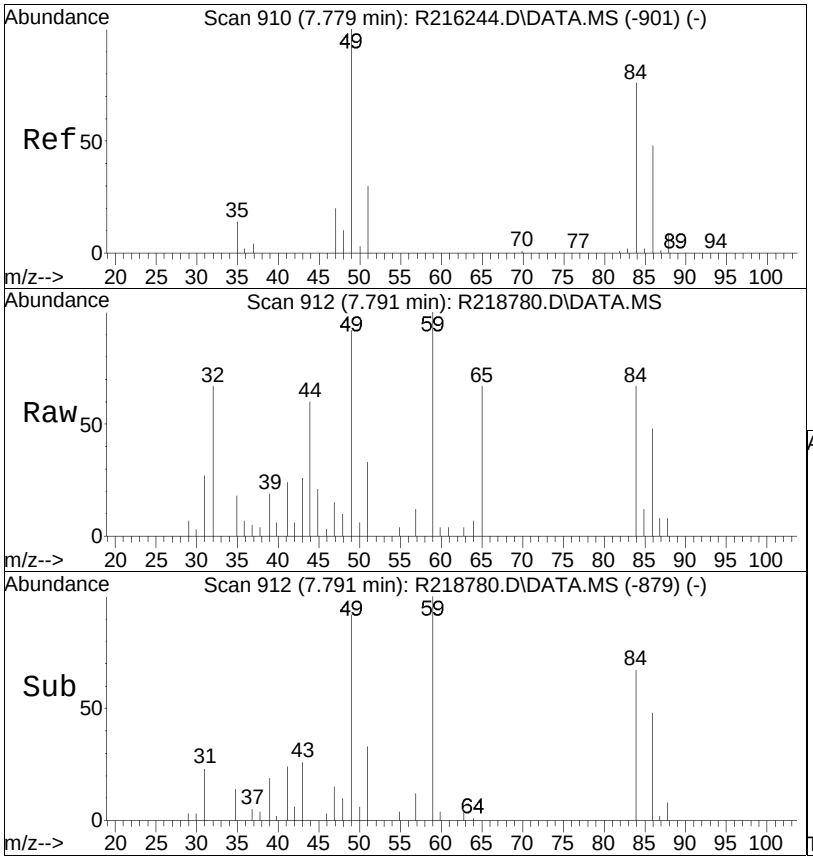


#21
trichlorofluoromethane
Concen: 0.24 ppbV
RT: 6.789 min Scan# 725
Delta R.T. -0.000 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:101 Resp: 8481

Ion	Ratio	Lower	Upper
101	100		
103	60.8	50.2	75.2

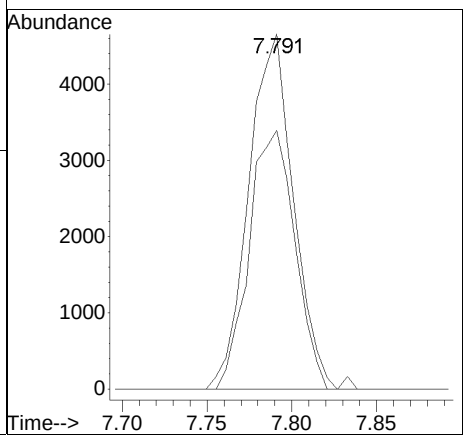


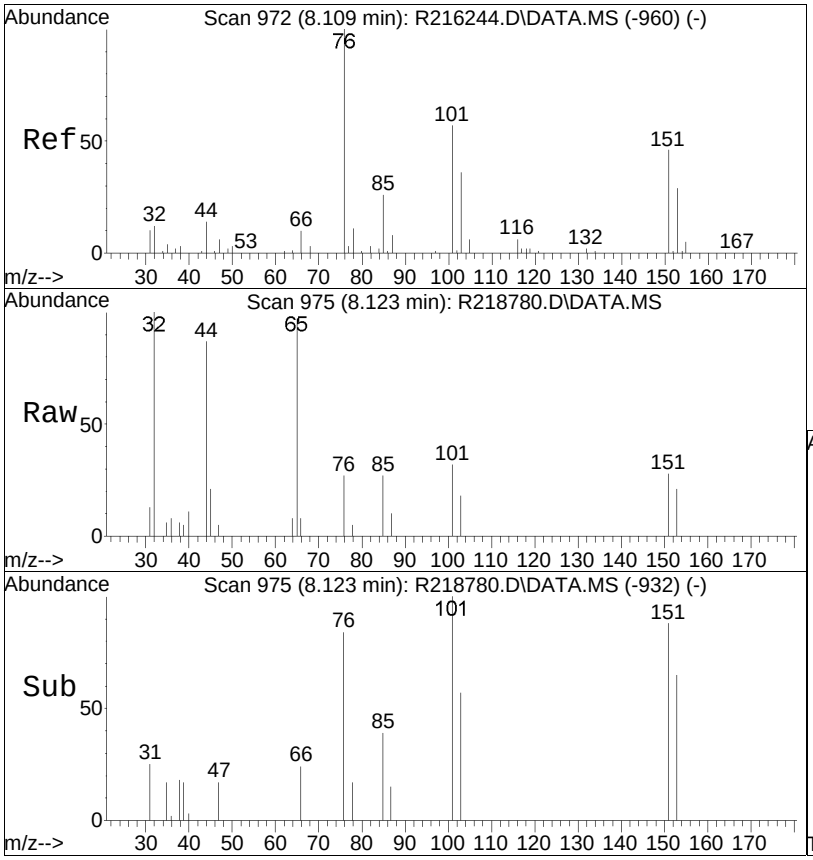


#28
methylene chloride
Concen: 0.58 ppbV
RT: 7.791 min Scan# 912
Delta R.T. -0.000 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 49 Resp: 8594

Ion	Ratio	Lower	Upper
49	100		
84	72.9	56.6	84.8

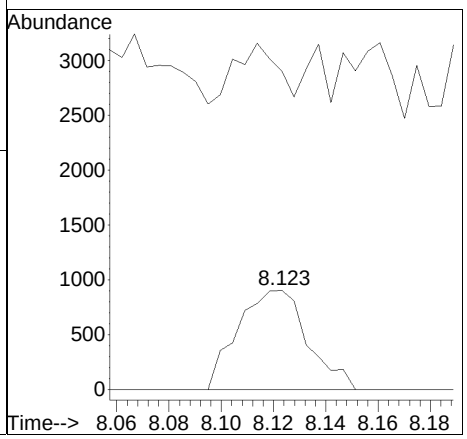


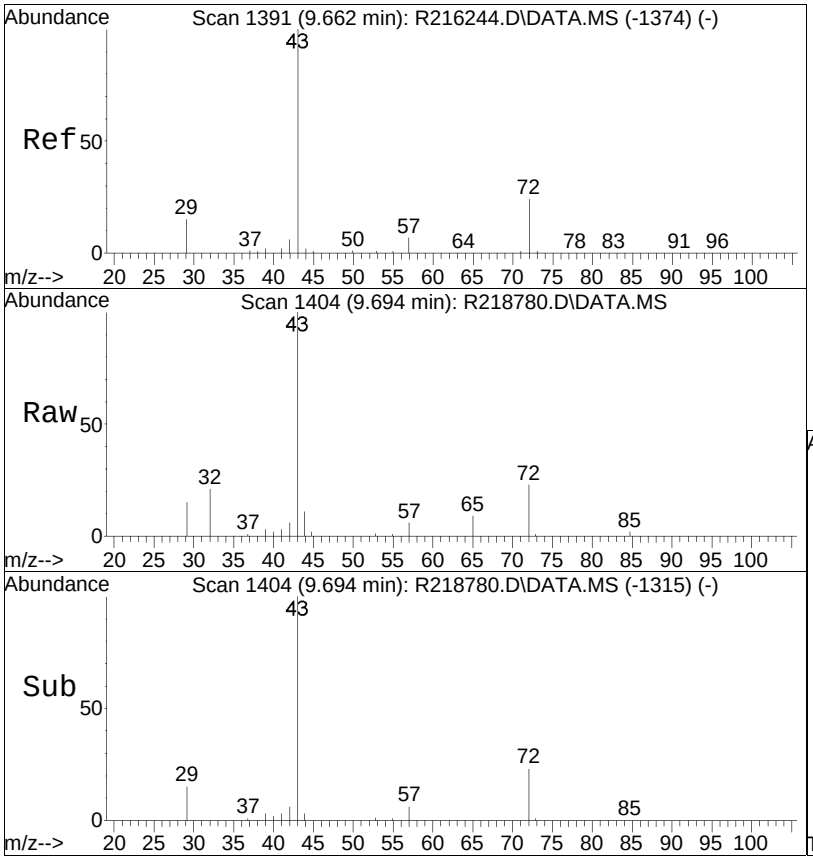


#30
carbon disulfide
Concen: 0.05 ppbV
RT: 8.123 min Scan# 975
Delta R.T. 0.005 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 76 Resp: 1676

Ion	Ratio	Lower	Upper
76	100		
44	321.5	12.2	18.4#

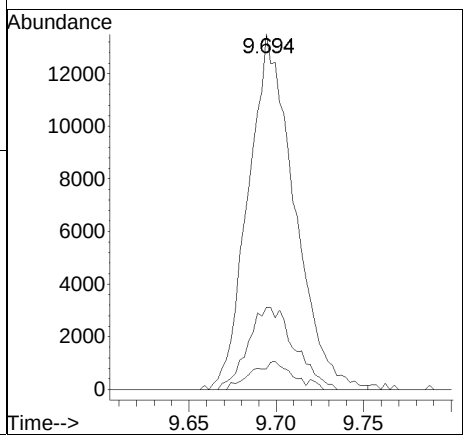


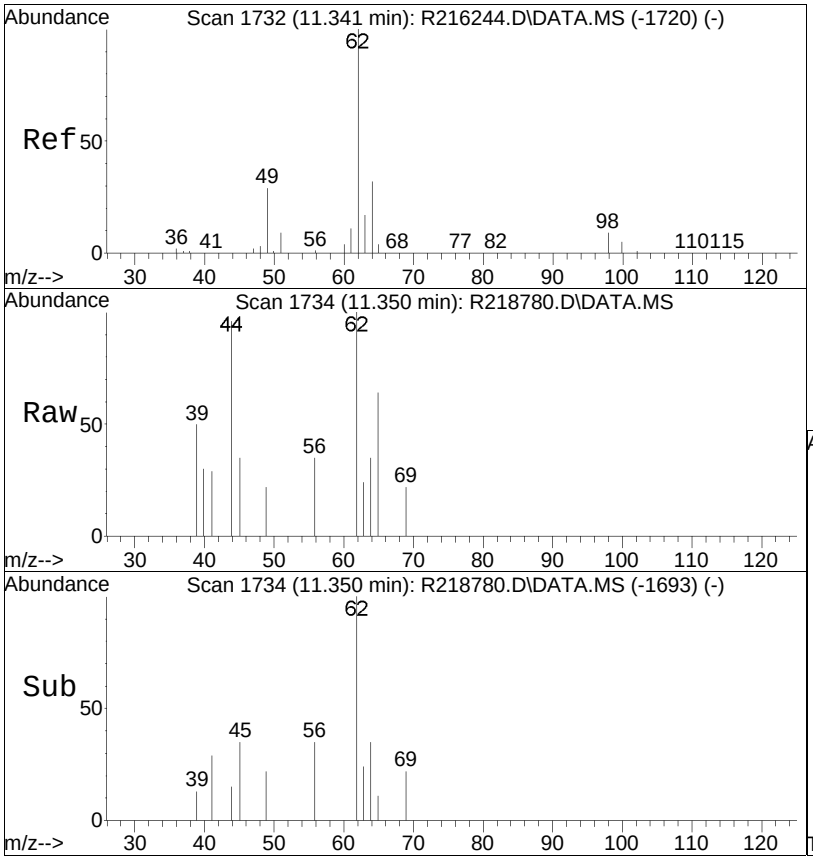


#36
2-butanone
Concen: 1.36 ppbV
RT: 9.694 min Scan# 1404
Delta R.T. 0.025 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 43 Resp: 24740

Ion	Ratio	Lower	Upper
43	100		
72	23.1	17.6	26.4
57	5.8	5.6	8.4

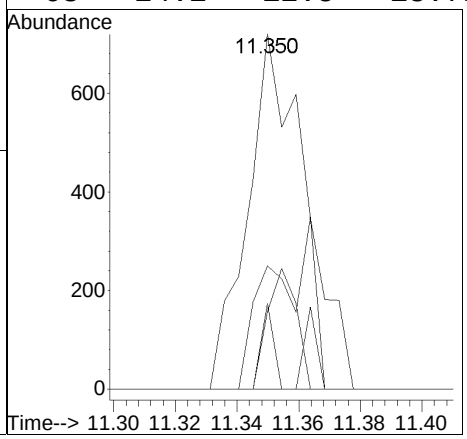


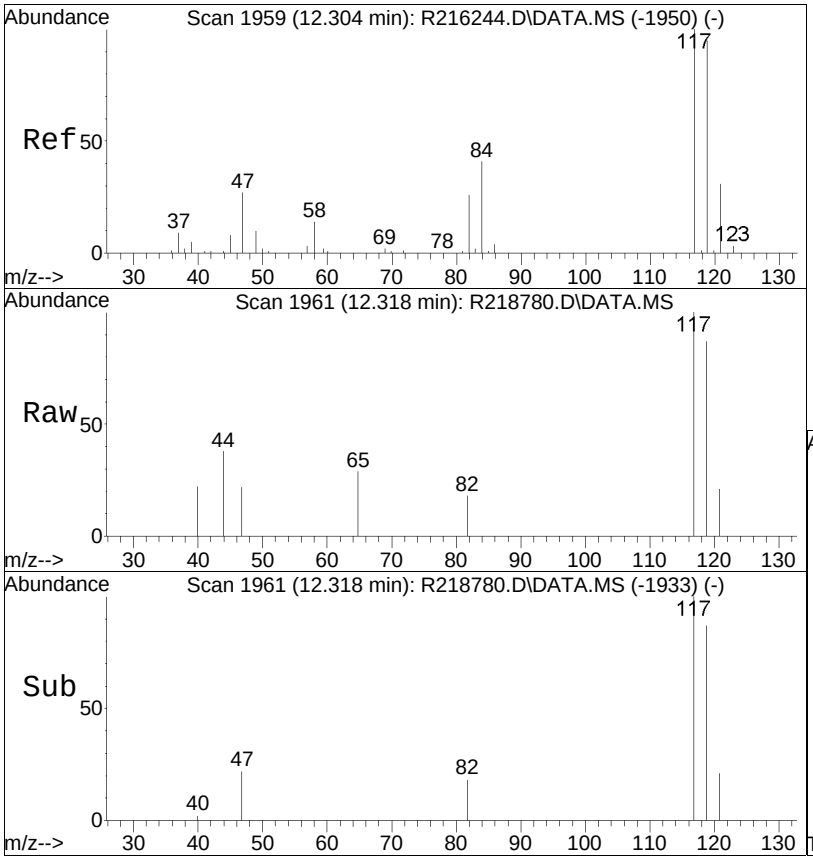


#42
1,2-dichloroethane
Concen: 0.06 ppbV
RT: 11.350 min Scan# 1734
Delta R.T. -0.009 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 62 Resp: 945

Ion	Ratio	Lower	Upper
62	100		
64	34.7	24.4	36.6
49	21.8	23.3	34.9#
63	24.2	12.5	18.7#

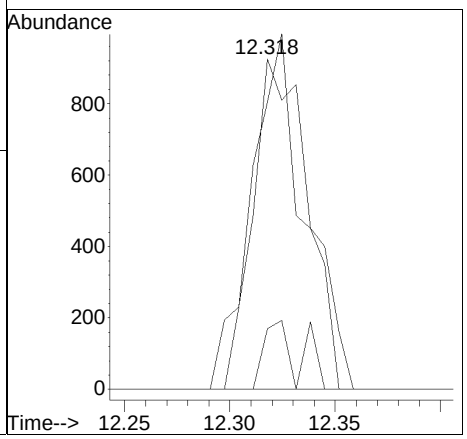


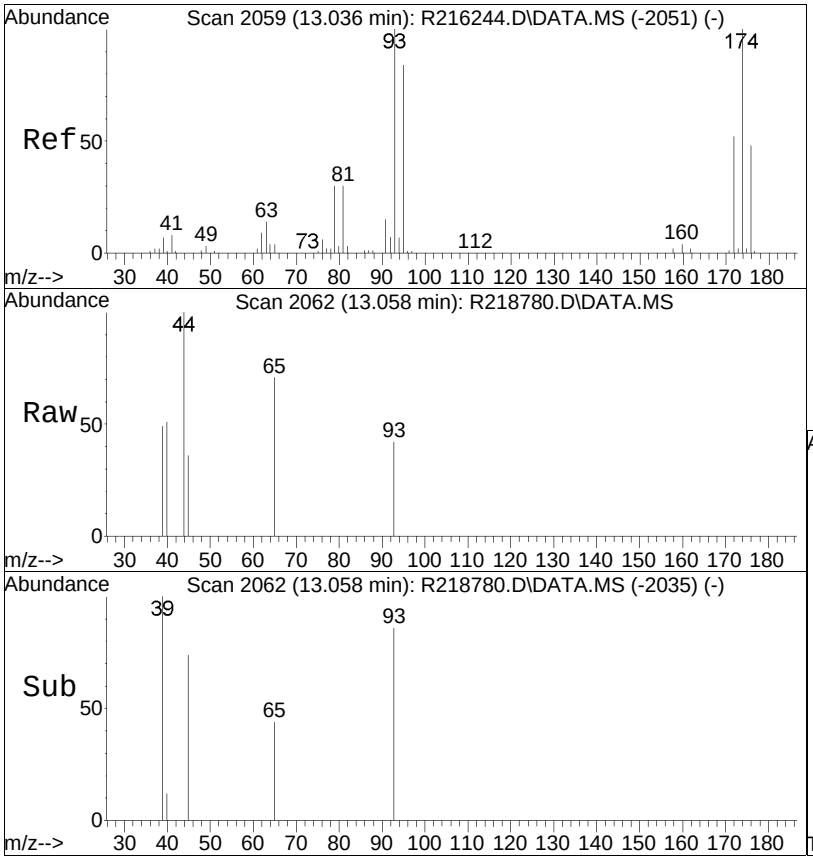


#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 12.318 min Scan# 1961
Delta R.T. -0.007 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:117 Resp: 1842

Ion	Ratio	Lower	Upper
117	100		
119	87.0	76.8	115.2
82	18.4	19.4	29.0#

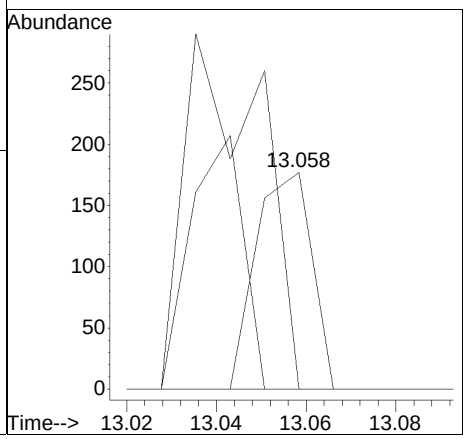


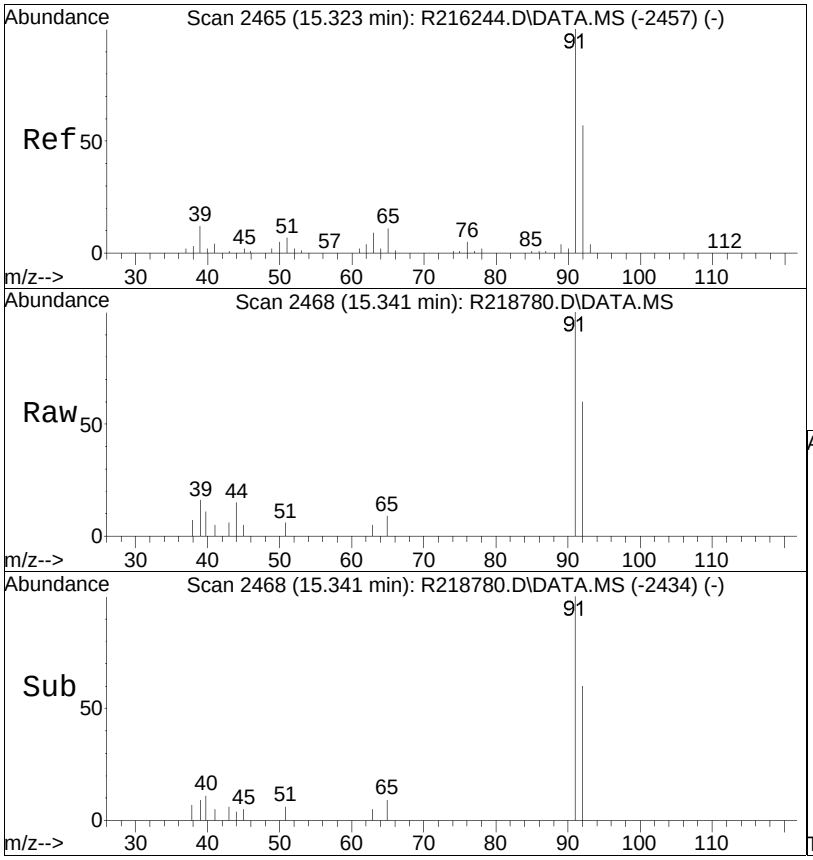


#55
dibromomethane
Concen: 0.01 ppbV
RT: 13.058 min Scan# 2062
Delta R.T. 0.008 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 93 Resp: 153

Ion	Ratio	Lower	Upper
93	100		
174	0.0	79.0	118.4#
95	0.0	68.4	102.6#

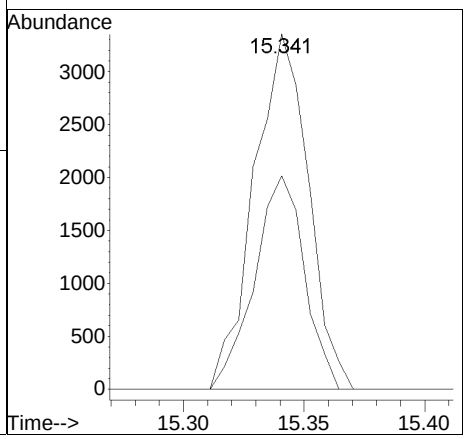


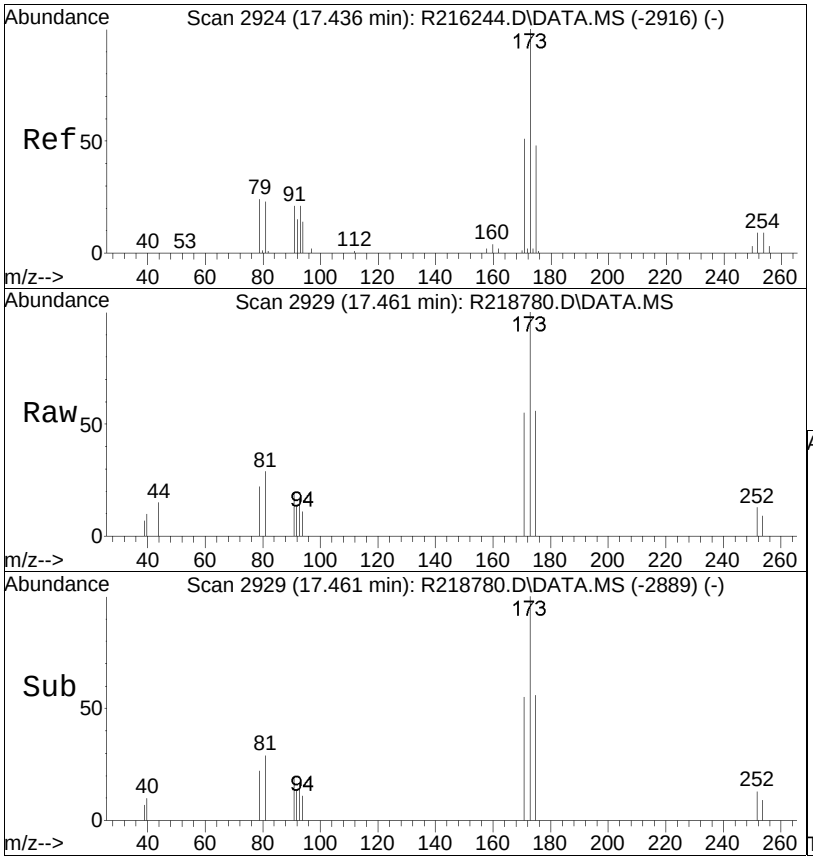


#69
toluene
Concen: 0.16 ppbV
RT: 15.341 min Scan# 2468
Delta R.T. -0.000 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 91 Resp: 5248

Ion	Ratio	Lower	Upper
91	100		
92	60.1	47.0	70.4

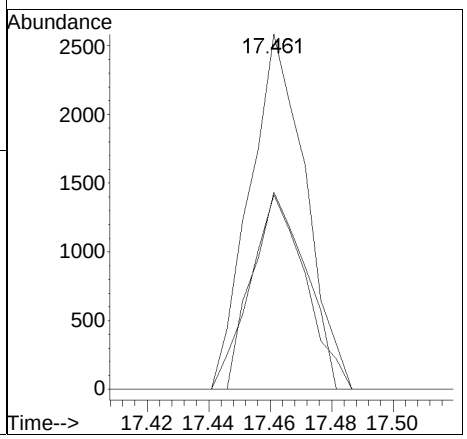


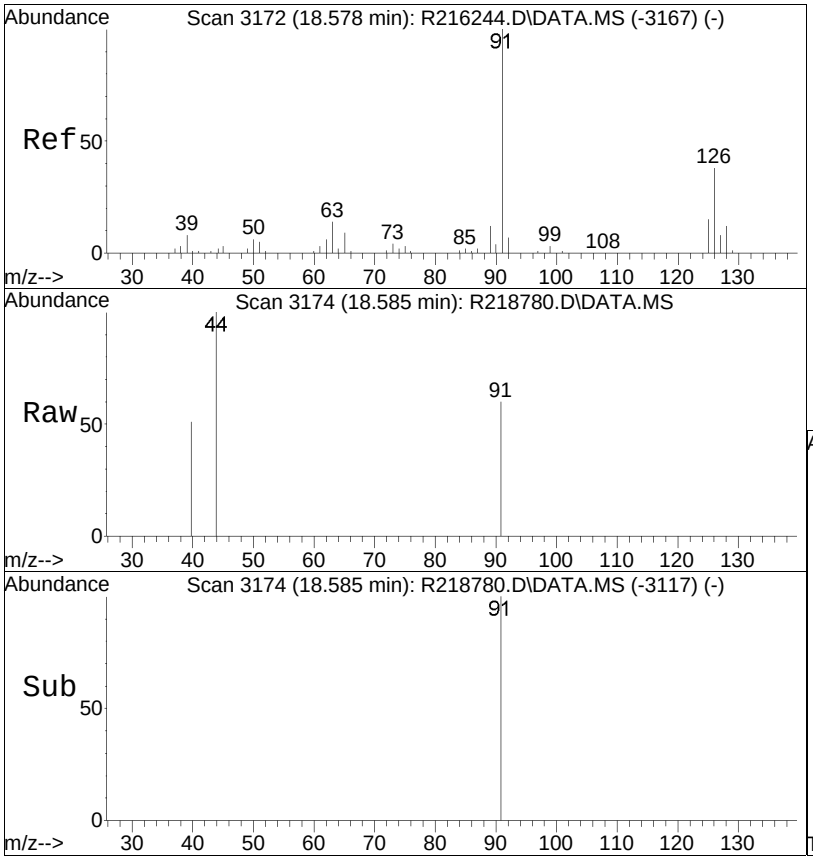


#85
bromoform
Concen: 0.15 ppbV
RT: 17.461 min Scan# 2929
Delta R.T. 0.005 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:173 Resp: 3264

Ion	Ratio	Lower	Upper
173	100		
175	55.5	38.6	57.8
171	54.7	41.2	61.8

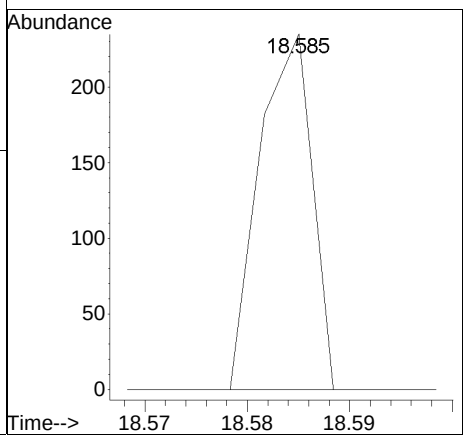


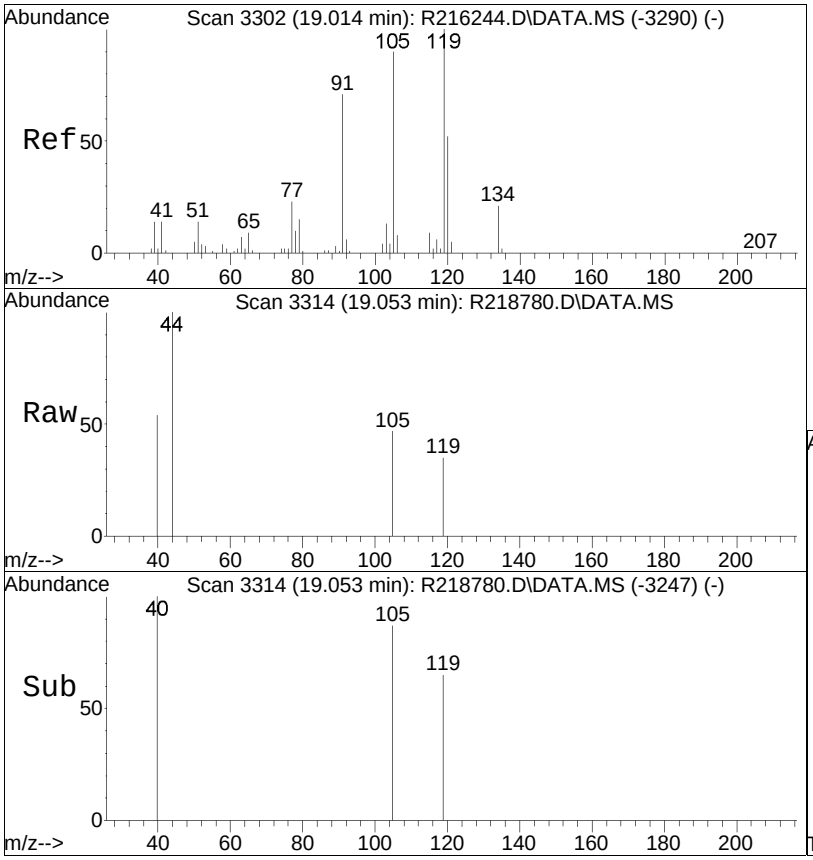


#96
4-chlorotoluene
Concen: 0.00 ppbV
RT: 18.585 min Scan# 3174
Delta R.T. -0.010 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 91 Resp: 84

Ion	Ratio	Lower	Upper
91	100		
126	0.0	28.2	42.2#

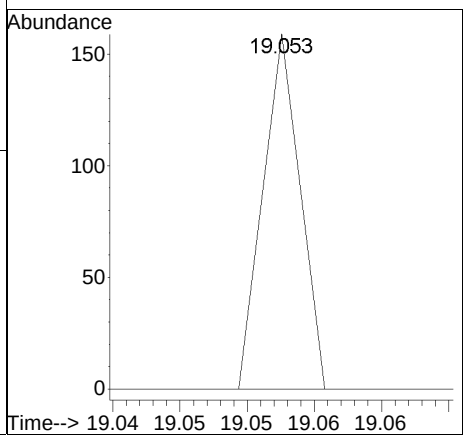


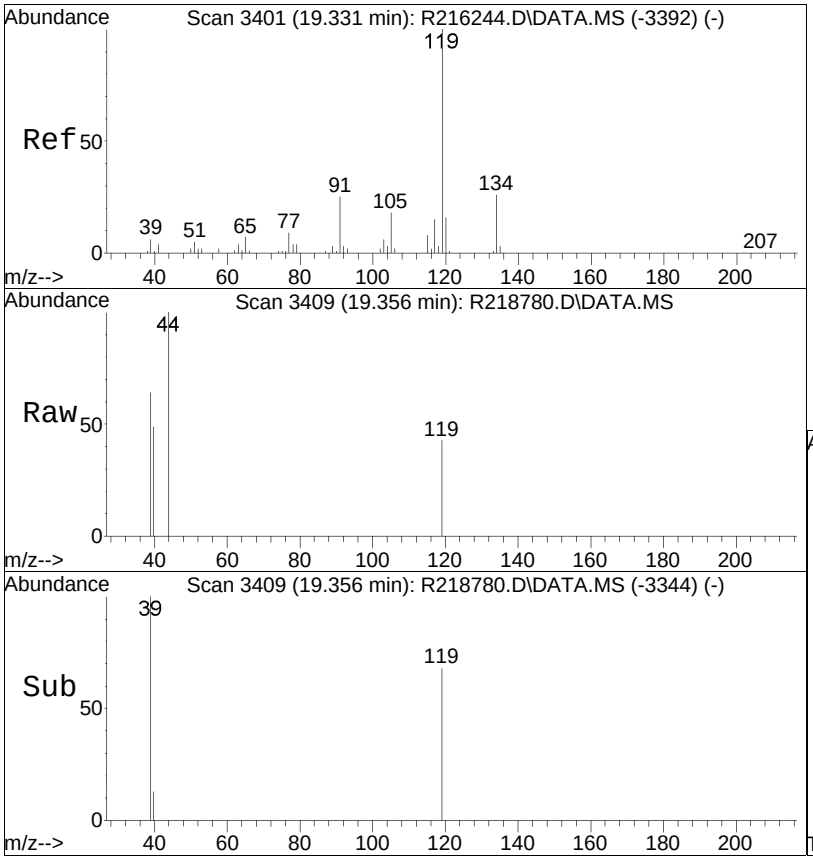


#99
tert-butylbenzene
Concen: 0.00 ppbV
RT: 19.053 min Scan# 3314
Delta R.T. 0.022 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:119 Resp: 31

Ion	Ratio	Lower	Upper
119	100		
134	0.0	17.2	25.8#

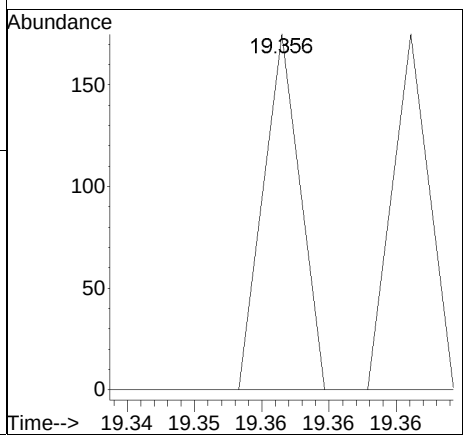


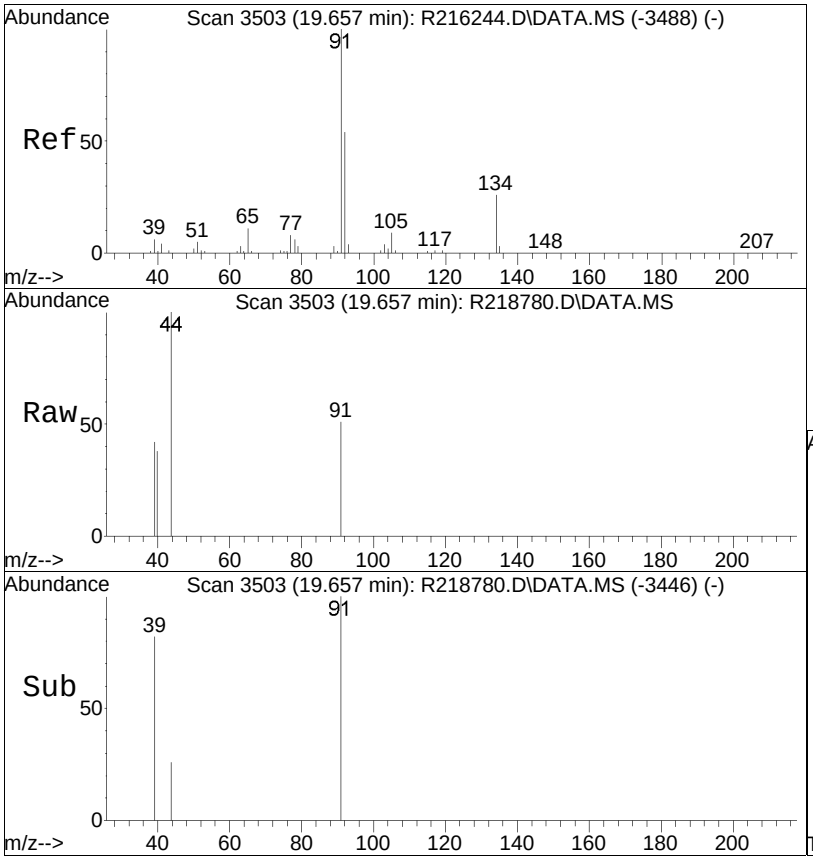


#107
p-isopropyltoluene
Concen: 0.00 ppbV
RT: 19.356 min Scan# 3409
Delta R.T. 0.010 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:119 Resp: 34

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

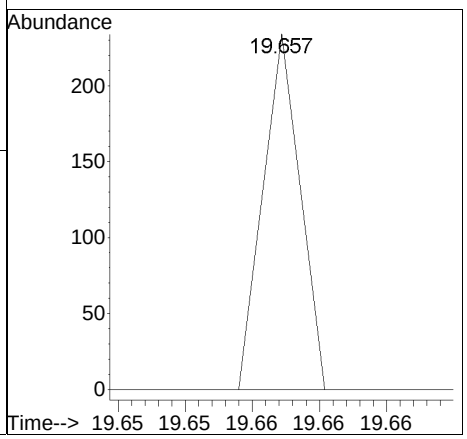




#109
n-butylbenzene
Concen: 0.00 ppbV
RT: 19.657 min Scan# 3503
Delta R.T. -0.016 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 91 Resp: 45

Ion	Ratio	Lower	Upper
91	100		
134	0.0	20.9	31.3#

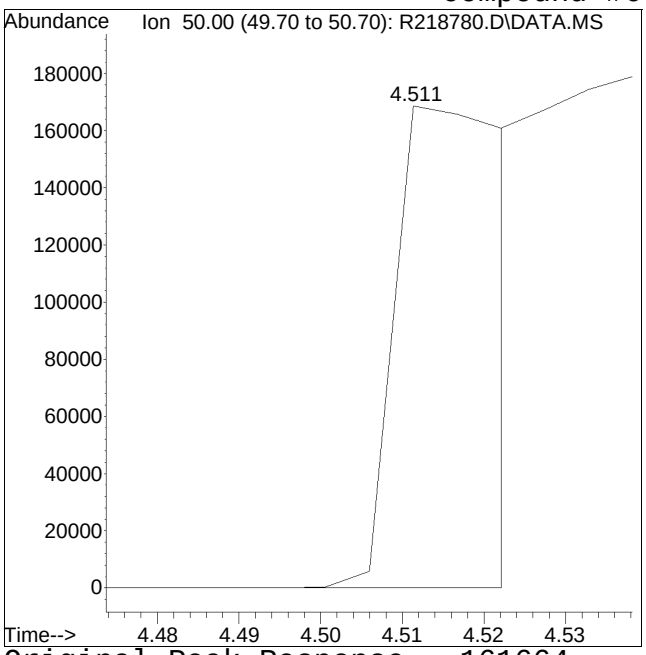


Manual Integration/Negative Proof Report

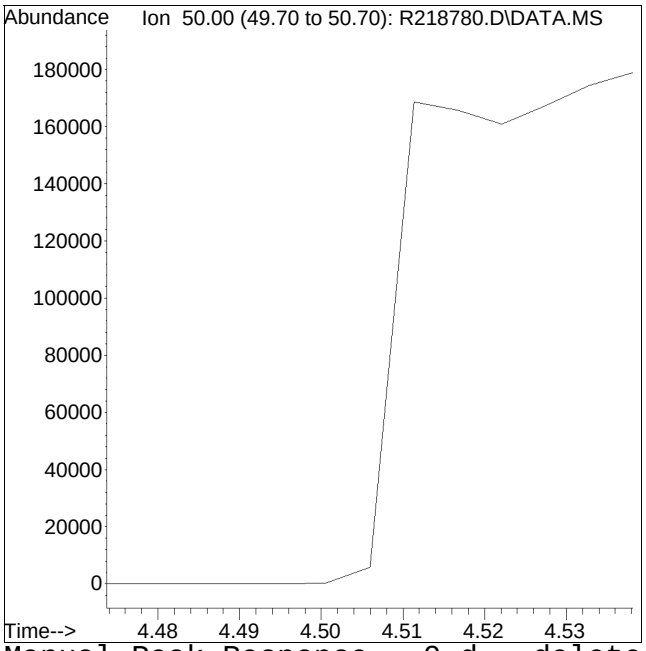
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #6: chloromethane



Original Peak Response = 161664



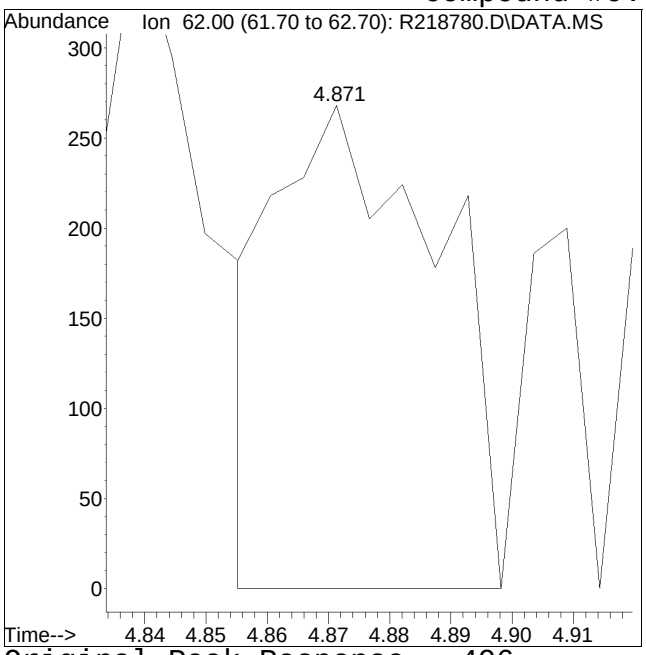
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

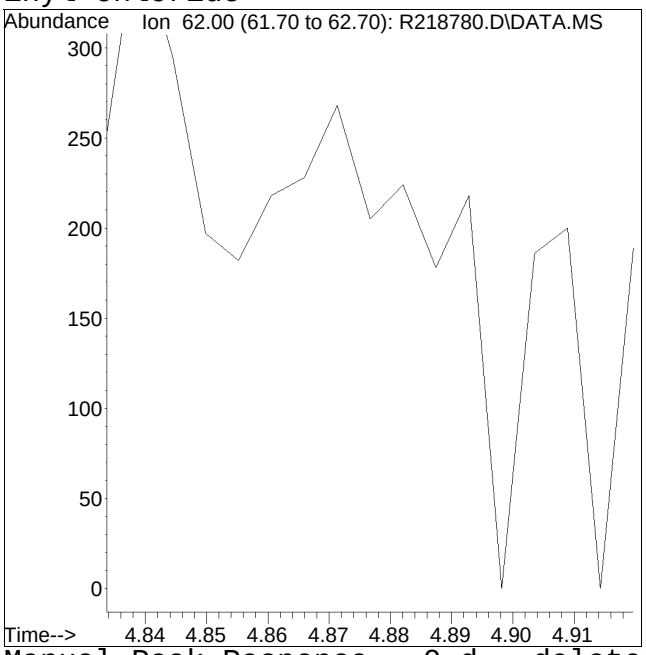
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #9: vinyl chloride



Original Peak Response = 496



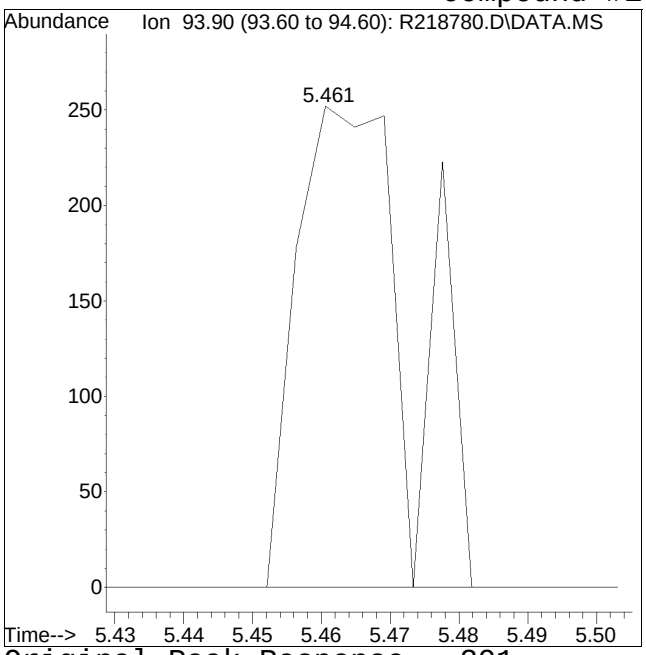
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

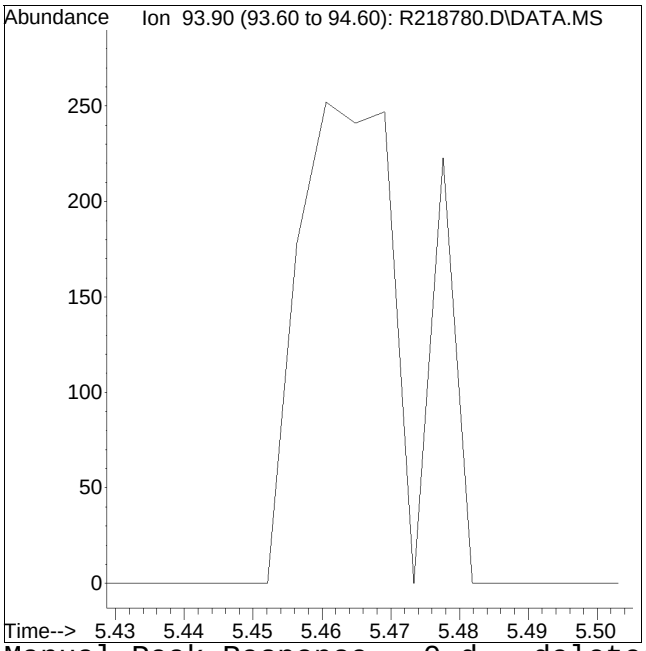
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #13: bromomethane



Original Peak Response = 291



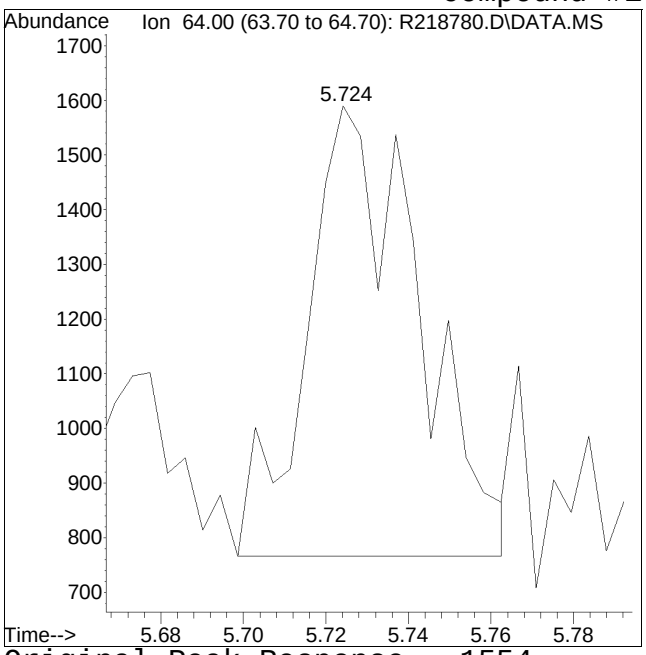
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

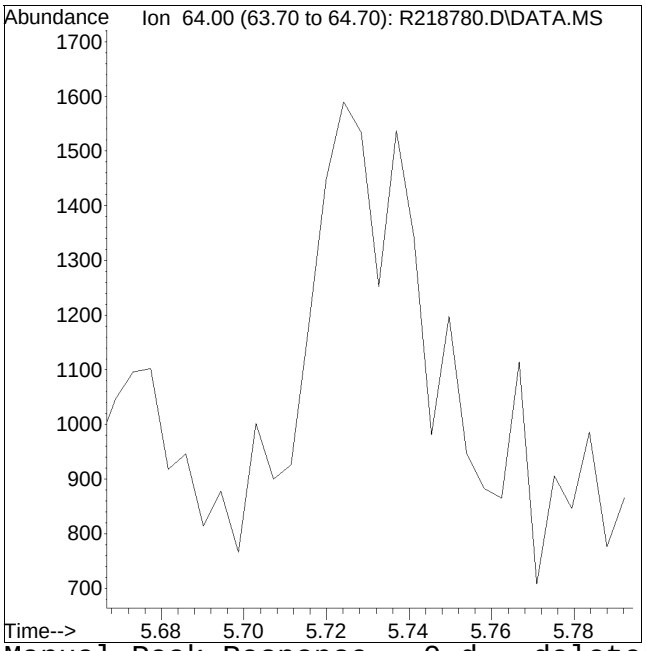
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #14: chloroethane



Original Peak Response = 1554



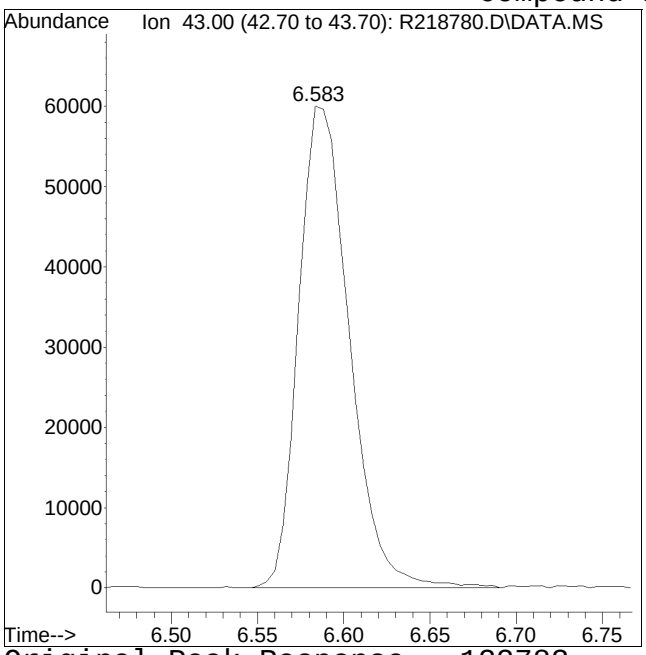
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

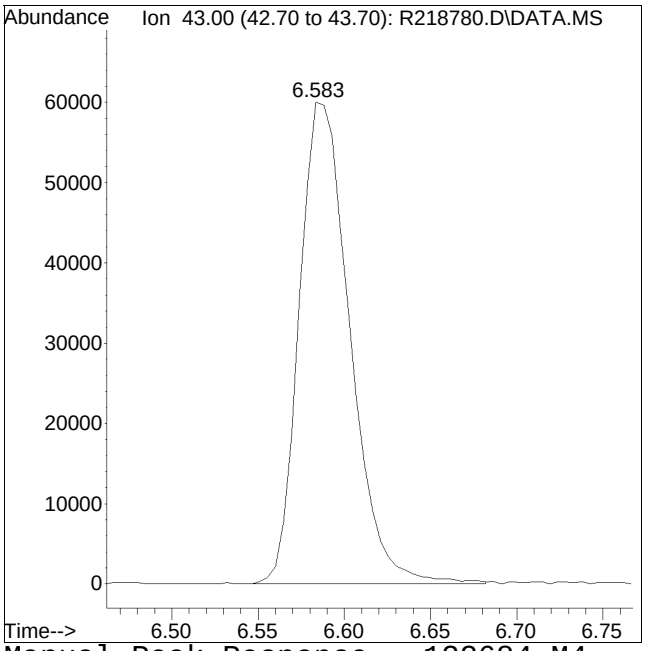
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #19: acetone



Original Peak Response = 122783



Manual Peak Response = 122684 M4

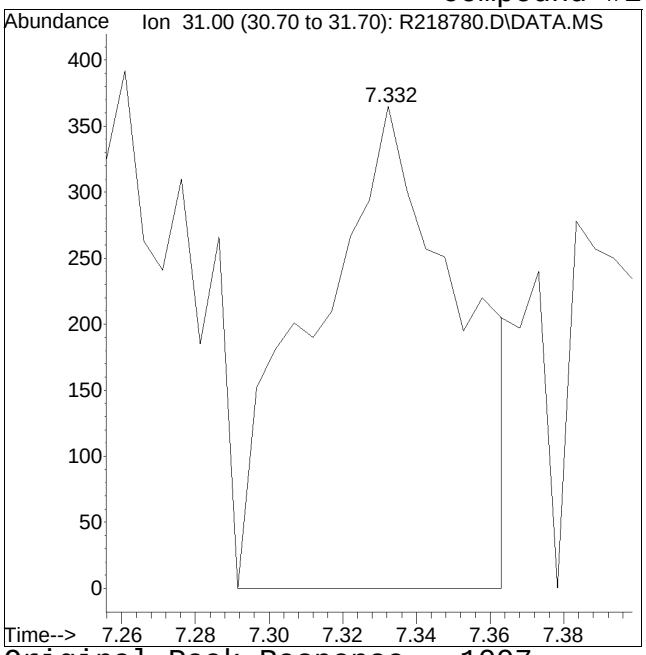
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

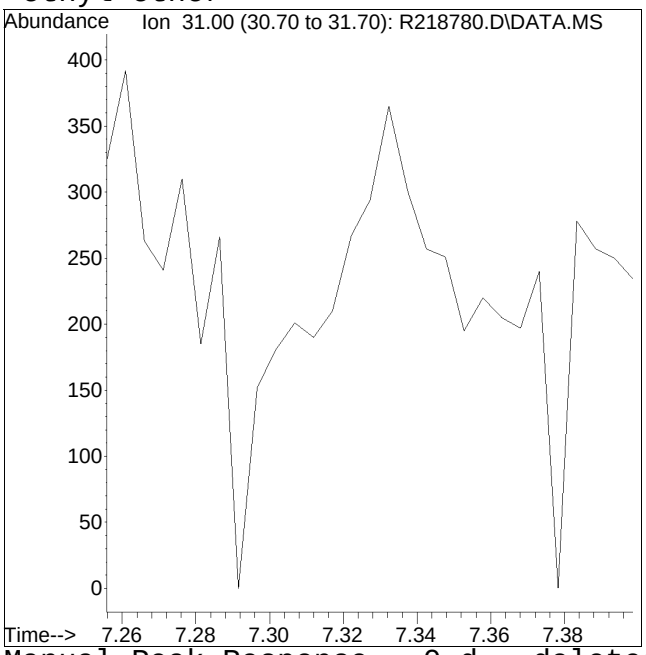
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #25: ethyl ether



Original Peak Response = 1007



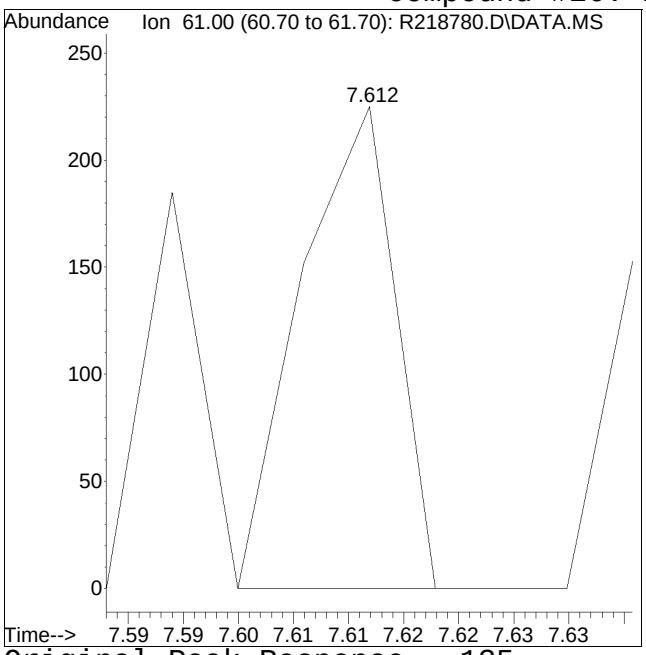
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

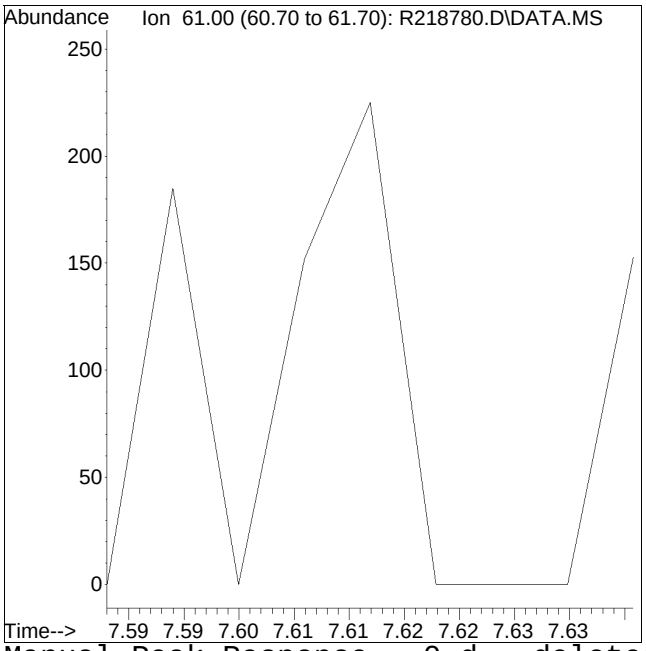
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #26: 1,1-dichloroethene



Original Peak Response = 135



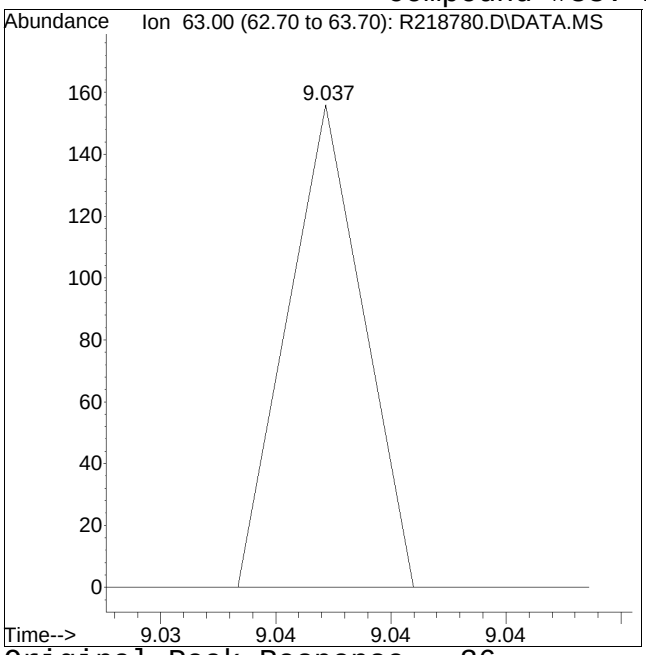
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

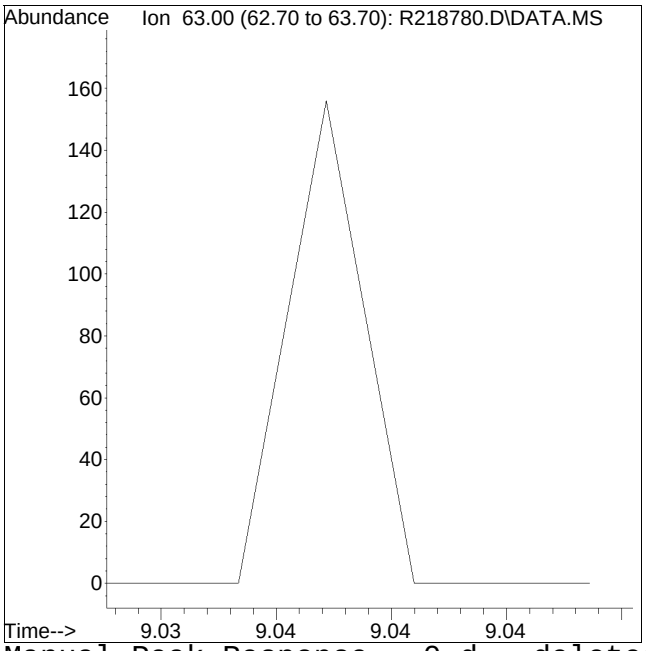
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #33: 1,1-dichloroethane



Original Peak Response = 36



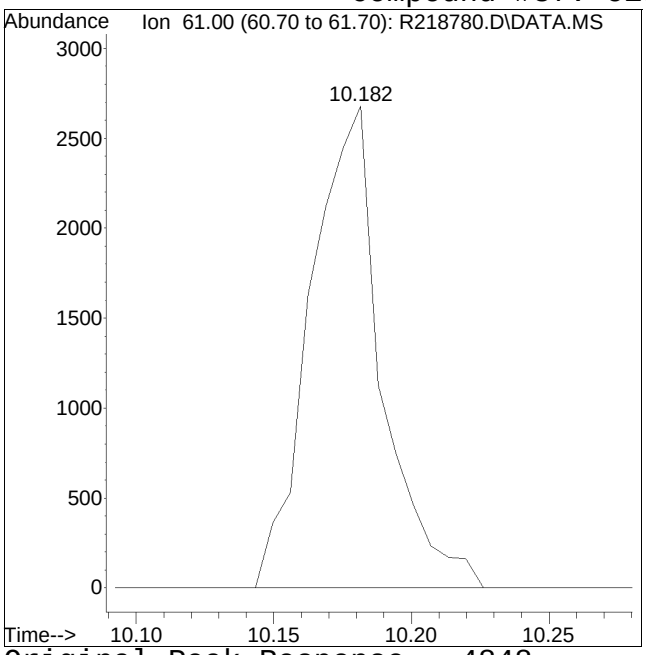
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

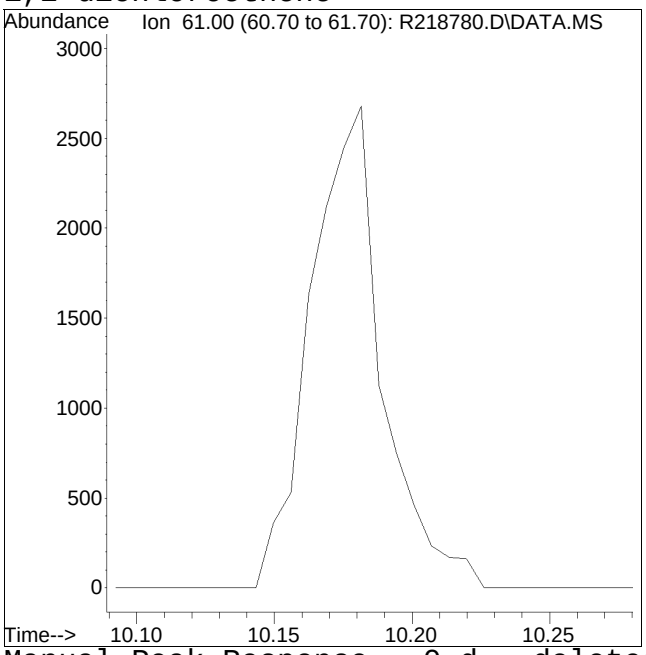
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #37: cis-1,2-dichloroethene



Original Peak Response = 4848



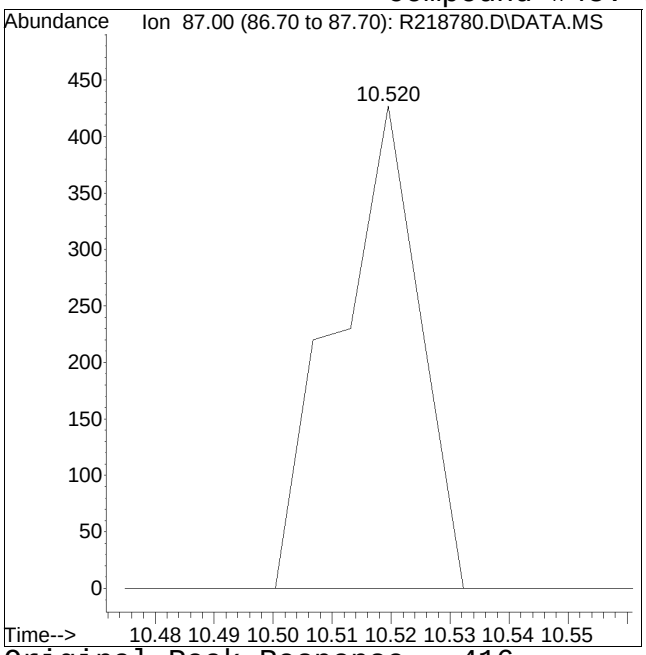
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

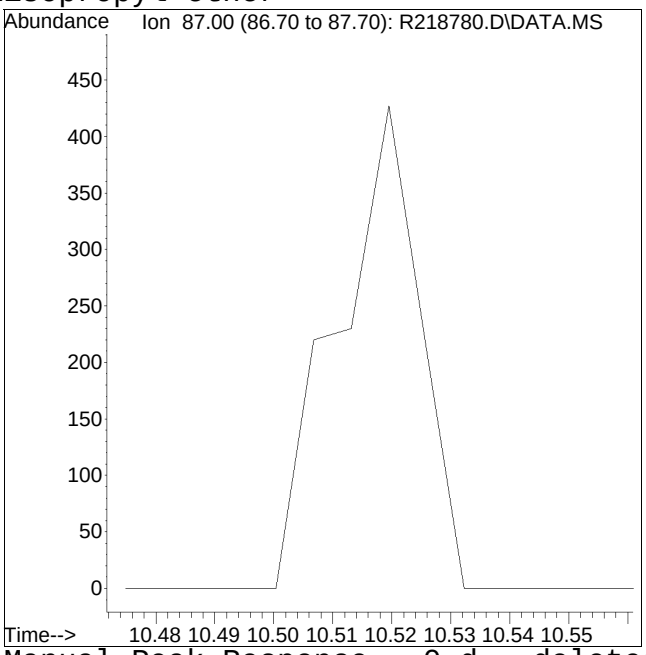
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #45: diisopropyl ether



Original Peak Response = 416



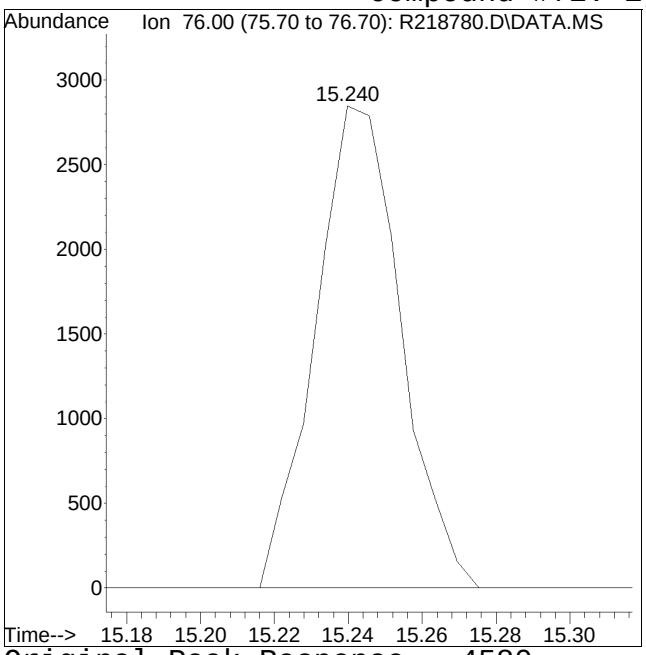
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

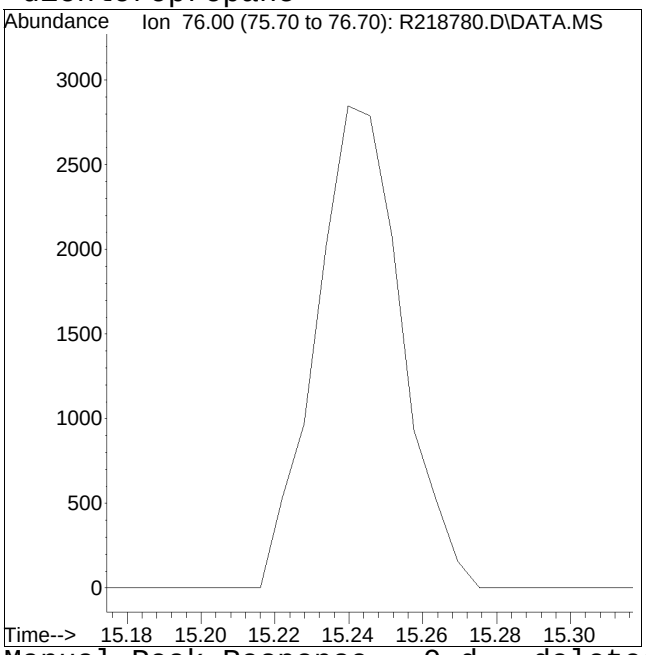
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 4580



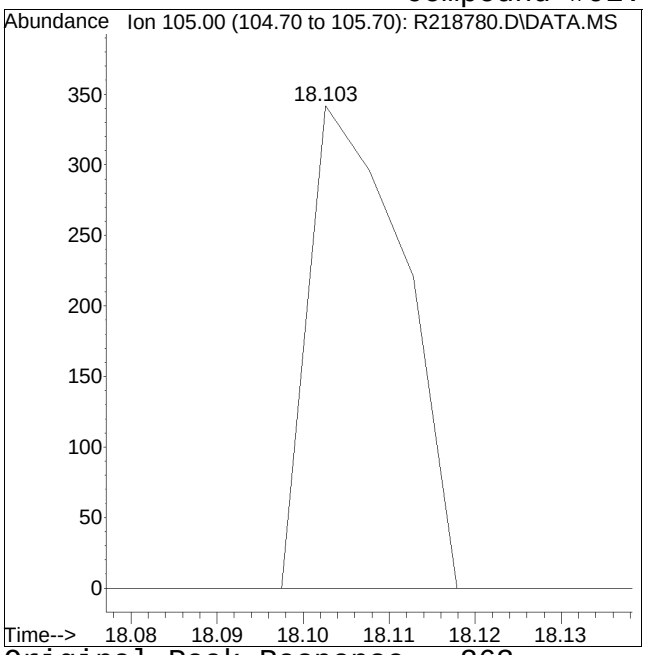
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

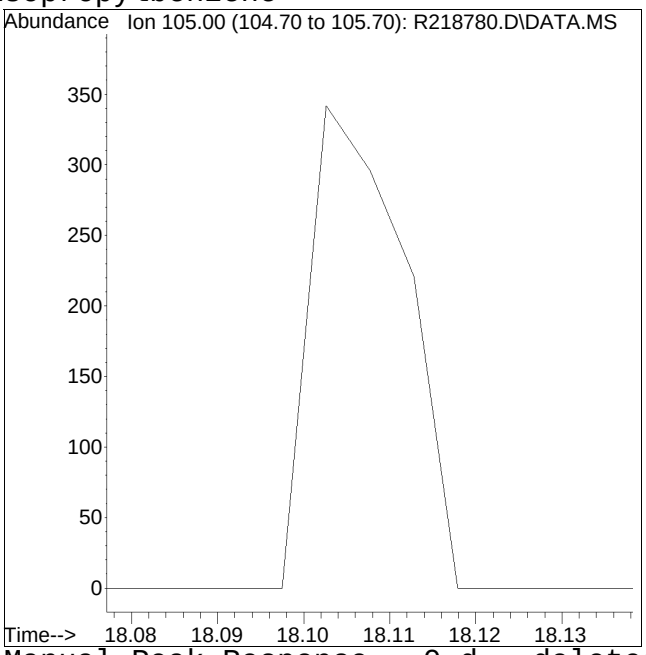
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #92: isopropylbenzene



Original Peak Response = 263



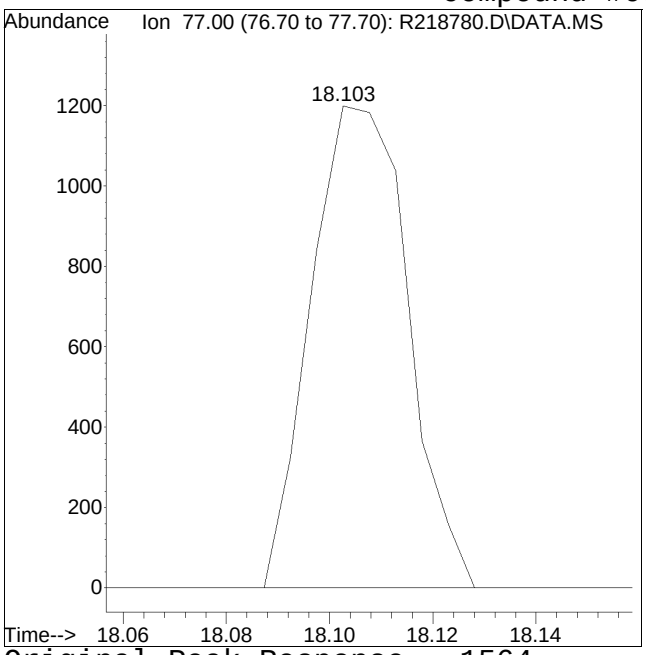
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

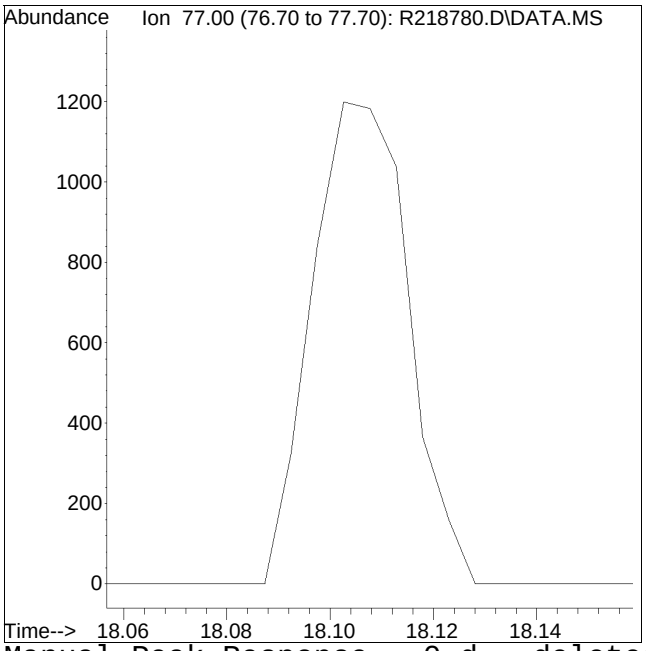
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #93: bromobenzene



Original Peak Response = 1564



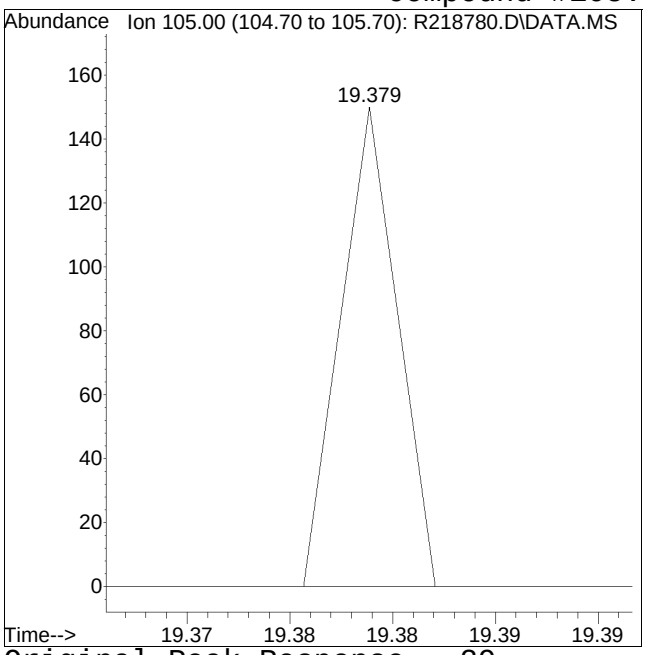
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

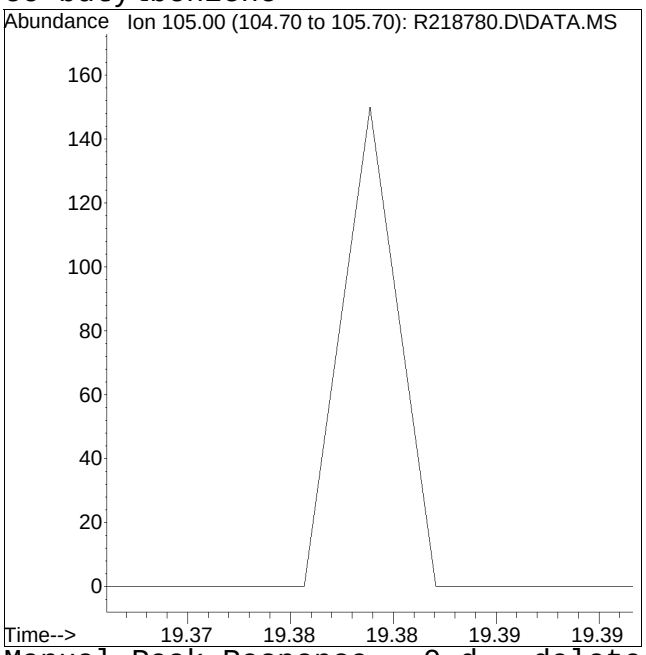
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #105: sec-butylbenzene



Original Peak Response = 29



Manual Peak Response = 0 d - deleted

Alpha Report

ANALYTICAL REPORT

Lab Number:	L1200005
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	KEITH MIDDLE SCHOOL
Project Number:	115058
Report Date:	01/16/12

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Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200005
Report Date: 01/16/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1200005-01	C-28	Not Specified	12/29/11 00:00
L1200005-02	B-28	Not Specified	12/29/11 00:00
L1200005-03	A-28	Not Specified	12/29/11 00:00
L1200005-04	BG-28	Not Specified	12/29/11 00:00
L1200005-05	BG-28-DUP	Not Specified	12/29/11 00:00
L1200005-06	TB-28	Not Specified	12/29/11 00:00

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200005

Project Number: 115058 **Report Date:** 01/16/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	YES
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200005
Project Number: 115058 **Report Date:** 01/16/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

Canisters were released from the laboratory on December 22, 2011.

The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

L1200005-05 The RPD of the pre- and post-flow controller calibration check (20% RPD) was outside acceptable limits (< or = 20% RPD).

L1200005-01 results for Chloromethane and Acetone should be considered estimated due to co-elution with a

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200005
Project Number: 115058 **Report Date:** 01/16/12

Case Narrative (continued)

non-target peak.

L1200005-02 results for Acetone should be considered estimated due to co-elution with a non-target peak.

L1200005-03 results for Chloromethane should be considered estimated due to co-elution with a non-target peak.

The WG511601-3 LCS recoveries for n-Butylbenzene(131%), 1,2,3-Trichlorobenzene (147%) are above the upper 130% acceptance limit. None of the samples associated with this LCS have reportable amounts of these analytes.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 01/16/12

AIR

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-01
Client ID: C-28
Sample Location:
Matrix: Air
Anaytical Method: 101,TO-15
Analytical Date: 01/05/12 21:28
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.461	0.200	--	2.28	0.989	--		1
Chloromethane	0.283	0.200	--	0.584	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	1.47	1.00	--	3.49	2.38	--		1
Trichlorofluoromethane	0.211	0.200	--	1.18	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-01
Client ID: C-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-01
Client ID: C-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-01
Client ID: C-28
Sample Location:
Matrix: Air
Anaytical Method: 101,TO15-SIM
Analytical Date: 01/05/12 21:28
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	0.170	0.100	--	0.543	0.319	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	110		60-140
bromochloromethane	109		60-140
chlorobenzene-d5	107		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-02
Client ID: B-28
Sample Location:
Matrix: Air
Anaytical Method: 101,TO-15
Analytical Date: 01/05/12 22:04
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.460	0.200	--	2.27	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	2.63	1.00	--	6.25	2.38	--		1
Trichlorofluoromethane	0.218	0.200	--	1.22	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.263	0.200	--	0.776	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-02
Client ID: B-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.257	0.200	--	0.968	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.489	0.400	--	2.12	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.203	0.200	--	0.882	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-02
Client ID: B-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-02
Client ID: B-28
Sample Location:
Matrix: Air
Anaytical Method: 101,TO15-SIM
Analytical Date: 01/05/12 22:04
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	0.164	0.100	--	0.524	0.319	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Trichloroethene	0.026	0.020	--	0.140	0.107	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	111		60-140
bromochloromethane	109		60-140
chlorobenzene-d5	104		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-03
Client ID: A-28
Sample Location:
Matrix: Air
Anaytical Method: 101,TO-15
Analytical Date: 01/05/12 22:40
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.463	0.200	--	2.29	0.989	--		1
Chloromethane	0.307	0.200	--	0.634	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	1.68	1.00	--	3.99	2.38	--		1
Trichlorofluoromethane	0.207	0.200	--	1.16	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-03
Client ID: A-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-03
Client ID: A-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	89		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-03
Client ID: A-28
Sample Location:
Matrix: Air
Anaytical Method: 101,TO15-SIM
Analytical Date: 01/05/12 22:40
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	0.141	0.100	--	0.450	0.319	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	109		60-140
bromochloromethane	107		60-140
chlorobenzene-d5	103		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-04
Client ID: BG-28
Sample Location:
Matrix: Air
Anaytical Method: 101,TO-15
Analytical Date: 01/05/12 23:15
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.452	0.200	--	2.24	0.989	--		1
Chloromethane	0.529	0.200	--	1.09	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.207	0.200	--	1.16	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-04
Client ID: BG-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-04
Client ID: BG-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	93		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-04
Client ID: BG-28
Sample Location:
Matrix: Air
Anaytical Method: 101,TO15-SIM
Analytical Date: 01/05/12 23:15
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	0.123	0.100	--	0.393	0.319	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	112		60-140
bromochloromethane	109		60-140
chlorobenzene-d5	106		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-05
Client ID: BG-28-DUP
Sample Location:
Matrix: Air
Anaytical Method: 101,TO-15
Analytical Date: 01/05/12 23:51
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.465	0.200	--	2.30	0.989	--		1
Chloromethane	0.469	0.200	--	0.968	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-05
Client ID: BG-28-DUP
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-05
Client ID: BG-28-DUP
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	89		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-05
Client ID: BG-28-DUP
Sample Location:
Matrix: Air
Anaytical Method: 101,TO15-SIM
Analytical Date: 01/05/12 23:51
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	0.126	0.100	--	0.402	0.319	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	107		60-140
bromochloromethane	107		60-140
chlorobenzene-d5	101		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-06
Client ID: TB-28
Sample Location:
Matrix: Air
Anaytical Method: 101,TO-15
Analytical Date: 01/05/12 20:16
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-06
Client ID: TB-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200005-06
Client ID: TB-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID:	L1200005-06	Date Collected:	12/29/11 00:00
Client ID:	TB-28	Date Received:	12/30/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	01/05/12 20:16		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	ND	0.100	--	ND	0.319	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	108		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	104		60-140

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200005

Project Number: 115058 **Report Date:** 01/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 01/05/12 19:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG511601-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200005

Project Number: 115058 **Report Date:** 01/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 01/05/12 19:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG511601-4								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 01/05/12 19:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG511601-4								
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200005
Report Date: 01/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO15-SIM
Analytical Date: 01/05/12 19:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG511603-4								
Benzene	ND	0.100	--	ND	0.319	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG511601-3								
Dichlorodifluoromethane	84		-		70-130	-		
Chloromethane	79		-		70-130	-		
Vinyl chloride	80		-		70-130	-		
Bromomethane	82		-		70-130	-		
Chloroethane	84		-		70-130	-		
Acetone	94		-		50-150	-		
Trichlorofluoromethane	83		-		70-130	-		
Ethyl ether	82		-		70-130	-		
1,1-Dichloroethene	83		-		70-130	-		
Methylene chloride	84		-		70-130	-		
Carbon disulfide	79		-		70-130	-		
trans-1,2-Dichloroethene	82		-		70-130	-		
1,1-Dichloroethane	78		-		70-130	-		
Methyl tert butyl ether	83		-		70-130	-		
2-Butanone	87		-		70-130	-		
cis-1,2-Dichloroethene	83		-		70-130	-		
Tetrahydrofuran	96		-		70-130	-		
2,2-Dichloropropane	84		-		70-130	-		
1,2-Dichloroethane	91		-		70-130	-		
Isopropyl Ether	87		-		70-130	-		
Ethyl-Tert-Butyl-Ether	88		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG511601-3								
1,1,1-Trichloroethane	83		-		70-130	-		
1,1-Dichloropropene	82		-		70-130	-		
Carbon tetrachloride	83		-		70-130	-		
Tertiary-Amyl Methyl Ether	90		-		70-130	-		
Dibromomethane	80		-		70-130	-		
1,2-Dichloropropane	88		-		70-130	-		
Bromodichloromethane	83		-		70-130	-		
1,4-Dioxane	98		-		50-150	-		
cis-1,3-Dichloropropene	90		-		70-130	-		
4-Methyl-2-pentanone	96		-		70-130	-		
trans-1,3-Dichloropropene	77		-		70-130	-		
1,1,2-Trichloroethane	92		-		70-130	-		
Toluene	102		-		70-130	-		
1,3-Dichloropropane	98		-		70-130	-		
2-Hexanone	109		-		70-130	-		
Dibromochloromethane	106		-		70-130	-		
1,2-Dibromoethane	105		-		70-130	-		
1,1,1,2-Tetrachloroethane	101		-		70-130	-		
Chlorobenzene	107		-		70-130	-		
Ethylbenzene	111		-		70-130	-		
p/m-Xylene	110		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200005
Report Date: 01/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG511601-3								
Bromoform	105		-		70-130	-		
Styrene	113		-		70-130	-		
1,1,2,2-Tetrachloroethane	118		-		70-130	-		
o-Xylene	119		-		70-130	-		
1,2,3-Trichloropropane	113		-		70-130	-		
Isopropylbenzene	112		-		70-130	-		
Bromobenzene	100		-		70-130	-		
o-Chlorotoluene	109		-		70-130	-		
n-Propylbenzene	116		-		70-130	-		
p-Chlorotoluene	110		-		70-130	-		
1,3,5-Trimethylbenzene	123		-		70-130	-		
tert-Butylbenzene	123		-		70-130	-		
1,2,4-Trimethylbenzene	130		-		70-130	-		
1,3-Dichlorobenzene	123		-		70-130	-		
1,4-Dichlorobenzene	122		-		70-130	-		
sec-Butylbenzene	122		-		70-130	-		
p-Isopropyltoluene	121		-		70-130	-		
1,2-Dichlorobenzene	126		-		70-130	-		
n-Butylbenzene	**131**	Q	-		70-130	-		
1,2-Dibromo-3-chloropropane	128		-		70-130	-		
1,2,4-Trichlorobenzene	148		-		50-150	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200005
Report Date: 01/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG511601-3								
Naphthalene	131		-		50-150	-		
1,2,3-Trichlorobenzene	**147**	Q	-		70-130	-		
Hexachlorobutadiene	148		-		50-150	-		
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG511603-3								
Benzene	95		-		70-130	-		
Chloroform	102		-		70-130	-		
Tetrachloroethene	111		-		70-130	-		
Trichloroethene	99		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200005
Report Date: 01/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG511601-5 QC Sample: L1200006-01 Client ID: DUP Sample						
Dichlorodifluoromethane	0.373	0.386	ppbV	3		25
Chloromethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Acetone	8.39	8.42	ppbV	0		25
Trichlorofluoromethane	0.227	0.238	ppbV	5		25
Ethyl ether	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	1.37	1.36	ppbV	1		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
2,2-Dichloropropane	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200005
Report Date: 01/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG511601-5 QC Sample: L1200006-01 Client ID: DUP Sample					
Isopropyl Ether	ND	ND	ppbV	NC	25
Ethyl-Tert-Butyl-Ether	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloropropene	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Tertiary-Amyl Methyl Ether	ND	ND	ppbV	NC	25
Dibromomethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	ND	ND	ppbV	NC	25
1,3-Dichloropropane	ND	ND	ppbV	NC	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200005
Report Date: 01/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG511601-5 QC Sample: L1200006-01 Client ID: DUP Sample					
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
1,2,3-Trichloropropane	ND	ND	ppbV	NC	25
Isopropylbenzene	ND	ND	ppbV	NC	25
Bromobenzene	ND	ND	ppbV	NC	25
o-Chlorotoluene	ND	ND	ppbV	NC	25
n-Propylbenzene	ND	ND	ppbV	NC	25
p-Chlorotoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
tert-Butylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200005
Report Date: 01/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG511601-5 QC Sample: L1200006-01 Client ID: DUP Sample					
sec-Butylbenzene	ND	ND	ppbV	NC	25
p-Isopropyltoluene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
n-Butylbenzene	ND	ND	ppbV	NC	25
1,2-Dibromo-3-chloropropane	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Naphthalene	ND	ND	ppbV	NC	25
1,2,3-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG511603-5 QC Sample: L1200006-01 Client ID: DUP Sample					
Benzene	0.213	0.219	ppbV	3	25
Chloroform	0.249	0.255	ppbV	2	25
Tetrachloroethene	0.081	0.083	ppbV	2	25
Trichloroethene	ND	ND	ppbV	NC	25

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200005

Project Number: 115058 **Report Date:** 01/16/12

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1200005-01	C-28	0281	#16 AMB		-	-	3.3	3.1	6
L1200005-01	C-28	1516	6.0L Can	L1119609	-28.3	-6.3	-	-	-
L1200005-02	B-28	0139	#16 AMB		-	-	3.2	3.0	6
L1200005-02	B-28	1655	6.0L Can	L1119609	-29.7	-8.9	-	-	-
L1200005-03	A-28	0428	#16 AMB		-	-	3.2	3.0	6
L1200005-03	A-28	634	6.0L Can	L1119609	-29.4	-9.5	-	-	-
L1200005-04	BG-28	0248	#16 AMB		-	-	3.2	3.5	9
L1200005-04	BG-28	939	6.0L Can	L1119609	-29.6	-7.4	-	-	-
L1200005-05	BG-28-DUP	0228	#16 AMB		-	-	3.2	3.9	20
L1200005-05	BG-28-DUP	641	6.0L Can	L1119609	-29.6	-7.8	-	-	-
L1200005-06	TB-28	0117	#16 AMB		-	-	3.1	3.1	0
L1200005-06	TB-28	1660	6.0L Can	L1119609	-29.9	-29.5	-	-	-

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1119609

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID:	L1119609-01	Date Collected:	11/22/11 14:54
Client ID:	CAN 1630 SHELF 54	Date Received:	11/23/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	11/28/11 21:40		
Analyst:	BS		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1119609

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1119609-01 Date Collected: 11/22/11 14:54

Client ID: CAN 1630 SHELF 54 Date Received: 11/23/11

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air (Low Level) - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1119609

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1119609-01 Date Collected: 11/22/11 14:54

Client ID: CAN 1630 SHELF 54 Date Received: 11/23/11

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air (Low Level) - Mansfield Lab								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1119609

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1119609-01 Date Collected: 11/22/11 14:54

Client ID: CAN 1630 SHELF 54 Date Received: 11/23/11

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air (Low Level) - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	110		60-140
Bromochloromethane	107		60-140
chlorobenzene-d5	105		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1119609

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID:	L1119609-01	Date Collected:	11/22/11 14:54
Client ID:	CAN 1630 SHELF 54	Date Received:	11/23/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	11/28/11 21:40		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1119609

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1119609-01 Date Collected: 11/22/11 14:54

Client ID: CAN 1630 SHELF 54 Date Received: 11/23/11

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1119609

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1119609-01 Date Collected: 11/22/11 14:54

Client ID: CAN 1630 SHELF 54 Date Received: 11/23/11

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	88		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1119609

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

AIR CAN CERTIFICATION RESULTS

Lab ID:	L1119609-01	Date Collected:	11/22/11 14:54
Client ID:	CAN 1630 SHELF 54	Date Received:	11/23/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	11/28/11 21:40		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200005
Report Date: 01/16/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1200005-01A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)
L1200005-02A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)
L1200005-03A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)
L1200005-04A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)
L1200005-05A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)
L1200005-06A	Canister - 6 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)

*Values in parentheses indicate holding time in days

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200005

Project Number: 115058 **Report Date:** 01/16/12

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	KEITH MIDDLE SCHOOL	**Lab Number:**	L1200005
Project Number:	115058	**Report Date:**	01/16/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200005
Project Number: 115058 **Report Date:** 01/16/12

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 3, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 245.7, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081B, 8082A, 8260B, 8270C, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, SM2320B, SM2540D, 2540G, EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020, 9050A. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 7474, 9040B, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A,7471B, 7474. Organic Parameters: EPA3050B, 3540C, 3630C, 8270C, 8081B, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID:460194. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters:EPA 3020A,6020A,245.7,9040B,SM4500H-B. Organic Parameters: EPA 3510C,3640A,3660B,3665A,8270C,8270D,8082A,8081B.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

L1200005

CHAIN OF CUSTODY RECORD

Project Name: Keith Middle School

Project No.: 115058

Sampling Date(s): 12/29/11

Laboratory: ALPHA

Laboratory P.O.: 39601

Shipping Date(s): 12/30/11

Shipper's Name: TRC

Box No.: 0

	Sample Code	Sampled Date	Container Size	Container G/P	MATRIX	Source Description	ANALYSIS	Vacuum Start	Vacuum End	Serial Numbers Can	Serial Numbers Flow
1	C-28	12/29/11	6L	SUMMA	air	indoor air - faculty dining room	TO-15A VOCs	27.68	7.02	1516	281
2	B-28	12/29/11	6L	SUMMA	air	indoor air - auditorium	TO-15A VOCs	29.15	9.44	1655	139
3	A-28	12/29/11	6L	SUMMA	air	indoor air - hallway (rm 169)	TO-15A VOCs	29.25	9.98	634	428
	0				0	0	0				
4	BG-28	12/29/11	6L	SUMMA	air	background	TO-15A VOCs	29.08	8.90	939	248
5	BG-28-DUP	12/29/11	6L	SUMMA	air	background	TO-15A VOCs	28.72	9.32	641	228
6	TB-28	12/29/11	6L	SUMMA	air	trip blank	TO-15A VOCs	n/a	n/a	1660	117
	0										

Relinquished by: [signature] **Date/Time:** 12/30/11 10:50 **Relinquished by:**

Received by: [signature] **Date/Time:** 12/30/11 11:30 **Received by:** [signature] 12/30/11 1630

Remarks (*):

Rel'd [signature] 12/31/11 00:30 [signature] 01/03/12 [signature] 1/3/12 0960

[signature] 01/03/12 902

Alpha
Summary
Forms

Organic Summary Forms

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-01	Date Collected	: 12/29/11 00:00
Client ID	: C-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 21:28
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218774	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.461	0.200	--	2.28	0.989	--	
74-87-3	Chloromethane	0.283	0.200	--	0.584	0.413	--	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	1.47	1.00	--	3.49	2.38	--	
75-69-4	Trichlorofluoromethane	0.211	0.200	--	1.18	1.12	--	
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.200	--	ND	0.590	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-01	Date Collected	: 12/29/11 00:00
Client ID	: C-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 21:28
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218774	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-01	Date Collected	: 12/29/11 00:00
Client ID	: C-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 21:28
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218774	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-02	Date Collected	: 12/29/11 00:00
Client ID	: B-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 22:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218775	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.460	0.200	--	2.27	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	2.63	1.00	--	6.25	2.38	--	
75-69-4	Trichlorofluoromethane	0.218	0.200	--	1.22	1.12	--	
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.263	0.200	--	0.776	0.590	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-02	Date Collected	: 12/29/11 00:00
Client ID	: B-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 22:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218775	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.257	0.200	--	0.968	0.754	--	
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	0.489	0.400	--	2.12	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.203	0.200	--	0.882	0.869	--	
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-02	Date Collected	: 12/29/11 00:00
Client ID	: B-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 22:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218775	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-03	Date Collected	: 12/29/11 00:00
Client ID	: A-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 22:40
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218776	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.463	0.200	--	2.29	0.989	--	
74-87-3	Chloromethane	0.307	0.200	--	0.634	0.413	--	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	1.68	1.00	--	3.99	2.38	--	
75-69-4	Trichlorofluoromethane	0.207	0.200	--	1.16	1.12	--	
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.200	--	ND	0.590	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-03	Date Collected	: 12/29/11 00:00
Client ID	: A-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 22:40
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218776	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-03	Date Collected	: 12/29/11 00:00
Client ID	: A-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 22:40
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218776	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-04	Date Collected	: 12/29/11 00:00
Client ID	: BG-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 23:15
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218777	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.452	0.200	--	2.24	0.989	--	
74-87-3	Chloromethane	0.529	0.200	--	1.09	0.413	--	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	0.207	0.200	--	1.16	1.12	--	
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.200	--	ND	0.590	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-04	Date Collected	: 12/29/11 00:00
Client ID	: BG-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 23:15
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218777	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-04	Date Collected	: 12/29/11 00:00
Client ID	: BG-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 23:15
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218777	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-05	Date Collected	: 12/29/11 00:00
Client ID	: BG-28-DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 23:51
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218778	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.465	0.200	--	2.30	0.989	--	
74-87-3	Chloromethane	0.469	0.200	--	0.968	0.413	--	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.200	--	ND	0.590	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-05	Date Collected	: 12/29/11 00:00
Client ID	: BG-28-DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 23:51
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218778	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-05	Date Collected	: 12/29/11 00:00
Client ID	: BG-28-DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 23:51
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218778	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-06	Date Collected	: 12/29/11 00:00
Client ID	: TB-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 20:16
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218772	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.200	--	ND	0.590	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-06	Date Collected	: 12/29/11 00:00
Client ID	: TB-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 20:16
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218772	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-06	Date Collected	: 12/29/11 00:00
Client ID	: TB-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 20:16
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218772	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511601-4	Date Collected	: NA
Client ID	: WG511601-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 01/05/12 19:40
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218771	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.200	--	ND	0.590	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511601-4	Date Collected	: NA
Client ID	: WG511601-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 01/05/12 19:40
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218771	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511601-4	Date Collected	: NA
Client ID	: WG511601-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 01/05/12 19:40
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218771	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511601-5	Date Collected	: 12/29/11 00:00
Client ID	: VS-1-28DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 01:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218780	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.386	0.200	--	1.91	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	8.42	1.00	--	20.0	2.38	--	
75-69-4	Trichlorofluoromethane	0.238	0.200	--	1.34	1.12	--	
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.36	0.200	--	4.01	0.590	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511601-5	Date Collected	: 12/29/11 00:00
Client ID	: VS-1-28DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 01:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218780	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511601-5	Date Collected	: 12/29/11 00:00
Client ID	: VS-1-28DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 01:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218780	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

3
LAB DUPLICATE
AIR VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1200005 Matrix: Air
Lab Sample ID : WG511601-5 Injected: 01/06/12 01:03 Lab File ID: R218780
Client Sample ID : VS-1-28

COMPOUND	SAMPLE CONCENTRATION (ppbV)	DUP CONCENTRATION (ppbV)	DUP % RPD	DUP RPD LIMIT
Dichlorodifluoromethane	0.373	0.386	3	25
Chloromethane	ND	ND	NC	25
Vinyl chloride	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Acetone	8.39	8.42	0	25
Trichlorofluoromethane	0.227	0.238	5	25
Ethyl ether	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
Methylene chloride	ND	ND	NC	25
Carbon disulfide	ND	ND	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
1,1-Dichloroethane	ND	ND	NC	25
Methyl tert butyl ether	ND	ND	NC	25
2-Butanone	1.37	1.36	1	25
cis-1,2-Dichloroethene	ND	ND	NC	25
Tetrahydrofuran	ND	ND	NC	25
2,2-Dichloropropane	ND	ND	NC	25
1,2-Dichloroethane	ND	ND	NC	25
Diisopropyl Ether	ND	ND	NC	25
tert-Butyl ethyl ether	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
1,1-Dichloropropene	ND	ND	NC	25
Carbon tetrachloride	ND	ND	NC	25
tert-amyl methyl ether	ND	ND	NC	25
Dibromomethane	ND	ND	NC	25
1,2-Dichloropropane	ND	ND	NC	25
Bromodichloromethane	ND	ND	NC	25
1,4-Dioxane	ND	ND	NC	25
cis-1,3-Dichloropropene	ND	ND	NC	25
4-Methyl-2-pentanone	ND	ND	NC	25
trans-1,3-Dichloropropen	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	ND	ND	NC	25
1,3-Dichloropropane	ND	ND	NC	25
2-Hexanone	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25
1,1,1,2-Tetrachloroethan	ND	ND	NC	25
Chlorobenzene	ND	ND	NC	25

* Values outside of QC limits.

COMMENTS: _____

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FORM III MCP-TO15

3
LAB DUPLICATE
AIR VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1200005 Matrix: Air
Lab Sample ID : WG511601-5 Injected: 01/06/12 01:03 Lab File ID: R218780
Client Sample ID : VS-1-28

COMPOUND	SAMPLE CONCENTRATION (ppbV)	DUP CONCENTRATION (ppbV)	DUP % RPD	DUP RPD LIMIT
Ethylbenzene	ND	ND	NC	25
p/m-Xylene	ND	ND	NC	25
Bromoform	ND	ND	NC	25
Styrene	ND	ND	NC	25
1,1,2,2-Tetrachloroethan	ND	ND	NC	25
o-Xylene	ND	ND	NC	25
1,2,3-Trichloropropane	ND	ND	NC	25
Isopropylbenzene	ND	ND	NC	25
Bromobenzene	ND	ND	NC	25
2-Chlorotoluene	ND	ND	NC	25
n-Propylbenzene	ND	ND	NC	25
4-Chlorotoluene	ND	ND	NC	25
1,3,5-Trimethybenzene	ND	ND	NC	25
tert-Butylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	ND	ND	NC	25
1,3-Dichlorobenzene	ND	ND	NC	25
1,4-Dichlorobenzene	ND	ND	NC	25
sec-Butylbenzene	ND	ND	NC	25
p-Isopropyltoluene	ND	ND	NC	25
1,2-Dichlorobenzene	ND	ND	NC	25
n-Butylbenzene	ND	ND	NC	25
1,2-Dibromo-3-chloroprop	ND	ND	NC	25
1,2,4-Trichlorobenzene	ND	ND	NC	25
Naphthalene	ND	ND	NC	25
1,2,3-Trichlorobenzene	ND	ND	NC	25
Hexachlorobutadiene	ND	ND	NC	25

* Values outside of QC limits.

COMMENTS: _____

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FORM III MCP-TO15

3
LAB CONTROL SAMPLE RECOVERY
AIR VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1200005 Matrix: Air
Lab Control Sample: WG511601-3LCS Injected: 01/05/12 17:06 Lab File ID: R218768

COMPOUND	SPIKE ADDED ppbV	SAMPLE CONC ppbV	LCS CONC ppbV	LCS % REC	LCSD CONC ppbV	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	10	NA	8.40	84	-	-	-		70-130
Chloromethane	10	NA	7.87	79	-	-	-		70-130
Vinyl chloride	10	NA	8.03	80	-	-	-		70-130
Bromomethane	10	NA	8.20	82	-	-	-		70-130
Chloroethane	10	NA	8.45	84	-	-	-		70-130
Acetone	10	NA	9.39	94	-	-	-		50-150
Trichlorofluoromethane	10	NA	8.29	83	-	-	-		70-130
Ethyl ether	10	NA	8.22	82	-	-	-		70-130
1,1-Dichloroethene	10	NA	8.27	83	-	-	-		70-130
Methylene chloride	10	NA	8.42	84	-	-	-		70-130
Carbon disulfide	10	NA	7.89	79	-	-	-		70-130
trans-1,2-Dichloroethene	10	NA	8.19	82	-	-	-		70-130
1,1-Dichloroethane	10	NA	7.81	78	-	-	-		70-130
Methyl tert butyl ether	10	NA	8.31	83	-	-	-		70-130
2-Butanone	10	NA	8.71	87	-	-	-		70-130
cis-1,2-Dichloroethene	10	NA	8.29	83	-	-	-		70-130
Tetrahydrofuran	10	NA	9.64	96	-	-	-		70-130
2,2-Dichloropropane	10	NA	8.36	84	-	-	-		70-130
1,2-Dichloroethane	10	NA	9.08	91	-	-	-		70-130
Diisopropyl Ether	10	NA	8.68	87	-	-	-		70-130
tert-Butyl ethyl ether	10	NA	8.78	88	-	-	-		70-130
1,1,1-Trichloroethane	10	NA	8.34	83	-	-	-		70-130
1,1-Dichloropropene	10	NA	8.19	82	-	-	-		70-130
Carbon tetrachloride	10	NA	8.26	83	-	-	-		70-130
tert-amyl methyl ether	10	NA	9.00	90	-	-	-		70-130
Dibromomethane	10	NA	8.03	80	-	-	-		70-130
1,2-Dichloropropane	10	NA	8.76	88	-	-	-		70-130
Bromodichloromethane	10	NA	8.31	83	-	-	-		70-130
1,4-Dioxane	10	NA	9.82	98	-	-	-		50-150
cis-1,3-Dichloropropene	10	NA	9.00	90	-	-	-		70-130
4-Methyl-2-pentanone	10	NA	9.56	96	-	-	-		70-130
trans-1,3-Dichloropropen	10	NA	7.66	77	-	-	-		70-130
1,1,2-Trichloroethane	10	NA	9.20	92	-	-	-		70-130
Toluene	10	NA	10.2	102	-	-	-		70-130
1,3-Dichloropropane	10	NA	9.78	98	-	-	-		70-130
2-Hexanone	10	NA	10.9	109	-	-	-		70-130
Dibromochloromethane	10	NA	10.6	106	-	-	-		70-130
1,2-Dibromoethane	10	NA	10.5	105	-	-	-		70-130
1,1,1,2-Tetrachloroethan	10	NA	10.1	101	-	-	-		70-130
Chlorobenzene	10	NA	10.7	107	-	-	-		70-130

* Values outside of QC limits.

COMMENTS: _____

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FORM III MCP-TO15

3
LAB CONTROL SAMPLE RECOVERY
AIR VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1200005 Matrix: Air
Lab Control Sample: WG511601-3LCS Injected: 01/05/12 17:06 Lab File ID: R218768

COMPOUND	SPIKE ADDED ppbV	SAMPLE CONC ppbV	LCS CONC ppbV	LCS % REC	LCSD CONC ppbV	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC.
Ethylbenzene	10	NA	11.1	111	-	-	-		70-130
p/m-Xylene	20	NA	22.1	110	-	-	-		70-130
Bromoform	10	NA	10.5	105	-	-	-		70-130
Styrene	10	NA	11.3	113	-	-	-		70-130
1,1,2,2-Tetrachloroethan	10	NA	11.8	118	-	-	-		70-130
o-Xylene	10	NA	11.9	119	-	-	-		70-130
1,2,3-Trichloropropane	10	NA	11.3	113	-	-	-		70-130
Isopropylbenzene	10	NA	11.2	112	-	-	-		70-130
Bromobenzene	10	NA	9.96	100	-	-	-		70-130
2-Chlorotoluene	10	NA	10.9	109	-	-	-		70-130
n-Propylbenzene	10	NA	11.6	116	-	-	-		70-130
4-Chlorotoluene	10	NA	11.0	110	-	-	-		70-130
1,3,5-Trimethybenzene	10	NA	12.3	123	-	-	-		70-130
tert-Butylbenzene	10	NA	12.3	123	-	-	-		70-130
1,2,4-Trimethylbenzene	10	NA	13.0	130	-	-	-		70-130
1,3-Dichlorobenzene	10	NA	12.3	123	-	-	-		70-130
1,4-Dichlorobenzene	10	NA	12.2	122	-	-	-		70-130
sec-Butylbenzene	10	NA	12.2	122	-	-	-		70-130
p-Isopropyltoluene	10	NA	12.1	121	-	-	-		70-130
1,2-Dichlorobenzene	10	NA	12.6	126	-	-	-		70-130
n-Butylbenzene	10	NA	13.1	131 *	-	-	-		70-130
1,2-Dibromo-3-chloroprop	10	NA	12.8	128	-	-	-		70-130
1,2,4-Trichlorobenzene	10	NA	14.8	148	-	-	-		50-150
Naphthalene	10	NA	13.1	131	-	-	-		50-150
1,2,3-Trichlorobenzene	10	NA	14.7	147 *	-	-	-		70-130
Hexachlorobutadiene	10	NA	14.8	148	-	-	-		50-150

* Values outside of QC limits.

COMMENTS: _____

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FORM III MCP-TO15

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

WG511601-4BLANK

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Lab File ID: R218771 Lab Sample ID: WG511601-4

Date Analyzed: 01/05/12 Time Analyzed: 19:40

Instrument ID: AIRPIANO2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	WG511601-3LCS	WG511601-3	R218768	01/05/12 17:06
02	TB-28	L1200005-06	R218772	01/05/12 20:16
03	C-28	L1200005-01	R218774	01/05/12 21:28
04	B-28	L1200005-02	R218775	01/05/12 22:04
05	A-28	L1200005-03	R218776	01/05/12 22:40
06	BG-28	L1200005-04	R218777	01/05/12 23:15
07	BG-28-DUP	L1200005-05	R218778	01/05/12 23:51
08	VS-1-28DUP	WG511601-5	R218780	01/06/12 01:03

COMMENTS: _____

page 1 of 1

FORM IV MCP-TO15 LOW

5A
VOLATILE INSTRUMENT PERFORMANCE CHECK
BROMOFLOUROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Lab File ID: R218555_tune BFB Injection Date: 12/21/11

Instrument ID: AIRPIANO2 BFB Injection Time: 16:06

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	8.0 - 40.0% of mass 95	20.9
75	30.0 - 66.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (.6)1
174	50.0 - 120.0% of mass 95	102.5
175	4.0 - 9.0% of mass 174	7.5 (7.3)1
176	93.0 - 101% of mass 174	99.4 (97)1
177	5.0 - 9.0% of mass 176	6.6 (6.7)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0.2	0.2	R218559	12/21/11	18:32
02	0.5	0.5	R218560	12/21/11	19:09
03	1.0	1.0	R218561	12/21/11	19:47
04	2.5	2.5	R218562	12/21/11	20:23
05	5.0	5.0	R218563	12/21/11	21:01
06	10	10	R218564	12/21/11	21:37
07	50.0	50.0	R218566	12/21/11	22:51
08	100.0	100.0	R218567	12/21/11	23:27
09	ICV QUANT REPORT	ICV QUANT REPO	R218570	12/22/11	01:19

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FORM V MCP-TO15

5A
VOLATILE INSTRUMENT PERFORMANCE CHECK
BROMOFLOUROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Lab File ID: R218767_tune BFB Injection Date: 01/05/12

Instrument ID: AIRPIANO2 BFB Injection Time: 16:30

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	8.0 - 40.0% of mass 95	18.2
75	30.0 - 66.0% of mass 95	47.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.9 (.8)1
174	50.0 - 120.0% of mass 95	108.9
175	4.0 - 9.0% of mass 174	8 (7.4)1
176	93.0 - 101% of mass 174	106.7 (98)1
177	5.0 - 9.0% of mass 176	7 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCAL	WG511601-2	R218768	01/05/12	17:06
02	WG511601-3LCS	WG511601-3	R218768	01/05/12	17:06
03	WG511601-4BLANK	WG511601-4	R218771	01/05/12	19:40
04	TB-28	L1200005-06	R218772	01/05/12	20:16
05	C-28	L1200005-01	R218774	01/05/12	21:28
06	B-28	L1200005-02	R218775	01/05/12	22:04
07	A-28	L1200005-03	R218776	01/05/12	22:40
08	BG-28	L1200005-04	R218777	01/05/12	23:15
09	BG-28-DUP	L1200005-05	R218778	01/05/12	23:51
10	VS-1-28DUP	WG511601-5	R218780	01/06/12	01:03

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FORM V MCP-TO15

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Instrument ID: AIRPIANO2 Calibration Date(s): 12/21/11 12/21/11

Calibration Times: 18:32 23:27

Calibration Files
0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D 2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D
50 =R218566.D 100 =R218567.D

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	1.130	1.412	1.317	1.193	1.407	1.414	1.436	1.423	1.341	8.79
3)		propylene	0.536	0.622	0.537	0.510	0.512	0.563	0.566	0.550	0.549	6.50
4)		propane	0.686	0.694	0.639	0.559	0.570	0.612	0.616	0.587	0.620	8.08
5)		dichlorodifluoromethane	2.321	2.554	2.427	2.289	2.433	2.586	2.605	2.526	2.467	4.85
6)	C	chloromethane	0.746	0.833	0.756	0.688	0.773	0.805	0.782	0.750	0.767	5.65
7)		Freon-114	2.394	2.735	2.589	2.390	2.678	2.680	2.706	2.653	2.603	5.26
8)	C	methanol			0.677	0.620	0.738	0.660	0.506	0.535	0.623	14.16
9)	C	vinyl chloride	0.802	0.928	0.851	0.798	0.867	0.929	0.906	0.879	0.870	5.90
10)	C	1,3-butadiene	0.566	0.640	0.578	0.532	0.610	0.625	0.617	0.610	0.597	5.94
11)		butane	1.368	1.374	1.451	1.463	1.438	1.496	1.469	1.392	1.431	3.34
12)	C	acetaldehyde	0.294	0.233	0.227	0.192	0.223	0.232	0.180	0.182	0.220	16.94
13)	C	bromomethane	0.884	0.951	0.909	0.806	0.911	0.929	0.882	0.861	0.891	5.02
14)	C	chloroethane	0.372	0.418	0.392	0.352	0.408	0.405	0.387	0.378	0.389	5.53
15)		ethanol	0.517	0.490	0.501	0.480	0.543	0.518	0.379	0.430	0.482	11.10
16)		dichlorofluoromethane	2.123	2.332	2.271	1.973	2.370	2.287	2.073	2.095	2.191	6.52
17)	C	vinyl bromide	0.719	0.925	0.862	0.771	0.909	0.920	0.844	0.848	0.850	8.63
18)	C	acrolein	0.249	0.303	0.272	0.201	0.294	0.294	0.242	0.265	0.265	12.81
19)		acetone		1.344	1.181	0.924	1.144	1.089	0.710	0.840	1.033	21.21
20)	C	acetonitrile		0.923	1.012	0.561	0.756	0.680	0.478	0.547	0.708	28.39
21)		trichlorofluoromethane	2.500	2.697	2.579	2.348	2.673	2.633	2.432	2.372	2.529	5.39
22)		isopropyl alcohol		1.273	1.330	1.041	1.187	1.179	0.960	1.032	1.143	11.92
23)	C	acrylonitrile	0.579	0.502	0.526	0.448	0.574	0.573	0.431	0.485	0.515	11.31
24)		pentane	1.518	1.511	1.604	1.337	1.522	1.497	1.465	1.444	1.487	5.17
25)		ethyl ether	0.847	0.859	0.863	0.756	1.027	0.984	0.781	0.796	0.864	11.13
26)	C	1,1-dichloroethene	1.346	1.489	1.503	1.301	1.501	1.460	1.313	1.308	1.403	6.65
27)		tertiary butyl alcohol	1.564	1.500	1.560	1.418	1.591	1.612	1.339	1.455	1.505	6.30
28)	C	methylene chloride		1.297	1.104	0.973	1.079	1.051	0.905	0.912	1.046	12.98
29)	C	3-chloropropene	1.154	1.200	1.185	0.987	1.148	1.129	0.997	1.016	1.102	7.94
30)	C	carbon disulfide	2.179	2.553	2.364	2.366	2.557	2.664	2.439	2.449	2.447	6.10
31)		Freon 113	1.750	2.033	1.983	1.683	1.994	1.968	1.806	1.803	1.877	7.03
32)		trans-1,2-dichloroethene	1.576	1.800	1.760	1.596	1.811	1.795	1.571	1.640	1.694	6.35
33)	C	1,1-dichloroethane	1.473	1.562	1.567	1.406	1.612	1.644	1.414	1.451	1.516	6.06
34)	C	MTBE	1.747	1.750	1.873	1.647	2.058	2.051	1.423	1.675	1.778	11.99
35)	C	vinyl acetate	1.394	1.152	1.292	1.044	1.559	1.478	1.068	1.249	1.280	14.72
36)	C	2-butanone	1.479	1.333	1.411	1.172	1.495	1.413	0.895	1.089	1.286	16.62
37)		cis-1,2-dichloroethene	1.142	0.979	1.088	0.875	1.274	1.280	0.934	1.008	1.073	14.09
38)		Ethyl Acetate	0.095	0.125	0.152	0.135	0.195	0.184	0.131	0.175	0.149	22.74
39)	C	chloroform	1.347	1.677	1.511	1.400	1.621	1.686	1.551	1.691	1.560	8.52
40)		Tetrahydrofuran	0.777	0.651	0.645	0.534	0.706	0.673	0.472	0.688	0.643	15.11
41)		2,2-dichloropropane	1.263	1.433	1.395	1.295	1.496	1.567	1.449	1.594	1.437	8.22
42)	C	1,2-dichloroethane	0.969	1.022	1.022	0.941	1.103	1.119	0.999	1.075	1.031	6.14
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.386	0.369	0.374	0.314	0.363	0.369	0.355	0.426	0.369	8.46
45)		diisopropyl ether	0.177	0.140	0.169	0.144	0.169	0.172	0.131	0.184	0.161	12.23
46)		tert-butyl ethyl ether	0.648	0.543	0.644	0.551	0.670	0.667	0.468	0.632	0.603	12.19
47)	s	1,2-dichloroethane-D4	0.452	0.406	0.468	0.522	0.376	0.346	0.374	0.339	0.410	15.74

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Instrument ID: AIRPIANO2 Calibration Date(s): 12/21/11 12/21/11

Calibration Times: 18:32 23:27

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
48)	C	1,1,1-trichloroethane	0.563	0.577	0.566	0.490	0.553	0.570	0.520	0.611	0.556	6.61
49)		1,1-dichloropropene	0.409	0.427	0.405	0.361	0.409	0.412	0.374	0.439	0.405	6.33
50)	C	benzene	0.796	0.728	0.724	0.626	0.711	0.735	0.660	0.776	0.720	7.74
51)		thiophene	0.450	0.424	0.397	0.377	0.421	0.443	0.395	0.474	0.423	7.66
52)	C	carbon tetrachloride	0.628	0.609	0.597	0.525	0.606	0.624	0.606	0.718	0.614	8.59
53)		cyclohexane	0.409	0.403	0.396	0.336	0.377	0.375	0.346	0.404	0.381	7.23
54)		tert-amyl methyl ether	0.572	0.525	0.580	0.497	0.602	0.612	0.440	0.599	0.553	10.94
55)		dibromomethane	0.381	0.340	0.348	0.311	0.356	0.359	0.327	0.395	0.352	7.78
56)	C	1,2-dichloropropane	0.263	0.254	0.250	0.214	0.247	0.269	0.243	0.299	0.255	9.50
57)		bromodichloromethane	0.565	0.540	0.540	0.488	0.551	0.590	0.548	0.672	0.562	9.42
58)	C	1,4-dioxane	0.124	0.150	0.133	0.119	0.146	0.146	0.113	0.150	0.135	11.02
59)	C	trichloroethene	0.368	0.382	0.381	0.325	0.367	0.382	0.369	0.440	0.377	8.33
60)	C	2,2,4-trimethylpentane	1.248	1.199	1.191	1.021	1.168	1.221	1.130	1.353	1.191	8.00
61)		heptane	0.502	0.452	0.441	0.380	0.425	0.444	0.401	0.476	0.440	8.86
62)		2,4,4-trimethyl-1-pentene	0.612	0.529	0.560	0.510	0.575	0.616	0.533	0.623	0.570	7.73
63)	C	cis-1,3-dichloropropene	0.339	0.321	0.354	0.301	0.368	0.393	0.373	0.464	0.364	13.71
64)	C	4-methyl-2-pentanone	0.519	0.436	0.476	0.409	0.469	0.482	0.369	0.469	0.454	10.38
65)		2,4,4-trimethyl-2-pentene	0.420	0.379	0.330	0.328	0.347	0.377	0.331	0.402	0.364	9.78
66)		trans-1,3-dichloropropene	0.339	0.302	0.335	0.282	0.358	0.378	0.352	0.463	0.351	15.55
67)	C	1,1,2-trichloroethane	0.322	0.256	0.279	0.241	0.280	0.292	0.265	0.335	0.284	11.31
68)	I	chlorobenzene-D5	----------ISTD----------									
69)	C	toluene	4.280	3.875	3.981	3.338	4.019	4.501	3.929	4.434	4.045	9.16
70)	s	toluene-D8	5.001	4.725	5.396	5.873	4.325	4.081	4.676	4.133	4.776	13.12
71)		2-methylthiophene	2.563	2.376	2.576	2.560	2.941	3.343	2.844	3.091	2.787	11.69
72)		1,3-dichloropropane	1.772	1.632	1.730	1.508	1.867	2.135	1.819	2.068	1.816	11.51
73)		2-hexanone	2.172	1.913	2.109	1.816	2.087	2.221	1.684	1.933	1.992	9.35
74)		3-methylthiophene	2.621	2.413	2.638	2.360	2.851	3.156	2.727	3.051	2.727	10.35
75)		dibromochloromethane	2.272	2.243	2.397	2.149	2.729	3.025	2.753	3.123	2.586	14.41
76)	C	1,2-dibromoethane	2.021	2.026	2.136	1.792	2.175	2.371	2.172	2.459	2.144	9.74
77)		butyl acetate	0.327	0.283	0.318	0.293	0.377	0.394	0.287	0.347	0.328	12.68
78)		octane	1.119	1.112	1.126	1.050	1.221	1.334	1.235	1.369	1.196	9.50
79)	C	tetrachloroethene	2.490	2.502	2.297	2.137	2.407	2.641	2.461	2.664	2.450	7.06
80)		1,1,1,2-tetrachloroethane	1.731	1.819	1.864	1.688	2.054	2.197	2.051	2.246	1.956	10.77
81)	C	chlorobenzene	3.118	3.092	3.099	2.668	3.217	3.570	3.346	3.793	3.238	10.51
82)	C	ethylbenzene	4.504	3.833	4.391	3.712	4.956	5.233	4.373	5.206	4.526	12.75
83)		2-ethylthiophene	2.710	2.559	2.840	2.489	3.187	3.527	2.908	3.431	2.957	13.14
84)	C	m+p-xylene	3.398	2.987	3.422	2.903	3.923	4.141	3.485	4.235	3.562	13.97
85)	C	bromoform	1.981	2.196	2.350	2.159	2.834	3.416	3.418	3.661	2.752	24.32
86)	C	styrene	2.333	2.103	2.512	2.092	2.862	3.104	2.659	3.200	2.608	16.33
87)	C	1,1,2,2-tetrachloroethane	2.181	2.167	2.465	2.192	2.948	3.129	2.605	3.019	2.588	15.47
88)	C	o-xylene	3.458	3.050	3.588	2.935	4.448	4.729	3.664	4.619	3.811	18.40
89)		1,2,3-trichloropropane	2.000	1.995	2.180	1.923	2.551	2.603	2.056	2.503	2.226	12.62
90)		nonane	2.581	2.365	2.611	2.340	2.955	3.320	2.886	3.078	2.767	12.63
91)	s	bromofluorobenzene	3.654	3.531	4.114	4.335	3.394	3.022	3.763	3.404	3.652	11.48
92)	C	isopropylbenzene	4.909	4.422	4.942	4.289	5.811	5.997	4.977	6.015	5.170	13.29
93)		bromobenzene	2.591	2.357	2.642	2.422	3.067	3.338	2.761	2.779	2.745	11.89
94)		2-chlorotoluene	1.343	1.293	1.329	1.241	1.650	1.763	1.607	1.874	1.513	15.91

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Instrument ID: AIRPIANO2 Calibration Date(s): 12/21/11 12/21/11

Calibration Times: 18:32 23:27

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
95)		n-propylbenzene	1.157	1.081	1.218	1.151	1.620	1.701	1.504	1.872	1.413	21.20
96)		4-chlorotoluene	3.505	3.172	3.407	3.143	4.262	4.612	4.053	4.880	3.879	17.21
97)		4-ethyl toluene	3.930	3.745	4.298	3.941	5.593	5.748	4.847	6.095	4.775	19.49
98)		1,3,5-trimethylbenzene	3.403	3.105	3.515	3.247	4.584	4.638	3.931	4.988	3.926	18.37
99)		tert-butylbenzene	3.628	3.302	3.898	3.608	5.116	5.442	4.690	5.270	4.369	19.56
100)		1,2,4-trimethylbenzene	3.057	2.724	3.252	3.087	4.410	4.758	4.122	4.726	3.767	21.89
101)		decane	1.888	1.672	2.147	2.006	2.908	3.132	2.750	3.312	2.477	25.13
102)	C	Benzyl Chloride	1.966	1.831	2.278	2.158	3.293	3.700	3.395		2.660	29.08
103)		1,3-dichlorobenzene	2.567	2.399	2.714	2.391	3.316	3.720	3.452	4.172	3.091	21.63
104)	C	1,4-dichlorobenzene	2.552	2.419	2.700	2.337	3.301	3.665	3.520	4.163	3.082	21.83
105)		sec-butylbenzene	4.735	4.460	5.306	4.922	7.057	7.422	6.282	7.504	5.961	21.11
106)		1,2,3-trimethylbenzene	2.101	1.933	2.309	2.251	3.211	3.322	2.748	3.457	2.667	22.48
107)		p-isopropyltoluene	3.828	3.447	4.317	4.216	6.019	6.364	5.487	6.494	5.021	24.07
108)		1,2-dichlorobenzene	2.357	2.240	2.501	2.245	3.193	3.452	3.117	3.808	2.864	21.15
109)		n-butylbenzene	3.101	2.952	3.739	3.685	5.437	5.661	4.701	6.559	4.479	29.35
110)		indan	2.267	2.184	2.411	2.245	3.183	3.409	2.823	3.580	2.763	20.47
111)		indene	1.646	1.754	2.061	1.891	2.779	2.902	2.497	3.191	2.340	24.83
112)	C	1,2-dibromo-3-chloropropane	0.780	0.692	0.880	0.877	1.272	1.410	1.238	1.536	1.085	29.14
113)		undecane	1.507	1.493	1.847	1.775	2.741	2.903	2.623	3.344	2.279	31.07#
114)		1,2,4,5-tetramethylbenzene	0.881	0.919	1.136	1.305	1.833	1.704	1.468	1.875	1.390	28.38
115)		dodecane	1.196	1.297	1.542	1.498	1.979	2.487	2.461	3.036	1.937	34.33#
116)	C	1,2,4-trichlorobenzene	1.431	1.539	1.758	1.616	2.334	2.814	2.930		2.060	30.42#
117)		naphthalene	3.486	3.097	3.485	3.400	4.924	5.717	5.433	7.024	4.571	31.05#
118)		1,2,3-trichlorobenzene	1.405	1.526	1.689	1.723	2.407	2.834	2.817	3.591	2.249	34.91#
119)		benzothiophene	1.173	1.251	1.548	1.181	1.663	2.172	2.545	3.417	1.869	42.56#
120)	C	hexachlorobutadiene	1.653	1.637	1.967	1.863	2.690	3.082	3.157		2.293	29.02
121)		2-methylnaphthalene		0.641	0.699	0.881	1.101	0.813	1.284	1.821	1.034	39.98#
122)		1-methylnaphthalene		1.199	1.221	1.221	1.452	1.229	2.174	2.962	1.637	41.61#

FORM VI-MCP-TO15

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Instrument ID: AIRPIANO2 Calibration Date: 01/05/2012 Time: 17:06

Lab File ID: R218768 Init. Calib. Date(s): 12/21/11 12/21/11

Sample No: WG511601-2,3,25 Init. Calib. Times : 18:32 23:27

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	85	0.00
5		dichlorodifluoromethane	2.467	2.073	16.0	68	-0.01
6	C	chloromethane	0.767	0.603	21.4	64	-0.02
9	C	vinyl chloride	0.870	0.698	19.8	64	-0.02
13	C	bromomethane	0.891	0.731	18.0	67	-0.01
14	C	chloroethane	0.389	0.329	15.4	69	-0.01
19		acetone	1.033	0.970	6.1	76	-0.01
21		trichlorofluoromethane	2.529	2.096	17.1	68	0.00
25		ethyl ether	0.864	0.710	17.8	62	-0.01
26	C	1,1-dichloroethene	1.403	1.160	17.3	68	0.00
28	C	methylene chloride	1.046	0.881	15.8	72	-0.01
30	C	carbon disulfide	2.447	1.931	21.1	62	0.00
32		trans-1,2-dichloroethene	1.694	1.387	18.1	66	-0.01
33	C	1,1-dichloroethane	1.516	1.185	21.8	62	0.00
34	C	MTBE	1.778	1.477	16.9	61	0.00
36	C	2-butanone	1.286	1.119	13.0	68	0.00
37		cis-1,2-dichloroethene	1.073	0.889	17.1	59#	0.00
40		Tetrahydrofuran	0.643	0.620	3.6	79	0.00
41		2,2-dichloropropane	1.437	1.200	16.5	65	0.00
42	C	1,2-dichloroethane	1.031	0.936	9.2	71	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	91	0.00
45		diisopropyl ether	0.161	0.139	13.7	74	0.00
46		tert-butyl ethyl ether	0.603	0.529	12.3	72	0.00
48	C	1,1,1-trichloroethane	0.556	0.464	16.5	74	0.00
49		1,1-dichloropropene	0.405	0.331	18.3	73	0.00
52	C	carbon tetrachloride	0.614	0.507	17.4	74	0.00
54		tert-amyl methyl ether	0.553	0.498	9.9	74	0.00
55		dibromomethane	0.352	0.283	19.6	72	0.00
56	C	1,2-dichloropropane	0.255	0.223	12.5	76	0.00
57		bromodichloromethane	0.562	0.467	16.9	72	0.00
58	C	1,4-dioxane	0.135	0.133	1.5	83	0.00
63	C	cis-1,3-dichloropropene	0.364	0.328	9.9	76	0.00
64	C	4-methyl-2-pentanone	0.454	0.434	4.4	82	0.00
66		trans-1,3-dichloropropene	0.351	0.269	23.4	65	0.00
67	C	1,1,2-trichloroethane	0.284	0.261	8.1	82	0.00
68	I	chlorobenzene-D5	1.000	1.000	0.0	81	0.00
69	C	toluene	4.045	4.132	-2.2	74	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-2,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
72		1,3-dichloropropane	1.816	1.777	2.1	67	0.00
73		2-hexanone	1.992	2.175	-9.2	79	0.00
75		dibromochloromethane	2.586	2.741	-6.0	73	0.00
76	C	1,2-dibromoethane	2.144	2.249	-4.9	77	0.00
80		1,1,1,2-tetrachloroethane	1.956	1.970	-0.7	73	0.00
81	C	chlorobenzene	3.238	3.454	-6.7	78	0.00
82	C	ethylbenzene	4.526	5.018	-10.9	78	0.00
84	C	m+p-xylene	3.562	3.932	-10.4	77	0.00
85	C	bromoform	2.752	2.895	-5.2	69	0.00
86	C	styrene	2.608	2.957	-13.4	77	0.00
87	C	1,1,2,2-tetrachloroethane	2.588	3.045	-17.7	79	0.00
88	C	o-xylene	3.811	4.552	-19.4	78	0.00
89		1,2,3-trichloropropane	2.226	2.510	-12.8	78	0.00
92	C	isopropylbenzene	5.170	5.806	-12.3	79	0.00
93		bromobenzene	2.745	2.733	0.4	66	0.00
94		2-chlorotoluene	1.513	1.655	-9.4	76	0.00
95		n-propylbenzene	1.413	1.643	-16.3	78	0.00
96		4-chlorotoluene	3.879	4.255	-9.7	75	0.00
98		1,3,5-trimethylbenzene	3.926	4.822	-22.8	84	0.00
99		tert-butylbenzene	4.369	5.363	-22.8	80	-0.01
100		1,2,4-trimethylbenzene	3.767	4.888	-29.8	83	-0.01
103		1,3-dichlorobenzene	3.091	3.806	-23.1	83	-0.02
104	C	1,4-dichlorobenzene	3.082	3.768	-22.3	83	-0.02
105		sec-butylbenzene	5.961	7.274	-22.0	79	-0.02
107		p-isopropyltoluene	5.021	6.090	-21.3	78	-0.02
108		1,2-dichlorobenzene	2.864	3.616	-26.3	85	-0.02
109		n-butylbenzene	4.479	5.862	-30.9#	84	-0.02
112	C	1,2-dibromo-3-chloropropane	1.085	1.390	-28.1	80	-0.03
116	C	1,2,4-trichlorobenzene	2.060	3.047	-47.9#	88	-0.03
117		naphthalene	4.571	5.969	-30.6#	85	-0.03
118		1,2,3-trichlorobenzene	2.249	3.307	-47.0#	95	-0.03
120	C	hexachlorobutadiene	2.293	3.388	-47.8#	89	-0.04

* Evaluation of CC level amount vs concentration.

FORM VII MCP-TO15

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Instrument ID: AIRPIANO2 Calibration Date: 12/22/2011 Time: 01:19

Lab File ID: R218570 Init. Calib. Date(s): 12/21/11 12/21/11

Sample No: CTO15-LLSTD10 Init. Calib. Times : 18:32 23:27

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	89	0.00
2		chlorodifluoromethane	1.341	1.349	-0.6	85	0.00
3		propylene	0.549	0.593	-8.0	94	0.00
4		propane	0.620	0.579	6.6	84	0.00
5		dichlorodifluoromethane	2.467	2.645	-7.2	91	0.00
6	C	chloromethane	0.767	0.810	-5.6	89	0.00
7		Freon-114	2.603	2.861	-9.9	95	0.00
8	C	methanol	0.623	0.235	62.3#	32#	0.00
9	C	vinyl chloride	0.870	0.950	-9.2	91	0.00
10	C	1,3-butadiene	0.597	0.658	-10.2	94	0.00
11		butane	1.431	1.490	-4.1	89	0.00
13	C	bromomethane	0.891	0.966	-8.4	92	0.00
14	C	chloroethane	0.389	0.417	-7.2	92	0.00
15		ethanol	0.482	0.480	0.4	82	0.00
16		dichlorofluoromethane	2.191	2.203	-0.5	86	0.00
17	C	vinyl bromide	0.850	0.990	-16.5	96	0.00
18	C	acrolein	0.265	0.255	3.8	77	0.00
19		acetone	1.033	0.994	3.8	81	0.00
20	C	acetonitrile	0.708	0.563	20.5	74	0.00
21		trichlorofluoromethane	2.529	2.869	-13.4	97	0.00
22		isopropyl alcohol	1.143	0.970	15.1	73	0.00
23	C	acrylonitrile	0.515	0.491	4.7	76	0.00
24		pentane	1.487	1.516	-2.0	90	0.00
25		ethyl ether	0.864	0.817	5.4	74	0.00
26	C	1,1-dichloroethene	1.403	1.615	-15.1	98	0.00
27		tertiary butyl alcohol	1.505	1.607	-6.8	89	0.00
28	C	methylene chloride	1.046	1.103	-5.4	93	0.00
29	C	3-chloropropene	1.102	1.042	5.4	82	0.00
30	C	carbon disulfide	2.447	1.797	26.6	60#	0.00
31		Freon 113	1.877	2.121	-13.0	96	0.00
32		trans-1,2-dichloroethene	1.694	1.522	10.2	75	0.00
33	C	1,1-dichloroethane	1.516	1.595	-5.2	86	0.00
34	C	MTBE	1.778	1.902	-7.0	82	0.00
35	C	vinyl acetate	1.280	1.353	-5.7	81	0.00
36	C	2-butanone	1.286	1.130	12.1	71	0.00
37		cis-1,2-dichloroethene	1.073	1.064	0.8	74	0.00
38		Ethyl Acetate	0.149	0.178	-19.5	86	0.00
39	C	chloroform	1.560	1.700	-9.0	90	0.00
40		Tetrahydrofuran	0.643	0.631	1.9	83	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	1.437	1.437	0.0	81	0.00
42	C	1,2-dichloroethane	1.031	1.098	-6.5	87	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.00
44	C	hexane	0.369	0.381	-3.3	90	0.00
45		diisopropyl ether	0.161	0.160	0.6	81	0.00
46		tert-butyl ethyl ether	0.603	0.608	-0.8	80	0.00
47	s	1,2-dichloroethane-D4	0.410	0.359	12.4	90	0.00
48	C	1,1,1-trichloroethane	0.556	0.610	-9.7	93	0.00
49		1,1-dichloropropene	0.405	0.432	-6.7	92	0.00
50	C	benzene	0.720	0.712	1.1	85	0.00
52	C	carbon tetrachloride	0.614	0.688	-12.1	96	0.00
53		cyclohexane	0.381	0.412	-8.1	96	0.00
54		tert-amyl methyl ether	0.553	0.577	-4.3	82	0.00
55		dibromomethane	0.352	0.354	-0.6	86	0.00
56	C	1,2-dichloropropane	0.255	0.258	-1.2	84	0.00
57		bromodichloromethane	0.562	0.598	-6.4	88	0.00
58	C	1,4-dioxane	0.135	0.150	-11.1	90	0.00
59	C	trichloroethene	0.377	0.408	-8.2	93	0.00
60	C	2,2,4-trimethylpentane	1.191	1.269	-6.5	91	0.00
61		heptane	0.440	0.456	-3.6	90	0.00
62		2,4,4-trimethyl-1-pentene	0.570	0.641	-12.5	91	0.00
63	C	cis-1,3-dichloropropene	0.364	0.406	-11.5	90	0.00
64	C	4-methyl-2-pentanone	0.454	0.506	-11.5	92	0.00
65		2,4,4-trimethyl-2-pentene	0.364	0.385	-5.8	89	0.00
66		trans-1,3-dichloropropene	0.351	0.337	4.0	78	0.00
67	C	1,1,2-trichloroethane	0.284	0.301	-6.0	90	0.00
68	I	chlorobenzene-D5	1.000	1.000	0.0	94	0.00
69	C	toluene	4.045	3.937	2.7	83	0.00
70	s	toluene-D8	4.776	4.164	12.8	96	0.00
72		1,3-dichloropropane	1.816	1.656	8.8	73	0.00
73		2-hexanone	1.992	1.971	1.1	84	0.00
75		dibromochloromethane	2.586	2.685	-3.8	84	0.00
76	C	1,2-dibromoethane	2.144	2.182	-1.8	87	0.00
77		butyl acetate	0.328	0.345	-5.2	83	0.00
78		octane	1.196	1.172	2.0	83	0.00
79	C	tetrachloroethene	2.450	2.524	-3.0	90	0.00
80		1,1,1,2-tetrachloroethane	1.956	1.900	2.9	82	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	C	chlorobenzene	3.238	3.305	-2.1	87	0.00
82	C	ethylbenzene	4.526	4.636	-2.4	84	0.00
84	C	m+p-xylene	3.562	3.622	-1.7	83	0.00
85	C	bromoform	2.752	2.952	-7.3	81	0.00
86	C	styrene	2.608	2.770	-6.2	84	0.00
87	C	1,1,2,2-tetrachloroethane	2.588	2.765	-6.8	83	0.00
88	C	o-xylene	3.811	3.864	-1.4	77	0.00
89		1,2,3-trichloropropane	2.226	2.185	1.8	79	0.00
90		nonane	2.767	2.630	5.0	75	0.00
91	s	bromofluorobenzene	3.652	3.369	7.7	105	0.00
92	C	isopropylbenzene	5.170	5.061	2.1	80	0.00
93		bromobenzene	2.745	2.692	1.9	76	0.00
94		2-chlorotoluene	1.513	1.466	3.1	78	0.00
95		n-propylbenzene	1.413	1.421	-0.6	79	0.00
96		4-chlorotoluene	3.879	3.852	0.7	79	0.00
97		4-ethyl toluene	4.775	5.210	-9.1	85	0.00
98		1,3,5-trimethylbenzene	3.926	4.130	-5.2	84	0.00
99		tert-butylbenzene	4.369	4.509	-3.2	78	-0.01
100		1,2,4-trimethylbenzene	3.767	4.151	-10.2	82	-0.01
101		decane	2.477	2.458	0.8	74	-0.01
102	C	Benzyl Chloride	2.660	3.160	-18.8	81	-0.01
103		1,3-dichlorobenzene	3.091	3.227	-4.4	82	-0.01
104	C	1,4-dichlorobenzene	3.082	3.225	-4.6	83	-0.01
105		sec-butylbenzene	5.961	6.065	-1.7	77	-0.01
107		p-isopropyltoluene	5.021	4.988	0.7	74	-0.01
108		1,2-dichlorobenzene	2.864	3.022	-5.5	83	-0.01
109		n-butylbenzene	4.479	4.824	-7.7	80	0.00
112	C	1,2-dibromo-3-chloropropane	1.085	1.221	-12.5	82	0.00
113		undecane	2.279	2.433	-6.8	79	0.00
115		dodecane	1.937	2.256	-16.5	86	0.00
116	C	1,2,4-trichlorobenzene	2.060	2.426	-17.8	81	0.00
117		naphthalene	4.571	4.801	-5.0	79	0.00
118		1,2,3-trichlorobenzene	2.249	2.374	-5.6	79	0.00
120	C	hexachlorobutadiene	2.293	2.668	-16.4	82	0.00

* Evaluation of CC level amount vs concentration.

FORM VII MCP-TO15

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Lab File ID (Standard): R218768 Date Analyzed: 01/05/12

Instrument ID : AIRPIANO2 Time Analyzed: 17:06

		IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
	12 HOUR STD	151117	10.36	485506	12.55	90670	16.91
	UPPER LIMIT	211564	10.69	679708	12.88	126938	17.24
	LOWER LIMIT	90670	10.03	291304	12.22	54402	16.58
	EPA SAMPLE NO.						
01	WG511601-3LCS	151117	10.36	485506	12.55	90670	16.91
02	WG511601-4BLANK	139978	10.36	444228	12.55	82489	16.91
03	TB-28	139005	10.36	430809	12.55	81309	16.91
04	C-28	139719	10.36	434186	12.55	83813	16.91
05	B-28	139002	10.36	439658	12.55	82015	16.91
06	A-28	137321	10.36	434380	12.55	80413	16.91
07	BG-28	137456	10.36	441957	12.55	84617	16.91
08	BG-28-DUP	137858	10.36	421424	12.55	80351	16.91
09	WG511601-5DUP	141133	10.36	416663	12.55	80602	16.91

IS1 = BROMOCHLOROMETHANE
IS2 = 1,4-DIFLUOROBENZENE
IS3 = CHLOROBENZENE-D5

AREA UPPER LIMIT = + 40% of internal standard area
AREA LOWER LIMIT = - 40 % of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

* Values outside of QC limits.

page 1 of 1 FORM VIII - MCP-TO15

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-01	Date Collected	: 12/29/11 00:00
Client ID	: C-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 21:28
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218774	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	0.170	0.100	--	0.543	0.319	--	
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-02	Date Collected	: 12/29/11 00:00
Client ID	: B-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 22:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218775	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	0.164	0.100	--	0.524	0.319	--	
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
79-01-6	Trichloroethene	0.026	0.020	--	0.140	0.107	--	

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-03	Date Collected	: 12/29/11 00:00
Client ID	: A-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 22:40
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218776	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	0.141	0.100	--	0.450	0.319	--	
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-04	Date Collected	: 12/29/11 00:00
Client ID	: BG-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 23:15
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218777	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	0.123	0.100	--	0.393	0.319	--	
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-05	Date Collected	: 12/29/11 00:00
Client ID	: BG-28-DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 23:51
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218778	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	0.126	0.100	--	0.402	0.319	--	
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200005-06	Date Collected	: 12/29/11 00:00
Client ID	: TB-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 20:16
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218772	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	ND	0.100	--	ND	0.319	--	U
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511603-4	Date Collected	: NA
Client ID	: WG511603-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 01/05/12 19:40
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218771	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	ND	0.100	--	ND	0.319	--	U
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200005
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511603-5	Date Collected	: 12/29/11 00:00
Client ID	: VS-1-28DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 01:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218780	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	0.219	0.100	--	0.700	0.319	--	
67-66-3	Chloroform	0.255	0.020	--	1.24	0.098	--	
127-18-4	Tetrachloroethene	0.0830	0.020	--	0.563	0.136	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

3
LAB DUPLICATE
AIR VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1200005 Matrix: Air
Lab Sample ID : WG511603-5 Injected: 01/06/12 01:03 Lab File ID: R218780
Client Sample ID : VS-1-28

COMPOUND	SAMPLE CONCENTRATION (ppbV)	DUP CONCENTRATION (ppbV)	DUP % RPD	DUP RPD LIMIT
Benzene	0.213	0.219	3	25
Chloroform	0.249	0.255	2	25
Tetrachloroethene	0.081	0.083	2	25
Trichloroethene	ND	ND	NC	25

* Values outside of QC limits.

COMMENTS: _____

_____

FORM III MCP-TO15-SIM

3

LAB CONTROL SAMPLE RECOVERY

AIR VOLATILE

Lab Name: Alpha Analytical Labs

SDG No.: L1200005 Matrix: Air

Lab Control Sample: WG511603-3LCS Injected: 01/05/12 18:04 Lab File ID: R218769

COMPOUND	SPIKE ADDED ppbV	SAMPLE CONC ppbV	LCS CONC ppbV	LCS % REC	LCSD CONC ppbV	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	5	NA	4.74	95	-	-	-		70-130
Chloroform	5	NA	5.10	102	-	-	-		70-130
Tetrachloroethene	5	NA	5.56	111	-	-	-		70-130
Trichloroethene	5	NA	4.93	99	-	-	-		70-130

* Values outside of QC limits.

COMMENTS: _____

_____

FORM III MCP-TO15-SIM

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

WG511603-4BLANK

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Lab File ID: R218771 Lab Sample ID: WG511603-4

Date Analyzed: 01/05/12 Time Analyzed: 19:40

Instrument ID: AIRPIANO2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	WG511603-3LCS	WG511603-3	R218769	01/05/12 18:04
02	TB-28	L1200005-06	R218772	01/05/12 20:16
03	C-28	L1200005-01	R218774	01/05/12 21:28
04	B-28	L1200005-02	R218775	01/05/12 22:04
05	A-28	L1200005-03	R218776	01/05/12 22:40
06	BG-28	L1200005-04	R218777	01/05/12 23:15
07	BG-28-DUP	L1200005-05	R218778	01/05/12 23:51
08	VS-1-28DUP	WG511603-5	R218780	01/06/12 01:03

COMMENTS: _____

page 1 of 1

FORM IV MCP-TO15-SIM LOW

5A
VOLATILE INSTRUMENT PERFORMANCE CHECK
BROMOFLOUROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Lab File ID: R218555_tune BFB Injection Date: 12/21/11

Instrument ID: AIRPIANO2 BFB Injection Time: 16:06

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	8.0 - 40.0% of mass 95	20.9
75	30.0 - 66.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (.6)1
174	50.0 - 120.0% of mass 95	102.5
175	4.0 - 9.0% of mass 174	7.5 (7.3)1
176	93.0 - 101% of mass 174	99.4 (97)1
177	5.0 - 9.0% of mass 176	6.6 (6.7)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0.02	0.02	R218556	12/21/11	16:43
02	0.04	0.04	R218557	12/21/11	17:19
03	0.1	0.1	R218558	12/21/11	17:55
04	0.2	0.2	R218559	12/21/11	18:32
05	0.5	0.5	R218560	12/21/11	19:09
06	1.0	1.0	R218561	12/21/11	19:47
07	2.5	2.5	R218562	12/21/11	20:23
08	5.0	5.0	R218563	12/21/11	21:01
09	10.0	10.0	R218564	12/21/11	21:37
10	50.0	50.0	R218566	12/21/11	22:51
11	ICV QUANT REPORT	ICV QUANT REPO	R218571	12/22/11	01:56

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FORM V MCP-TO15-SIM

5A
VOLATILE INSTRUMENT PERFORMANCE CHECK
BROMOFLOUROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Lab File ID: R218767_tune BFB Injection Date: 01/05/12

Instrument ID: AIRPIANO2 BFB Injection Time: 16:30

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	8.0 - 40.0% of mass 95	18.2
75	30.0 - 66.0% of mass 95	47.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.9 (.8)1
174	50.0 - 120.0% of mass 95	108.9
175	4.0 - 9.0% of mass 174	8 (7.4)1
176	93.0 - 101% of mass 174	106.7 (98)1
177	5.0 - 9.0% of mass 176	7 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCAL	WG511603-2	R218769	01/05/12	18:04
02	WG511603-3LCS	WG511603-3	R218769	01/05/12	18:04
03	WG511603-4BLANK	WG511603-4	R218771	01/05/12	19:40
04	TB-28	L1200005-06	R218772	01/05/12	20:16
05	C-28	L1200005-01	R218774	01/05/12	21:28
06	B-28	L1200005-02	R218775	01/05/12	22:04
07	A-28	L1200005-03	R218776	01/05/12	22:40
08	BG-28	L1200005-04	R218777	01/05/12	23:15
09	BG-28-DUP	L1200005-05	R218778	01/05/12	23:51
10	VS-1-28DUP	WG511603-5	R218780	01/06/12	01:03

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FORM V MCP-TO15-SIM

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Instrument ID: AIRPIANO2 Calibration Date(s): 12/21/11 12/21/11

Calibration Times: 16:43 22:51

Calibration Files
0.02=R218556.D 0.04=R218557.D 0.1 =R218558.D 0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D
2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D 50 =R218566.D

		Compound	0.02	0.04	0.1	0.2	0.5	1.0	2.5	5.0	10	50	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------											
2)		dichlorodifluoromethane	3.534	2.899	2.624	2.335	2.589	2.420	2.349	2.442	2.580	2.594	2.637	13.50
3)	C	chloromethane			0.809	0.708	0.756	0.703	0.663	0.717	0.753	0.740	0.731	5.99
4)		Freon-114	3.521	2.881	2.636	2.418	2.651	2.525	2.348	2.615	2.614	2.627	2.684	12.20
5)	C	vinyl chloride	1.141	0.897	0.844	0.770	0.866	0.814	0.774	0.841	0.881	0.868	0.870	12.01
6)	C	1,3-butadiene	0.708	0.565	0.535	0.497	0.547	0.528	0.477	0.553	0.564	0.561	0.554	11.15
7)	C	bromomethane	1.226	1.033	0.871	0.795	0.895	0.846	0.778	0.888	0.905	0.866	0.910	14.37
8)	C	chloroethane	0.518	0.453	0.369	0.349	0.377	0.370	0.326	0.383	0.386	0.367	0.390	14.24
9)		acetone					1.119	1.094	0.848	1.050	0.990	0.660	0.960	18.34
10)		trichlorofluoromethane	3.395	2.852	2.645	2.417	2.688	2.554	2.315	2.650	2.584	2.407	2.651	11.50
11)	C	acrylonitrile	0.616	0.509	0.352	0.389	0.349	0.382	0.330	0.441	0.436	0.339	0.414	21.82
12)	C	1,1-dichloroethene	1.875	1.548	1.441	1.306	1.465	1.390	1.249	1.438	1.401	1.254	1.437	12.58
13)	C	methylene chloride					1.244	1.092	0.908	1.021	0.986	0.857	1.018	13.58
14)		Freon 113	2.557	2.088	1.859	1.733	1.896	1.841	1.622	1.905	1.866	1.691	1.906	13.79
15)		Halothane	1.553	1.388	1.155	1.104	1.171	1.166	1.112	1.290	1.378	1.129	1.245	12.14
16)		trans-1,2-dichloroethene	2.032	1.666	1.518	1.402	1.556	1.509	1.348	1.565	1.554	1.392	1.554	12.44
17)	C	1,1-dichloroethane	2.015	1.679	1.467	1.378	1.490	1.478	1.319	1.530	1.555	1.342	1.525	13.28
18)	C	MTBE	2.461	2.329	1.539	1.698	1.550	1.676	1.479	1.866	1.844	1.276	1.772	21.03
19)	C	2-butanone			1.355	1.431	1.201	1.315	1.122	1.448	1.365	0.868	1.263	15.37
20)		cis-1,2-dichloroethene	1.469	1.114	0.973	1.058	1.002	1.093	0.899	1.189	1.193	0.947	1.094	15.06
21)	C	chloroform	2.188	1.833	1.597	1.522	1.649	1.631	1.477	1.705	1.750	1.593	1.695	11.95
22)	C	1,2-dichloroethane	1.416	1.183	1.009	0.982	1.046	1.060	0.957	1.107	1.138	1.002	1.090	12.39
23)	I	1,4-difluorobenzene	----------ISTD----------											
24)	s	1,2-dichloroethane-D4	0.405	0.350	0.462	0.433	0.395	0.451	0.496	0.362	0.336	0.364	0.405	13.25
25)	C	1,1,1-trichloroethane	0.833	0.607	0.552	0.563	0.576	0.571	0.497	0.565	0.580	0.526	0.587	15.57
26)	C	benzene			0.771	0.738	0.692	0.679	0.589	0.671	0.697	0.625	0.683	8.46
27)	C	carbon tetrachloride	0.862	0.626	0.583	0.598	0.622	0.612	0.538	0.624	0.637	0.604	0.631	13.64
28)	C	1,2-dichloropropane	0.341	0.277	0.224	0.244	0.229	0.236	0.206	0.241	0.260	0.232	0.249	15.18
29)		bromodichloromethane	0.741	0.540	0.489	0.510	0.512	0.512	0.457	0.529	0.560	0.518	0.537	14.36
30)	C	trichloroethene	0.571	0.383	0.370	0.378	0.390	0.383	0.336	0.372	0.390	0.364	0.394	16.32
31)	C	1,4-Dioxane			0.141	0.147	0.128	0.133	0.113	0.137	0.137	0.108	0.130	10.46
32)	C	cis-1,3-dichloropropene	0.490	0.361	0.309	0.344	0.326	0.341	0.296	0.355	0.385	0.360	0.356	15.05
33)	C	4-methyl-2-pentanone		0.575	0.377	0.433	0.381	0.425	0.373	0.430	0.443	0.341	0.420	16.13
34)		trans-1,3-dichloropropene	0.447	0.340	0.279	0.326	0.302	0.328	0.277	0.353	0.376	0.342	0.337	14.73
35)	C	1,1,2-trichloroethane	0.398	0.307	0.254	0.283	0.266	0.275	0.236	0.283	0.299	0.263	0.286	15.43
36)	I	chlorobenzene-D5	----------ISTD----------											
37)	C	toluene		6.368	4.382	4.359	3.902	4.078	3.361	4.130	4.578	3.864	4.336	19.41
38)	s	toluene-D8	5.156	4.434	5.876	5.412	5.042	5.835	6.269	4.688	4.429	5.054	5.220	12.01
39)		dibromochloromethane	3.470	2.599	2.269	2.438	2.455	2.586	2.324	2.857	3.238	2.987	2.722	14.81
40)	C	1,2-dibromoethane	3.238	2.445	2.017	2.253	2.193	2.337	1.948	2.412	2.679	2.359	2.388	15.30
41)	C	tetrachloroethene	3.851	2.745	2.561	2.624	2.708	2.704	2.363	2.720	2.959	2.664	2.790	14.40
42)		1,1,1,2-tetrachloroethane	2.417	1.882	1.592	1.746	1.730	1.811	1.604	1.965	2.102	1.781	1.863	13.34
43)	C	chlorobenzene	5.635	3.878	3.105	3.396	3.313	3.462	2.910	3.576	3.848	3.407	3.653	20.71
44)	C	ethylbenzene	8.260	5.825	3.959	4.621	4.168	4.675	3.832	5.121	5.413	4.396	5.027	25.89
45)	C	m+p-xylene	6.099	4.294	2.955	3.526	3.155	3.588	2.970	4.071	4.290	3.445	3.839	24.39
46)	C	bromoform	4.582	2.887	2.260	2.460	2.436	2.661	2.411	3.224	3.745	3.413	3.008	24.55
47)	C	styrene	3.662	2.678	2.007	2.431	2.222	2.582	2.151	3.002	3.222	2.674	2.663	19.29

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Instrument ID: AIRPIANO2 Calibration Date(s): 12/21/11 12/21/11

Calibration Times: 16:43 22:51

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	2.5	5.0	10	50	Avg	%RSD
48) C	1,1,2,2-tetrachloroethane	3.462	2.934	2.208	2.612	2.422	2.721	2.344	3.159	3.346	2.683	2.789	15.30
49) C	o-xylene	7.054	4.804	3.035	3.646	3.257	3.701	3.060	4.229	4.452	3.546	4.078	29.42
50) s	bromofluorobenzene	3.680	3.042	4.201	3.902	3.754	4.422	4.605	3.657	3.267	4.038	3.857	12.60
51) C	isopropylbenzene	8.535	6.222	3.995	5.085	4.481	5.167	4.402	6.031	6.212	4.921	5.505	23.95
52)	4-ethyl toluene	5.863	4.603	3.097	4.157	3.852	4.527	4.078	5.846	5.983	4.744	4.675	20.56
53)	1,3,5-trimethylbenzene	7.030	4.830	2.686	3.563	3.185	3.734	3.362	4.781	4.857	3.879	4.191	29.68
54)	1,2,4-trimethylbenzene	5.053	3.789	2.375	3.174	2.854	3.500	3.199	4.626	4.892	3.872	3.733	23.92
55)	1,3-dichlorobenzene	5.380	3.262	2.570	2.937	2.832	3.198	2.714	3.834	4.212	3.697	3.464	24.67
56) C	1,4-dichlorobenzene	5.336	3.310	2.590	2.904	2.804	3.186	2.679	3.777	4.187	3.745	3.452	24.50
57)	sec-butylbenzene	7.112	5.825	3.736	5.133	4.644	5.679	5.153	7.380	7.660	6.007	5.833	21.52
58)	p-isopropyltoluene	7.745	5.298	2.885	4.082	3.522	4.570	4.321	6.233	6.499	5.078	5.023	29.33
59)	1,2-dichlorobenzene	5.321	3.065	2.293	2.686	2.608	2.961	2.605	3.674	3.933	3.376	3.252	27.37
60)	n-butylbenzene				3.333	3.094	4.085	4.084	5.888	6.168	4.828	4.497	26.46
61) C	1,2,4-trichlorobenzene		2.216	1.794	1.757	1.909	2.194	1.995	2.832	3.363	3.149	2.356	25.64
62)	naphthalene		1.040	0.494	0.393	0.349	0.394	0.378	0.540	0.612	0.550	0.528	40.29#
63)	1,2,3-Trichlorobenzene		2.441	1.836	1.764	1.949	2.217	2.135	2.914	3.374	3.114	2.416	24.28
64) C	hexachlorobutadiene		1.884	1.741	2.013	2.004	2.416	2.249	3.304	3.654	3.402	2.518	29.10

FORM VI-MCP-TO15-SIM

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Instrument ID: AIRPIANO2 Calibration Date: 01/05/2012 Time: 18:04

Lab File ID: R218769 Init. Calib. Date(s): 12/21/11 12/21/11

Sample No: WG511603-2,3,25 Init. Calib. Times : 16:43 22:51

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	73	-0.01
21	C	chloroform	1.695	1.727	-1.9	74	0.00
23	I	1,4-difluorobenzene	1.000	1.000	0.0	74	0.00
26	C	benzene	0.683	0.647	5.3	71	0.00
30	C	trichloroethene	0.394	0.389	1.3	77	0.00
36	I	chlorobenzene-D5	1.000	1.000	0.0	70	0.00
41	C	tetrachloroethene	2.790	3.099	-11.1	80	0.00

* Evaluation of CC level amount vs concentration.

FORM VII MCP-TO15-SIM

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Instrument ID: AIRPIANO2 Calibration Date: 12/22/2011 Time: 01:56

Lab File ID: R218571 Init. Calib. Date(s): 12/21/11 12/21/11

Sample No: CTO15-SIMSTD5.0 Init. Calib. Times : 16:43 22:51

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	98	0.00
2		dichlorodifluoromethane	2.637	2.505	5.0	101	0.00
3	C	chloromethane	0.731	0.719	1.6	99	0.00
4		Freon-114	2.684	2.641	1.6	99	0.00
5	C	vinyl chloride	0.870	0.850	2.3	99	0.00
6	C	1,3-butadiene	0.554	0.565	-2.0	101	0.00
7	C	bromomethane	0.910	0.876	3.7	97	0.00
8	C	chloroethane	0.390	0.349	10.5	90	0.00
9		acetone	0.960	0.774	19.4	73	0.00
10		trichlorofluoromethane	2.651	2.651	0.0	99	0.00
11	C	acrylonitrile	0.414	0.323	22.0	72	0.00
12	C	1,1-dichloroethene	1.437	1.403	2.4	96	0.00
13	C	methylene chloride	1.018	0.934	8.3	90	0.00
14		Freon 113	1.906	1.789	6.1	93	0.00
15		Halothane	1.245	1.187	4.7	91	0.00
16		trans-1,2-dichloroethene	1.554	1.147	26.2	72	0.00
17	C	1,1-dichloroethane	1.525	1.365	10.5	88	0.00
18	C	MTBE	1.772	1.432	19.2	76	0.00
19	C	2-butanone	1.263	0.927	26.6	63	0.00
20		cis-1,2-dichloroethene	1.094	0.956	12.6	79	0.00
21	C	chloroform	1.695	1.575	7.1	91	0.00
22	C	1,2-dichloroethane	1.090	0.986	9.5	88	0.00
23	I	1,4-difluorobenzene	1.000	1.000	0.0	103	0.00
24	s	1,2-dichloroethane-D4	0.405	0.377	6.9	107	0.00
25	C	1,1,1-trichloroethane	0.587	0.508	13.5	93	0.00
26	C	benzene	0.683	0.578	15.4	89	0.00
27	C	carbon tetrachloride	0.631	0.568	10.0	94	0.00
28	C	1,2-dichloropropane	0.249	0.204	18.1	87	0.00
29		bromodichloromethane	0.537	0.469	12.7	91	0.00
30	C	trichloroethene	0.394	0.339	14.0	94	0.00
31	C	1,4-Dioxane	0.130	0.109	16.2	82	0.00
32	C	cis-1,3-dichloropropene	0.356	0.310	12.9	90	0.00
33	C	4-methyl-2-pentanone	0.420	0.340	19.0	82	0.00
34		trans-1,3-dichloropropene	0.337	0.246	27.0	72	0.00
35	C	1,1,2-trichloroethane	0.286	0.236	17.5	86	0.00
36	I	chlorobenzene-D5	1.000	1.000	0.0	100	0.00
37	C	toluene	4.336	3.433	20.8	83	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218571.D
Acq On : 22 Dec 2011 1:56 am
Operator : AIRPIANO2:RY
Sample : CTO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 11:27:01 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	s	toluene-D8	5.220	5.138	1.6	110	0.00
39		dibromochloromethane	2.722	2.467	9.4	87	0.00
40	C	1,2-dibromoethane	2.388	2.010	15.8	84	0.00
41	C	tetrachloroethene	2.790	2.440	12.5	90	0.00
42		1,1,1,2-tetrachloroethane	1.863	1.537	17.5	78	0.00
43	C	chlorobenzene	3.653	3.006	17.7	84	0.00
44	C	ethylbenzene	5.027	3.922	22.0	77	0.00
45	C	m+p-xylene	3.839	3.043	20.7	75	0.00
46	C	bromoform	3.008	2.588	14.0	80	0.00
47	C	styrene	2.663	2.268	14.8	76	0.00
48	C	1,1,2,2-tetrachloroethane	2.789	2.333	16.3	74	0.00
49	C	o-xylene	4.078	3.170	22.3	75	0.00
50	s	bromofluorobenzene	3.857	3.942	-2.2	108	0.00
51	C	isopropylbenzene	5.505	4.295	22.0	71	0.00
52		4-ethyl toluene	4.675	4.182	10.5	72	0.00
53		1,3,5-trimethylbenzene	4.191	3.390	19.1	71	0.00
54		1,2,4-trimethylbenzene	3.733	3.337	10.6	72	0.00
55		1,3-dichlorobenzene	3.464	2.826	18.4	74	0.00
56	C	1,4-dichlorobenzene	3.452	2.778	19.5	74	0.00
57		sec-butylbenzene	5.833	4.957	15.0	67	0.00
58		p-isopropyltoluene	5.023	3.964	21.1	64	-0.01
59		1,2-dichlorobenzene	3.252	2.670	17.9	73	-0.01
60		n-butylbenzene	4.497	3.751	16.6	64	-0.01
61	C	1,2,4-trichlorobenzene	2.356	2.024	14.1	72	-0.03
62		naphthalene	5.278	3.711	29.7	69	-0.02
63		1,2,3-Trichlorobenzene	2.416	2.023	16.3	70	-0.03
64	C	hexachlorobutadiene	2.518	2.160	14.2	66	-0.03

* Evaluation of CC level amount vs concentration.

FORM VII MCP-TO15-SIM

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alpha Analytical Labs

SDG No.: L1200005

Lab File ID (Standard): R218769 Date Analyzed: 01/05/12

Instrument ID : AIRPIANO2 Time Analyzed: 18:04

		IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
	12 HOUR STD	150860	10.36	481130	12.55	89624	16.90
	UPPER LIMIT	211204	10.69	673582	12.88	125474	17.23
	LOWER LIMIT	90516	10.03	288678	12.22	53774	16.57
	EPA SAMPLE NO.						
01	WG511603-3LCS	150860	10.36	481130	12.55	89624	16.90
02	WG511603-4BLANK	165082	10.36	534835	12.55	93870	16.91
03	TB-28	162785	10.36	518398	12.55	92762	16.90
04	C-28	164028	10.36	527150	12.55	95564	16.90
05	B-28	164103	10.36	534281	12.55	93047	16.90
06	A-28	160925	10.36	526051	12.55	91959	16.90
07	BG-28	163790	10.36	537676	12.55	94757	16.91
08	BG-28-DUP	160798	10.36	513588	12.55	90948	16.91
09	WG511603-5DUP	164731	10.36	507758	12.55	90831	16.90

IS1 = BROMOCHLOROMETHANE
IS2 = 1,4-DIFLUOROBENZENE
IS3 = CHLOROBENZENE-D5

AREA UPPER LIMIT = + 40% of internal standard area
AREA LOWER LIMIT = - 40 % of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

* Values outside of QC limits.

page 1 of 1 FORM VIII - MCP-TO15-SIM

Alpha Analytical Deliverable Package

Alpha SDG: L1200006
Client: TRC Environmental Consultants
Site: KEITH MIDDLE SCHOOL

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Sample Receipt

Sample Delivery Group Information

Sample Delivery Group Form

Laboratory Job number: L1200006

Project Number: 115058

Project Name: KEITH MIDDLE SCHOOL **Received:** 12/30/2011 16:30

Client Account: TRC Environmental Consultants **Received by:** DIANNE JANAK

Samples Delivered by: COURIER **Call Tracker #**

Bill Of Laden N/A **Trackingnum**

Coc Present Present

Container Status Intact **Sample IDs**

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt N/A **Are samples Properly Preserved?** Yes

Initial pH **preserved in house with** **Final pH**

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOHCovering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
N/A	Present/Intact	No	No	-	No	No

LIMS Chain of Custody

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jan 30 2012, 04:05 pm

Login Number: L1200006
Account: TRC-LOW-M TRC Environmental ConsultantsProject: 115058
Received: 30DEC11 Due Date: 16JAN12

Sample #	Client ID	Mat	PR	Collected	Container
L1200006-01	VS-1-28	11	S0	29DEC11 00:00	1-Can-2.7

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list A2-DPKG-FULL Package Due Date: 01/17/12

A2-DPKG-FULL,CAN-RENT,FLOW-RENT,MCP,MCP-TO15,MCP-TO15-SIM

L1200006-02	VS-4-28	11	S0	29DEC11 00:00	1-Can-2.7

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list Package Due Date: 01/17/12

CAN-RENT,FLOW-RENT,MCP-TO15,MCP-TO15-SIM

L1200006-03	VS-12-28	11	S0	29DEC11 00:00	1-Can-2.7

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list Package Due Date: 01/17/12

CAN-RENT,FLOW-RENT,MCP-TO15,MCP-TO15-SIM

L1200006-04	VS-8-28	11	S0	29DEC11 00:00	1-Can-2.7

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list Package Due Date: 01/17/12

CAN-RENT,FLOW-RENT,MCP-TO15,MCP-TO15-SIM

L1200006-05	VS-8-28-DUP	11	S0	29DEC11 00:00	1-Can-2.7

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list Package Due Date: 01/17/12

CAN-RENT,FLOW-RENT,MCP-TO15,MCP-TO15-SIM

L1200006-06	VS-BG-28	11	S0	29DEC11 00:00	1-Can-2.7

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list Package Due Date: 01/17/12

CAN-RENT,FLOW-RENT,MCP-TO15,MCP-TO15-SIM

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jan 30 2012, 04:05 pm

Login Number: L1200006
Account: TRC-LOW-M TRC Environmental ConsultantsProject: 115058
Received: 30DEC11 Due Date: 16JAN12

Sample #	Client ID	Mat	PR	Collected	Container
L1200006-07	VS-TB-28	11	S0	29DEC11 00:00	1-Can-2.7

MCP-TO15-SIM report TCE, PCE, Chloroform and Benzene only. MCP-TO15 - report 8260 list Package Due Date: 01/17/12

CAN-RENT,FLOW-RENT,MCP-TO15,MCP-TO15-SIM

Logged By: Katie O'Brien

Chain of Custody

L1200006

CHAIN OF CUSTODY RECORD

Project Name: Keith Middle School

Project No.: 115058

Sampling Date(s): 12/29/11

Laboratory: ALPHA

Laboratory P.O.: 39601

Shipping Date(s): 12/30/11

Shipper's Name: TRC

Box No.: 0

	Sample Code	Sampled Date	Container Size	Container G/P	MATRIX	Description	ANALYSIS	Vacuum Start	Vacuum End	Serial Numbers Can	Serial Numbers Flow
1	VS-1-28	12/29/11	2 L	SUMMA	air	Vent Stack Air	TO-15A VOCs	28.64	1.51	349	130
2	VS-4-28	12/29/11	2 L	SUMMA	air	Vent Stack Air	TO-15A VOCs	29.99	2.92	213	206
3	VS-12-28	12/29/11	2 L	SUMMA	air	Vent Stack Air	TO-15A VOCs	29.79	8.24	382	352
4	VS-8-28	12/29/11	2 L	SUMMA	air	Vent Stack Air	TO-15A VOCs	27.80	2.85	407	256
5	VS-8-28-DUP	12/29/11	2 L	SUMMA	air	Vent Stack Air	TO-15A VOCs	29.40	5.55	188	146
6	VS-BG-28	12/29/11	2 L	SUMMA	air	background	TO-15A VOCs	29.54	0.00	157	290
7	VS-TB-28	12/29/11	2 L	SUMMA	air	trip blank	TO-15A VOCs	n/a	n/a	205	250

Relinquished by:	**Date/Time:** 12/30 / 1050	**Relinquished by:**	
Received by:	**Date/Time:** 12-30-11 1630	**Received by:**	12/30/11 1630
Remarks (*):			

Rel: 12/30/11 00:30
Rec

12/30/12 T4r
1/3/12 0900

Organics

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Initial Calibration

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Method File : TSIM111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 11:24:44 2011
Response Via : Initial Calibration

Calibration Files
0.02=R218556.D 0.04=R218557.D 0.1 =R218558.D 0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D
2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D 50 =R218566.D

		Compound	0.02	0.04	0.1	0.2	0.5	1.0	2.5	5.0	10	50	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------											
2)		dichlorodifluorome...	3.534	2.899	2.624	2.335	2.589	2.420	2.349	2.442	2.580	2.594	2.637	13.50
3)	C	chloromethane			0.809	0.708	0.756	0.703	0.663	0.717	0.753	0.740	0.731	5.99
4)		Freon-114	3.521	2.881	2.636	2.418	2.651	2.525	2.348	2.615	2.614	2.627	2.684	12.20
5)	C	vinyl chloride	1.141	0.897	0.844	0.770	0.866	0.814	0.774	0.841	0.881	0.868	0.870	12.01
6)	C	1,3-butadiene	0.708	0.565	0.535	0.497	0.547	0.528	0.477	0.553	0.564	0.561	0.554	11.15
7)	C	bromomethane	1.226	1.033	0.871	0.795	0.895	0.846	0.778	0.888	0.905	0.866	0.910	14.37
8)	C	chloroethane	0.518	0.453	0.369	0.349	0.377	0.370	0.326	0.383	0.386	0.367	0.390	14.24
9)		acetone					1.119	1.094	0.848	1.050	0.990	0.660	0.960	18.34
10)		trichlorofluoromet...	3.395	2.852	2.645	2.417	2.688	2.554	2.315	2.650	2.584	2.407	2.651	11.50
11)	C	acrylonitrile	0.616	0.509	0.352	0.389	0.349	0.382	0.330	0.441	0.436	0.339	0.414	21.82
12)	C	1,1-dichloroethene	1.875	1.548	1.441	1.306	1.465	1.390	1.249	1.438	1.401	1.254	1.437	12.58
13)	C	methylene chloride					1.244	1.092	0.908	1.021	0.986	0.857	1.018	13.58
14)		Freon 113	2.557	2.088	1.859	1.733	1.896	1.841	1.622	1.905	1.866	1.691	1.906	13.79
15)		Halothane	1.553	1.388	1.155	1.104	1.171	1.166	1.112	1.290	1.378	1.129	1.245	12.14
16)		trans-1,2-dichloro...	2.032	1.666	1.518	1.402	1.556	1.509	1.348	1.565	1.554	1.392	1.554	12.44
17)	C	1,1-dichloroethane	2.015	1.679	1.467	1.378	1.490	1.478	1.319	1.530	1.555	1.342	1.525	13.28
18)	C	MTBE	2.461	2.329	1.539	1.698	1.550	1.676	1.479	1.866	1.844	1.276	1.772	21.03
19)	C	2-butanone			1.355	1.431	1.201	1.315	1.122	1.448	1.365	0.868	1.263	15.37
20)		cis-1,2-dichloroet...	1.469	1.114	0.973	1.058	1.002	1.093	0.899	1.189	1.193	0.947	1.094	15.06
21)	C	chloroform	2.188	1.833	1.597	1.522	1.649	1.631	1.477	1.705	1.750	1.593	1.695	11.95
22)	C	1,2-dichloroethane	1.416	1.183	1.009	0.982	1.046	1.060	0.957	1.107	1.138	1.002	1.090	12.39
23)	I	1,4-difluorobenzene	----------ISTD----------											
24)	s	1,2-dichloroethane-D4	0.405	0.350	0.462	0.433	0.395	0.451	0.496	0.362	0.336	0.364	0.405	13.25
25)	C	1,1,1-trichloroethane	0.833	0.607	0.552	0.563	0.576	0.571	0.497	0.565	0.580	0.526	0.587	15.57
26)	C	benzene			0.771	0.738	0.692	0.679	0.589	0.671	0.697	0.625	0.683	8.46
27)	C	carbon tetrachloride	0.862	0.626	0.583	0.598	0.622	0.612	0.538	0.624	0.637	0.604	0.631	13.64
28)	C	1,2-dichloropropane	0.341	0.277	0.224	0.244	0.229	0.236	0.206	0.241	0.260	0.232	0.249	15.18
29)		bromodichloromethane	0.741	0.540	0.489	0.510	0.512	0.512	0.457	0.529	0.560	0.518	0.537	14.36
30)	C	trichloroethene	0.571	0.383	0.370	0.378	0.390	0.383	0.336	0.372	0.390	0.364	0.394	16.32

Method Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Method File : TSIM111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 11:24:44 2011
Response Via : Initial Calibration

Calibration Files
0.02=R218556.D 0.04=R218557.D 0.1 =R218558.D 0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D
2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D 50 =R218566.D

		Compound	0.02	0.04	0.1	0.2	0.5	1.0	2.5	5.0	10	50	Avg	%RSD
31)	C	1,4-Dioxane			0.141	0.147	0.128	0.133	0.113	0.137	0.137	0.108	0.130	10.46
32)	C	cis-1,3-dichloropr...	0.490	0.361	0.309	0.344	0.326	0.341	0.296	0.355	0.385	0.360	0.356	15.05
33)	C	4-methyl-2-pentanone		0.575	0.377	0.433	0.381	0.425	0.373	0.430	0.443	0.341	0.420	16.13
34)		trans-1,3-dichloro...	0.447	0.340	0.279	0.326	0.302	0.328	0.277	0.353	0.376	0.342	0.337	14.73
35)	C	1,1,2-trichloroethane	0.398	0.307	0.254	0.283	0.266	0.275	0.236	0.283	0.299	0.263	0.286	15.43
36)	I	chlorobenzene-D5		----------ISTD----------										
37)	C	toluene		6.368	4.382	4.359	3.902	4.078	3.361	4.130	4.578	3.864	4.336	19.41
38)	s	toluene-D8	5.156	4.434	5.876	5.412	5.042	5.835	6.269	4.688	4.429	5.054	5.220	12.01
39)		dibromochloromethane	3.470	2.599	2.269	2.438	2.455	2.586	2.324	2.857	3.238	2.987	2.722	14.81
40)	C	1,2-dibromoethane	3.238	2.445	2.017	2.253	2.193	2.337	1.948	2.412	2.679	2.359	2.388	15.30
41)	C	tetrachloroethene	3.851	2.745	2.561	2.624	2.708	2.704	2.363	2.720	2.959	2.664	2.790	14.40
42)		1,1,1,2-tetrachlor...	2.417	1.882	1.592	1.746	1.730	1.811	1.604	1.965	2.102	1.781	1.863	13.34
43)	C	chlorobenzene	5.635	3.878	3.105	3.396	3.313	3.462	2.910	3.576	3.848	3.407	3.653	20.71
44)	C	ethylbenzene	8.260	5.825	3.959	4.621	4.168	4.675	3.832	5.121	5.413	4.396	5.027	25.89
45)	C	m+p-xylene	6.099	4.294	2.955	3.526	3.155	3.588	2.970	4.071	4.290	3.445	3.839	24.39
46)	C	bromoform	4.582	2.887	2.260	2.460	2.436	2.661	2.411	3.224	3.745	3.413	3.008	24.55
47)	C	styrene	3.662	2.678	2.007	2.431	2.222	2.582	2.151	3.002	3.222	2.674	2.663	19.29
48)	C	1,1,2,2-tetrachlor...	3.462	2.934	2.208	2.612	2.422	2.721	2.344	3.159	3.346	2.683	2.789	15.30
49)	C	o-xylene	7.054	4.804	3.035	3.646	3.257	3.701	3.060	4.229	4.452	3.546	4.078	29.42
50)	s	bromofluorobenzene	3.680	3.042	4.201	3.902	3.754	4.422	4.605	3.657	3.267	4.038	3.857	12.60
51)	C	isopropylbenzene	8.535	6.222	3.995	5.085	4.481	5.167	4.402	6.031	6.212	4.921	5.505	23.95
52)		4-ethyl toluene	5.863	4.603	3.097	4.157	3.852	4.527	4.078	5.846	5.983	4.744	4.675	20.56
53)		1,3,5-trimethylben...	7.030	4.830	2.686	3.563	3.185	3.734	3.362	4.781	4.857	3.879	4.191	29.68
54)		1,2,4-trimethylben...	5.053	3.789	2.375	3.174	2.854	3.500	3.199	4.626	4.892	3.872	3.733	23.92
55)		1,3-dichlorobenzene	5.380	3.262	2.570	2.937	2.832	3.198	2.714	3.834	4.212	3.697	3.464	24.67
56)	C	1,4-dichlorobenzene	5.336	3.310	2.590	2.904	2.804	3.186	2.679	3.777	4.187	3.745	3.452	24.50
57)		sec-butylbenzene	7.112	5.825	3.736	5.133	4.644	5.679	5.153	7.380	7.660	6.007	5.833	21.52
58)		p-isopropyltoluene	7.745	5.298	2.885	4.082	3.522	4.570	4.321	6.233	6.499	5.078	5.023	29.33
59)		1,2-dichlorobenzene	5.321	3.065	2.293	2.686	2.608	2.961	2.605	3.674	3.933	3.376	3.252	27.37
60)		n-butylbenzene				3.333	3.094	4.085	4.084	5.888	6.168	4.828	4.497	26.46
61)	C	1,2,4-trichloroben...		2.216	1.794	1.757	1.909	2.194	1.995	2.832	3.363	3.149	2.356	25.64

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Method File : TSIM111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 11:24:44 2011
Response Via : Initial Calibration

Calibration Files
0.02=R218556.D 0.04=R218557.D 0.1 =R218558.D 0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D
2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D 50 =R218566.D

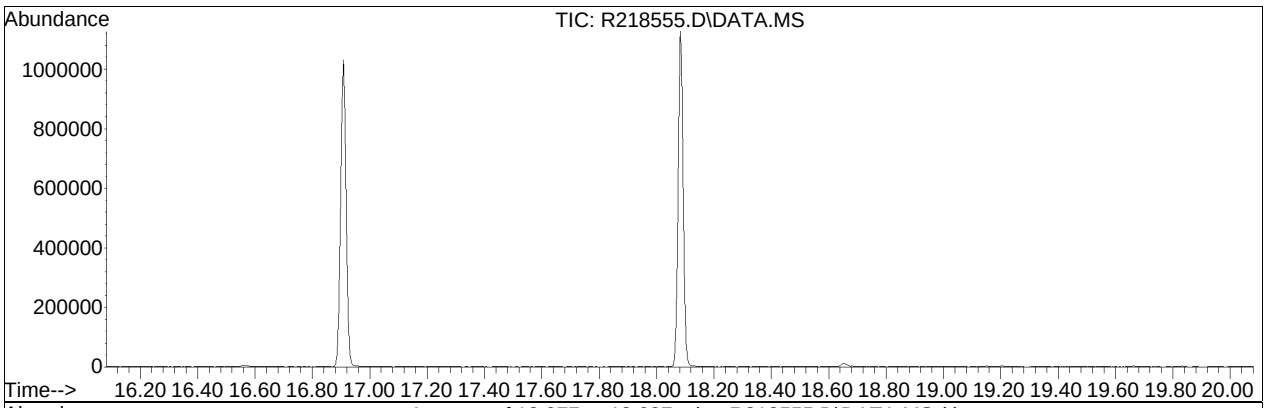
	Compound	0.02	0.04	0.1	0.2	0.5	1.0	2.5	5.0	10	50	Avg	%RSD
62)	naphthalene	1.040	0.494	0.393	0.349	0.394	0.378	0.540	0.612	0.550	0.528		40.29#
63)	1,2,3-Trichloroben...	2.441	1.836	1.764	1.949	2.217	2.135	2.914	3.374	3.114	2.416		24.28
64) C	hexachlorobutadiene	1.884	1.741	2.013	2.004	2.416	2.249	3.304	3.654	3.402	2.518		29.10

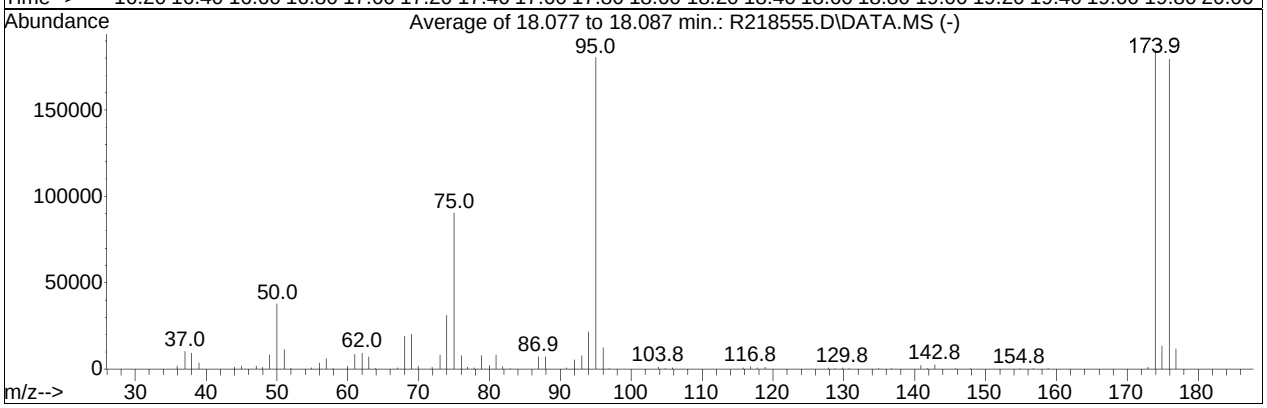
(#) = Out of Range

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218555.D
Acq On : 21 Dec 2011 4:06 pm
Operator : AIRPIANO2:RY
Sample : wg509972-1,3,250,250
Misc : wg509972
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 11:24:44 2011





AutoFind: Scans 3048, 3049, 3050; Background Corrected with Scan 3041

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.9	37712	PASS
75	95	30	66	50.2	90563	PASS
95	95	100	100	100.0	180416	PASS
96	95	5	9	7.0	12542	PASS
173	174	0.00	2	0.6	1202	PASS
174	95	50	120	102.5	184981	PASS
175	174	4	9	7.3	13457	PASS
176	174	93	101	97.0	179371	PASS
177	176	5	9	6.7	11971	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218556.D
Acq On : 21 Dec 2011 4:43 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.02
Misc : wg509972
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 11:24:30 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.368	49	234455	10.000	ppbV	0.00
Standard Area = 206707			Recovery = 113.42%			
23) 1,4-difluorobenzene	12.550	114	631211	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 96.61%			
36) chlorobenzene-D5	16.904	54	127241	10.000	ppbV	# 0.00
Standard Area = 128289			Recovery = 99.18%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	255750	11.191	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.91%			
38) toluene-D8	15.247	98	655996	10.997	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.97%			
50) bromofluorobenzene	18.089	95	468270	10.064	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.64%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.351	85	1657	0.029	ppbV	100
3) chloromethane	4.577	50	609	0.036	ppbV	95
4) Freon-114	4.728	85	1651	0.027	ppbV	97
5) vinyl chloride	4.894	62	535	0.027	ppbV	94
6) 1,3-butadiene	5.098	54	332	0.026	ppbV	94
7) bromomethane	5.479	94	575	0.028	ppbV	92
8) chloroethane	5.734	64	243	0.027	ppbV	94
9) acetone	6.622	43	4156	0.169	ppbV #	99
10) trichlorofluoromethane	6.791	101	1592	0.026	ppbV	100
11) acrylonitrile	7.216	53	289	0.028	ppbV	96
12) 1,1-dichloroethene	7.619	61	879	0.026	ppbV	98
13) methylene chloride	7.792	49	3322	0.139	ppbV	95
14) Freon 113	8.134	101	1199	0.027	ppbV	93
15) Halothane	8.712	117	728	0.024	ppbV #	82
16) trans-1,2-dichloroethene	8.950	61	953	0.026	ppbV	93
17) 1,1-dichloroethane	9.191	63	945	0.026	ppbV	97
18) MTBE	9.336	73	1154	0.026	ppbV #	93
19) 2-butanone	9.721	43	1572	0.046	ppbV	98
20) cis-1,2-dichloroethene	10.176	61	689	0.025	ppbV	95
21) chloroform	10.521	83	1026	0.026	ppbV #	86
22) 1,2-dichloroethane	11.360	62	664	0.026	ppbV #	55
25) 1,1,1-trichloroethane	11.644	97	1051	0.029	ppbV	98
26) benzene	12.156	78	2122	0.050	ppbV	98
27) carbon tetrachloride	12.326	117	1088	0.028	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218556.D
Acq On : 21 Dec 2011 4:43 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.02
Misc : wg509972
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 11:24:30 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	431	0.028 ppbV #	81
29) bromodichloromethane	13.297	83	936	0.028 ppbV	98
30) trichloroethene	13.343	130	721	0.031 ppbV	98
31) 1,4-Dioxane	13.412	88	629	0.073 ppbV #	73
32) cis-1,3-dichloropropene	14.316	75	618	0.028 ppbV #	87
33) 4-methyl-2-pentanone	14.408	43	1101	0.041 ppbV	99
34) trans-1,3-dichloropropene	14.879	75	564	0.025 ppbV #	85
35) 1,1,2-trichloroethane	15.069	97	502	0.028 ppbV	95
37) toluene	15.342	91	2607	0.050 ppbV	99
39) dibromochloromethane	15.748	129	883	0.024 ppbV	100
40) 1,2-dibromoethane	15.977	107	824	0.027 ppbV	100
41) tetrachloroethene	16.378	166	980	0.028 ppbV	92
42) 1,1,1,2-tetrachloroethane	16.931	131	615	0.025 ppbV	97
43) chlorobenzene	16.942	112	1434	0.032 ppbV #	50
44) ethylbenzene	17.234	91	2102	0.032 ppbV	99
45) m+p-xylene	17.366	91	3104	0.060 ppbV	98
46) bromoform	17.457	173	1166	0.028 ppbV	99
47) styrene	17.656	104	932	0.024 ppbV	98
48) 1,1,2,2-tetrachloroethane	17.737	83	881	0.022 ppbV	100
49) o-xylene	17.737	91	1795M4	0.033 ppbV	
51) isopropylbenzene	18.180	105	2172	0.028 ppbV	99
52) 4-ethyl toluene	18.677	105	1492	0.020 ppbV #	94
53) 1,3,5-trimethylbenzene	18.727	105	1789	0.029 ppbV	97
54) 1,2,4-trimethylbenzene	19.044	105	1286	0.022 ppbV	98
55) 1,3-dichlorobenzene	19.179	146	1369	0.028 ppbV	98
56) 1,4-dichlorobenzene	19.227	146	1358	0.028 ppbV	96
57) sec-butylbenzene	19.246	105	1810	0.019 ppbV	100
58) p-isopropyltoluene	19.361	119	1971	0.025 ppbV	96
59) 1,2-dichlorobenzene	19.492	146	1354	0.029 ppbV	97
60) n-butylbenzene	19.687	91	1306	0.017 ppbV	99
61) 1,2,4-trichlorobenzene	20.953	180	1820	0.051 ppbV	94
62) naphthalene	21.073	128	9178	0.133 ppbV	99
63) 1,2,3-Trichlorobenzene	21.330	180	2125	0.057 ppbV	94
64) hexachlorobutadiene	21.390	225	728	0.017 ppbV	93

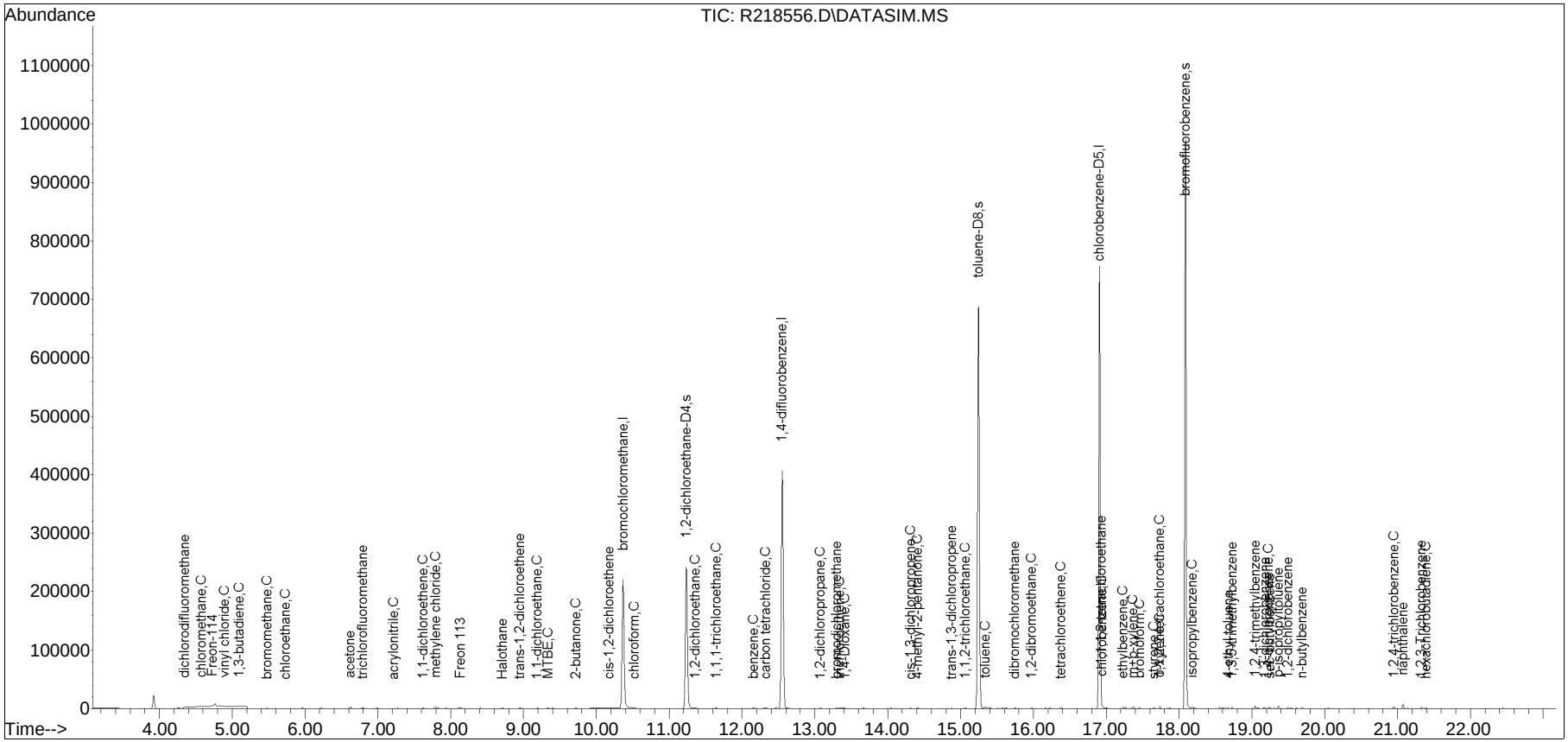
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218556.D
Acq On : 21 Dec 2011 4:43 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.02
Misc : wg509972
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 11:24:30 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

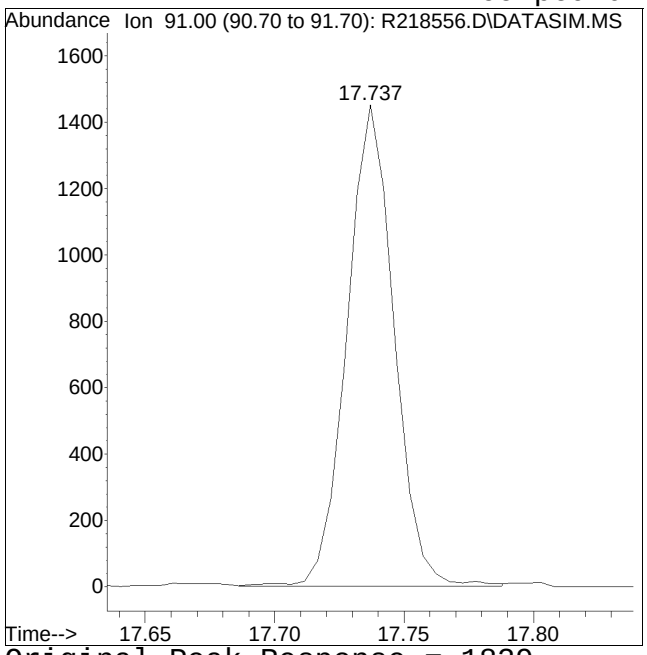


Manual Integration/Negative Proof Report

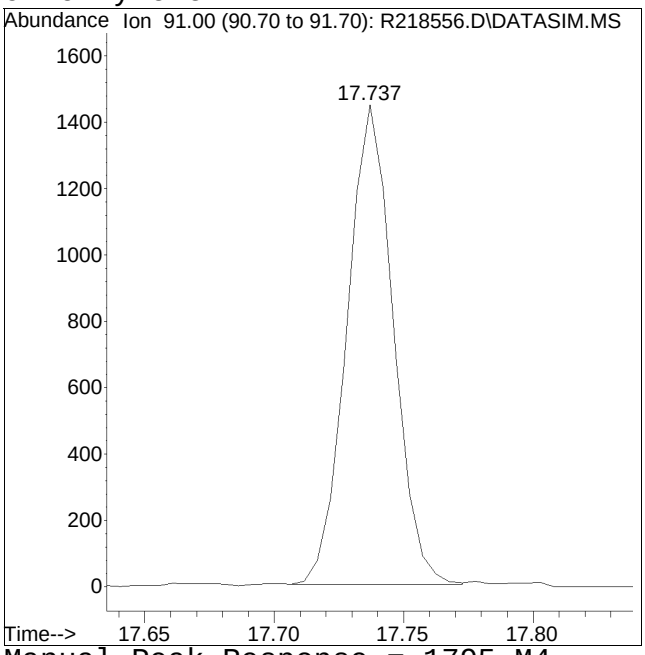
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218556.D
Date Inj'd : 12/21/2011 4:43 pm
Sample : ITO15-SIMSTD0.02

Method : TSIM111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 11:05 am

Compound #49: o-xylene



Original Peak Response = 1829



Manual Peak Response = 1795 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218557.D
Acq On : 21 Dec 2011 5:19 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.04
Misc : wg509972
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 11:13:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	209625	10.000	ppbV	0.00
Standard Area = 206707			Recovery = 101.41%			
23) 1,4-difluorobenzene	12.550	114	643442	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 98.48%			
36) chlorobenzene-D5	16.904	54	126603	10.000	ppbV	# 0.00
Standard Area = 128289			Recovery = 98.69%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	225157	9.665	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.65%			
38) toluene-D8	15.247	98	561316	9.457	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.57%			
50) bromofluorobenzene	18.084	95	385143	8.319	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 83.19%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	2431	0.047	ppbV	99
3) chloromethane	4.572	50	825	0.055	ppbV	96
4) Freon-114	4.728	85	2416	0.044	ppbV	95
5) vinyl chloride	4.889	62	752	0.043	ppbV	96
6) 1,3-butadiene	5.093	54	474	0.041	ppbV #	63
7) bromomethane	5.475	94	866	0.047	ppbV	94
8) chloroethane	5.726	64	380	0.047	ppbV #	87
9) acetone	6.618	43	4449	0.202	ppbV #	99
10) trichlorofluoromethane	6.786	101	2391	0.043	ppbV	100
11) acrylonitrile	7.211	53	427M6	0.046	ppbV	
12) 1,1-dichloroethene	7.619	61	1298	0.043	ppbV	98
13) methylene chloride	7.786	49	3630	0.170	ppbV	95
14) Freon 113	8.129	101	1751	0.044	ppbV	91
15) Halothane	8.712	117	1164	0.043	ppbV #	85
16) trans-1,2-dichloroethene	8.950	61	1397	0.043	ppbV	96
17) 1,1-dichloroethane	9.187	63	1408	0.044	ppbV	98
18) MTBE	9.332	73	1953	0.050	ppbV #	93
19) 2-butanone	9.721	43	2151	0.071	ppbV	99
20) cis-1,2-dichloroethene	10.177	61	934	0.037	ppbV	96
21) chloroform	10.521	83	1537	0.043	ppbV #	86
22) 1,2-dichloroethane	11.356	62	992	0.043	ppbV #	81
25) 1,1,1-trichloroethane	11.644	97	1561	0.043	ppbV	98
26) benzene	12.156	78	2677	0.062	ppbV	100
27) carbon tetrachloride	12.326	117	1610	0.040	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218557.D
Acq On : 21 Dec 2011 5:19 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.04
Misc : wg509972
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 11:13:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	713	0.046 ppbV #	91
29) bromodichloromethane	13.297	83	1389	0.041 ppbV	99
30) trichloroethene	13.344	130	986	0.041 ppbV	98
31) 1,4-Dioxane	13.413	88	650	0.074 ppbV #	80
32) cis-1,3-dichloropropene	14.311	75	928	0.041 ppbV #	86
33) 4-methyl-2-pentanone	14.409	43	1480	0.053 ppbV	97
34) trans-1,3-dichloropropene	14.879	75	876	0.039 ppbV #	88
35) 1,1,2-trichloroethane	15.063	97	791	0.043 ppbV	97
37) toluene	15.342	91	3225	0.062 ppbV	100
39) dibromochloromethane	15.748	129	1316	0.036 ppbV	99
40) 1,2-dibromoethane	15.978	107	1238	0.041 ppbV	99
41) tetrachloroethene	16.378	166	1390	0.040 ppbV	93
42) 1,1,1,2-tetrachloroethane	16.932	131	953	0.038 ppbV	97
43) chlorobenzene	16.943	112	1964	0.043 ppbV #	88
44) ethylbenzene	17.234	91	2950	0.046 ppbV	97
45) m+p-xylene	17.366	91	4349	0.084 ppbV	98
46) bromoform	17.457	173	1462	0.036 ppbV	100
47) styrene	17.656	104	1356	0.036 ppbV	98
48) 1,1,2,2-tetrachloroethane	17.737	83	1486	0.037 ppbV	97
49) o-xylene	17.737	91	2433	0.045 ppbV	98
51) isopropylbenzene	18.180	105	3151	0.041 ppbV	99
52) 4-ethyl toluene	18.674	105	2331	0.031 ppbV #	97
53) 1,3,5-trimethylbenzene	18.727	105	2446	0.040 ppbV	97
54) 1,2,4-trimethylbenzene	19.041	105	1919	0.033 ppbV	92
55) 1,3-dichlorobenzene	19.176	146	1652	0.034 ppbV	97
56) 1,4-dichlorobenzene	19.227	146	1676	0.035 ppbV	97
57) sec-butylbenzene	19.243	105	2950	0.032 ppbV	98
58) p-isopropyltoluene	19.358	119	2683	0.034 ppbV	100
59) 1,2-dichlorobenzene	19.492	146	1552	0.033 ppbV	95
60) n-butylbenzene	19.684	91	1748	0.023 ppbV	100
61) 1,2,4-trichlorobenzene	20.947	180	1122	0.031 ppbV	96
62) naphthalene	21.076	128	5267	0.077 ppbV	98
63) 1,2,3-Trichlorobenzene	21.333	180	1236	0.033 ppbV	94
64) hexachlorobutadiene	21.384	225	954	0.023 ppbV	96

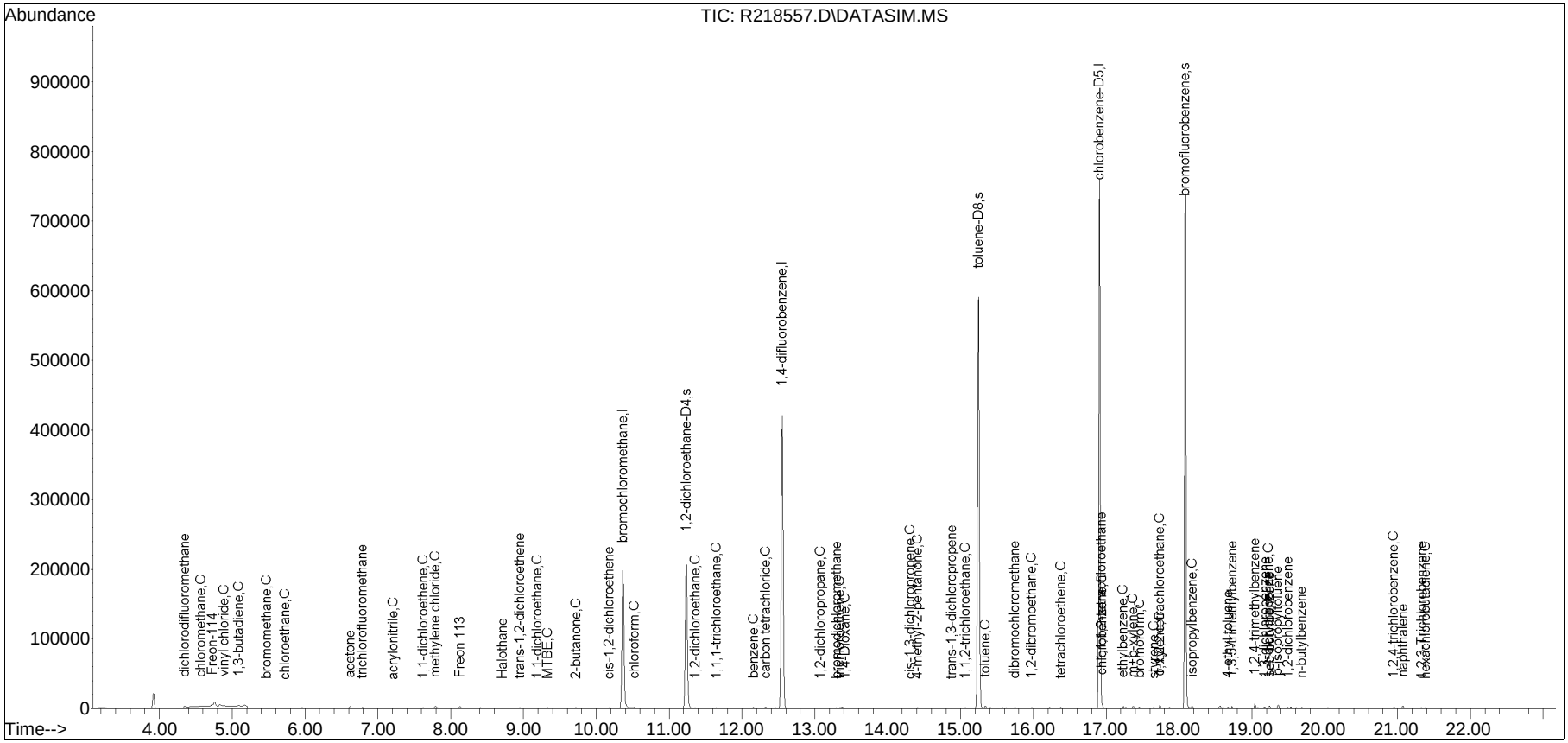
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218557.D
Acq On : 21 Dec 2011 5:19 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.04
Misc : wg509972
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 11:13:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

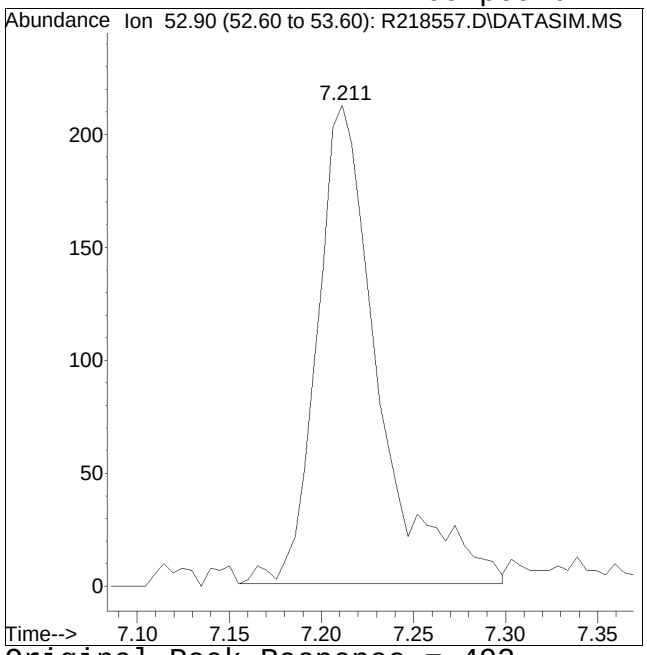


Manual Integration/Negative Proof Report

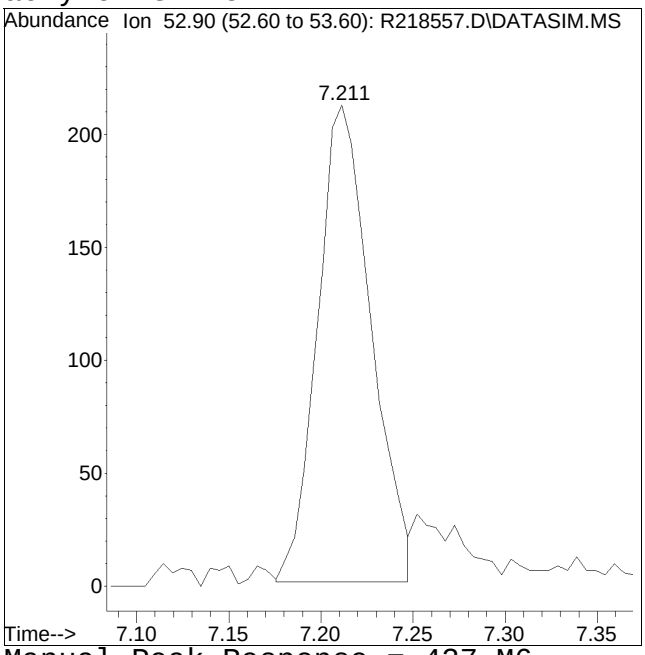
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218557.D
Date Inj'd : 12/21/2011 5:19 pm
Sample : ITO15-SIMSTD0.04

Method : TSIM111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 11:05 am

Compound #11: acrylonitrile



Original Peak Response = 492



Manual Peak Response = 427 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218558.D
Acq On : 21 Dec 2011 5:55 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.1
Misc : wg509972
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 11:12:48 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.362	49	197432	10.000	ppbV	0.00
Standard Area = 206707			Recovery = 95.51%			
23) 1,4-difluorobenzene	12.551	114	600081	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 91.84%			
36) chlorobenzene-D5	16.904	54	121141	10.000	ppbV	# 0.00
Standard Area = 128289			Recovery = 94.43%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	277277	12.763	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 127.63%			
38) toluene-D8	15.247	98	711881	12.534	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 125.34%			
50) bromofluorobenzene	18.089	95	508936	11.489	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.89%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	5181	0.107	ppbV	99
3) chloromethane	4.572	50	1598	0.113	ppbV	98
4) Freon-114	4.722	85	5204	0.101	ppbV	97
5) vinyl chloride	4.889	62	1667	0.100	ppbV	100
6) 1,3-butadiene	5.093	54	1057	0.097	ppbV	83
7) bromomethane	5.475	94	1719	0.098	ppbV	99
8) chloroethane	5.730	64	729	0.096	ppbV	97
9) acetone	6.613	43	5215	0.251	ppbV #	99
10) trichlorofluoromethane	6.786	101	5223	0.100	ppbV	100
11) acrylonitrile	7.211	53	694M6	0.080	ppbV	
12) 1,1-dichloroethene	7.619	61	2845	0.100	ppbV	100
13) methylene chloride	7.787	49	4468	0.222	ppbV	94
14) Freon 113	8.129	101	3670	0.098	ppbV	90
15) Halothane	8.712	117	2281	0.090	ppbV #	84
16) trans-1,2-dichloroethene	8.950	61	2997	0.097	ppbV	97
17) 1,1-dichloroethane	9.187	63	2897	0.096	ppbV	98
18) MTBE	9.328	73	3038	0.082	ppbV	97
19) 2-butanone	9.716	43	2676	0.094	ppbV	97
20) cis-1,2-dichloroethene	10.177	61	1922	0.082	ppbV	96
21) chloroform	10.521	83	3153	0.094	ppbV #	97
22) 1,2-dichloroethane	11.356	62	1992	0.091	ppbV #	89
25) 1,1,1-trichloroethane	11.641	97	3315	0.098	ppbV	99
26) benzene	12.156	78	4624	0.115	ppbV	100
27) carbon tetrachloride	12.326	117	3501	0.094	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218558.D
Acq On : 21 Dec 2011 5:55 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.1
Misc : wg509972
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 11:12:48 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	1342	0.093 ppbV #	91
29) bromodichloromethane	13.298	83	2933	0.092 ppbV	99
30) trichloroethene	13.344	130	2223	0.100 ppbV	97
31) 1,4-Dioxane	13.405	88	844	0.102 ppbV	96
32) cis-1,3-dichloropropene	14.311	75	1853	0.087 ppbV	90
33) 4-methyl-2-pentanone	14.399	43	2265	0.088 ppbV	98
34) trans-1,3-dichloropropene	14.879	75	1675	0.079 ppbV	91
35) 1,1,2-trichloroethane	15.063	97	1527	0.090 ppbV	96
37) toluene	15.342	91	5308	0.106 ppbV	99
39) dibromochloromethane	15.748	129	2749	0.079 ppbV	100
40) 1,2-dibromoethane	15.978	107	2444	0.084 ppbV	100
41) tetrachloroethene	16.378	166	3102	0.094 ppbV	92
42) 1,1,1,2-tetrachloroethane	16.932	131	1928	0.081 ppbV	95
43) chlorobenzene	16.943	112	3762	0.087 ppbV	95
44) ethylbenzene	17.234	91	4796	0.077 ppbV	98
45) m+p-xylene	17.366	91	7160	0.145 ppbV	97
46) bromoform	17.458	173	2738	0.070 ppbV	100
47) styrene	17.656	104	2431	0.067 ppbV	98
48) 1,1,2,2-tetrachloroethane	17.737	83	2675	0.070 ppbV	99
49) o-xylene	17.737	91	3677	0.072 ppbV	97
51) isopropylbenzene	18.181	105	4840	0.066 ppbV	99
52) 4-ethyl toluene	18.677	105	3752	0.053 ppbV #	96
53) 1,3,5-trimethylbenzene	18.727	105	3254	0.056 ppbV	96
54) 1,2,4-trimethylbenzene	19.041	105	2877	0.051 ppbV	92
55) 1,3-dichlorobenzene	19.176	146	3113	0.067 ppbV	97
56) 1,4-dichlorobenzene	19.227	146	3137	0.069 ppbV	97
57) sec-butylbenzene	19.243	105	4526	0.051 ppbV	99
58) p-isopropyltoluene	19.358	119	3495	0.046 ppbV	99
59) 1,2-dichlorobenzene	19.496	146	2778	0.062 ppbV	98
60) n-butylbenzene	19.684	91	3060	0.043 ppbV	98
61) 1,2,4-trichlorobenzene	20.953	180	2173	0.063 ppbV	94
62) naphthalene	21.073	128	5984	0.091 ppbV	98
63) 1,2,3-Trichlorobenzene	21.330	180	2224	0.063 ppbV	94
64) hexachlorobutadiene	21.381	225	2109	0.053 ppbV	95

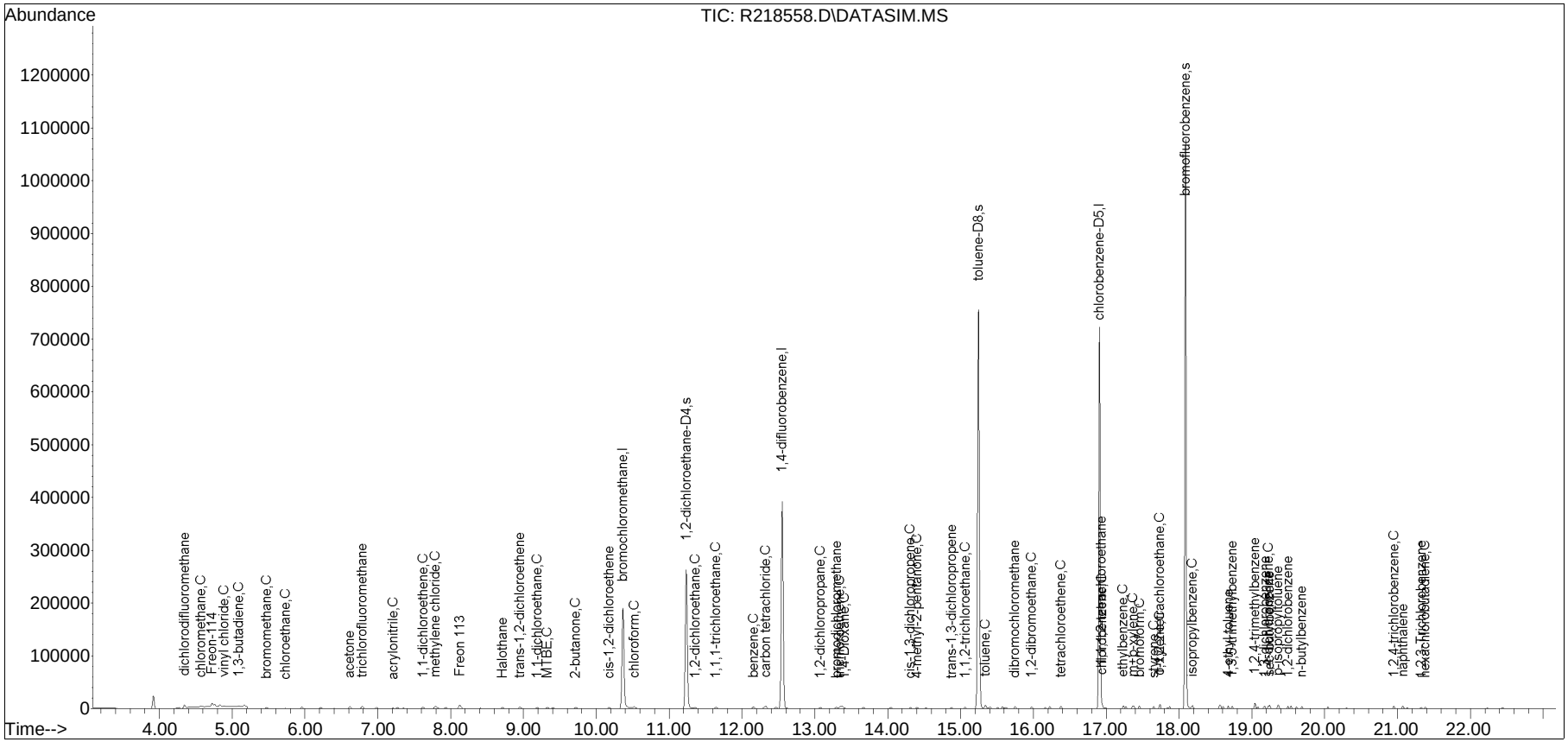
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218558.D
Acq On : 21 Dec 2011 5:55 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.1
Misc : wg509972
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 11:12:48 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

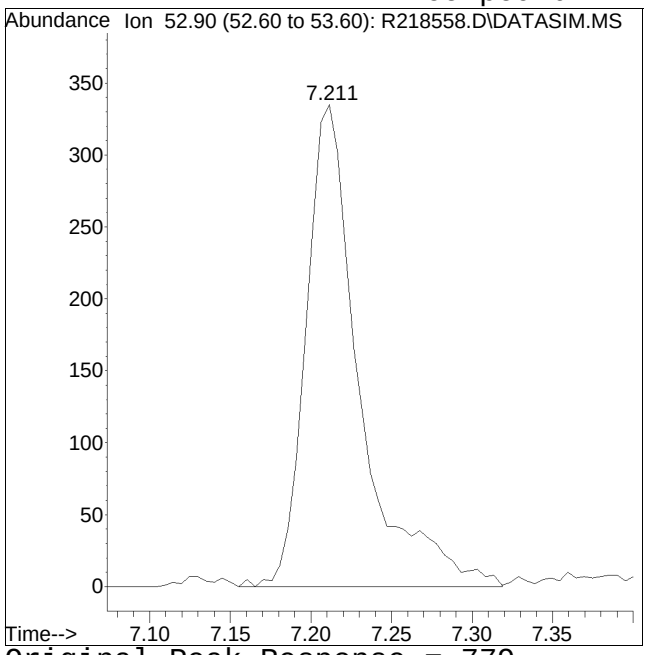


Manual Integration/Negative Proof Report

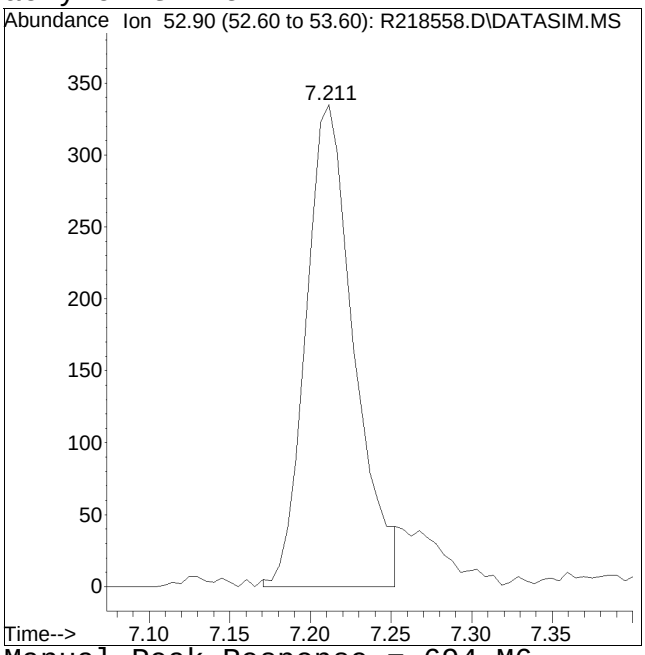
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218558.D
Date Inj'd : 12/21/2011 5:55 pm
Sample : ITO15-SIMSTD0.1

Method : TSIM111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 11:05 am

Compound #11: acrylonitrile



Original Peak Response = 779



Manual Peak Response = 694 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.2
Misc : wg509972
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 11:11:58 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	218766	10.000	ppbV	0.00
Standard Area = 206707			Recovery = 105.83%			
23) 1,4-difluorobenzene	12.550	114	607828	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 93.03%			
36) chlorobenzene-D5	16.904	54	122826	10.000	ppbV	# 0.00
Standard Area = 128289			Recovery = 95.74%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	263065	11.954	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.54%			
38) toluene-D8	15.247	98	664745	11.544	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.44%			
50) bromofluorobenzene	18.084	95	479247	10.671	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.71%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	10216	0.191	ppbV	100
3) chloromethane	4.572	50	3098	0.197	ppbV	100
4) Freon-114	4.728	85	10580	0.185	ppbV	97
5) vinyl chloride	4.889	62	3369	0.183	ppbV	100
6) 1,3-butadiene	5.093	54	2173	0.180	ppbV	92
7) bromomethane	5.475	94	3479	0.179	ppbV	99
8) chloroethane	5.730	64	1528	0.182	ppbV	97
9) acetone	6.613	43	8421	0.366	ppbV #	99
10) trichlorofluoromethane	6.791	101	10576	0.182	ppbV	99
11) acrylonitrile	7.211	53	1700M6	0.176	ppbV	
12) 1,1-dichloroethene	7.619	61	5715	0.182	ppbV	99
13) methylene chloride	7.786	49	6708	0.300	ppbV	96
14) Freon 113	8.129	101	7581	0.182	ppbV	92
15) Halothane	8.712	117	4832	0.171	ppbV #	84
16) trans-1,2-dichloroethene	8.950	61	6135	0.179	ppbV	97
17) 1,1-dichloroethane	9.191	63	6028	0.180	ppbV	99
18) MTBE	9.321	73	7429	0.182	ppbV	98
19) 2-butanone	9.711	43	6263	0.198	ppbV	99
20) cis-1,2-dichloroethene	10.177	61	4627	0.178	ppbV	94
21) chloroform	10.521	83	6659	0.179	ppbV	97
22) 1,2-dichloroethane	11.360	62	4295	0.177	ppbV	99
25) 1,1,1-trichloroethane	11.644	97	6845	0.199	ppbV	99
26) benzene	12.156	78	8970	0.220	ppbV	100
27) carbon tetrachloride	12.326	117	7273	0.192	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.2
Misc : wg509972
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 11:11:58 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	2967	0.202 ppbV #	92
29) bromodichloromethane	13.297	83	6195	0.193 ppbV	99
30) trichloroethene	13.343	130	4601	0.204 ppbV	98
31) 1,4-Dioxane	13.397	88	1789	0.214 ppbV	91
32) cis-1,3-dichloropropene	14.311	75	4178	0.194 ppbV	93
33) 4-methyl-2-pentanone	14.395	43	5267	0.202 ppbV	98
34) trans-1,3-dichloropropene	14.879	75	3967	0.185 ppbV	93
35) 1,1,2-trichloroethane	15.063	97	3445	0.201 ppbV	97
37) toluene	15.342	91	10707	0.211 ppbV	99
39) dibromochloromethane	15.748	129	5988	0.171 ppbV	99
40) 1,2-dibromoethane	15.977	107	5535	0.187 ppbV	100
41) tetrachloroethene	16.378	166	6446	0.193 ppbV	93
42) 1,1,1,2-tetrachloroethane	16.931	131	4290	0.178 ppbV	97
43) chlorobenzene	16.943	112	8343	0.190 ppbV	93
44) ethylbenzene	17.234	91	11352	0.180 ppbV	98
45) m+p-xylene	17.366	91	17325	0.347 ppbV	97
46) bromoform	17.457	173	6042	0.153 ppbV	99
47) styrene	17.656	104	5971	0.162 ppbV	98
48) 1,1,2,2-tetrachloroethane	17.737	83	6417	0.165 ppbV	99
49) o-xylene	17.737	91	8956	0.172 ppbV	98
51) isopropylbenzene	18.175	105	12492	0.169 ppbV	99
52) 4-ethyl toluene	18.660	105	10212	0.142 ppbV	96
53) 1,3,5-trimethylbenzene	18.711	105	8752	0.149 ppbV	97
54) 1,2,4-trimethylbenzene	19.025	105	7797	0.137 ppbV	93
55) 1,3-dichlorobenzene	19.163	146	7215	0.153 ppbV	98
56) 1,4-dichlorobenzene	19.211	146	7133	0.154 ppbV	98
57) sec-butylbenzene	19.230	105	12609	0.139 ppbV	99
58) p-isopropyltoluene	19.345	119	10027	0.131 ppbV	99
59) 1,2-dichlorobenzene	19.483	146	6599	0.146 ppbV	98
60) n-butylbenzene	19.671	91	8188	0.113 ppbV	99
61) 1,2,4-trichlorobenzene	20.944	180	4316	0.124 ppbV	95
62) naphthalene	21.064	128	9645	0.145 ppbV	99
63) 1,2,3-Trichlorobenzene	21.321	180	4333	0.121 ppbV	94
64) hexachlorobutadiene	21.373	225	4945	0.122 ppbV	95

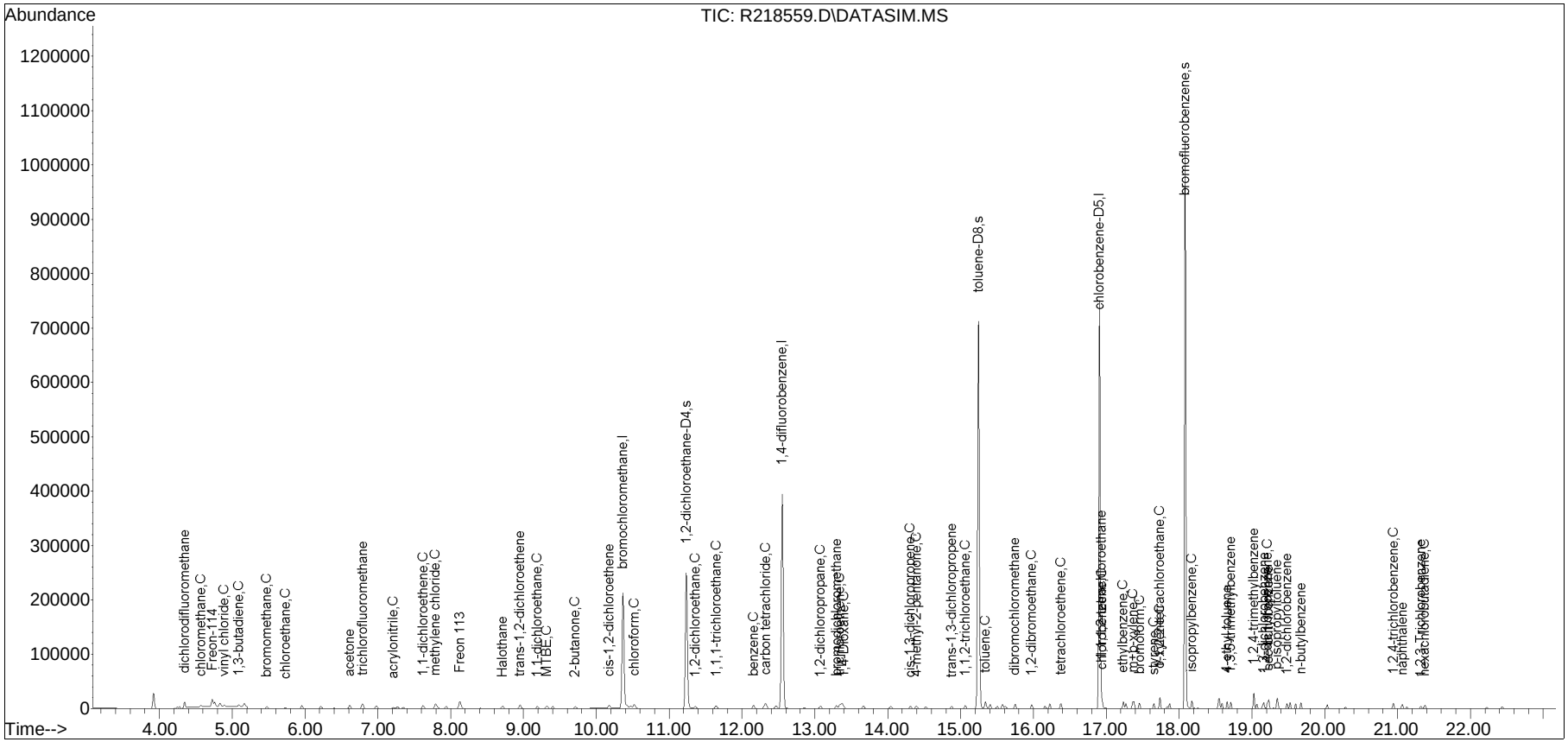
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.2
Misc : wg509972
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 11:11:58 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

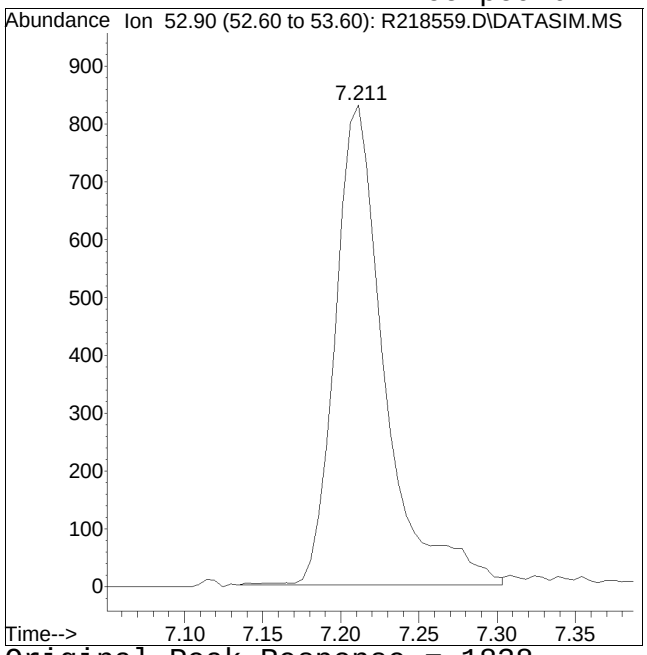


Manual Integration/Negative Proof Report

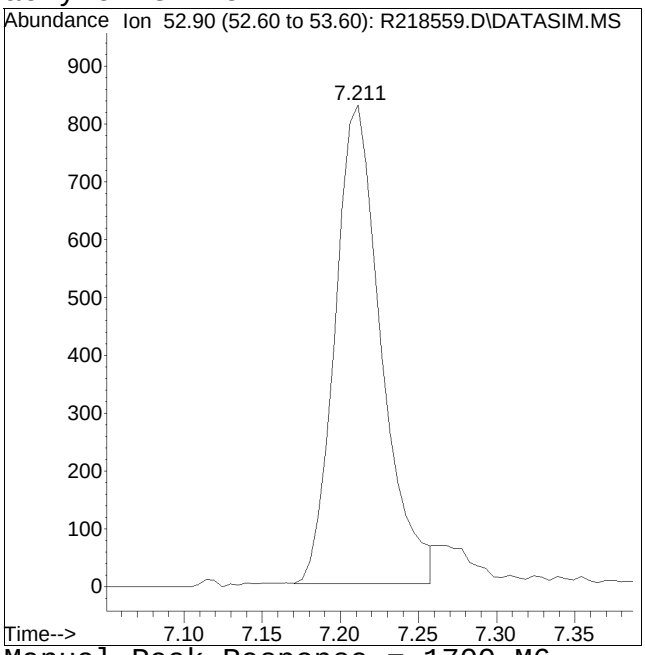
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218559.D
Date Inj'd : 12/21/2011 6:32 pm
Sample : ITO15-SIMSTD0.2

Method : TSIM111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 11:06 am

Compound #11: acrylonitrile



Original Peak Response = 1838



Manual Peak Response = 1700 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.5
Misc : wg509972
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 11:06:09 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.362	49	198171	10.000	ppbV	0.00
Standard Area = 206707			Recovery = 95.87%			
23) 1,4-difluorobenzene	12.551	114	597489	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 91.44%			
36) chlorobenzene-D5	16.904	54	117784	10.000	ppbV	# 0.00
Standard Area = 128289			Recovery = 91.81%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	235780	10.900	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.00%			
38) toluene-D8	15.247	98	593843	10.754	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.54%			
50) bromofluorobenzene	18.084	95	442137	10.266	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.66%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	25657	0.530	ppbV	100
3) chloromethane	4.572	50	7489	0.527	ppbV	100
4) Freon-114	4.728	85	26268	0.507	ppbV	97
5) vinyl chloride	4.889	62	8584	0.515	ppbV	100
6) 1,3-butadiene	5.093	54	5424	0.495	ppbV	95
7) bromomethane	5.475	94	8869	0.504	ppbV	98
8) chloroethane	5.730	64	3737	0.492	ppbV	100
9) acetone	6.608	43	11092	0.533	ppbV #	100
10) trichlorofluoromethane	6.791	101	26632	0.507	ppbV	100
11) acrylonitrile	7.206	53	3458	0.395	ppbV	99
12) 1,1-dichloroethene	7.619	61	14513	0.509	ppbV	100
13) methylene chloride	7.787	49	12329	0.609	ppbV	95
14) Freon 113	8.129	101	18782	0.498	ppbV	91
15) Halothane	8.712	117	11599	0.454	ppbV #	83
16) trans-1,2-dichloroethene	8.950	61	15420	0.497	ppbV	98
17) 1,1-dichloroethane	9.191	63	14759	0.487	ppbV	99
18) MTBE	9.313	73	15360	0.415	ppbV	98
19) 2-butanone	9.706	43	11904	0.415	ppbV	97
20) cis-1,2-dichloroethene	10.177	61	9925	0.421	ppbV	95
21) chloroform	10.521	83	16342	0.484	ppbV	97
22) 1,2-dichloroethane	11.356	62	10366	0.472	ppbV	98
25) 1,1,1-trichloroethane	11.644	97	17214	0.510	ppbV	99
26) benzene	12.156	78	20688	0.516	ppbV	100
27) carbon tetrachloride	12.326	117	18567	0.498	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.5
Misc : wg509972
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 11:06:09 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	6837	0.474	ppbV #	93
29) bromodichloromethane	13.298	83	15288	0.483	ppbV	99
30) trichloroethene	13.344	130	11662	0.525	ppbV	98
31) 1,4-Dioxane	13.390	88	3822	0.466	ppbV	97
32) cis-1,3-dichloropropene	14.311	75	9733	0.459	ppbV	93
33) 4-methyl-2-pentanone	14.381	43	11370	0.443	ppbV	97
34) trans-1,3-dichloropropene	14.879	75	9027	0.427	ppbV	94
35) 1,1,2-trichloroethane	15.063	97	7954	0.471	ppbV	96
37) toluene	15.342	91	22977	0.472	ppbV	100
39) dibromochloromethane	15.748	129	14459	0.430	ppbV	99
40) 1,2-dibromoethane	15.975	107	12913	0.455	ppbV	100
41) tetrachloroethene	16.378	166	15948	0.498	ppbV	92
42) 1,1,1,2-tetrachloroethane	16.926	131	10189	0.440	ppbV	98
43) chlorobenzene	16.943	112	19510	0.463	ppbV	96
44) ethylbenzene	17.234	91	24546	0.407	ppbV	98
45) m+p-xylene	17.376	91	37164	0.775	ppbV	97
46) bromoform	17.458	173	14349	0.378	ppbV	99
47) styrene	17.656	104	13083	0.370	ppbV	99
48) 1,1,2,2-tetrachloroethane	17.737	83	14266	0.383	ppbV	99
49) o-xylene	17.737	91	19184	0.385	ppbV	97
51) isopropylbenzene	18.175	105	26387	0.371	ppbV	99
52) 4-ethyl toluene	18.657	105	22687	0.330	ppbV	96
53) 1,3,5-trimethylbenzene	18.711	105	18755	0.333	ppbV	97
54) 1,2,4-trimethylbenzene	19.022	105	16808	0.308	ppbV	93
55) 1,3-dichlorobenzene	19.160	146	16681	0.369	ppbV	98
56) 1,4-dichlorobenzene	19.208	146	16513	0.371	ppbV	98
57) sec-butylbenzene	19.227	105	27350	0.315	ppbV	99
58) p-isopropyltoluene	19.342	119	20743	0.283	ppbV	99
59) 1,2-dichlorobenzene	19.480	146	15358	0.355	ppbV	98
60) n-butylbenzene	19.668	91	18221	0.263	ppbV	98
61) 1,2,4-trichlorobenzene	20.936	180	11240	0.337	ppbV	94
62) naphthalene	21.064	128	20574	0.323	ppbV	98
63) 1,2,3-Trichlorobenzene	21.321	180	11479	0.334	ppbV	94
64) hexachlorobutadiene	21.373	225	11801	0.303	ppbV	95

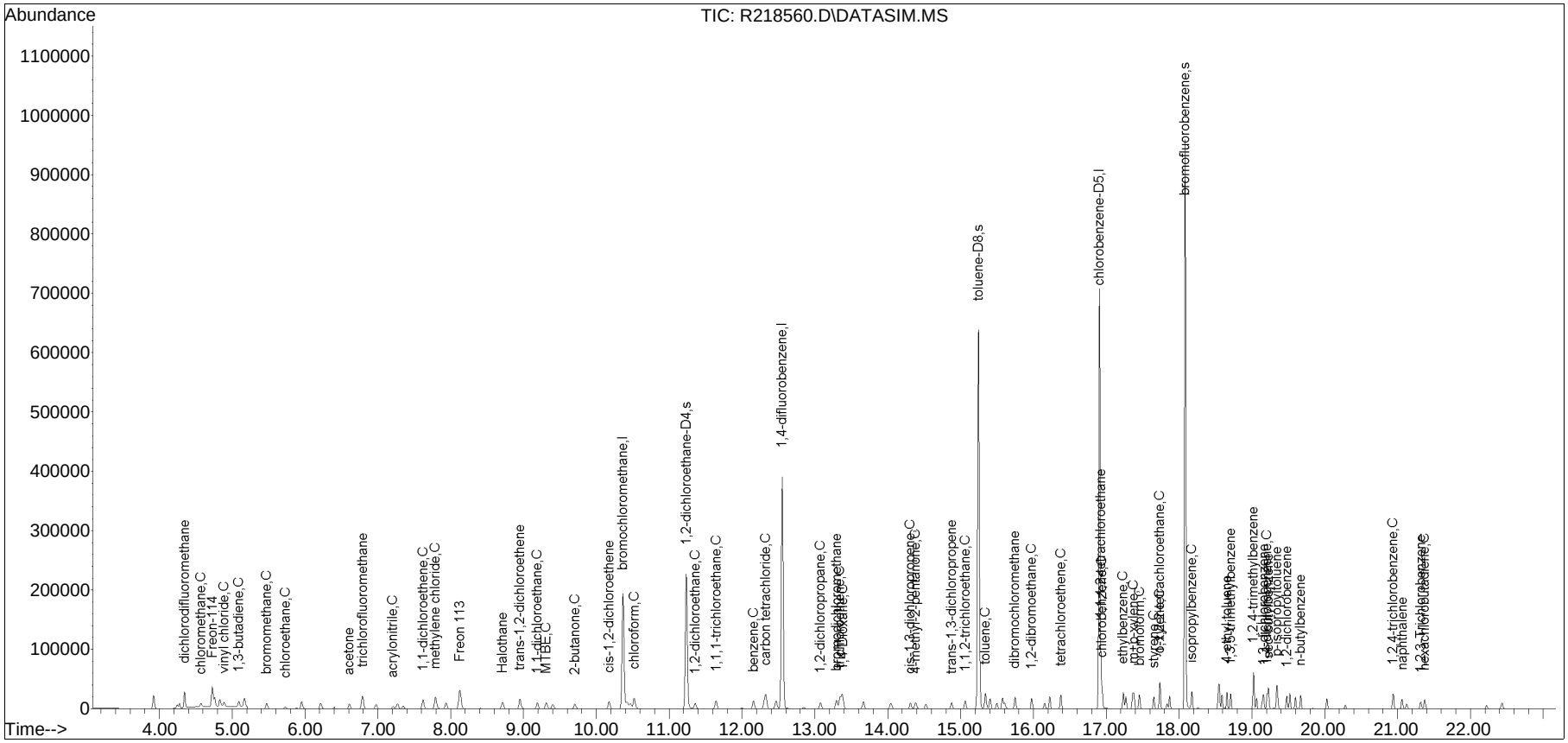
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD0.5
Misc : wg509972
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 11:06:09 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TSIM111221.M
Data File	: R218560.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/21/2011 7:09 pm	Instrument	: Air Piano 2
Sample	: ITO15-SIMSTD0.5	Quant Date	: 12/22/2011 11:06 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD1.0
Misc : wg509972
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 11:10:19 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	200056	10.000	ppbV	0.00
Standard Area = 206707			Recovery = 96.78%			
23) 1,4-difluorobenzene	12.550	114	599464	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 91.75%			
36) chlorobenzene-D5	16.904	54	116791	10.000	ppbV	0.00
Standard Area = 128289			Recovery = 91.04%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	270149	12.448	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 124.48%			
38) toluene-D8	15.241	98	681531	12.447	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 124.47%			
50) bromofluorobenzene	18.084	95	516448	12.093	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.93%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	48413	0.991	ppbV	100
3) chloromethane	4.572	50	14055	0.979	ppbV	99
4) Freon-114	4.728	85	50523	0.966	ppbV	97
5) vinyl chloride	4.889	62	16277	0.967	ppbV	100
6) 1,3-butadiene	5.093	54	10553	0.954	ppbV	97
7) bromomethane	5.475	94	16925	0.953	ppbV	99
8) chloroethane	5.730	64	7405	0.965	ppbV	100
9) acetone	6.604	43	21893	1.042	ppbV #	99
10) trichlorofluoromethane	6.791	101	51094	0.964	ppbV	100
11) acrylonitrile	7.206	53	7647M6	0.866	ppbV	
12) 1,1-dichloroethene	7.619	61	27807	0.966	ppbV	99
13) methylene chloride	7.786	49	21855	1.070	ppbV	95
14) Freon 113	8.129	101	36828	0.967	ppbV	91
15) Halothane	8.712	117	23324	0.904	ppbV #	83
16) trans-1,2-dichloroethene	8.950	61	30186	0.964	ppbV	97
17) 1,1-dichloroethane	9.191	63	29569	0.966	ppbV	100
18) MTBE	9.302	73	33524	0.898	ppbV	98
19) 2-butanone	9.698	43	26303	0.908	ppbV	98
20) cis-1,2-dichloroethene	10.170	61	21857	0.919	ppbV	96
21) chloroform	10.521	83	32627	0.957	ppbV	97
22) 1,2-dichloroethane	11.356	62	21196	0.957	ppbV	98
25) 1,1,1-trichloroethane	11.644	97	34233	1.010	ppbV	99
26) benzene	12.156	78	40731	1.013	ppbV	99
27) carbon tetrachloride	12.326	117	36717	0.982	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD1.0
Misc : wg509972
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 11:10:19 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	14131	0.977	ppbV #	93
29) bromodichloromethane	13.297	83	30665	0.967	ppbV	99
30) trichloroethene	13.343	130	22964	1.031	ppbV	98
31) 1,4-Dioxane	13.374	88	7986	0.971	ppbV	95
32) cis-1,3-dichloropropene	14.311	75	20417	0.961	ppbV	93
33) 4-methyl-2-pentanone	14.371	43	25478	0.988	ppbV	98
34) trans-1,3-dichloropropene	14.879	75	19667	0.928	ppbV	94
35) 1,1,2-trichloroethane	15.063	97	16491	0.973	ppbV	97
37) toluene	15.342	91	47625	0.987	ppbV	100
39) dibromochloromethane	15.748	129	30201	0.905	ppbV	100
40) 1,2-dibromoethane	15.975	107	27289	0.969	ppbV	100
41) tetrachloroethene	16.378	166	31584	0.994	ppbV	92
42) 1,1,1,2-tetrachloroethane	16.926	131	21155	0.922	ppbV	98
43) chlorobenzene	16.942	112	40428	0.968	ppbV	96
44) ethylbenzene	17.234	91	54594	0.913	ppbV	98
45) m+p-xylene	17.376	91	83807	1.763	ppbV	98
46) bromoform	17.457	173	31080	0.825	ppbV	99
47) styrene	17.656	104	30156	0.860	ppbV	99
48) 1,1,2,2-tetrachloroethane	17.732	83	31778	0.861	ppbV	98
49) o-xylene	17.737	91	43230	0.875	ppbV	98
51) isopropylbenzene	18.175	105	60347	0.857	ppbV	99
52) 4-ethyl toluene	18.660	105	52869	0.774	ppbV	98
53) 1,3,5-trimethylbenzene	18.714	105	43611	0.781	ppbV	97
54) 1,2,4-trimethylbenzene	19.028	105	40875	0.757	ppbV	95
55) 1,3-dichlorobenzene	19.163	146	37352	0.834	ppbV	98
56) 1,4-dichlorobenzene	19.214	146	37215	0.844	ppbV	98
57) sec-butylbenzene	19.233	105	66321	0.769	ppbV	98
58) p-isopropyltoluene	19.345	119	53371	0.733	ppbV	99
59) 1,2-dichlorobenzene	19.483	146	34585	0.806	ppbV	98
60) n-butylbenzene	19.674	91	47704	0.694	ppbV	99
61) 1,2,4-trichlorobenzene	20.944	180	25627	0.775	ppbV	94
62) naphthalene	21.064	128	46063	0.730	ppbV	99
63) 1,2,3-Trichlorobenzene	21.321	180	25897	0.761	ppbV	94
64) hexachlorobutadiene	21.372	225	28217	0.731	ppbV	94

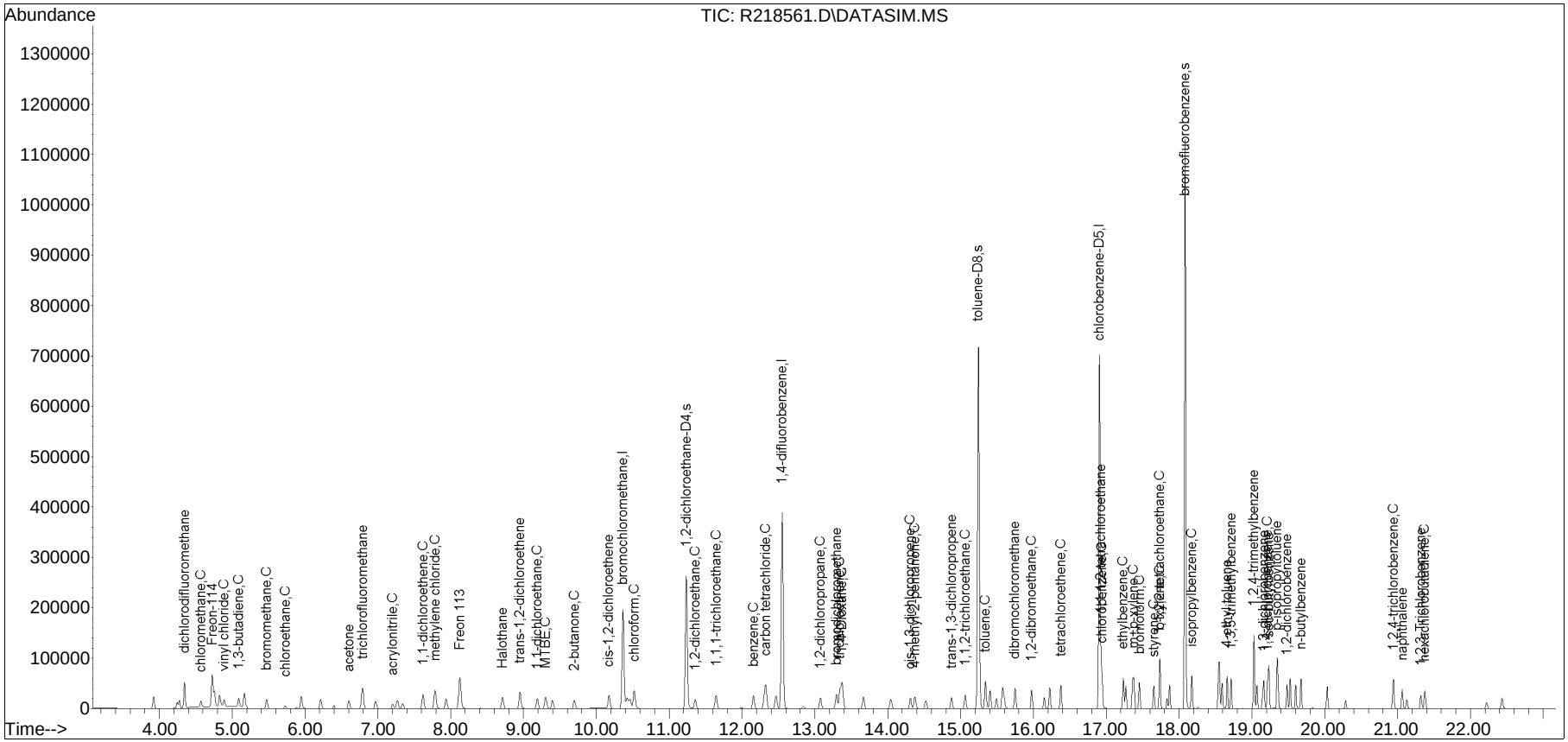
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD1.0
Misc : wg509972
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 11:10:19 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

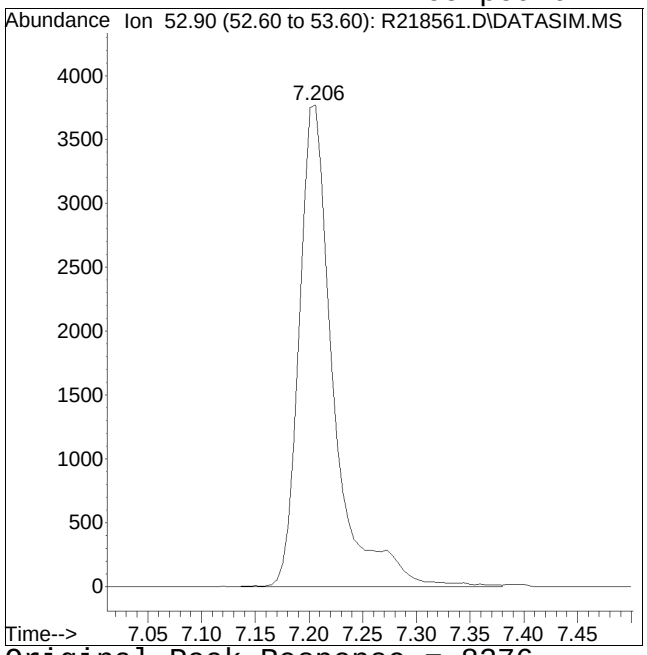


Manual Integration/Negative Proof Report

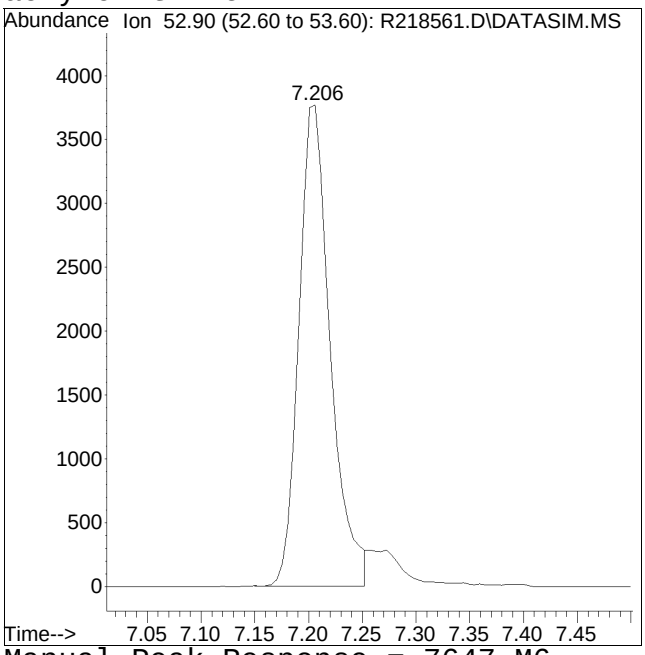
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218561.D
Date Inj'd : 12/21/2011 7:47 pm
Sample : ITO15-SIMSTD1.0

Method : TSIM111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 11:06 am

Compound #11: acrylonitrile



Original Peak Response = 8376



Manual Peak Response = 7647 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD2.5
Misc : wg509972
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 11:06:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.368	49	205035	10.000	ppbV	# 0.00
Standard Area = 206707			Recovery = 99.19%			
23) 1,4-difluorobenzene	12.551	114	637534	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 97.57%			
36) chlorobenzene-D5	16.904	54	126418	10.000	ppbV	0.00
Standard Area = 128289			Recovery = 98.54%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	316433	13.710	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 137.10%#			
38) toluene-D8	15.247	98	792563	13.372	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 133.72%#			
50) bromofluorobenzene	18.084	95	582149	12.593	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 125.93%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	120417	2.405	ppbV	100
3) chloromethane	4.572	50	34006	2.312	ppbV	100
4) Freon-114	4.728	85	120368	2.245	ppbV	97
5) vinyl chloride	4.889	62	39660	2.299	ppbV	100
6) 1,3-butadiene	5.093	54	24460	2.158	ppbV	98
7) bromomethane	5.475	94	39876	2.191	ppbV	99
8) chloroethane	5.730	64	16715	2.126	ppbV	99
9) acetone	6.594	43	43460	2.018	ppbV #	98
10) trichlorofluoromethane	6.791	101	118642	2.184	ppbV	100
11) acrylonitrile	7.201	53	16939	1.872	ppbV	99
12) 1,1-dichloroethene	7.619	61	64009	2.170	ppbV	99
13) methylene chloride	7.787	49	46551	2.223	ppbV	95
14) Freon 113	8.129	101	83154	2.129	ppbV	91
15) Halothane	8.712	117	56982	2.155	ppbV #	83
16) trans-1,2-dichloroethene	8.950	61	69115	2.154	ppbV	97
17) 1,1-dichloroethane	9.191	63	67621	2.155	ppbV	100
18) MTBE	9.294	73	75827	1.981	ppbV	98
19) 2-butanone	9.688	43	57494	1.936	ppbV	97
20) cis-1,2-dichloroethene	10.177	61	46107	1.892	ppbV	95
21) chloroform	10.521	83	75699	2.165	ppbV	98
22) 1,2-dichloroethane	11.356	62	49049	2.161	ppbV	98
25) 1,1,1-trichloroethane	11.644	97	79179	2.196	ppbV	99
26) benzene	12.156	78	93841	2.194	ppbV	99
27) carbon tetrachloride	12.326	117	85736	2.156	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD2.5
Misc : wg509972
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 11:06:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	32909	2.139	ppbV #	94
29) bromodichloromethane	13.298	83	72875	2.160	ppbV	99
30) trichloroethene	13.344	130	53575	2.262	ppbV	99
31) 1,4-Dioxane	13.359	88	18051	2.063	ppbV	96
32) cis-1,3-dichloropropene	14.311	75	47131	2.085	ppbV	93
33) 4-methyl-2-pentanone	14.362	43	59494	2.170	ppbV	98
34) trans-1,3-dichloropropene	14.879	75	44181	1.961	ppbV	94
35) 1,1,2-trichloroethane	15.063	97	37665	2.090	ppbV	97
37) toluene	15.342	91	106214	2.035	ppbV	100
39) dibromochloromethane	15.748	129	73459	2.034	ppbV	100
40) 1,2-dibromoethane	15.975	107	61568	2.019	ppbV	100
41) tetrachloroethene	16.378	166	74697	2.172	ppbV	92
42) 1,1,1,2-tetrachloroethane	16.926	131	50705	2.041	ppbV	98
43) chlorobenzene	16.943	112	91970	2.034	ppbV	96
44) ethylbenzene	17.234	91	121094	1.871	ppbV	98
45) m+p-xylene	17.376	91	187705	3.648	ppbV	98
46) bromoform	17.458	173	76198	1.869	ppbV	99
47) styrene	17.656	104	67970	1.791	ppbV	99
48) 1,1,2,2-tetrachloroethane	17.732	83	74077	1.855	ppbV	99
49) o-xylene	17.737	91	96700	1.809	ppbV	98
51) isopropylbenzene	18.175	105	139136	1.825	ppbV	99
52) 4-ethyl toluene	18.657	105	128896	1.744	ppbV	98
53) 1,3,5-trimethylbenzene	18.707	105	106249	1.758	ppbV	97
54) 1,2,4-trimethylbenzene	19.022	105	101118	1.729	ppbV	96
55) 1,3-dichlorobenzene	19.156	146	85767	1.770	ppbV	98
56) 1,4-dichlorobenzene	19.208	146	84672	1.773	ppbV	98
57) sec-butylbenzene	19.227	105	162863	1.746	ppbV	99
58) p-isopropyltoluene	19.339	119	136555	1.733	ppbV	99
59) 1,2-dichlorobenzene	19.476	146	82338	1.773	ppbV	98
60) n-butylbenzene	19.668	91	129087	1.734	ppbV	97
61) 1,2,4-trichlorobenzene	20.936	180	63051	1.761	ppbV	94
62) naphthalene	21.056	128	119351	1.747	ppbV	98
63) 1,2,3-Trichlorobenzene	21.313	180	67488	1.832	ppbV	94
64) hexachlorobutadiene	21.373	225	71086	1.702	ppbV	94

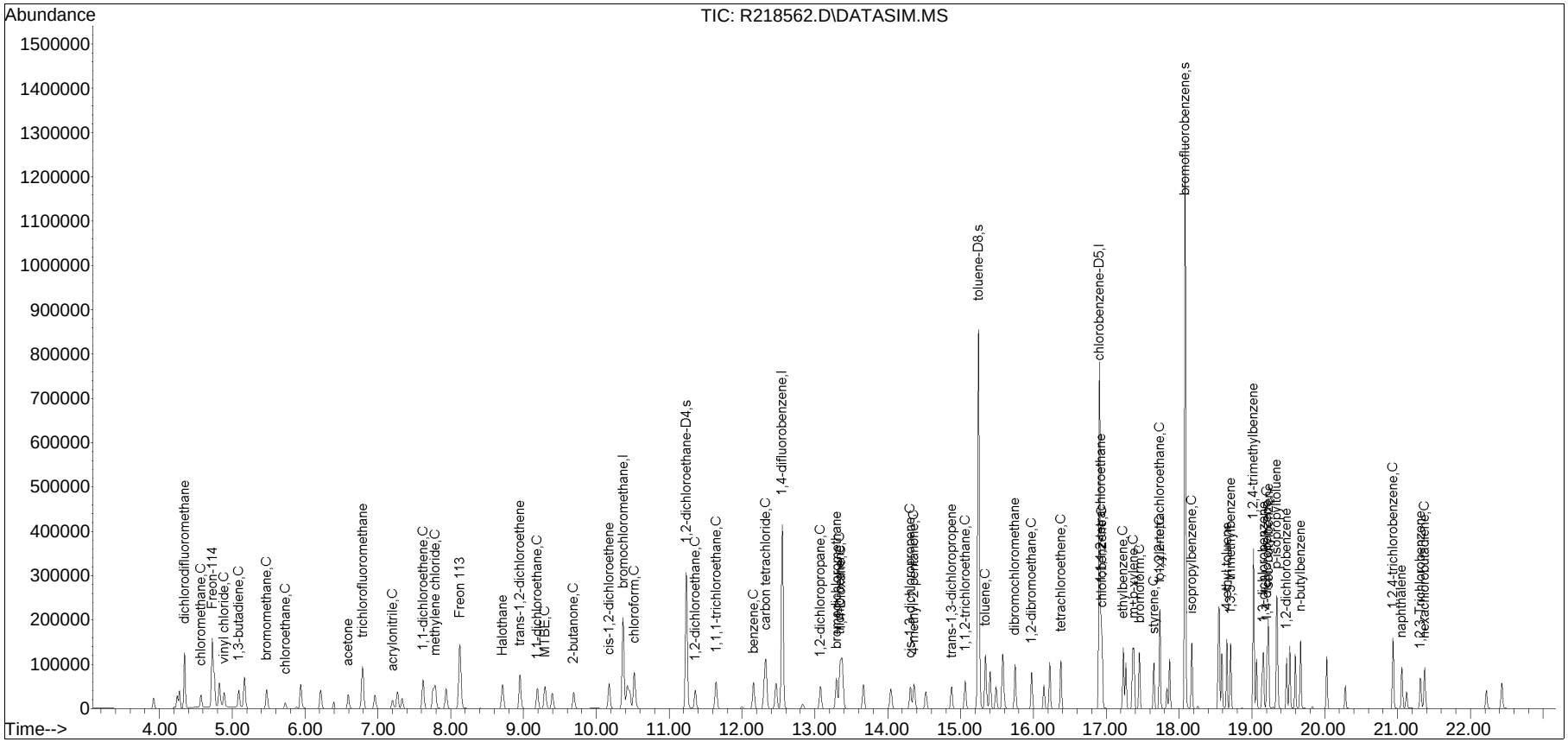
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD2.5
Misc : wg509972
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 11:06:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TSIM111221.M
Data File	: R218562.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/21/2011 8:23 pm	Instrument	: Air Piano 2
Sample	: ITO15-SIMSTD2.5	Quant Date	: 12/22/2011 11:06 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 11:05:08 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Oct 22 16:18:39 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) bromochloromethane	10.368	49	206707	10.000 ppbV	# 0.00
Standard Area = 206707			Recovery = 100.00%		
23) 1,4-difluorobenzene	12.551	114	653393	10.000 ppbV	0.00
Standard Area = 653393			Recovery = 100.00%		
36) chlorobenzene-D5	16.904	54	128289	10.000 ppbV	0.00
Standard Area = 128289			Recovery = 100.00%		
System Monitoring Compounds					
24) 1,2-dichloroethane-D4	11.235	65	236553	8.904 ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.04%		
38) toluene-D8	15.247	98	601462	10.450 ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.50%		
50) bromofluorobenzene	18.084	95	469107	10.417 ppbV	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.17%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	4.346	85	252371	6.243 ppbV	100
3) chloromethane	4.572	50	74136	4.526 ppbV	100
4) Freon-114	4.728	85	270272	6.768 ppbV	96
5) vinyl chloride	4.889	62	86960	5.617 ppbV	100
6) 1,3-butadiene	5.093	54	57134	5.166 ppbV	99
7) bromomethane	5.475	94	91735	6.795 ppbV	98
8) chloroethane	5.726	64	39625	6.106 ppbV	100
9) acetone	6.580	43	108556	5.892 ppbV #	98
10) trichlorofluoromethane	6.791	101	273868	7.238 ppbV	100
11) acrylonitrile	7.196	53	45622	5.628 ppbV	99
12) 1,1-dichloroethene	7.619	61	148660	5.912 ppbV	99
13) methylene chloride	7.787	49	105551	5.287 ppbV	95
14) Freon 113	8.129	101	196839	7.442 ppbV	91
15) Halothane	8.712	117	133281	7.089 ppbV #	83
16) trans-1,2-dichloroethene	8.950	61	161761	5.741 ppbV	97
17) 1,1-dichloroethane	9.191	63	158180	5.973 ppbV	100
18) MTBE	9.283	73	192901	7.114 ppbV	98
19) 2-butanone	9.678	43	149669	5.449 ppbV	97
20) cis-1,2-dichloroethene	10.177	61	122873	5.664 ppbV	96
21) chloroform	10.521	83	176224	6.017 ppbV	98
22) 1,2-dichloroethane	11.356	62	114420	5.635 ppbV	98
25) 1,1,1-trichloroethane	11.644	97	184729	4.584 ppbV	100
26) benzene	12.156	78	219183	4.060 ppbV	99
27) carbon tetrachloride	12.326	117	203821	4.876 ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 11:05:08 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Oct 22 16:18:39 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	78839	3.612 ppbV #	94
29) bromodichloromethane	13.298	83	172890	4.381 ppbV	99
30) trichloroethene	13.344	130	121382	4.458 ppbV	97
31) 1,4-Dioxane	13.344	88	44832	4.240 ppbV	93
32) cis-1,3-dichloropropene	14.311	75	115822	4.295 ppbV #	90
33) 4-methyl-2-pentanone	14.348	43	140491	3.135 ppbV	98
34) trans-1,3-dichloropropene	14.873	75	115469	4.551 ppbV	95
35) 1,1,2-trichloroethane	15.063	97	92342	4.450 ppbV	97
37) toluene	15.342	91	264887	4.817 ppbV	100
39) dibromochloromethane	15.748	129	183244	5.469 ppbV	99
40) 1,2-dibromoethane	15.975	107	154713	5.461 ppbV	98
41) tetrachloroethene	16.378	166	174479	5.783 ppbV	92
42) 1,1,1,2-tetrachloroethane	16.926	131	126044	5.444 ppbV	98
43) chlorobenzene	16.943	112	229392	5.296 ppbV	99
44) ethylbenzene	17.234	91	328454	5.219 ppbV	99
45) m+p-xylene	17.376	91	522224	10.646 ppbV	98
46) bromoform	17.458	173	206832	6.072 ppbV	100
47) styrene	17.656	104	192552	5.374 ppbV	99
48) 1,1,2,2-tetrachloroethane	17.732	83	202659	5.486 ppbV	98
49) o-xylene	17.737	91	271274	5.334 ppbV	98
51) isopropylbenzene	18.175	105	386850	5.459 ppbV	99
52) 4-ethyl toluene	18.657	105	374962	5.613 ppbV	99
53) 1,3,5-trimethylbenzene	18.707	105	306701	5.538 ppbV	98
54) 1,2,4-trimethylbenzene	19.022	105	296717	5.516 ppbV	97
55) 1,3-dichlorobenzene	19.156	146	245901M3	5.364 ppbV	
56) 1,4-dichlorobenzene	19.208	146	242254	5.332 ppbV	98
57) sec-butylbenzene	19.224	105	473375	5.609 ppbV	99
58) p-isopropyltoluene	19.339	119	399796	5.407 ppbV	100
59) 1,2-dichlorobenzene	19.476	146	235694	5.383 ppbV	98
60) n-butylbenzene	19.665	91	377659	5.843 ppbV	98
61) 1,2,4-trichlorobenzene	20.936	180	181633	5.834 ppbV	93
62) naphthalene	21.056	128	346666	5.142 ppbV	99
63) 1,2,3-Trichlorobenzene	21.313	180	186941	5.736 ppbV	93
64) hexachlorobutadiene	21.373	225	211909	6.206 ppbV	93

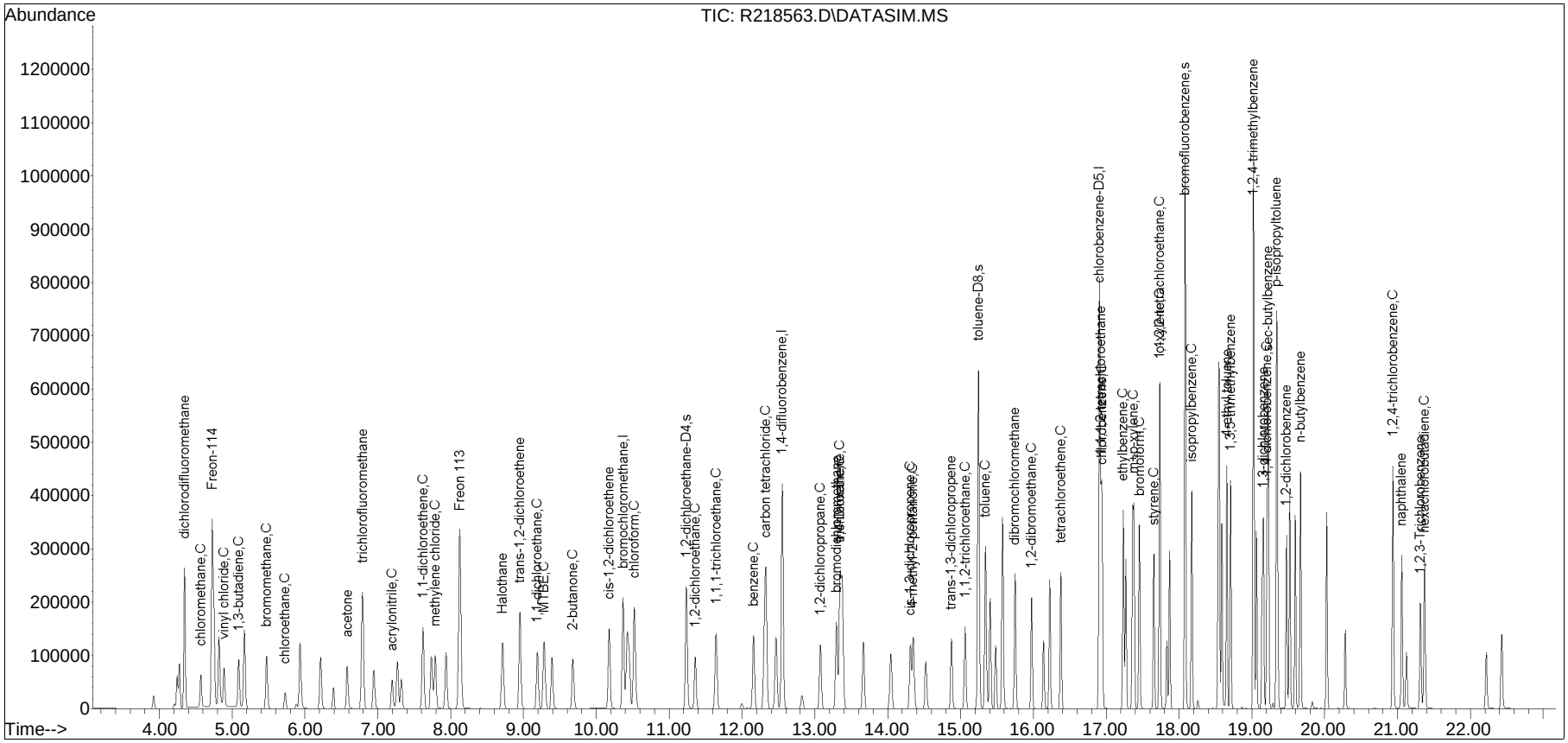
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 11:05:08 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Oct 22 16:18:39 2011
Response via : Initial Calibration

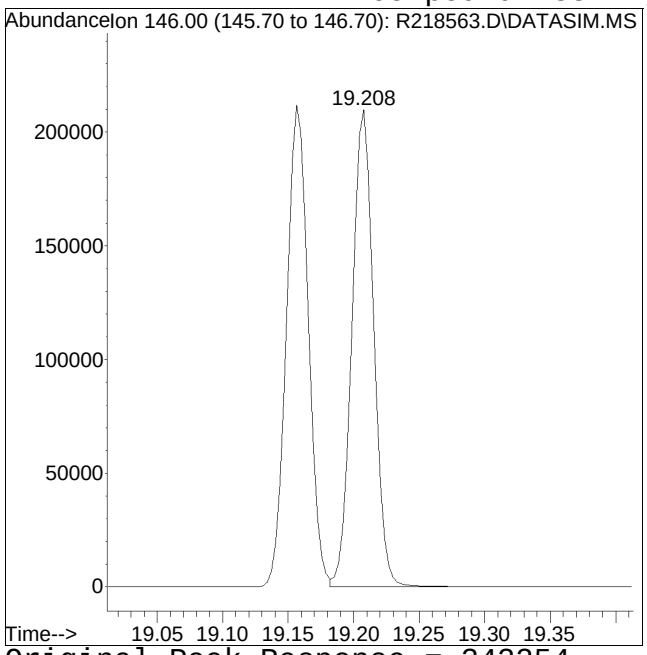
Sub List : Default - All compounds listed

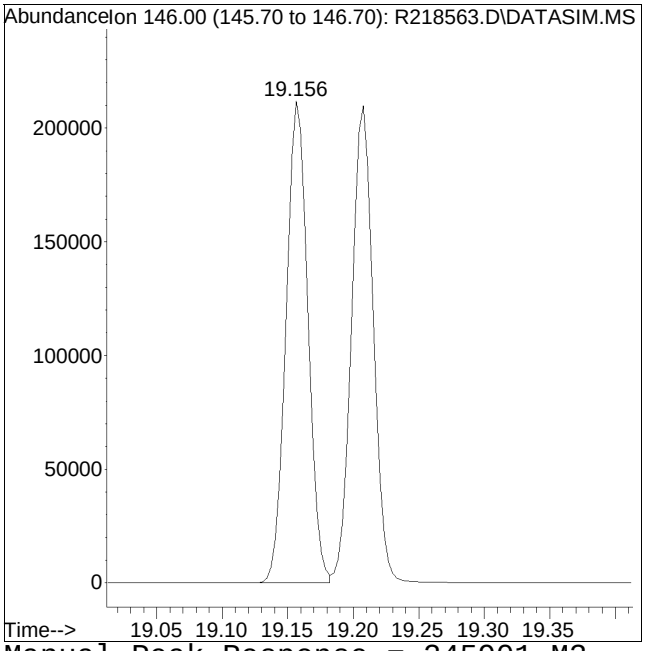


Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218563.D
Date Inj'd : 12/21/2011 9:01 pm
Sample : ITO15-SIMSTD5.0
Method : TSIM111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 11:04 am

Compound #55: 1,3-dichlorobenzene





Original Peak Response = 242254 Manual Peak Response = 245901 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD10.0
Misc : wg509972
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 11:06:30 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.368	49	211507	10.000	ppbV	# 0.00
Standard Area = 206707			Recovery = 102.32%			
23) 1,4-difluorobenzene	12.550	114	664431	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 101.69%			
36) chlorobenzene-D5	16.904	54	127955	10.000	ppbV	0.00
Standard Area = 128289			Recovery = 99.74%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	222990	9.270	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.70%			
38) toluene-D8	15.247	98	566688	9.446	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.46%			
50) bromofluorobenzene	18.084	95	418079	8.935	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.35%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	545786	10.568	ppbV	100
3) chloromethane	4.572	50	159305	10.500	ppbV	100
4) Freon-114	4.728	85	552957	9.997	ppbV	96
5) vinyl chloride	4.889	62	186278	10.467	ppbV	100
6) 1,3-butadiene	5.093	54	119336	10.207	ppbV	99
7) bromomethane	5.475	94	191373	10.194	ppbV	99
8) chloroethane	5.730	64	81724	10.078	ppbV	100
9) acetone	6.571	43	209465	9.429	ppbV #	98
10) trichlorofluoromethane	6.791	101	546595	9.753	ppbV	100
11) acrylonitrile	7.196	53	92295	9.886	ppbV	99
12) 1,1-dichloroethene	7.619	61	296242	9.738	ppbV	99
13) methylene chloride	7.786	49	208498	9.653	ppbV	94
14) Freon 113	8.129	101	394701	9.798	ppbV	91
15) Halothane	8.712	117	291500	10.687	ppbV #	83
16) trans-1,2-dichloroethene	8.950	61	328692	9.929	ppbV	97
17) 1,1-dichloroethane	9.191	63	328998	10.163	ppbV	100
18) MTBE	9.275	73	390083	9.882	ppbV	98
19) 2-butanone	9.670	43	288710	9.426	ppbV	97
20) cis-1,2-dichloroethene	10.177	61	252400	10.038	ppbV	96
21) chloroform	10.521	83	370116	10.263	ppbV	98
22) 1,2-dichloroethane	11.356	62	240684	10.279	ppbV	98
25) 1,1,1-trichloroethane	11.644	97	385297	10.255	ppbV	100
26) benzene	12.156	78	463199	10.391	ppbV	99
27) carbon tetrachloride	12.326	117	422991	10.204	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD10.0
Misc : wg509972
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 11:06:30 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	172959	10.787 ppbV #	95
29) bromodichloromethane	13.297	83	371832	10.575 ppbV	99
30) trichloroethene	13.343	130	258843	10.485 ppbV	98
31) 1,4-Dioxane	13.336	88	90949	9.975 ppbV	95
32) cis-1,3-dichloropropene	14.311	75	255968	10.866 ppbV #	79
33) 4-methyl-2-pentanone	14.344	43	294466	10.306 ppbV	98
34) trans-1,3-dichloropropene	14.873	75	249779	10.636 ppbV	96
35) 1,1,2-trichloroethane	15.063	97	198379	10.563 ppbV	98
37) toluene	15.342	91	585746	11.085 ppbV	100
39) dibromochloromethane	15.748	129	414353	11.336 ppbV	99
40) 1,2-dibromoethane	15.975	107	342769	11.106 ppbV	99
41) tetrachloroethene	16.378	166	378589	10.877 ppbV	91
42) 1,1,1,2-tetrachloroethane	16.926	131	268939	10.696 ppbV	98
43) chlorobenzene	16.943	112	492418	10.761 ppbV	98
44) ethylbenzene	17.234	91	692662	10.572 ppbV	99
45) m+p-xylene	17.376	91	1097735	21.075 ppbV	98
46) bromoform	17.457	173	479193	11.614 ppbV	100
47) styrene	17.656	104	412298	10.734 ppbV	99
48) 1,1,2,2-tetrachloroethane	17.732	83	428175	10.592 ppbV	99
49) o-xylene	17.737	91	569682	10.528 ppbV	98
51) isopropylbenzene	18.175	105	794815	10.300 ppbV	99
52) 4-ethyl toluene	18.664	105	765512	10.235 ppbV	97
53) 1,3,5-trimethylbenzene	18.717	105	621537	10.159 ppbV	98
54) 1,2,4-trimethylbenzene	19.032	105	626013	10.577 ppbV	97
55) 1,3-dichlorobenzene	19.166	146	538959	10.987 ppbV	98
56) 1,4-dichlorobenzene	19.217	146	535734	11.086 ppbV	97
57) sec-butylbenzene	19.233	105	980182	10.380 ppbV	99
58) p-isopropyltoluene	19.348	119	831643	10.428 ppbV	100
59) 1,2-dichlorobenzene	19.483	146	503237	10.704 ppbV	98
60) n-butylbenzene	19.675	91	789215	10.476 ppbV	98
61) 1,2,4-trichlorobenzene	20.936	180	430361	11.878 ppbV	93
62) naphthalene	21.064	128	782654	11.318 ppbV	99
63) 1,2,3-Trichlorobenzene	21.321	180	431773	11.579 ppbV	93
64) hexachlorobutadiene	21.373	225	467562	11.061 ppbV #	92

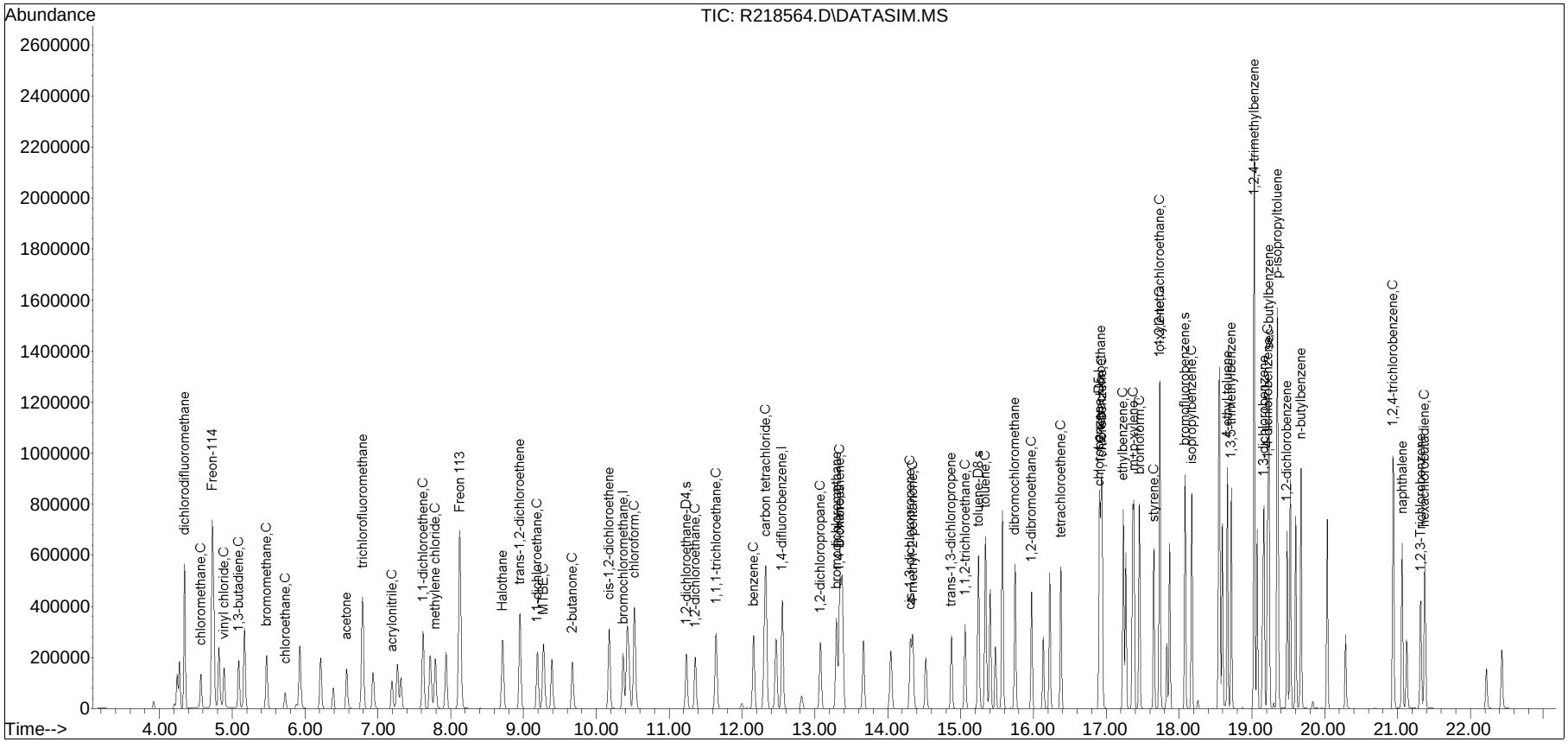
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD10.0
Misc : wg509972
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 11:06:30 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TSIM111221.M
Data File	: R218564.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/21/2011 9:37 pm	Instrument	: Air Piano 2
Sample	: ITO15-SIMSTD10.0	Quant Date	: 12/22/2011 11:06 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD50.0
Misc : wg509972
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 11:06:51 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.368	49	211747	10.000	ppbV	# 0.00
Standard Area = 206707			Recovery = 102.44%			
23) 1,4-difluorobenzene	12.557	114	671199	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 102.73%			
36) chlorobenzene-D5	16.909	54	135778	10.000	ppbV	# 0.00
Standard Area = 128289			Recovery = 105.84%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.240	65	244172	10.048	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.48%			
38) toluene-D8	15.247	98	686249	10.780	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.80%			
50) bromofluorobenzene	18.084	95	548218	11.042	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.42%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.346	85	2746035	53.110	ppbV	100
3) chloromethane	4.566	50	783225	51.566	ppbV	100
4) Freon-114	4.722	85	2780768	50.219	ppbV	97
5) vinyl chloride	4.883	62	919143	51.591	ppbV	100
6) 1,3-butadiene	5.088	54	593476	50.701	ppbV	100
7) bromomethane	5.470	94	916820	48.782	ppbV	98
8) chloroethane	5.725	64	388745	47.885	ppbV	100
9) acetone	6.561	43	698880	31.424	ppbV	98
10) trichlorofluoromethane	6.786	101	2548770	45.425	ppbV	100
11) acrylonitrile	7.191	53	359312	38.442	ppbV	96
12) 1,1-dichloroethene	7.619	61	1327684	43.592	ppbV	98
13) methylene chloride	7.786	49	907789	41.979	ppbV	93
14) Freon 113	8.129	101	1790606	44.401	ppbV	90
15) Halothane	8.712	117	1195809	43.793	ppbV #	83
16) trans-1,2-dichloroethene	8.950	61	1473812	44.471	ppbV	97
17) 1,1-dichloroethane	9.191	63	1421154	43.853	ppbV	100
18) MTBE	9.267	73	1350936	34.183	ppbV	98
19) 2-butanone	9.663	43	919142	29.975	ppbV	96
20) cis-1,2-dichloroethene	10.176	61	1002192	39.811	ppbV	94
21) chloroform	10.527	83	1686769	46.720	ppbV	99
22) 1,2-dichloroethane	11.360	62	1060768	45.251	ppbV	98
25) 1,1,1-trichloroethane	11.644	97	1764289	46.487	ppbV	98
26) benzene	12.163	78	2097495	46.579	ppbV	99
27) carbon tetrachloride	12.333	117	2026079	48.384	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD50.0
Misc : wg509972
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 11:06:51 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	778322	48.052 ppbV	97
29) bromodichloromethane	13.297	83	1738242	48.937 ppbV	99
30) trichloroethene	13.343	130	1222759	49.032 ppbV	99
31) 1,4-Dioxane	13.328	88	360947	39.188 ppbV #	62
32) cis-1,3-dichloropropene	14.311	75	1206840	50.717 ppbV #	85
33) 4-methyl-2-pentanone	14.334	43	1143824	39.628 ppbV	100
34) trans-1,3-dichloropropene	14.879	75	1147099	48.354 ppbV	98
35) 1,1,2-trichloroethane	15.063	97	883526	46.571 ppbV	98
37) toluene	15.342	91	2622963	46.780 ppbV	99
39) dibromochloromethane	15.753	129	2027930	52.282 ppbV	99
40) 1,2-dibromoethane	15.977	107	1601566	48.904 ppbV	98
41) tetrachloroethene	16.378	166	1808634	48.971 ppbV	90
42) 1,1,1,2-tetrachloroethane	16.931	131	1209266	45.324 ppbV	99
43) chlorobenzene	16.948	112	2313012	47.635 ppbV	98
44) ethylbenzene	17.239	91	2984592	42.928 ppbV	99
45) m+p-xylene	17.381	91	4677093	84.621 ppbV	98
46) bromoform	17.457	173	2317171	52.926 ppbV	99
47) styrene	17.656	104	1815079	44.533 ppbV	99
48) 1,1,2,2-tetrachloroethane	17.732	83	1821727	42.467 ppbV	99
49) o-xylene	17.737	91	2407039	41.918 ppbV	99
51) isopropylbenzene	18.175	105	3340533	40.795 ppbV	98
52) 4-ethyl toluene	18.670	105	3220856	40.580 ppbV	99
53) 1,3,5-trimethylbenzene	18.724	105	2633511	40.565 ppbV	98
54) 1,2,4-trimethylbenzene	19.038	105	2628417	41.849 ppbV	98
55) 1,3-dichlorobenzene	19.172	146	2509698	48.216 ppbV	98
56) 1,4-dichlorobenzene	19.223	146	2542510	49.582 ppbV	97
57) sec-butylbenzene	19.239	105	4078371	40.702 ppbV	99
58) p-isopropyltoluene	19.355	119	3447231	40.734 ppbV	99
59) 1,2-dichlorobenzene	19.489	146	2292048	45.942 ppbV	97
60) n-butylbenzene	19.678	91	3277457	40.998 ppbV	99
61) 1,2,4-trichlorobenzene	20.944	180	2137666	55.600 ppbV	94
62) naphthalene	21.064	128	3733078	50.873 ppbV	98
63) 1,2,3-Trichlorobenzene	21.321	180	2113929	53.421 ppbV	93
64) hexachlorobutadiene	21.381	225	2309383	51.485 ppbV #	89

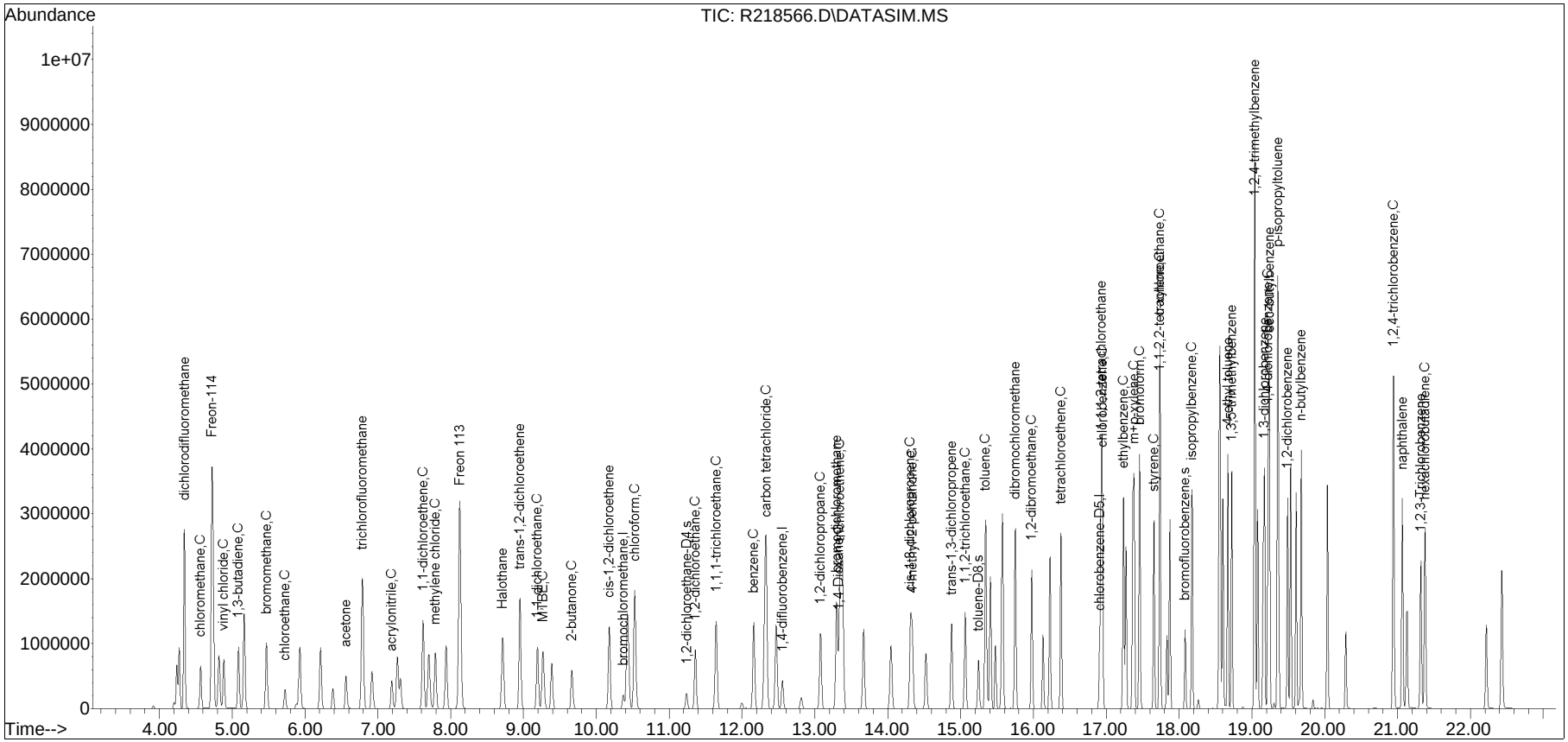
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-SIMSTD50.0
Misc : wg509972
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 11:06:51 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:05:29 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TSIM111221.M
Data File	: R218566.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/21/2011 10:51 pm	Instrument	: Air Piano 2
Sample	: ITO15-SIMSTD50.0	Quant Date	: 12/22/2011 11:06 am

There are no manual integrations or false positives in this file.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218571.D
Acq On : 22 Dec 2011 1:56 am
Operator : AIRPIANO2:RY
Sample : CTO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 11:27:01 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	98	0.00
2		dichlorodifluoromethane	2.637	2.505	5.0	101	0.00
3	C	chloromethane	0.731	0.719	1.6	99	0.00
4		Freon-114	2.684	2.641	1.6	99	0.00
5	C	vinyl chloride	0.870	0.850	2.3	99	0.00
6	C	1,3-butadiene	0.554	0.565	-2.0	101	0.00
7	C	bromomethane	0.910	0.876	3.7	97	0.00
8	C	chloroethane	0.390	0.349	10.5	90	0.00
9		acetone	0.960	0.774	19.4	73	0.00
10		trichlorofluoromethane	2.651	2.651	0.0	99	0.00
11	C	acrylonitrile	0.414	0.323	22.0	72	0.00
12	C	1,1-dichloroethene	1.437	1.403	2.4	96	0.00
13	C	methylene chloride	1.018	0.934	8.3	90	0.00
14		Freon 113	1.906	1.789	6.1	93	0.00
15		Halothane	1.245	1.187	4.7	91	0.00
16		trans-1,2-dichloroethene	1.554	1.147	26.2	72	0.00
17	C	1,1-dichloroethane	1.525	1.365	10.5	88	0.00
18	C	MTBE	1.772	1.432	19.2	76	0.00
19	C	2-butanone	1.263	0.927	26.6	63	0.00
20		cis-1,2-dichloroethene	1.094	0.956	12.6	79	0.00
21	C	chloroform	1.695	1.575	7.1	91	0.00
22	C	1,2-dichloroethane	1.090	0.986	9.5	88	0.00
23	I	1,4-difluorobenzene	1.000	1.000	0.0	103	0.00
24	s	1,2-dichloroethane-D4	0.405	0.377	6.9	107	0.00
25	C	1,1,1-trichloroethane	0.587	0.508	13.5	93	0.00
26	C	benzene	0.683	0.578	15.4	89	0.00
27	C	carbon tetrachloride	0.631	0.568	10.0	94	0.00
28	C	1,2-dichloropropane	0.249	0.204	18.1	87	0.00
29		bromodichloromethane	0.537	0.469	12.7	91	0.00
30	C	trichloroethene	0.394	0.339	14.0	94	0.00
31	C	1,4-Dioxane	0.130	0.109	16.2	82	0.00
32	C	cis-1,3-dichloropropene	0.356	0.310	12.9	90	0.00
33	C	4-methyl-2-pentanone	0.420	0.340	19.0	82	0.00
34		trans-1,3-dichloropropene	0.337	0.246	27.0	72	0.00
35	C	1,1,2-trichloroethane	0.286	0.236	17.5	86	0.00
36	I	chlorobenzene-D5	1.000	1.000	0.0	100	0.00
37	C	toluene	4.336	3.433	20.8	83	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218571.D
Acq On : 22 Dec 2011 1:56 am
Operator : AIRPIANO2:RY
Sample : CTO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 11:27:01 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	s	toluene-D8	5.220	5.138	1.6	110	0.00
39		dibromochloromethane	2.722	2.467	9.4	87	0.00
40	C	1,2-dibromoethane	2.388	2.010	15.8	84	0.00
41	C	tetrachloroethene	2.790	2.440	12.5	90	0.00
42		1,1,1,2-tetrachloroethane	1.863	1.537	17.5	78	0.00
43	C	chlorobenzene	3.653	3.006	17.7	84	0.00
44	C	ethylbenzene	5.027	3.922	22.0	77	0.00
45	C	m+p-xylene	3.839	3.043	20.7	75	0.00
46	C	bromoform	3.008	2.588	14.0	80	0.00
47	C	styrene	2.663	2.268	14.8	76	0.00
48	C	1,1,2,2-tetrachloroethane	2.789	2.333	16.3	74	0.00
49	C	o-xylene	4.078	3.170	22.3	75	0.00
50	s	bromofluorobenzene	3.857	3.942	-2.2	108	0.00
51	C	isopropylbenzene	5.505	4.295	22.0	71	0.00
52		4-ethyl toluene	4.675	4.182	10.5	72	0.00
53		1,3,5-trimethylbenzene	4.191	3.390	19.1	71	0.00
54		1,2,4-trimethylbenzene	3.733	3.337	10.6	72	0.00
55		1,3-dichlorobenzene	3.464	2.826	18.4	74	0.00
56	C	1,4-dichlorobenzene	3.452	2.778	19.5	74	0.00
57		sec-butylbenzene	5.833	4.957	15.0	67	0.00
58		p-isopropyltoluene	5.023	3.964	21.1	64	-0.01
59		1,2-dichlorobenzene	3.252	2.670	17.9	73	-0.01
60		n-butylbenzene	4.497	3.751	16.6	64	-0.01
61	C	1,2,4-trichlorobenzene	2.356	2.024	14.1	72	-0.03
62		naphthalene	5.278	3.711	29.7	69	-0.02
63		1,2,3-Trichlorobenzene	2.416	2.023	16.3	70	-0.03
64	C	hexachlorobutadiene	2.518	2.160	14.2	66	-0.03

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218571.D
Acq On : 22 Dec 2011 1:56 am
Operator : AIRPIANO2:RY
Sample : CTO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 11:27:01 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	203575	10.000	ppbV	# 0.00
Standard Area = 206707			Recovery = 98.48%			
23) 1,4-difluorobenzene	12.550	114	674895	10.000	ppbV	0.00
Standard Area = 653393			Recovery = 103.29%			
36) chlorobenzene-D5	16.904	54	128624	10.000	ppbV	0.00
Standard Area = 128289			Recovery = 100.26%			
System Monitoring Compounds						
24) 1,2-dichloroethane-D4	11.235	65	254147	9.291	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.91%			
38) toluene-D8	15.247	98	660882	9.844	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.44%			
50) bromofluorobenzene	18.084	95	507056	10.221	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.21%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	4.341	85	254990	4.751	ppbV	100
3) chloromethane	4.566	50	73204	4.918	ppbV	100
4) Freon-114	4.722	85	268793	4.920	ppbV	96
5) vinyl chloride	4.883	62	86501	4.886	ppbV	100
6) 1,3-butadiene	5.088	54	57556	5.108	ppbV	99
7) bromomethane	5.470	94	89133	4.810	ppbV	99
8) chloroethane	5.725	64	35497	4.471	ppbV	100
9) acetone	6.580	43	78778	4.029	ppbV #	98
10) trichlorofluoromethane	6.786	101	269835	5.000	ppbV	100
11) acrylonitrile	7.196	53	32891	3.898	ppbV	99
12) 1,1-dichloroethene	7.619	61	142848	4.884	ppbV	99
13) methylene chloride	7.786	49	95074	4.587	ppbV	94
14) Freon 113	8.124	101	182125	4.694	ppbV	91
15) Halothane	8.712	117	120809	4.768	ppbV #	82
16) trans-1,2-dichloroethene	8.950	61	116726	3.689	ppbV	97
17) 1,1-dichloroethane	9.187	63	138919	4.473	ppbV	100
18) MTBE	9.282	73	145783	4.042	ppbV	98
19) 2-butanone	9.678	43	94321	3.668	ppbV	97
20) cis-1,2-dichloroethene	10.176	61	97324	4.371	ppbV	94
21) chloroform	10.521	83	160315	4.647	ppbV	98
22) 1,2-dichloroethane	11.356	62	100339	4.522	ppbV	97
25) 1,1,1-trichloroethane	11.641	97	171381	4.326	ppbV	99
26) benzene	12.156	78	194935	4.230	ppbV	99
27) carbon tetrachloride	12.326	117	191750	4.506	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218571.D
Acq On : 22 Dec 2011 1:56 am
Operator : AIRPIANO2:RY
Sample : CTO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 11:27:01 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) 1,2-dichloropropane	13.075	63	68934	4.101	ppbV #	94
29) bromodichloromethane	13.297	83	158136	4.366	ppbV	99
30) trichloroethene	13.343	130	114288	4.300	ppbV	98
31) 1,4-Dioxane	13.351	88	36757	4.174	ppbV	97
32) cis-1,3-dichloropropene	14.311	75	104708	4.353	ppbV	93
33) 4-methyl-2-pentanone	14.353	43	114874	4.054	ppbV	99
34) trans-1,3-dichloropropene	14.873	75	83148	3.655	ppbV	95
35) 1,1,2-trichloroethane	15.063	97	79698	4.122	ppbV	97
37) toluene	15.342	91	220815	3.960	ppbV	100
39) dibromochloromethane	15.748	129	158645	4.531	ppbV	99
40) 1,2-dibromoethane	15.975	107	129275	4.209	ppbV	98
41) tetrachloroethene	16.378	166	156916	4.373	ppbV	91
42) 1,1,1,2-tetrachloroethane	16.926	131	98845	4.125	ppbV	99
43) chlorobenzene	16.942	112	193334	4.115	ppbV	99
44) ethylbenzene	17.234	91	252262	3.901	ppbV	99
45) m+p-xylene	17.381	91	391387	7.926	ppbV	98
46) bromoform	17.457	173	166451	4.302	ppbV	99
47) styrene	17.656	104	145888	4.259	ppbV	99
48) 1,1,2,2-tetrachloroethane	17.732	83	150031	4.182	ppbV	99
49) o-xylene	17.737	91	203848	3.886	ppbV	98
51) isopropylbenzene	18.175	105	276201	3.901	ppbV	99
52) 4-ethyl toluene	18.657	105	268961	4.473	ppbV	97
53) 1,3,5-trimethylbenzene	18.710	105	218021	4.045	ppbV	98
54) 1,2,4-trimethylbenzene	19.019	105	214634	4.470	ppbV	98
55) 1,3-dichlorobenzene	19.153	146	181734	4.079	ppbV	98
56) 1,4-dichlorobenzene	19.201	146	178678	4.024	ppbV	97
57) sec-butylbenzene	19.217	105	318779	4.249	ppbV	99
58) p-isopropyltoluene	19.329	119	254938	3.946	ppbV	98
59) 1,2-dichlorobenzene	19.463	146	171701	4.105	ppbV	98
60) n-butylbenzene	19.652	91	241247	4.171	ppbV	100
61) 1,2,4-trichlorobenzene	20.904	180	130141	4.294	ppbV	93
62) naphthalene	21.033	128	238648	3.515	ppbV	99
63) 1,2,3-Trichlorobenzene	21.281	180	130124	4.187	ppbV	93
64) hexachlorobutadiene	21.341	225	138930	4.289	ppbV	93

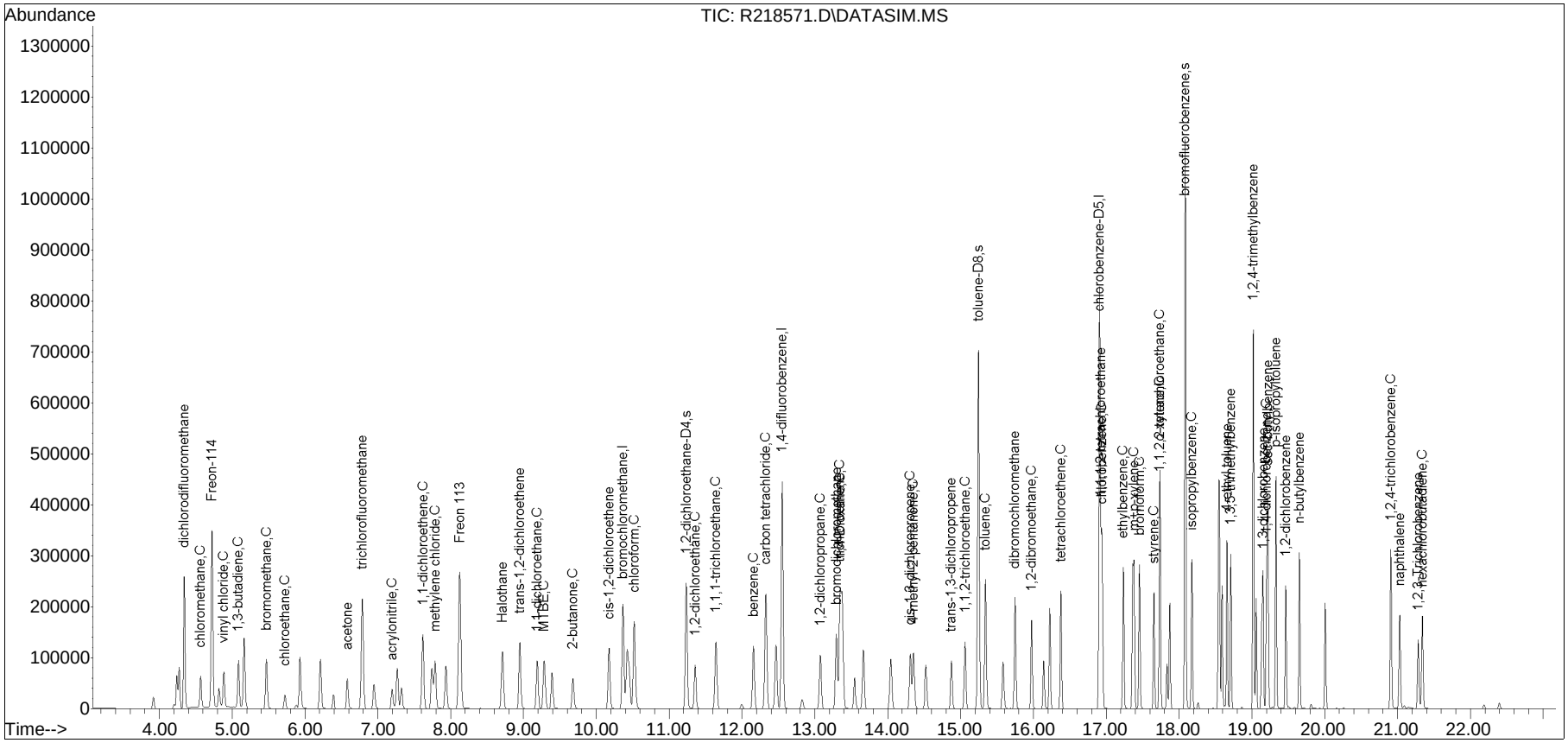
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218571.D
Acq On : 22 Dec 2011 1:56 am
Operator : AIRPIANO2:RY
Sample : CTO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 11:27:01 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TSIM111221.M
Data File	: R218571.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/22/2011 1:56 am	Instrument	: Air Piano 2
Sample	: CTO15-SIMSTD5.0	Quant Date	: 12/22/2011 11:26 am

There are no manual integrations or false positives in this file.

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jan 30 2012, 11:54 am

Work Group: WG511603 for Department: 3 GC/MS

Created: 03-JAN-12 Due: Operator: mb

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1200005-01	C-28	S	MCP-TO15-SIM	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-02	B-28	S	MCP-TO15-SIM	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-03	A-28	S	MCP-TO15-SIM	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-04	BG-28	S	MCP-TO15-SIM	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-05	BG-28-DUP	S	MCP-TO15-SIM	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-06	TB-28	S	MCP-TO15-SIM	AIR	DONE	U	0128	0116	S0	Can-6
L1200006-01	VS-1-28	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-02	VS-4-28	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-03	VS-12-28	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-04	VS-8-28	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-05	VS-8-28-DUP	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-06	VS-BG-28	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-07	VS-TB-28	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
WG511603-1	MS BFB Tune Standard	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U				
WG511603-1	MS BFB Tune Standard	S	MCP-TO15-SIM	AIR	DONE	U				
WG511603-2	Continuing Calibrati	S	MCP-TO15-SIM	AIR	DONE	U				
WG511603-2	Continuing Calibrati	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U				
WG511603-3	Laboratory Control S	S	MCP-TO15-SIM	AIR	DONE	U				
WG511603-3	Laboratory Control S	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U				
WG511603-4	Laboratory Method Bl	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U				
WG511603-4	Laboratory Method Bl	S	MCP-TO15-SIM	AIR	DONE	U				
WG511603-5	Duplicate Sample	S	MCP-TO15-SIM	SOIL_VAPOR	DONE	U				
WG511603-5	Duplicate Sample	S	MCP-TO15-SIM	AIR	DONE	U				

Comments:

WG511603-5 L1200006-01

Sequence Logs

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

Sequence Name: C:\Smart\111221_TO15ICAL.SEQ
Date: 12-22-2011
Time: 09:47:24
Int. Std Volume: 100 cc

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
TA2122102	1	1	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.02	1	5	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.04	1	5	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.1	1	6	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.2	1	6	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.5	1	7	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD1.0	1	7	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD2.5	1	8	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD5.0	1	8	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD10.0	1	9	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD20.0	1	9	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD50.0	1	10	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD100.0	1	10	250	100	C:\Smart\Alpha_To15.MPT	12:00
BA2122101	1	1	250	100	C:\Smart\Alpha_To15.MPT	12:00
BA2122102	1	1	250	100	C:\Smart\Alpha_To15.MPT	12:00
CTO15-LLSTD10.0	1	2	250	100	C:\Smart\Alpha_To15.MPT	12:00
CTO15-SIMSTD5.0	1	2	125	100	C:\Smart\Alpha_To15.MPT	12:00

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AirPiano2

Internal Standard/Surrogate IDs: CSS11-004 CSS10-013

Date: 12/21/11

Internal Standard/Surrogate Volume: 100 mL

Analyst Initials: RY

EM Voltage: 1529

Full Scan ICAL# SIM ICAL# APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Misc Info	Comment
1	TA2122101	TO15_SFS	R218552	250ml	DO NOT USE
2	CTO15-LLSTD10	TO15_SFS	R218553	250ml SS11-040B	DO NOT USE
2	CTO15-SIMSTD5.0	TO15_SFS	R218554	125ml SS11-040B	DO NOT USE
1	TA2122102	TO15_SFS	R218555	250ml	TUNE
5	ITO15-SIMSTD0.02	TO15_SFS	R218556	SS11-036F 125ML 0.02	SIM ONLY
5	ITO15-SIMSTD0.04	TO15_SFS	R218557	SS11-036F 250ML 0.04	SIM ONLY
6	ITO15-SIMSTD0.1	TO15_SFS	R218558	SS11-036E 125ML 0.1	SIM ONLY
6	ITO15-SIMSTD0.2	TO15_SFS	R218559	SS11-036E 250ML 0.2	
7	ITO15-SIMSTD0.5	TO15_SFS	R218560	SS11-036D 125ML 0.5	
7	ITO15-SIMSTD1.0	TO15_SFS	R218561	SS11-036D 250ML 1.0	
8	ITO15-SIMSTD2.5	TO15_SFS	R218562	SS11-036C 125ML 2.5	
8	ITO15-SIMSTD5.0	TO15_SFS	R218563	SS11-036C 250ML 5.0	
9	ITO15-SIMSTD10.0	TO15_SFS	R218564	SS11-036B 125ML 10.0	
9	ITO15-SIMSTD20.0	TO15_SFS	R218565	SS11-036B 250ML 20.0	DID NOT USE FOR FULL SCAN OR SIM
10	ITO15-SIMSTD50.0	TO15_SFS	R218566	SS11-036A 125ML 50.0	
10	ITO15-LLSTD100.0	TO15_SFS	R218567	SS11-036A 250ML 100.0	NOT USED FOR SIM
1	BA2122101	TO15_SFS	R218568	250ml	
1	BA2122102	TO15_SFS	R218569	250ml	
2	CTO15-LLSTD10	TO15_SFS	R218570	250ml SS11-040B	LL ICV
2	CTO15-SIMSTD5.0	TO15_SFS	R218571	125ml SS11-040B	SIM ICV

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AirPiano2

Internal Standard/Surrogate IDs: CSS11-004 CSS10-013

Date: 01/05/12

Internal Standard/Surrogate Volume: 100 mL

Analyst Initials: RY/MB

EM Voltage: 1447

Full Scan ICAL# 6480 SIM ICAL# 6481 APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Misc Info	Comment
1	TA2010501	TO15_SFS	R218764	250ml	TUNE
2	CTO15-LLSTD10	TO15_SFS	R218765	250ml SS11-032B	LL LCS FAILED
3	CTO15-SIMSTD5.0	TO15_SFS	R218766	125ml SS11-040D	SIM LCS FAILED
		Pause			
1	TA2010502	TO15_SFS	R218767	250ml	TUNE
2	CTO15-LLSTD10	TO15_SFS	R218768	250ml SS11-032B	LL LCS
		Pause			
3	CTO15-SIMSTD5.0	TO15_SFS	R218769	125ml SS11-040D	SIM LCS
		Pause			
1	BA2010501	TO15_SFS	R218770	250ml	(INST) BLANK
1	BA2010502	TO15_SFS	R218771	250ml	1/30/12 JW ~~INSTRUMENT~~ BLANK
4	L1200005-06,3,250,250	TO15_SFS	R218772	WG511601,ICAL6480	
5	L1200006-07,3,250,250	TO15_SFS	R218773	WG511601,ICAL6480	
6	L1200005-01,3,250,250	TO15_SFS	R218774	WG511601,ICAL6480	
7	L1200005-02,3,250,250	TO15_SFS	R218775	WG511601,ICAL6480	
8	L1200005-03,3,250,250	TO15_SFS	R218776	WG511601,ICAL6480	
9	L1200005-04,3,250,250	TO15_SFS	R218777	WG511601,ICAL6480	
10	L1200005-05,3,250,250	TO15_SFS	R218778	WG511601,ICAL6480	
11	L1200006-01,3,250,250	TO15_SFS	R218779	WG511601,ICAL6480	
11	L1200006-01DUP,3,250,250	TO15_SFS	R218780	WG511601,ICAL6480	MCP-TO15, MCP-TO15-SIM-DUP
12	L1200006-02,3,250,250	TO15_SFS	R218781	WG511601,ICAL6480	

Alpha Analytical Air Lab
Instrument Run Log

13	L1200006-03,3,250,250	TO15_SFS	R218782	WG511601,ICAL6480	
14	L1200006-04,3,250,250	TO15_SFS	R218783	WG511601,ICAL6480	
15	L1200006-05,3,250,250	TO15_SFS	R218784	WG511601,ICAL6480	
16	L1200006-06,3,250,250	TO15_SFS	R218785	WG511601,ICAL6480	

Analytical Event

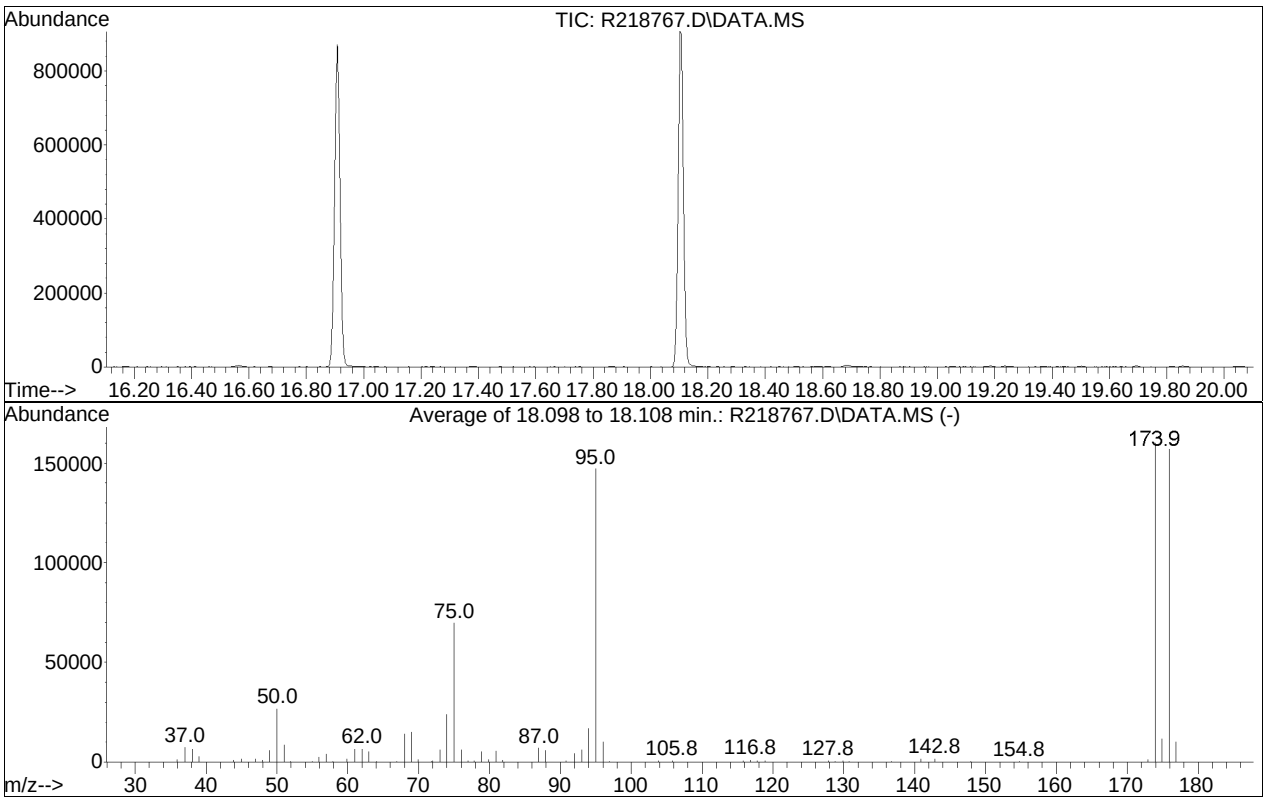
Continuing Calibration
BFB Tune

BFB

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218767.D
Acq On : 5 Jan 2012 4:30 pm
Operator : AIRPIANO2:MB
Sample : WG511603-1,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 11:24:44 2011



AutoFind: Scans 3052, 3053, 3054; Background Corrected with Scan 3045

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	26717	PASS
75	95	30	66	47.3	69645	PASS
95	95	100	100	100.0	147171	PASS
96	95	5	9	6.9	10124	PASS
173	174	0.00	2	0.8	1357	PASS
174	95	50	120	108.9	160211	PASS
175	174	4	9	7.4	11798	PASS
176	174	93	101	98.0	157011	PASS
177	176	5	9	6.6	10289	PASS

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218769.D
Acq On : 5 Jan 2012 18:04
Operator : AIRPIANO2:ry
Sample : WG511603-2,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 18:27:38 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	73	-0.01
21	C	chloroform	1.695	1.727	-1.9	74	0.00
23	I	1,4-difluorobenzene	1.000	1.000	0.0	74	0.00
26	C	benzene	0.683	0.647	5.3	71	0.00
30	C	trichloroethene	0.394	0.389	1.3	77	0.00
36	I	chlorobenzene-D5	1.000	1.000	0.0	70	0.00
41	C	tetrachloroethene	2.790	3.099	-11.1	80	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218769.D
Acq On : 5 Jan 2012 18:04
Operator : AIRPIANO2:ry
Sample : WG511603-2,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 18:27:38 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

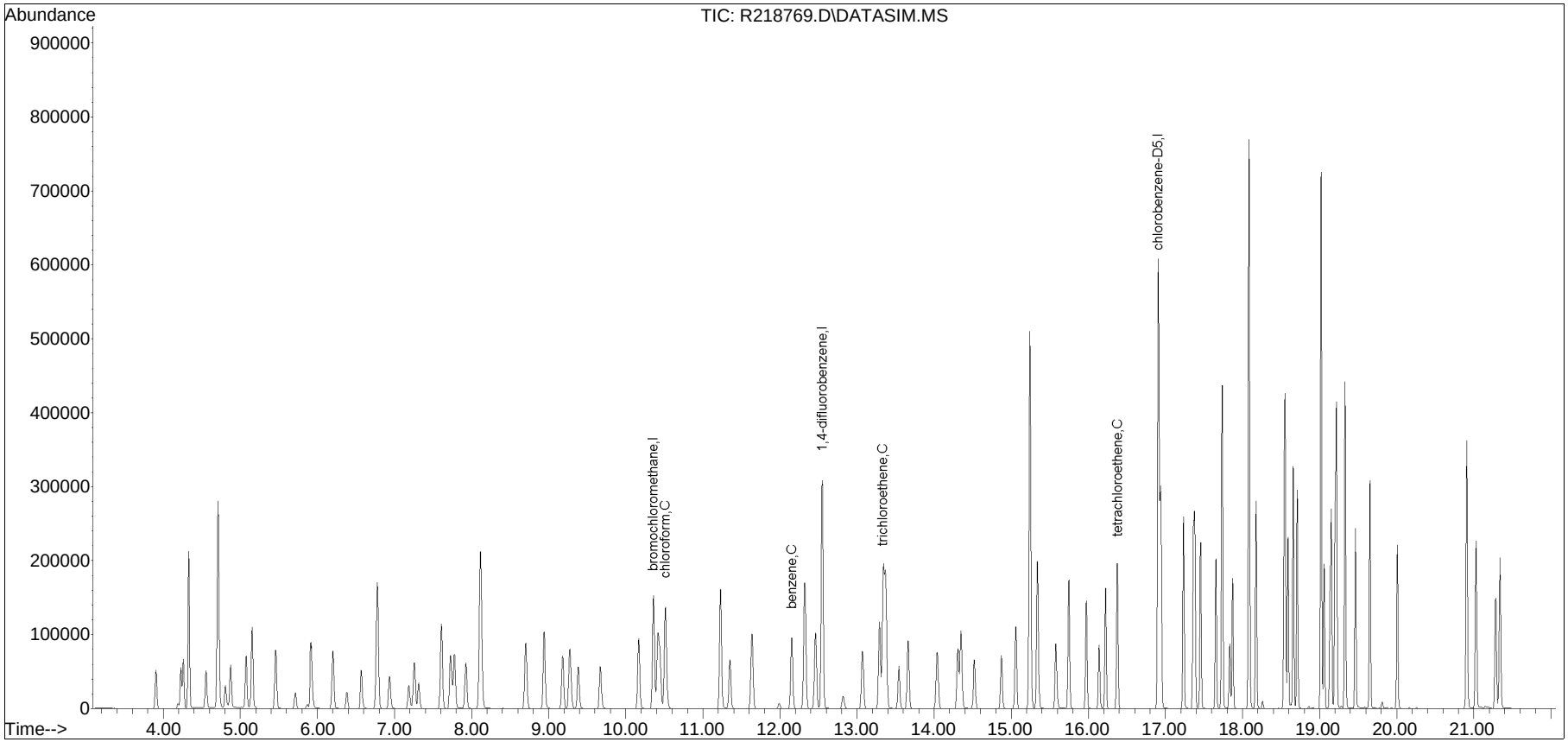
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) bromochloromethane	10.355	49	150860	10.000 ppbV	#-0.01
Standard Area = 150860			Recovery = 100.00%		
23) 1,4-difluorobenzene	12.550	114	481130	10.000 ppbV	0.00
Standard Area = 481130			Recovery = 100.00%		
36) chlorobenzene-D5	16.904	54	89624	10.000 ppbV	0.00
Standard Area = 89624			Recovery = 100.00%		
System Monitoring Compounds					
Target Compounds					Qvalue
21) chloroform	10.514	83	130242	5.095 ppbV	99
26) benzene	12.156	78	155616	4.737 ppbV	98
30) trichloroethene	13.336	130	93486	4.934 ppbV	99
41) tetrachloroethene	16.378	166	138892	5.555 ppbV	89

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

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218769.D
Acq On : 5 Jan 2012 18:04
Operator : AIRPIANO2:ry
Sample : WG511603-2,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 18:27:38 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2012Q	Method	: TSIM111221.M
Data File	: R218769.D	Operator	: AIRPIANO2:ry
Date Inj'd	: 1/5/2012 18:04	Instrument	: Air Piano 2
Sample	: WG511603-2,3,250,250	Quant Date	: 1/5/2012 6:27 pm

There are no manual integrations or false positives in this file.

Sample Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218773.D
Acq On : 5 Jan 2012 20:52
Operator : AIRPIANO2:MB
Sample : L1200006-07,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 06 09:12:28 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

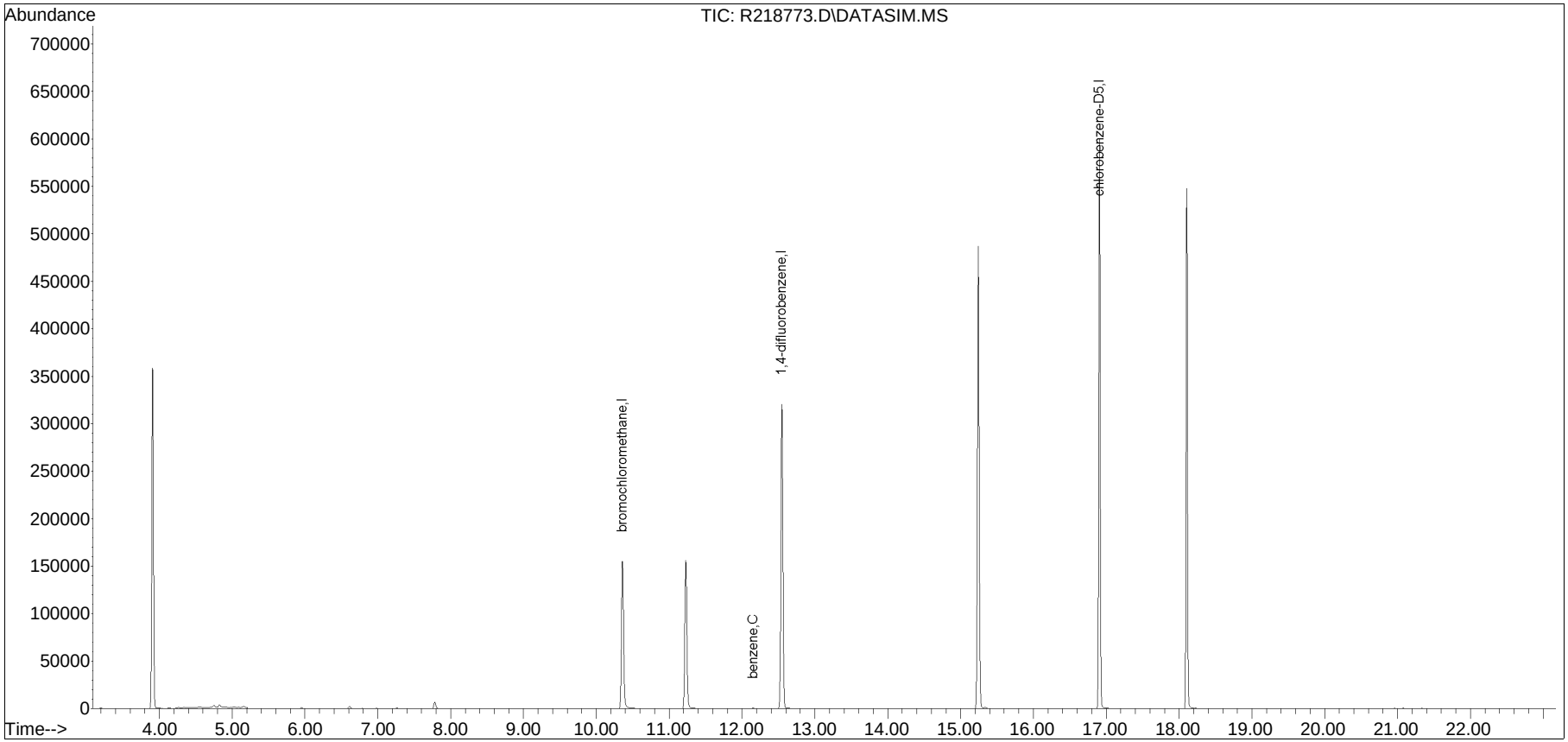
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.356	49	159395	10.000	ppbV	#-0.01
Standard Area = 150860			Recovery = 105.66%			
23) 1,4-difluorobenzene	12.544	114	502690	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 104.48%			
36) chlorobenzene-D5	16.907	54	88661	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 98.93%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	10.509		0	N.D.		
26) benzene	12.150	78	728	0.021	ppbV	99
30) trichloroethene	13.343		0	N.D.		
41) tetrachloroethene	16.376		0	N.D.		

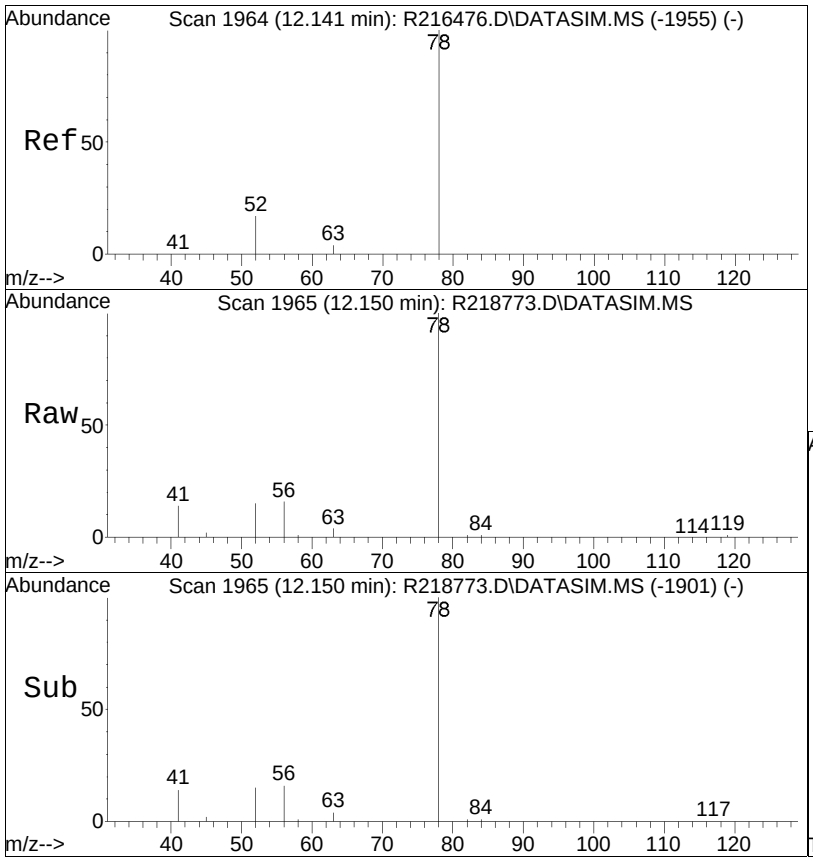
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218773.D
Acq On : 5 Jan 2012 20:52
Operator : AIRPIANO2:MB
Sample : L1200006-07,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 06 09:12:28 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

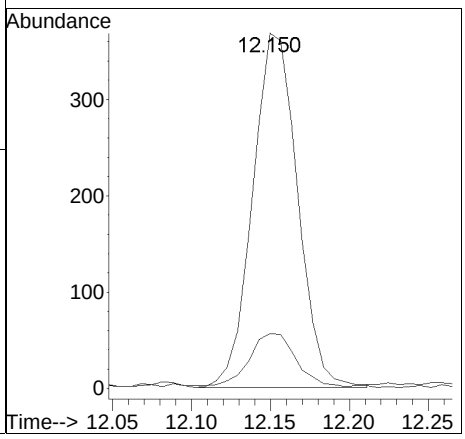




#26
benzene
Concen: 0.02 ppbV
RT: 12.150 min Scan# 1965
Delta R.T. -0.006 min
Lab File: R218773.D
Acq: 5 Jan 2012 20:52

Tgt Ion: 78 Resp: 728

Ion	Ratio	Lower	Upper
78	100		
52	16.3	13.3	19.9



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218779.D
Acq On : 6 Jan 2012 00:27
Operator : AIRPIANO2:MB
Sample : L1200006-01,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 06 09:13:53 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

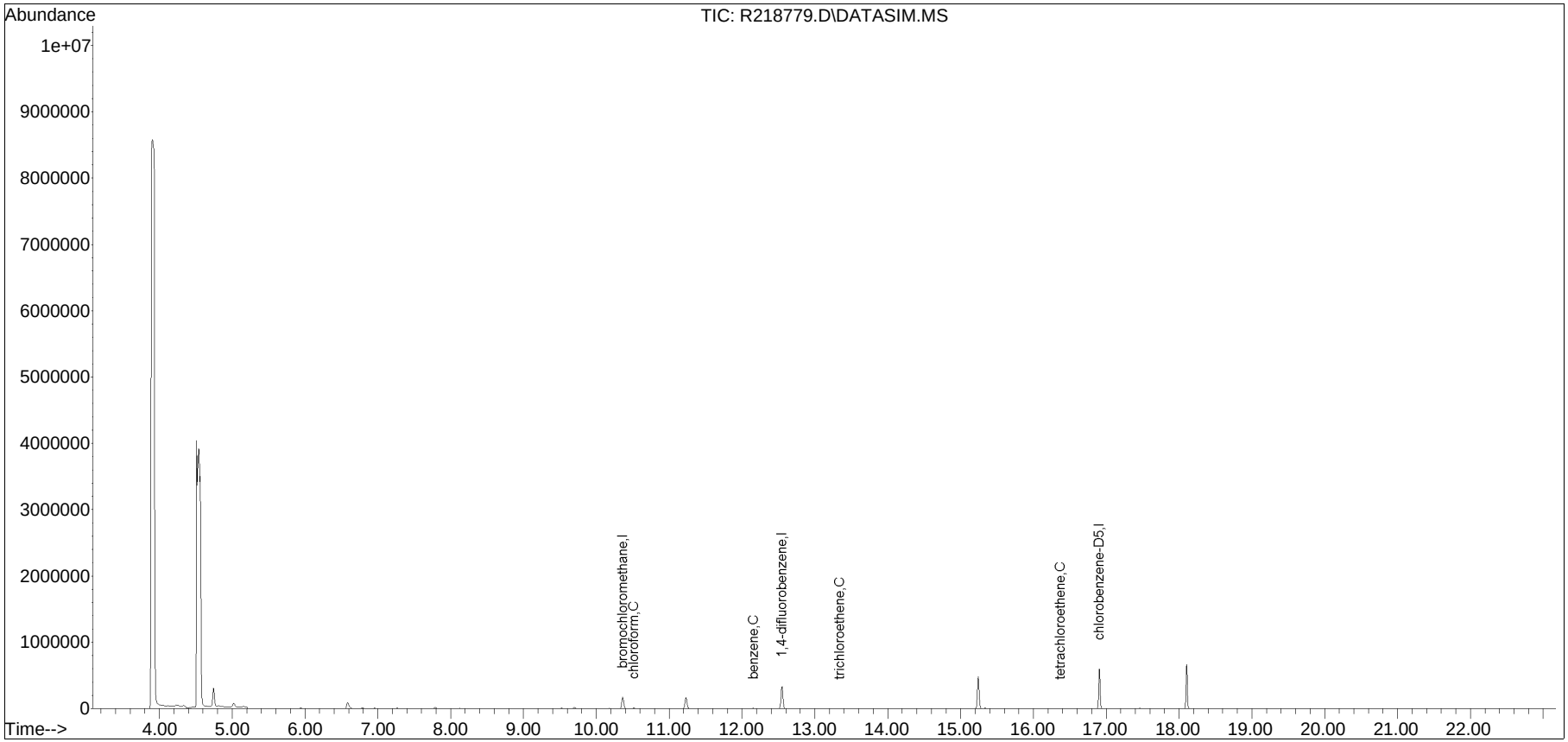
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.362	49	167793	10.000	ppbV	# 0.00
Standard Area = 150860			Recovery = 111.22%			
23) 1,4-difluorobenzene	12.551	114	518808	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 107.83%			
36) chlorobenzene-D5	16.904	54	92750	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 103.49%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	10.515	83	7090	0.249	ppbV	99
26) benzene	12.156	78	7546	0.213	ppbV	100
30) trichloroethene	13.344	130	302	0.015	ppbV	97
41) tetrachloroethene	16.374	166	2100	0.081	ppbV	89

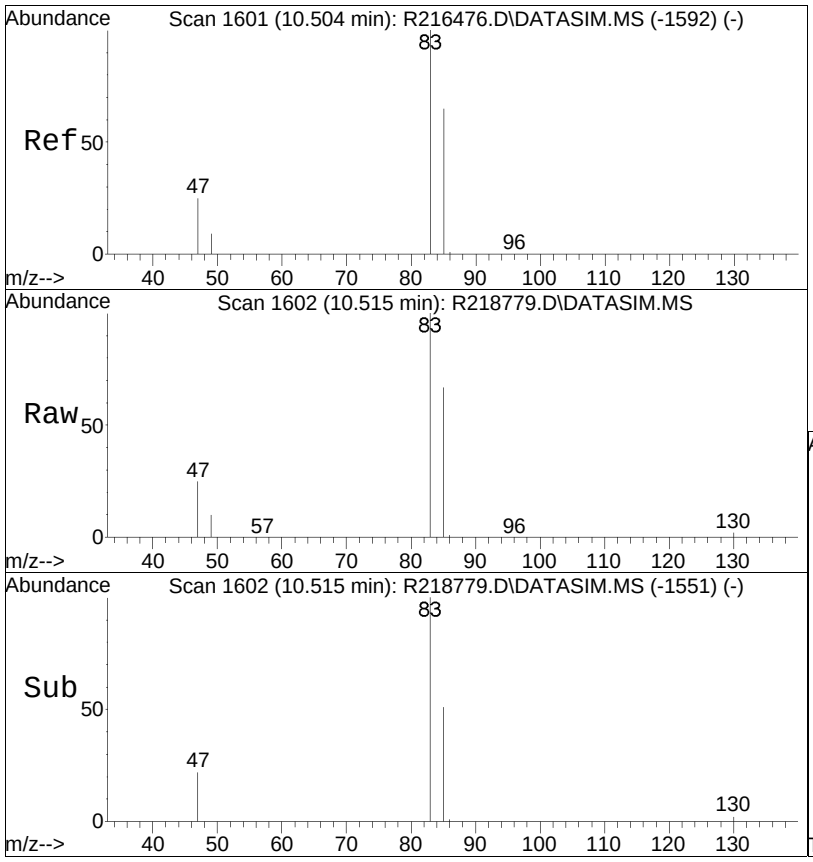
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218779.D
Acq On : 6 Jan 2012 00:27
Operator : AIRPIANO2:MB
Sample : L1200006-01,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 06 09:13:53 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

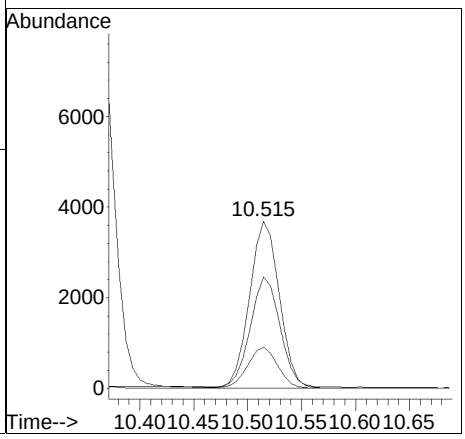


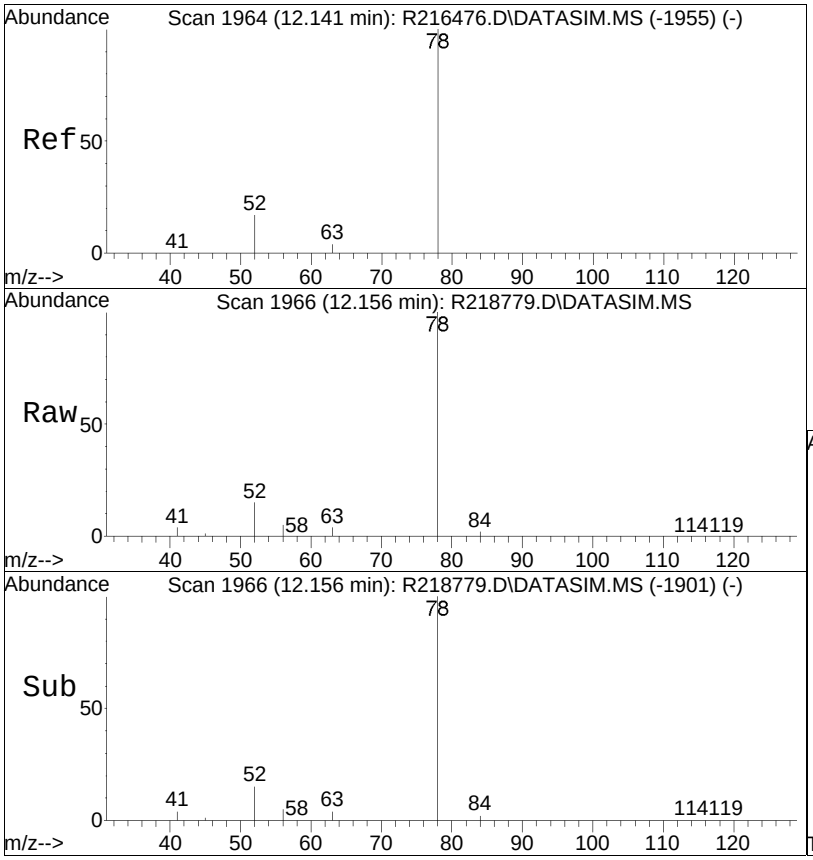


#21
chloroform
Concen: 0.25 ppbV
RT: 10.515 min Scan# 1602
Delta R.T. -0.006 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 83 Resp: 7090

Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.4	78.6
47	24.8	19.9	29.9

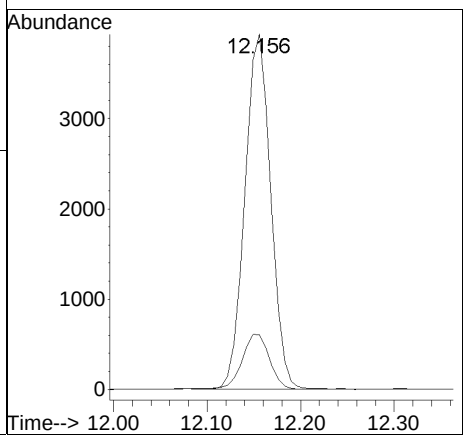


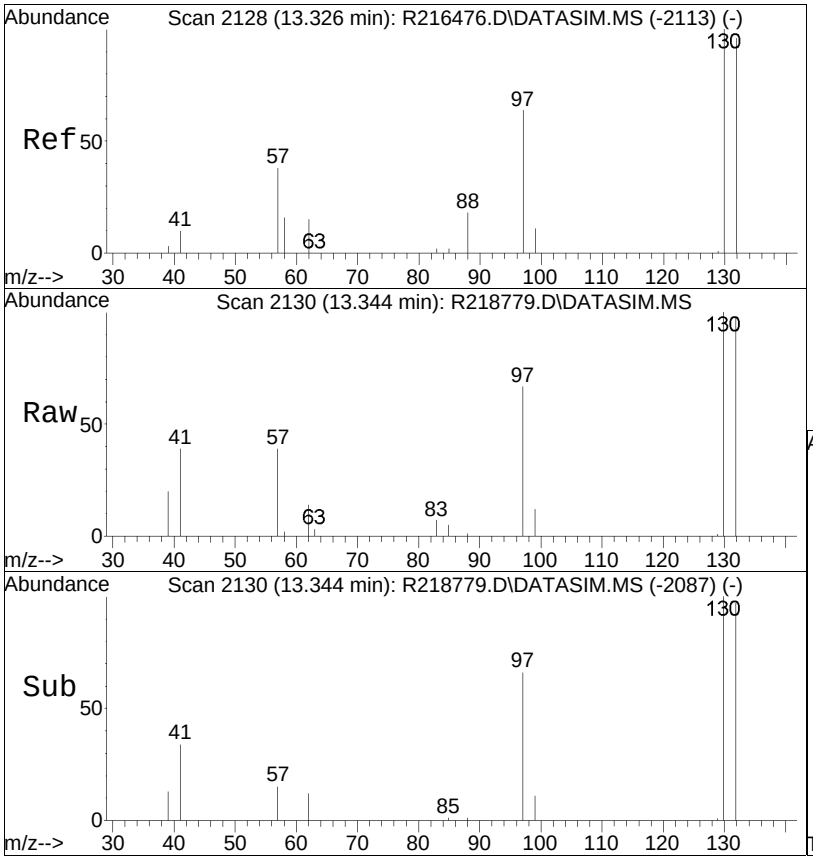


#26
benzene
Concen: 0.21 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 78 Resp: 7546

Ion	Ratio	Lower	Upper
78	100		
52	16.8	13.3	19.9

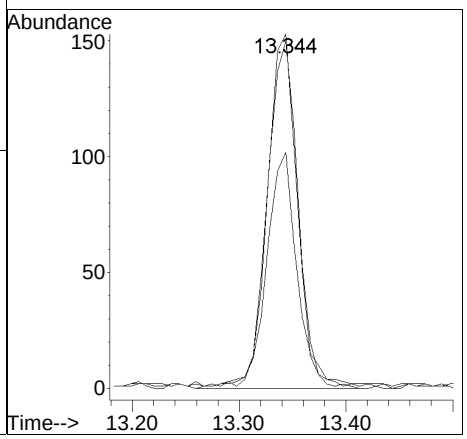


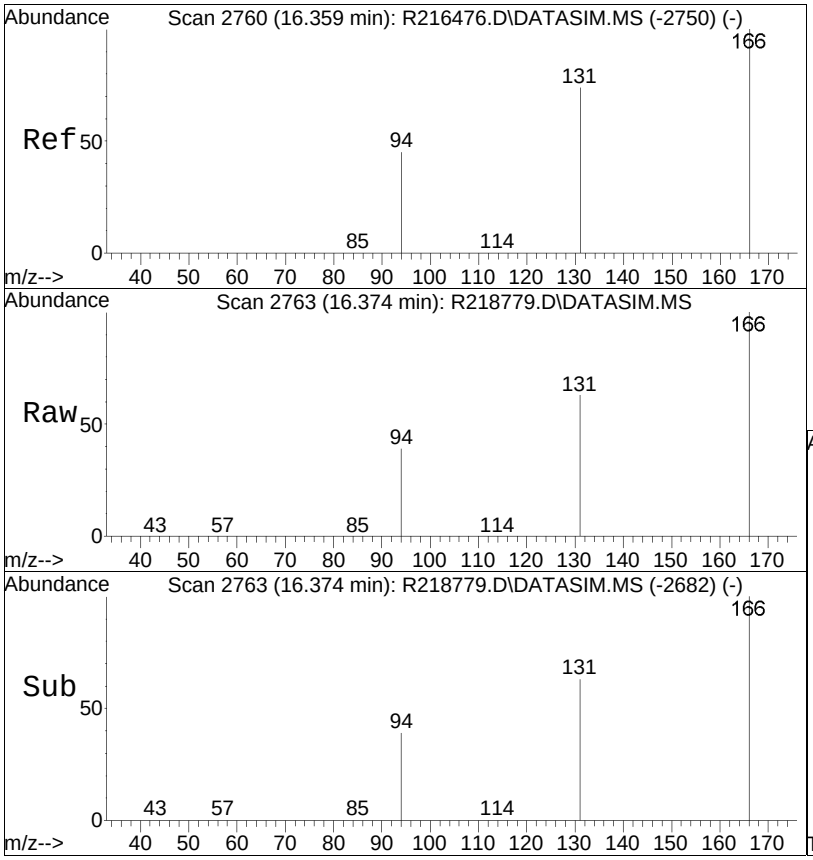


#30
trichloroethene
Concen: 0.01 ppbV
RT: 13.344 min Scan# 2130
Delta R.T. -0.000 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion:130 Resp: 302

Ion	Ratio	Lower	Upper
130	100		
132	96.7	77.4	116.2
97	67.5	50.0	75.0

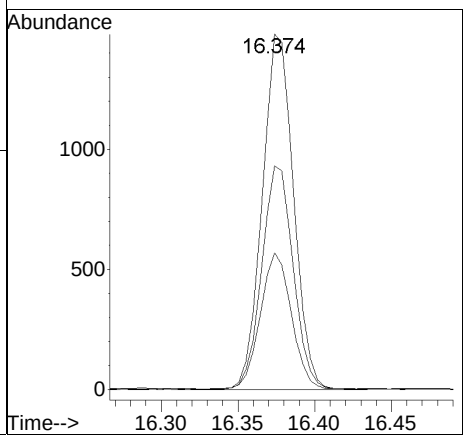




#41
tetrachloroethene
Concen: 0.08 ppbV
RT: 16.374 min Scan# 2763
Delta R.T. -0.004 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion:166 Resp: 2100

Ion	Ratio	Lower	Upper
166	100		
131	63.3	58.9	88.3
94	38.3	35.0	52.6



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218781.D
Acq On : 6 Jan 2012 1:39
Operator : AIRPIANO2:MB
Sample : L1200006-02,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 06 09:14:43 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

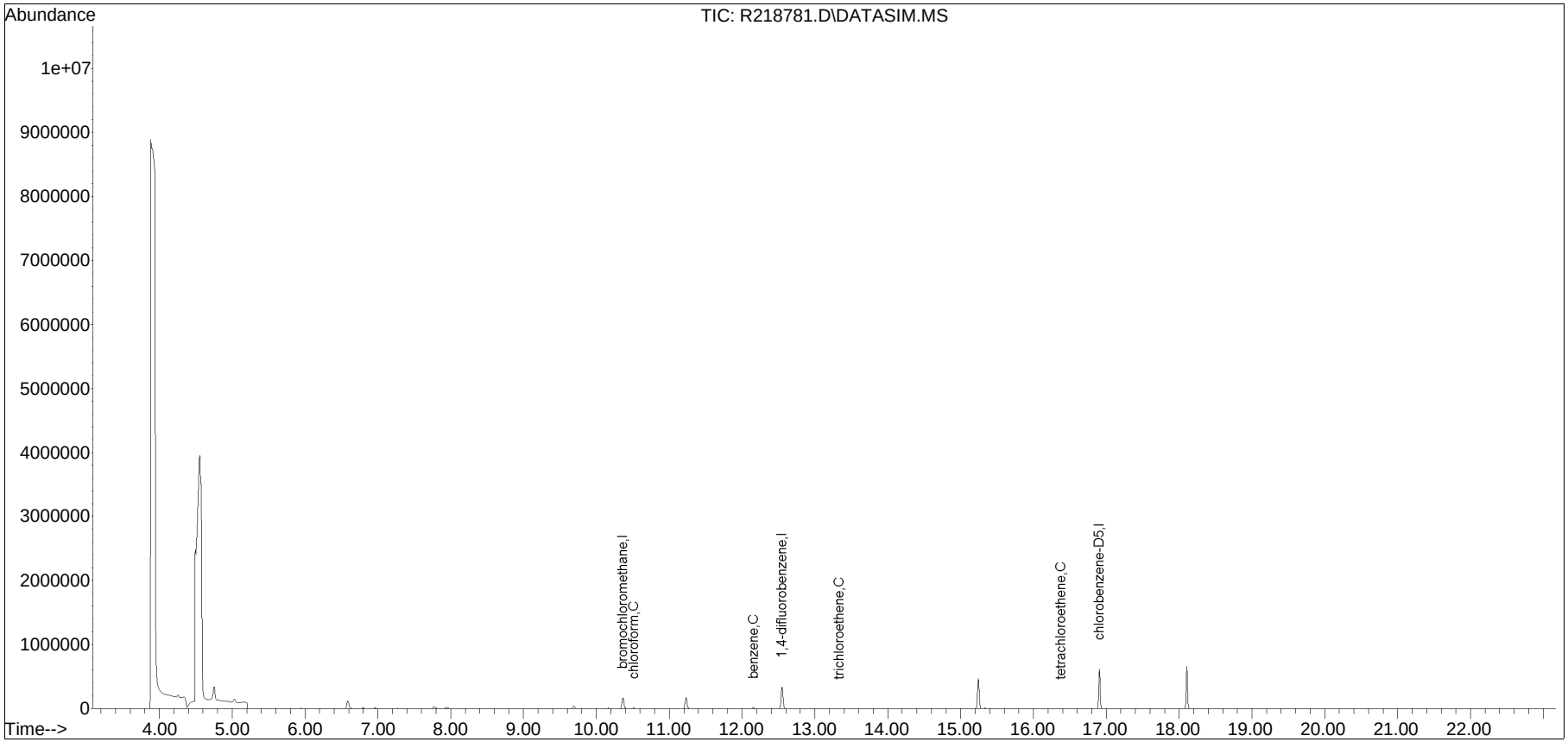
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.362	49	166960	10.000	ppbV	# 0.00
Standard Area = 150860			Recovery = 110.67%			
23) 1,4-difluorobenzene	12.551	114	520432	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 108.17%			
36) chlorobenzene-D5	16.907	54	91891	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 102.53%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	10.515	83	7364	0.260	ppbV	98
26) benzene	12.156	78	12204	0.343	ppbV	98
30) trichloroethene	13.335	130	283	0.014	ppbV	98
41) tetrachloroethene	16.376	166	1028	0.040	ppbV	90

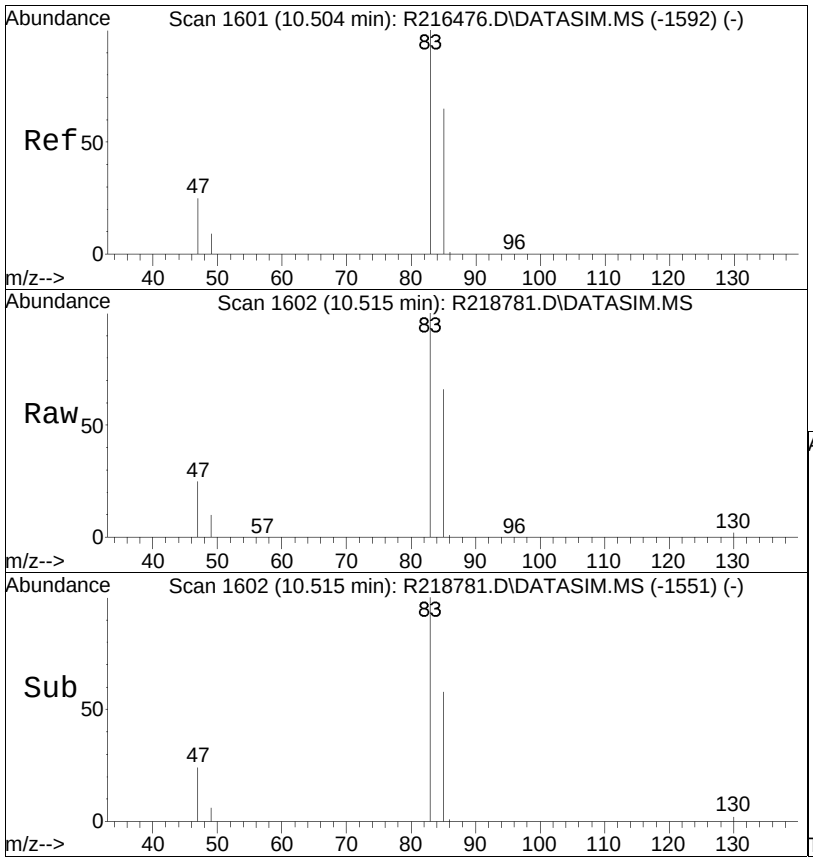
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218781.D
Acq On : 6 Jan 2012 1:39
Operator : AIRPIANO2:MB
Sample : L1200006-02,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 06 09:14:43 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

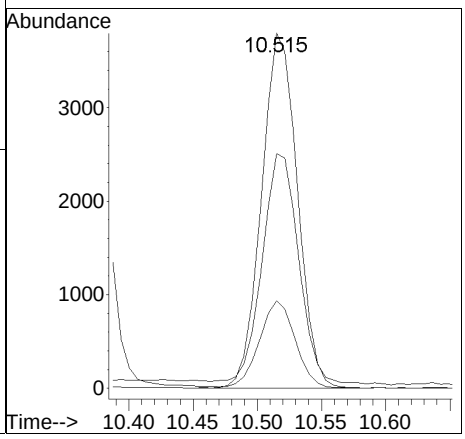


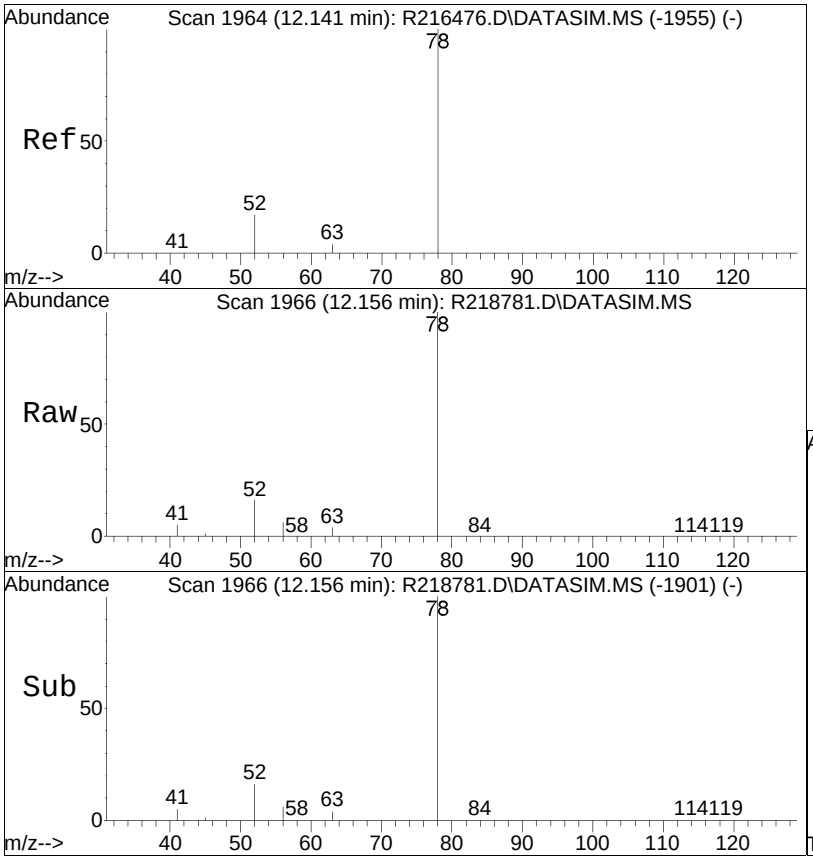


#21
chloroform
Concen: 0.26 ppbV
RT: 10.515 min Scan# 1602
Delta R.T. -0.006 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion: 83 Resp: 7364

Ion	Ratio	Lower	Upper
83	100		
85	67.4	52.4	78.6
47	24.5	19.9	29.9

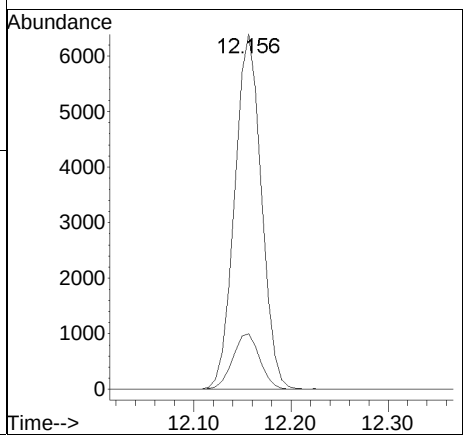


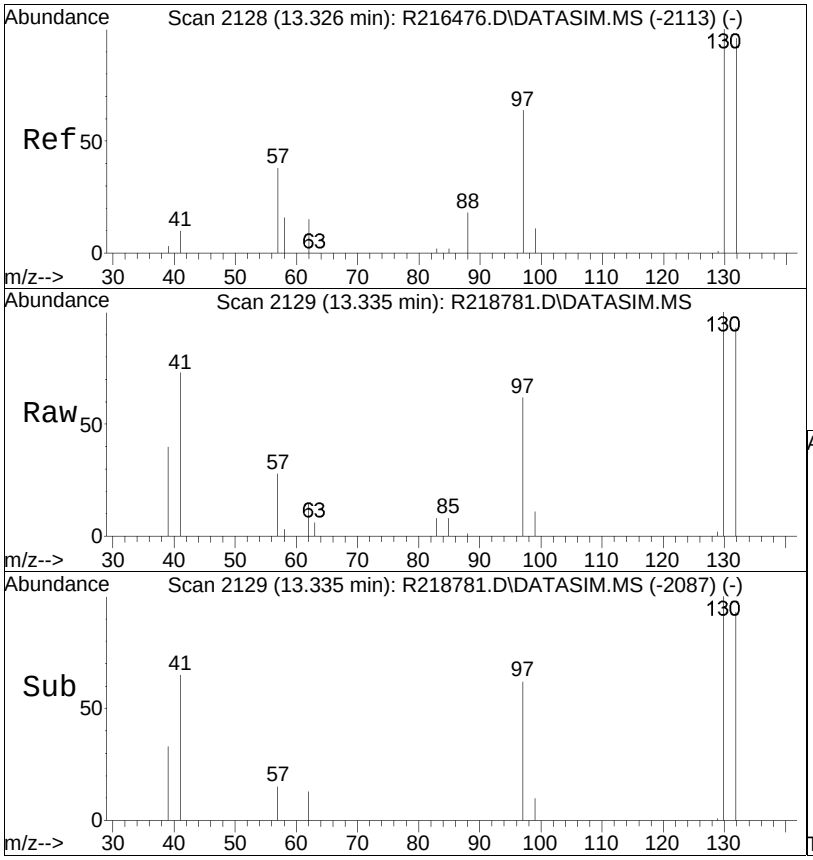


#26
benzene
Concen: 0.34 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. 0.000 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion: 78 Resp: 12204

Ion	Ratio	Lower	Upper
78	100		
52	15.9	13.3	19.9

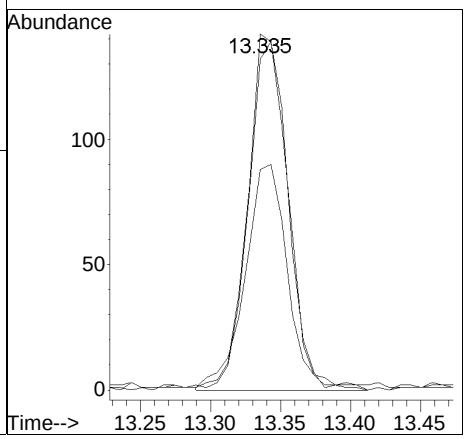


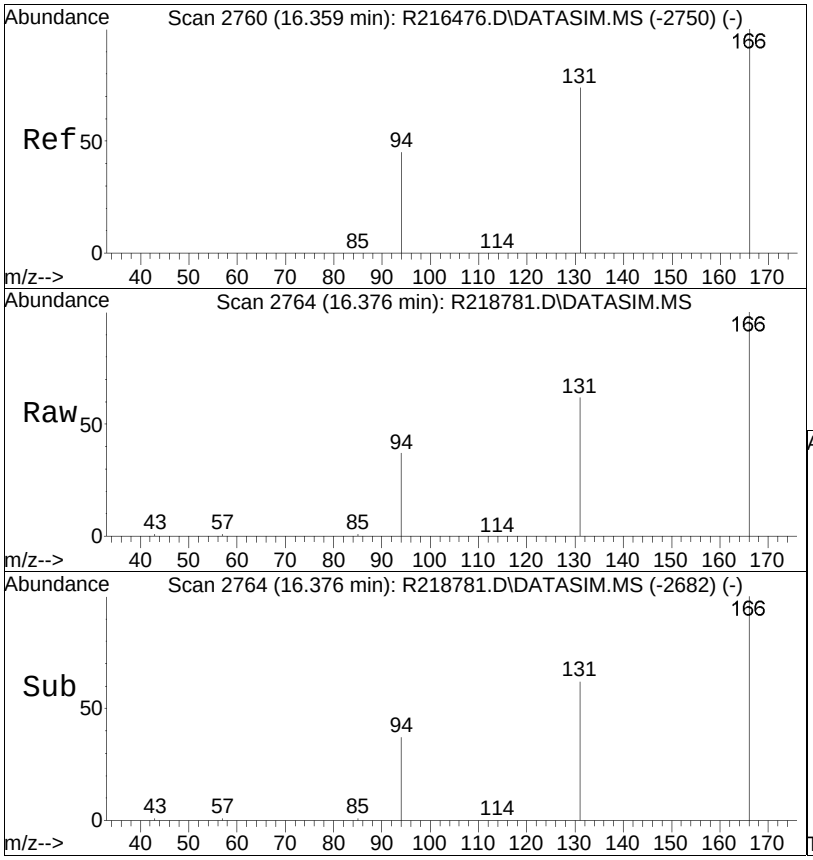


#30
trichloroethene
Concen: 0.01 ppbV
RT: 13.335 min Scan# 2129
Delta R.T. -0.008 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion:130 Resp: 283

Ion	Ratio	Lower	Upper
130	100		
132	95.1	77.4	116.2
97	65.0	50.0	75.0

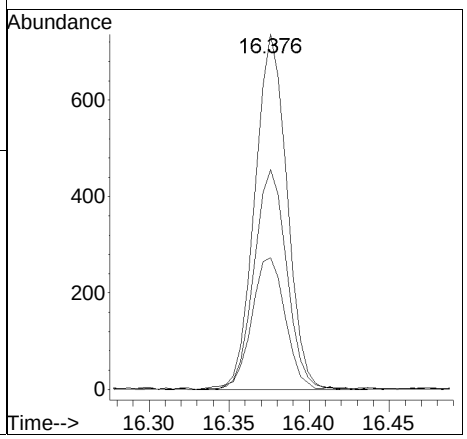




#41
tetrachloroethene
Concen: 0.04 ppbV
RT: 16.376 min Scan# 2764
Delta R.T. -0.002 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion:166 Resp: 1028

Ion	Ratio	Lower	Upper
166	100		
131	63.3	58.9	88.3
94	38.9	35.0	52.6



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218782.D
Acq On : 6 Jan 2012 2:15
Operator : AIRPIANO2:MB
Sample : L1200006-03,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 06 09:14:57 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

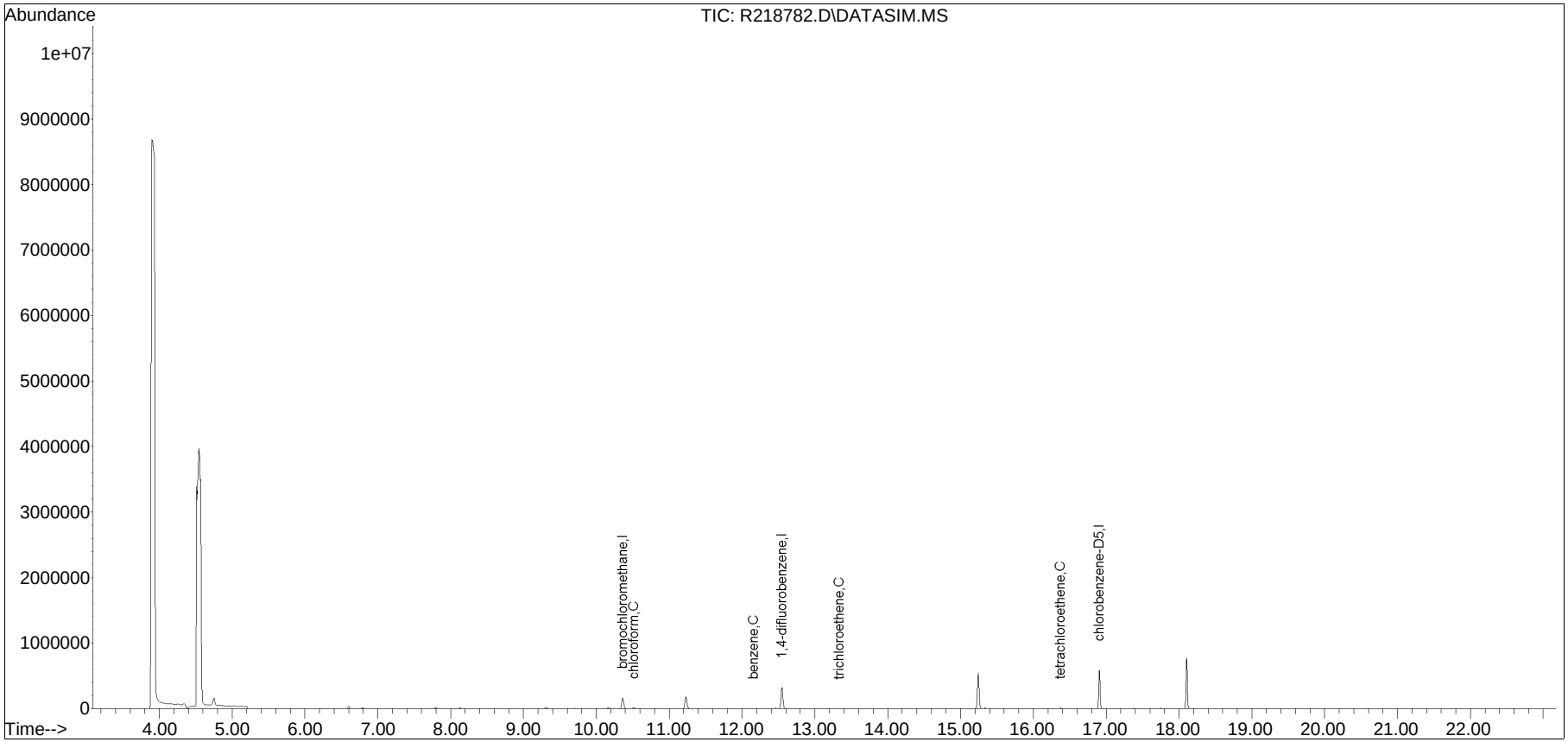
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.362	49	160671	10.000	ppbV	# 0.00
Standard Area = 150860			Recovery = 106.50%			
23) 1,4-difluorobenzene	12.551	114	497007	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 103.30%			
36) chlorobenzene-D5	16.904	54	90661	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 101.16%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	10.515	83	12831	0.471	ppbV	100
26) benzene	12.156	78	4776	0.141	ppbV	98
30) trichloroethene	13.336	130	352	0.018	ppbV #	92
41) tetrachloroethene	16.374	166	6276	0.248	ppbV	89

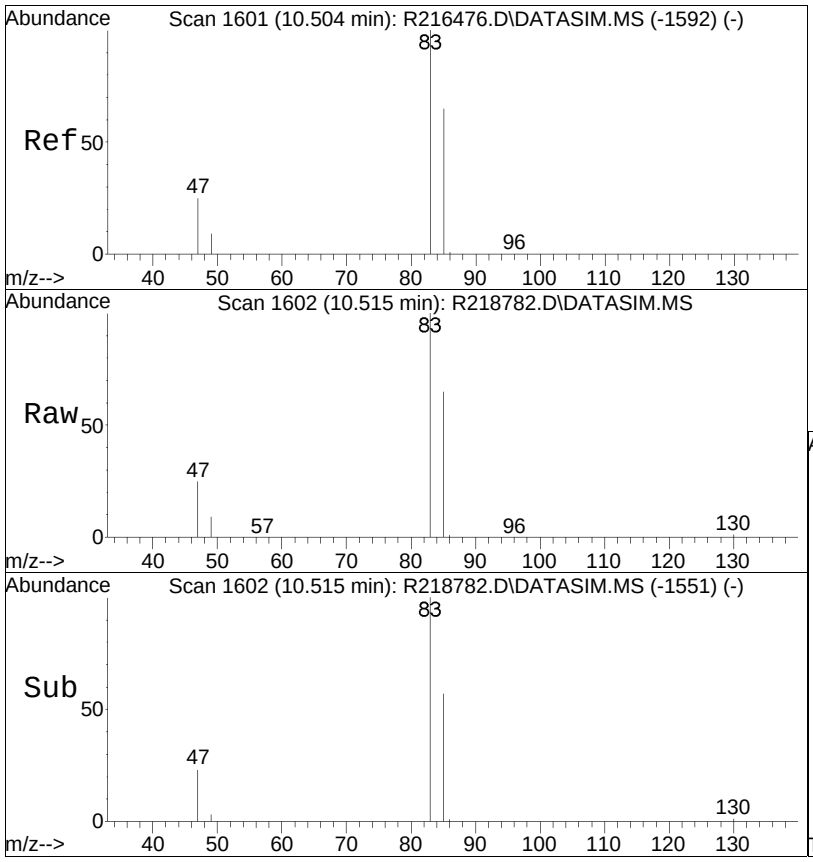
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218782.D
Acq On : 6 Jan 2012 2:15
Operator : AIRPIANO2:MB
Sample : L1200006-03,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 06 09:14:57 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

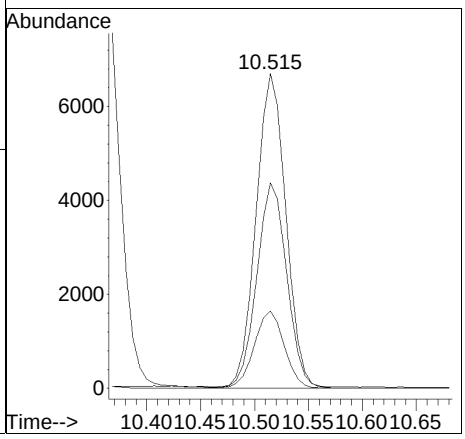


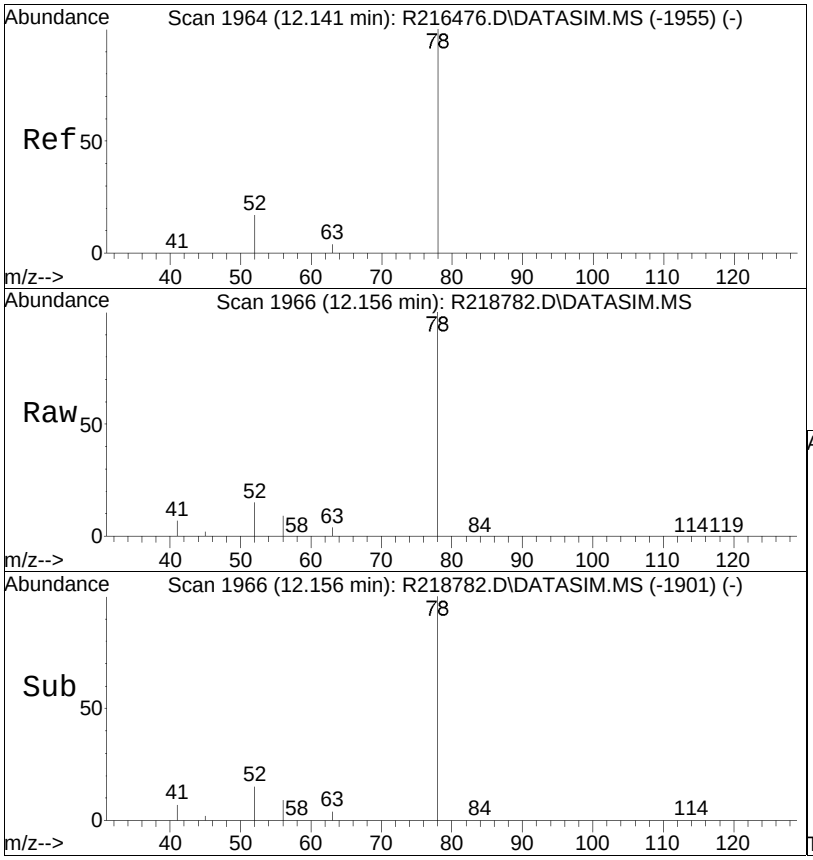


#21
chloroform
Concen: 0.47 ppbV
RT: 10.515 min Scan# 1602
Delta R.T. -0.006 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion: 83 Resp: 12831

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.4	78.6
47	24.8	19.9	29.9

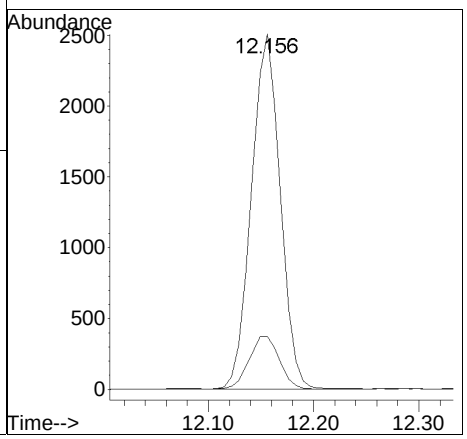


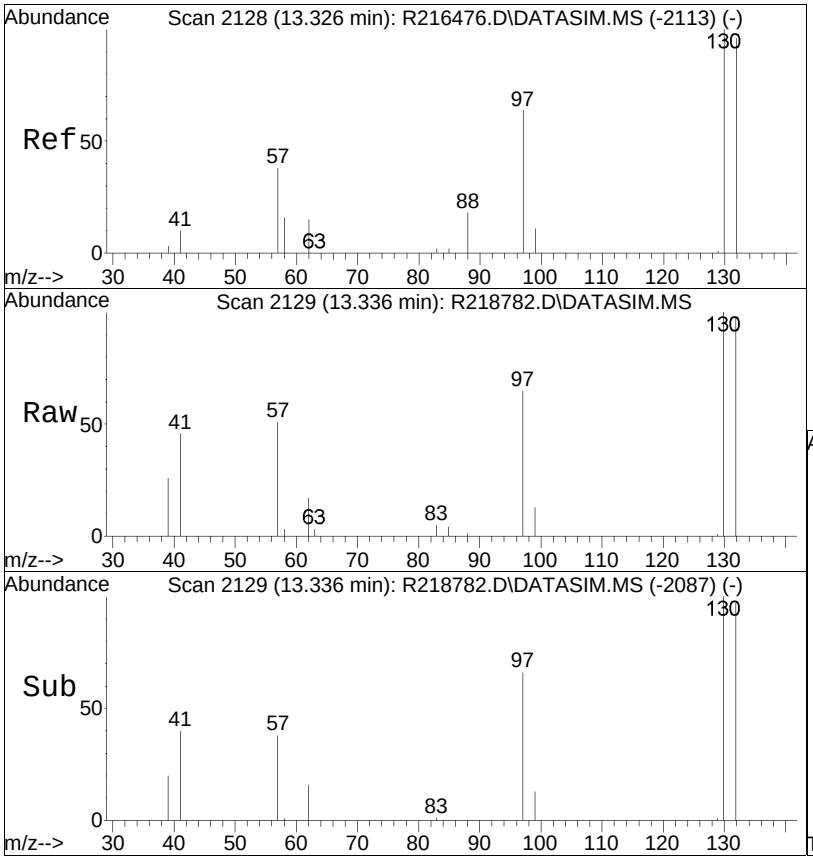


#26
benzene
Concen: 0.14 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. 0.000 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion: 78 Resp: 4776

Ion	Ratio	Lower	Upper
78	100		
52	15.6	13.3	19.9

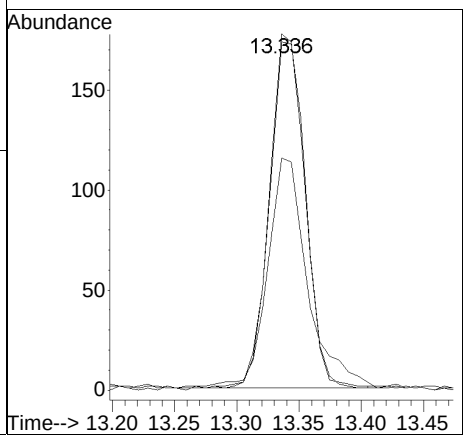


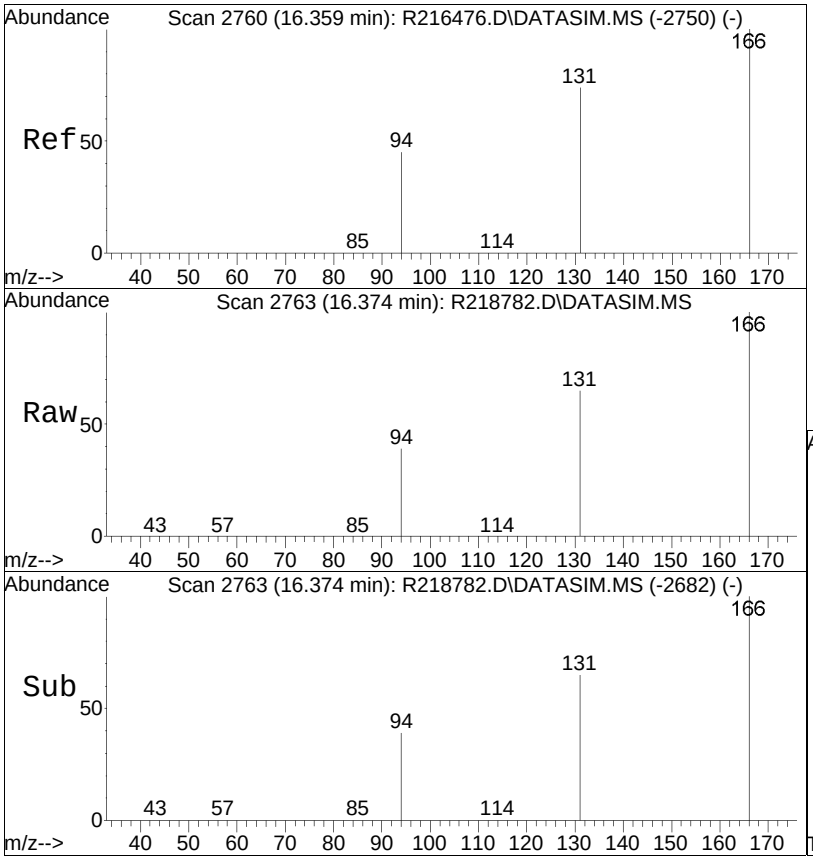


#30
trichloroethene
Concen: 0.02 ppbV
RT: 13.336 min Scan# 2129
Delta R.T. -0.008 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion:130 Resp: 352

Ion	Ratio	Lower	Upper
130	100		
132	98.9	77.4	116.2
97	76.1	50.0	75.0#

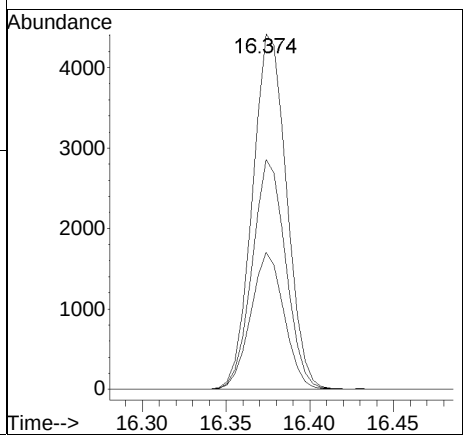




#41
tetrachloroethene
Concen: 0.25 ppbV
RT: 16.374 min Scan# 2763
Delta R.T. -0.004 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion:166 Resp: 6276

Ion	Ratio	Lower	Upper
166	100		
131	63.4	58.9	88.3
94	37.6	35.0	52.6



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218783.D
Acq On : 6 Jan 2012 2:51
Operator : AIRPIANO2:MB
Sample : L1200006-04,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 06 09:15:10 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

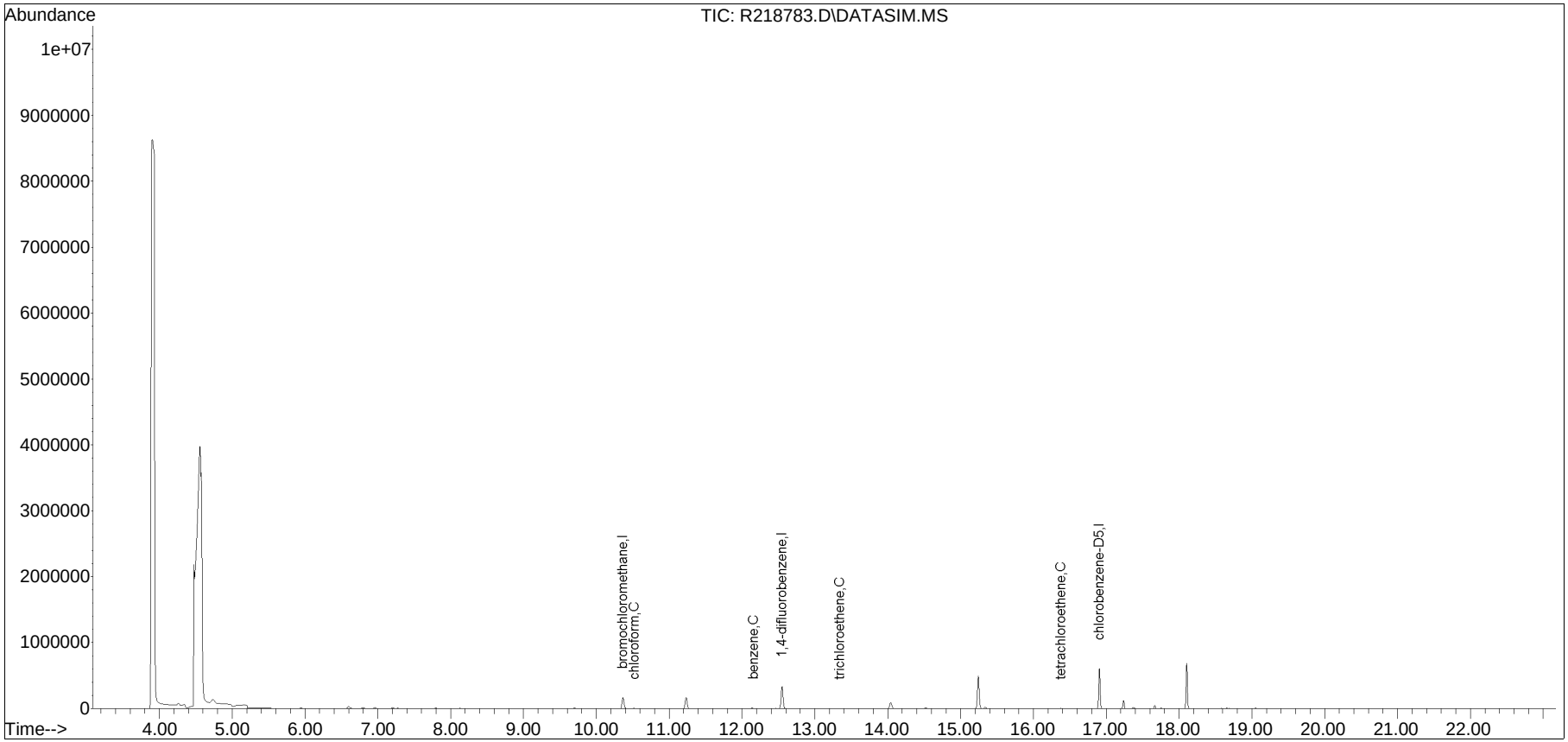
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	164555	10.000	ppbV	# 0.00
Standard Area = 150860			Recovery = 109.08%			
23) 1,4-difluorobenzene	12.550	114	516824	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 107.42%			
36) chlorobenzene-D5	16.904	54	93660	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 104.50%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	10.521	83	4488	0.161	ppbV	95
26) benzene	12.156	78	3261	0.092	ppbV	99
30) trichloroethene	13.343	130	1019	0.050	ppbV	97
41) tetrachloroethene	16.378	166	3175	0.122	ppbV	89

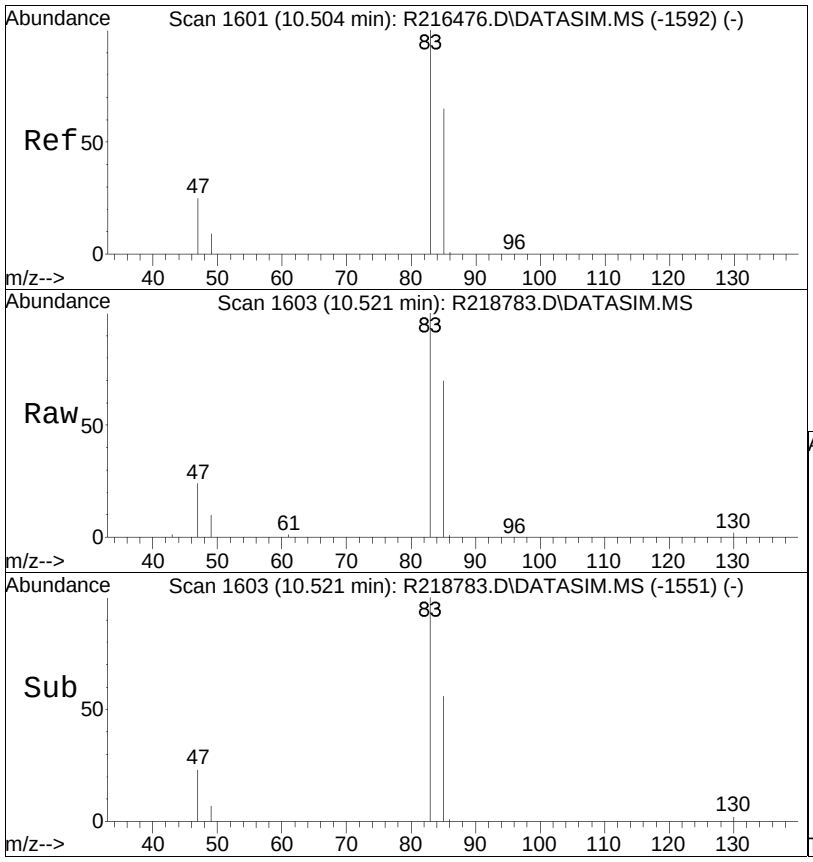
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218783.D
Acq On : 6 Jan 2012 2:51
Operator : AIRPIANO2:MB
Sample : L1200006-04,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 06 09:15:10 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

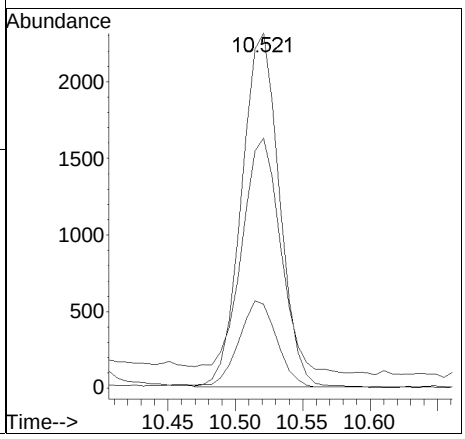


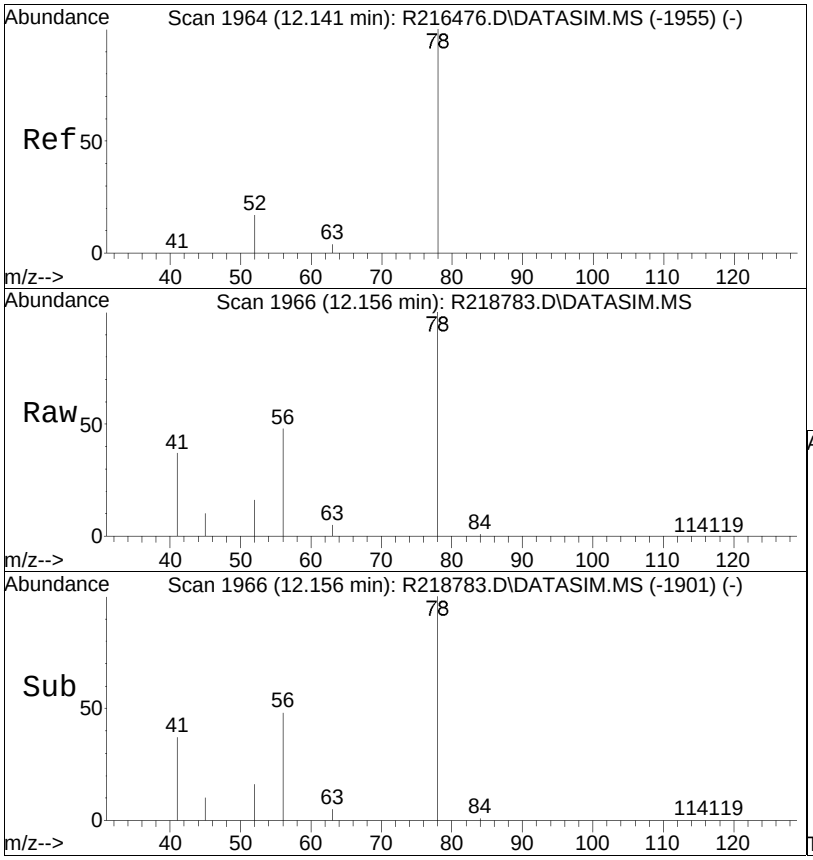


#21
chloroform
Concen: 0.16 ppbV
RT: 10.521 min Scan# 1603
Delta R.T. -0.000 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 83 Resp: 4488

Ion	Ratio	Lower	Upper
83	100		
85	70.7	52.4	78.6
47	24.6	19.9	29.9

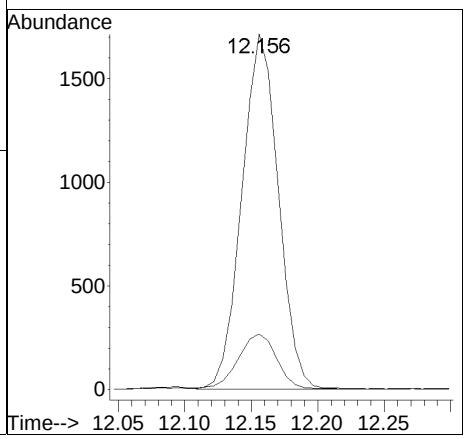


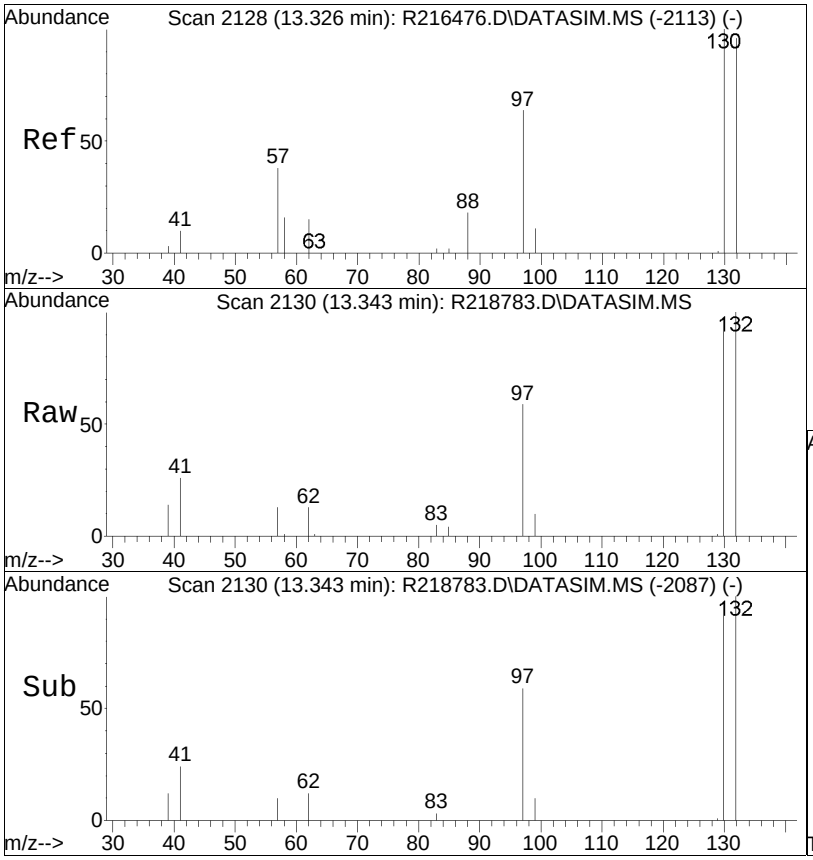


#26
benzene
Concen: 0.09 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 78 Resp: 3261

Ion	Ratio	Lower	Upper
78	100		
52	16.9	13.3	19.9

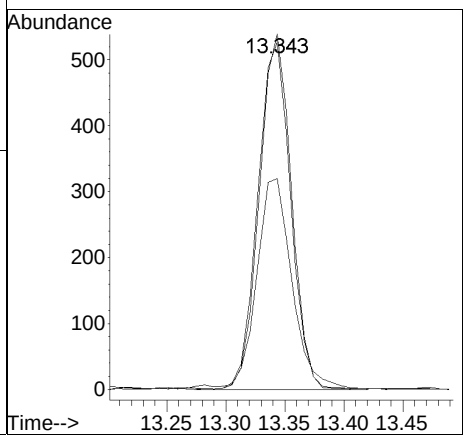


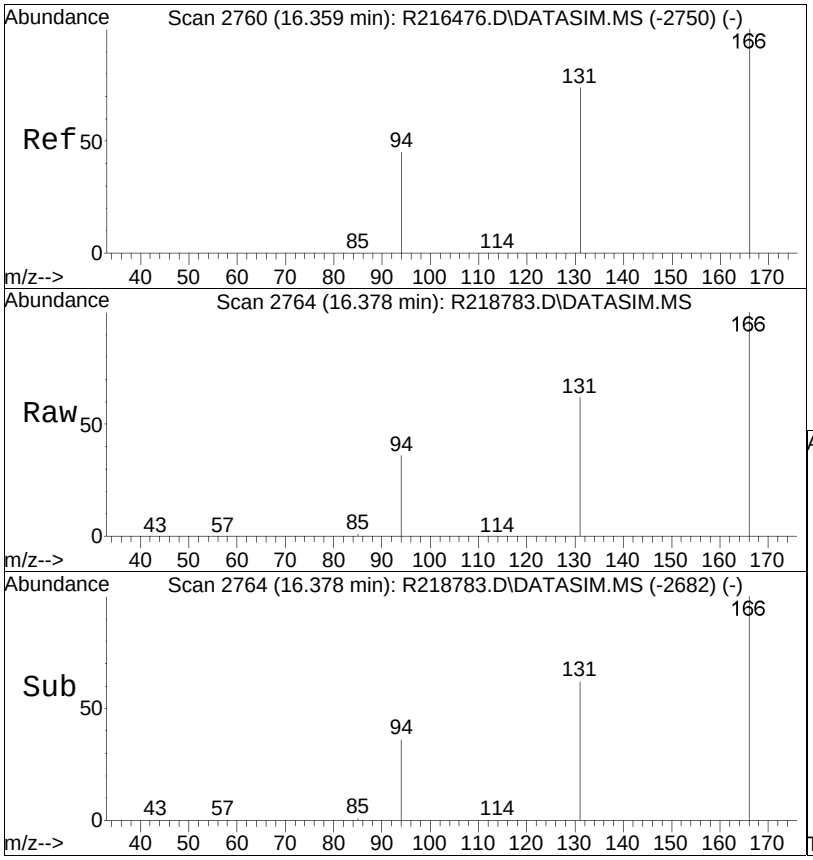


#30
trichloroethene
Concen: 0.05 ppbV
RT: 13.343 min Scan# 2130
Delta R.T. -0.000 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion:130 Resp: 1019

Ion	Ratio	Lower	Upper
130	100		
132	99.4	77.4	116.2
97	64.8	50.0	75.0

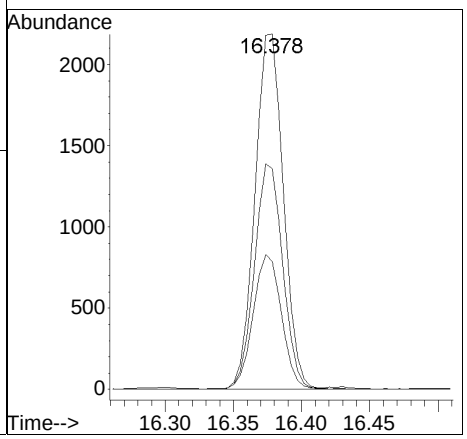




#41
tetrachloroethene
Concen: 0.12 ppbV
RT: 16.378 min Scan# 2764
Delta R.T. 0.000 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion:166 Resp: 3175

Ion	Ratio	Lower	Upper
166	100		
131	63.3	58.9	88.3
94	37.7	35.0	52.6



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218784.D
Acq On : 6 Jan 2012 3:26
Operator : AIRPIANO2:MB
Sample : L1200006-05,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 06 09:15:23 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

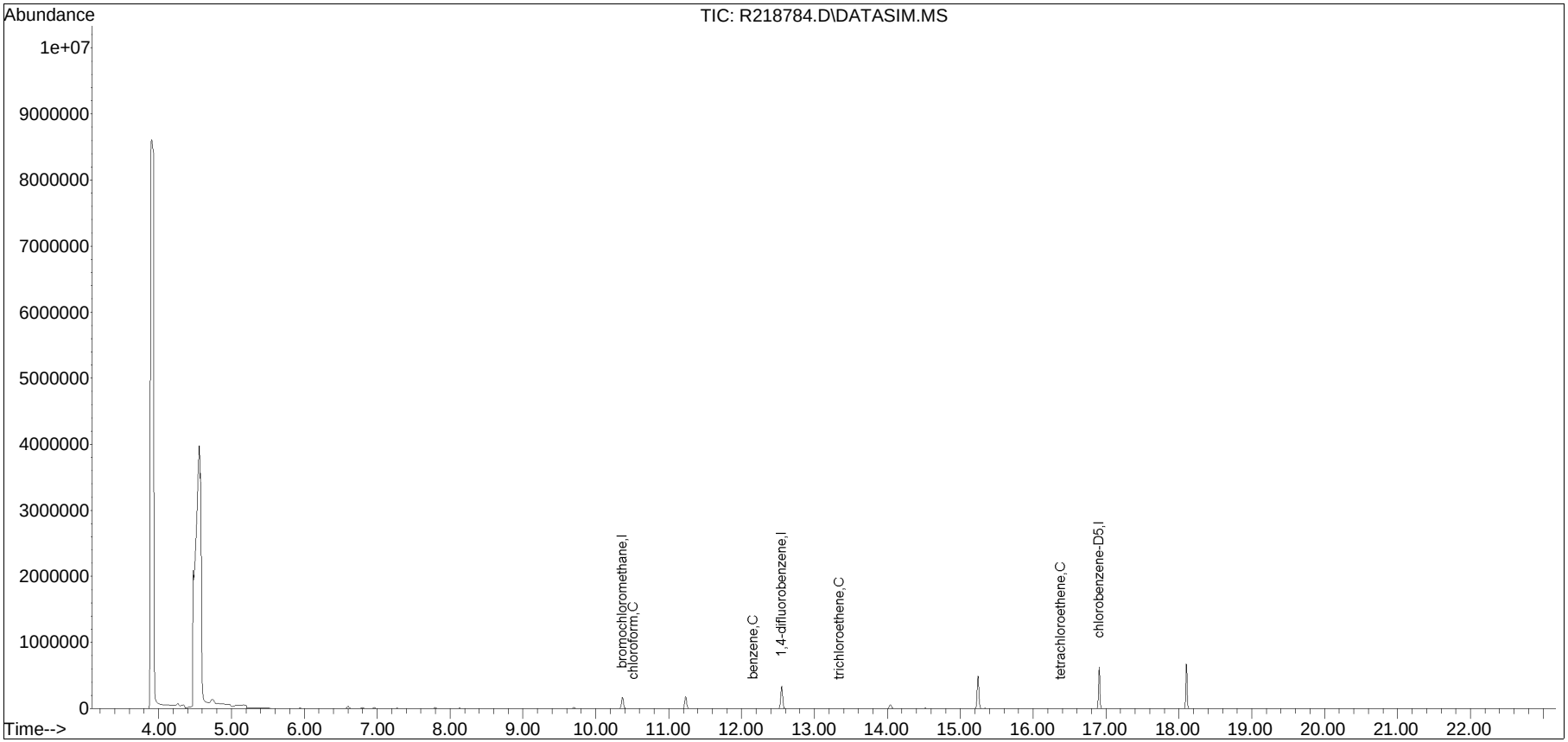
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.362	49	167255	10.000	ppbV	# 0.00
Standard Area = 150860			Recovery = 110.87%			
23) 1,4-difluorobenzene	12.551	114	519102	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 107.89%			
36) chlorobenzene-D5	16.907	54	92959	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 103.72%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	10.515	83	3658	0.129	ppbV	97
26) benzene	12.156	78	4310	0.122	ppbV	98
30) trichloroethene	13.343	130	676	0.033	ppbV	96
41) tetrachloroethene	16.376	166	942	0.036	ppbV	89

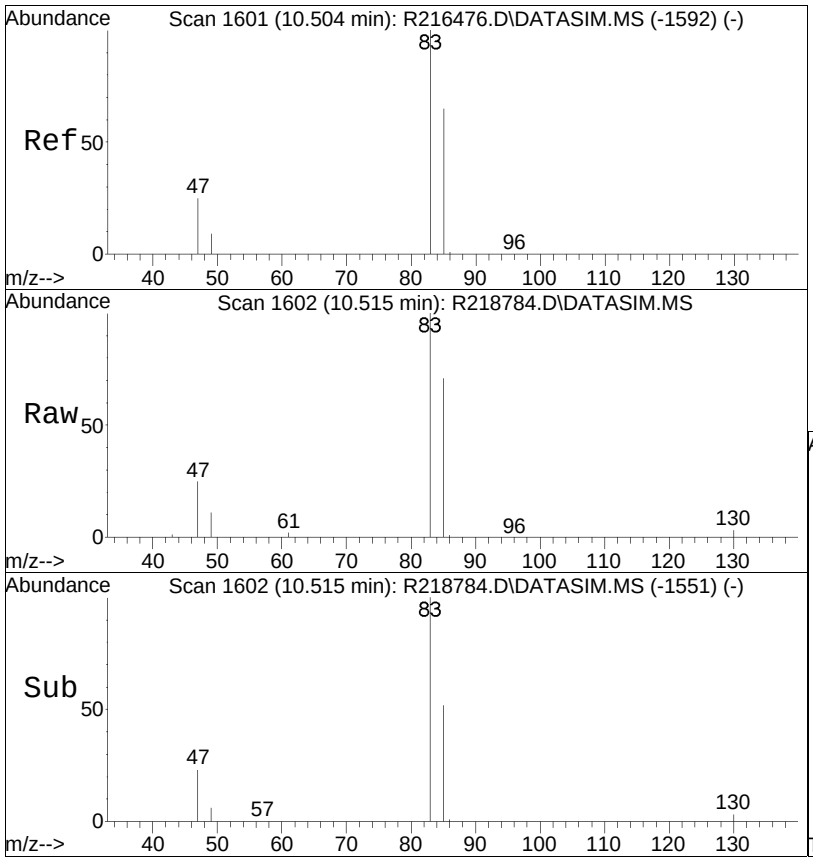
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218784.D
Acq On : 6 Jan 2012 3:26
Operator : AIRPIANO2:MB
Sample : L1200006-05,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 06 09:15:23 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

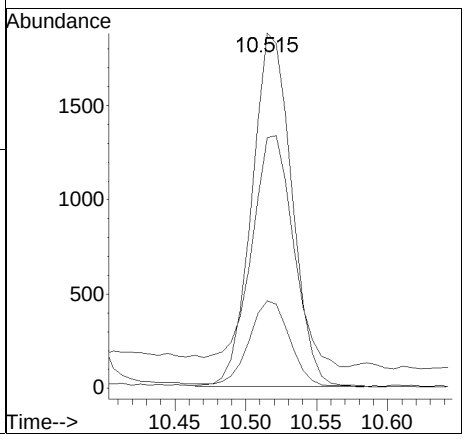


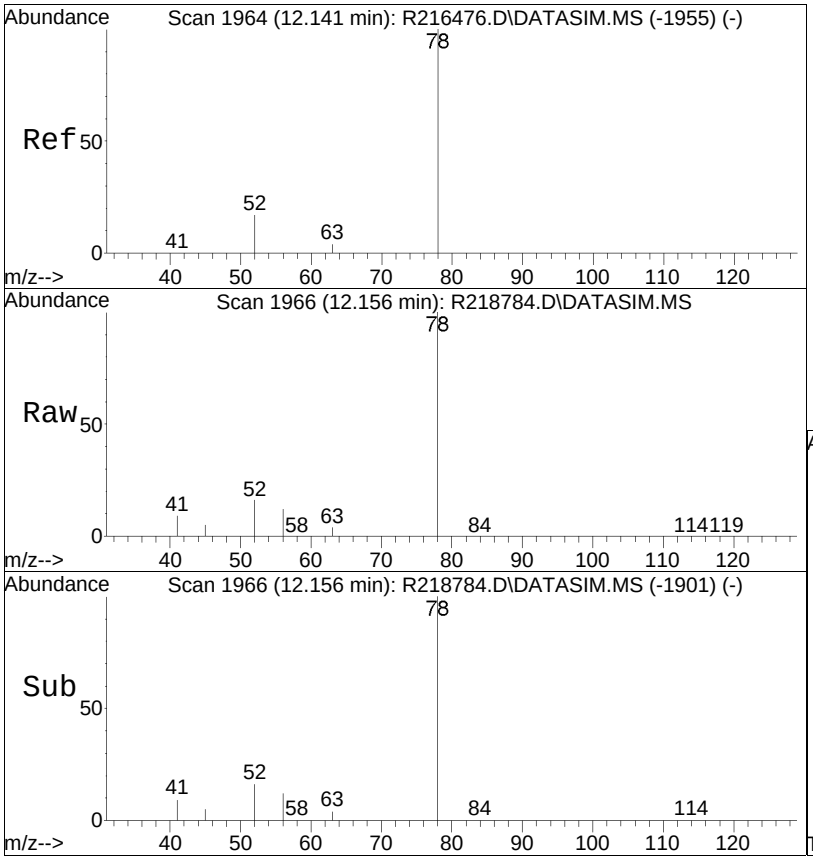


#21
chloroform
Concen: 0.13 ppbV
RT: 10.515 min Scan# 1602
Delta R.T. -0.006 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion: 83 Resp: 3658

Ion	Ratio	Lower	Upper
83	100		
85	68.3	52.4	78.6
47	25.3	19.9	29.9

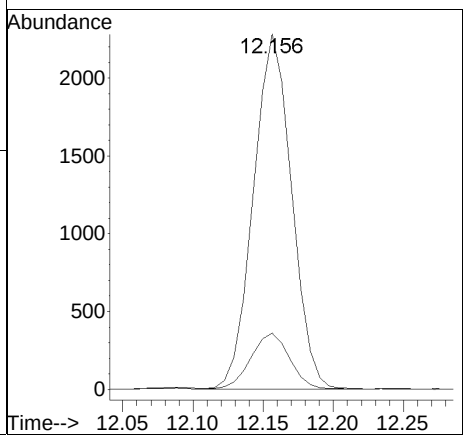


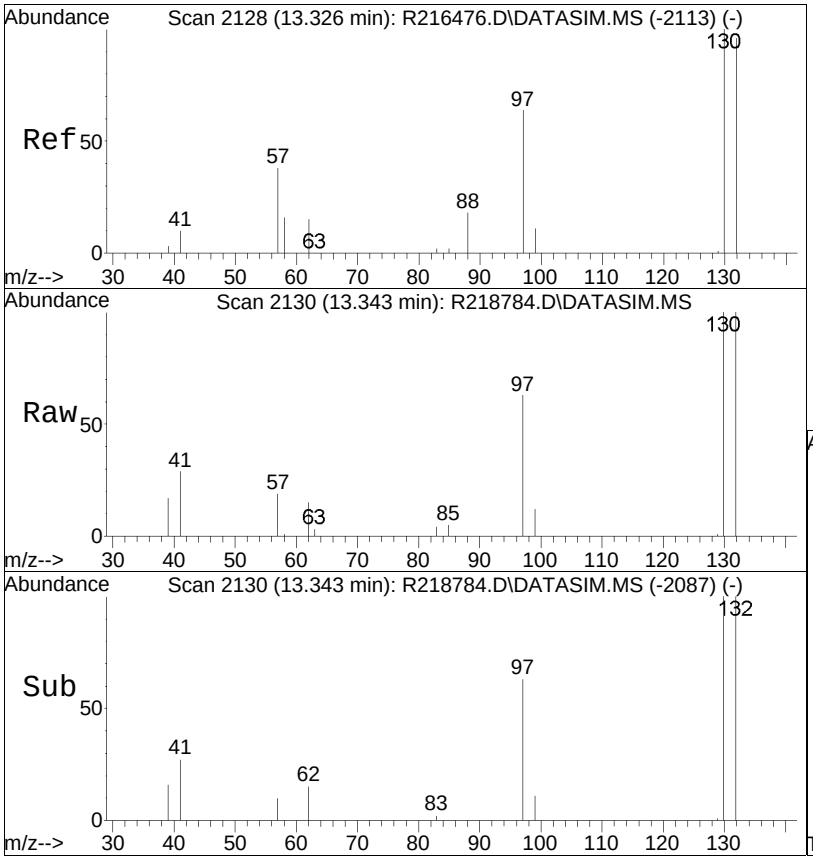


#26
benzene
Concen: 0.12 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. 0.000 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion: 78 Resp: 4310

Ion	Ratio	Lower	Upper
78	100		
52	15.9	13.3	19.9

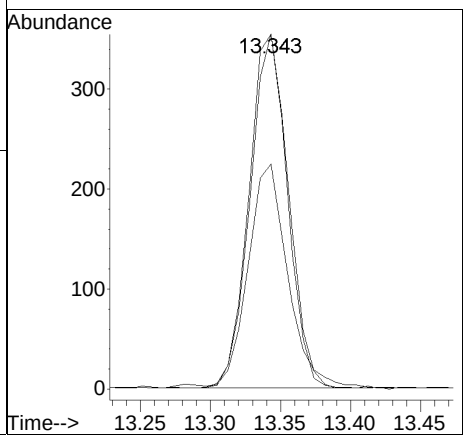


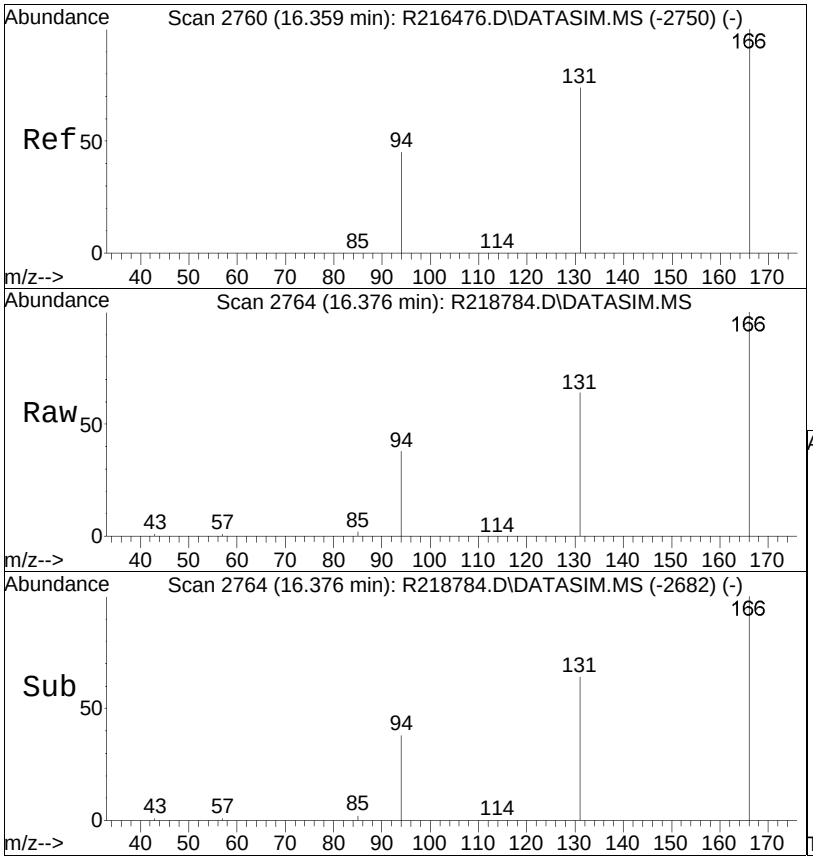


#30
trichloroethene
Concen: 0.03 ppbV
RT: 13.343 min Scan# 2130
Delta R.T. -0.000 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion:130 Resp: 676

Ion	Ratio	Lower	Upper
130	100		
132	99.4	77.4	116.2
97	66.7	50.0	75.0

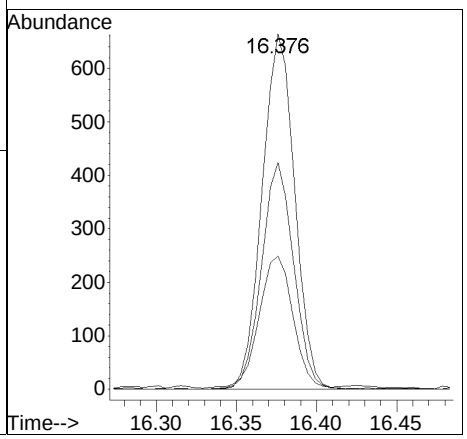




#41
tetrachloroethene
Concen: 0.04 ppbV
RT: 16.376 min Scan# 2764
Delta R.T. -0.002 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion:166 Resp: 942

Ion	Ratio	Lower	Upper
166	100		
131	63.1	58.9	88.3
94	38.5	35.0	52.6



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218785.D
Acq On : 6 Jan 2012 4:02
Operator : AIRPIANO2:MB
Sample : L1200006-06,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 06 09:15:37 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.355	49	159217	10.000	ppbV	#-0.01
Standard Area = 150860			Recovery = 105.54%			
23) 1,4-difluorobenzene	12.550	114	502758	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 104.50%			
36) chlorobenzene-D5	16.904	54	88459	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 98.70%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	10.514	83	369	0.014	ppbV #	86
26) benzene	12.156	78	4236	0.123	ppbV	98
30) trichloroethene	13.343		0	N.D.		
41) tetrachloroethene	16.378		0	N.D.		

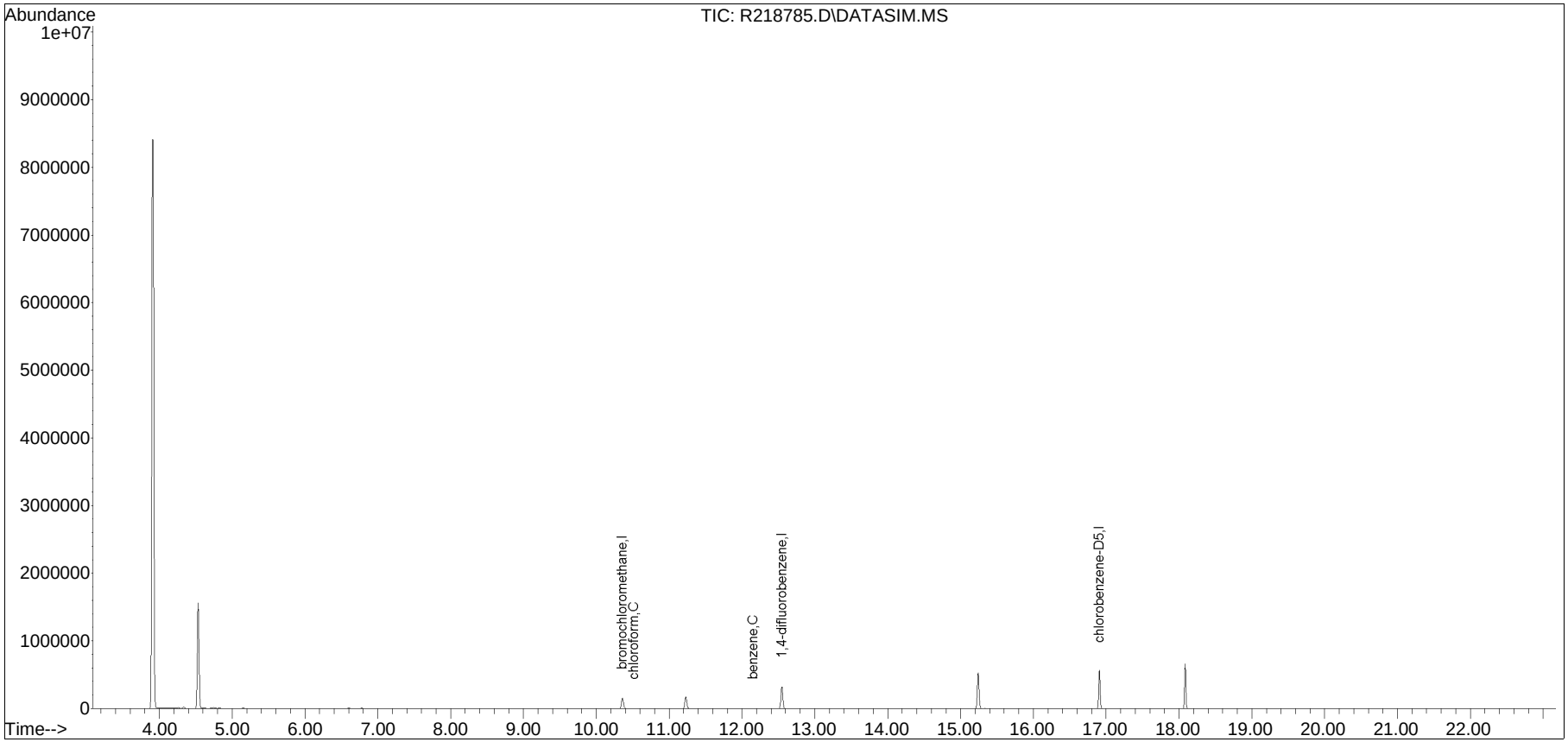
(#) = qualifier out of range (m) = manual integration (+) = signals summed

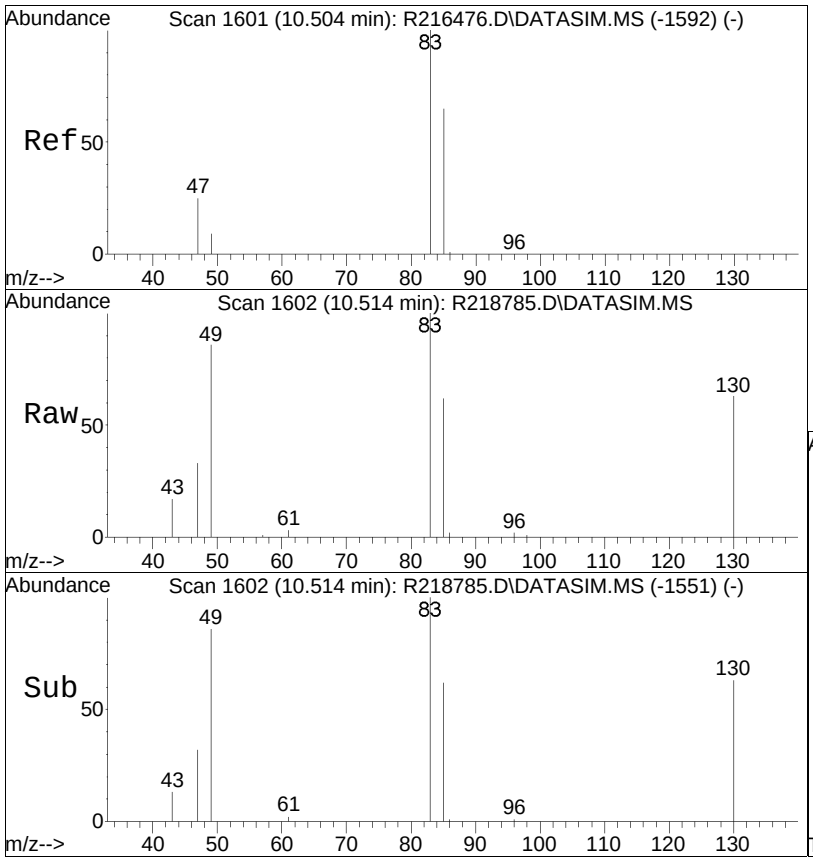
TSIM111221.M Fri Jan 06 13:32:36 2012 Page: 1

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218785.D
Acq On : 6 Jan 2012 4:02
Operator : AIRPIANO2:MB
Sample : L1200006-06,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 06 09:15:37 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

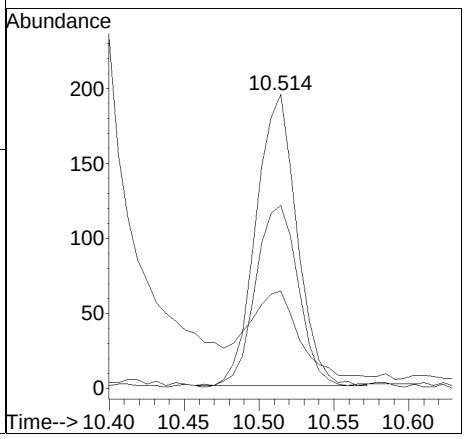


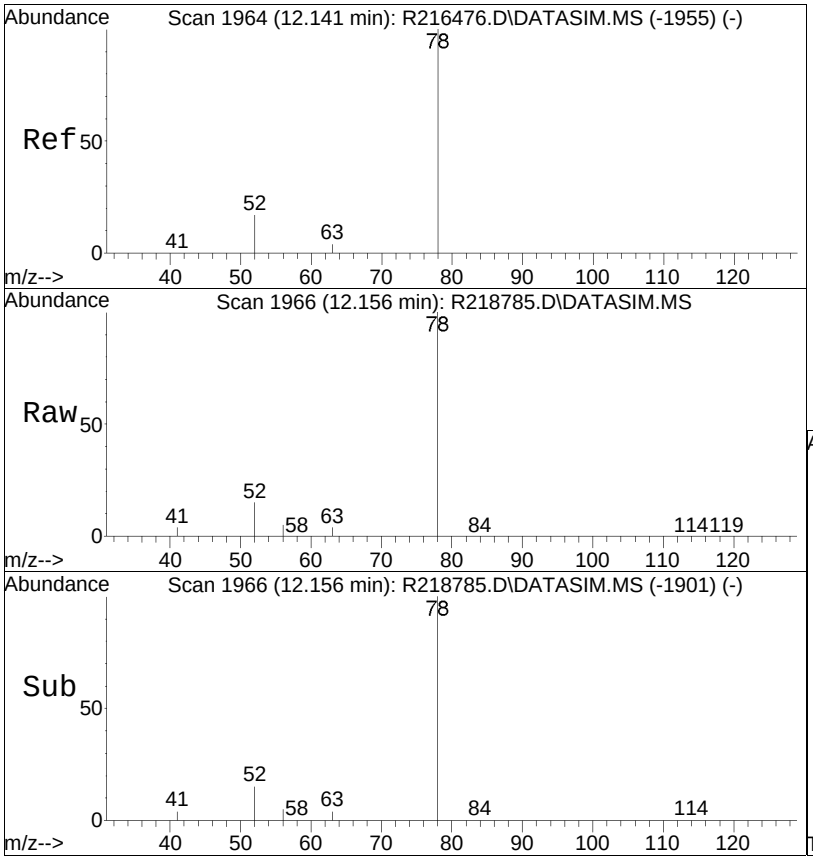


#21
chloroform
Concen: 0.01 ppbV
RT: 10.514 min Scan# 1602
Delta R.T. -0.007 min
Lab File: R218785.D
Acq: 6 Jan 2012 4:02

Tgt Ion: 83 Resp: 369

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.4	78.6
47	0.0	19.9	29.9#

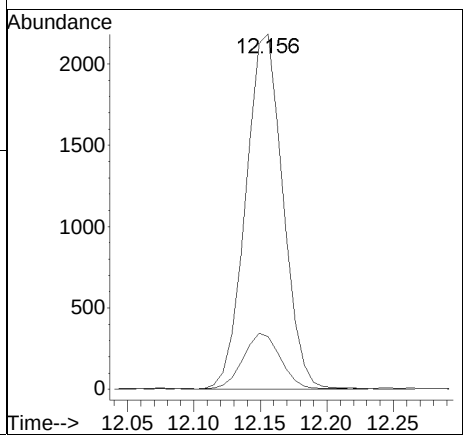




#26
benzene
Concen: 0.12 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218785.D
Acq: 6 Jan 2012 4:02

Tgt Ion: 78 Resp: 4236

Ion	Ratio	Lower	Upper
78	100		
52	15.8	13.3	19.9



Method Blank
Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218771.D
Acq On : 5 Jan 2012 19:40
Operator : AIRPIANO2:MB
Sample : WG511603-4,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 06 09:11:05 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

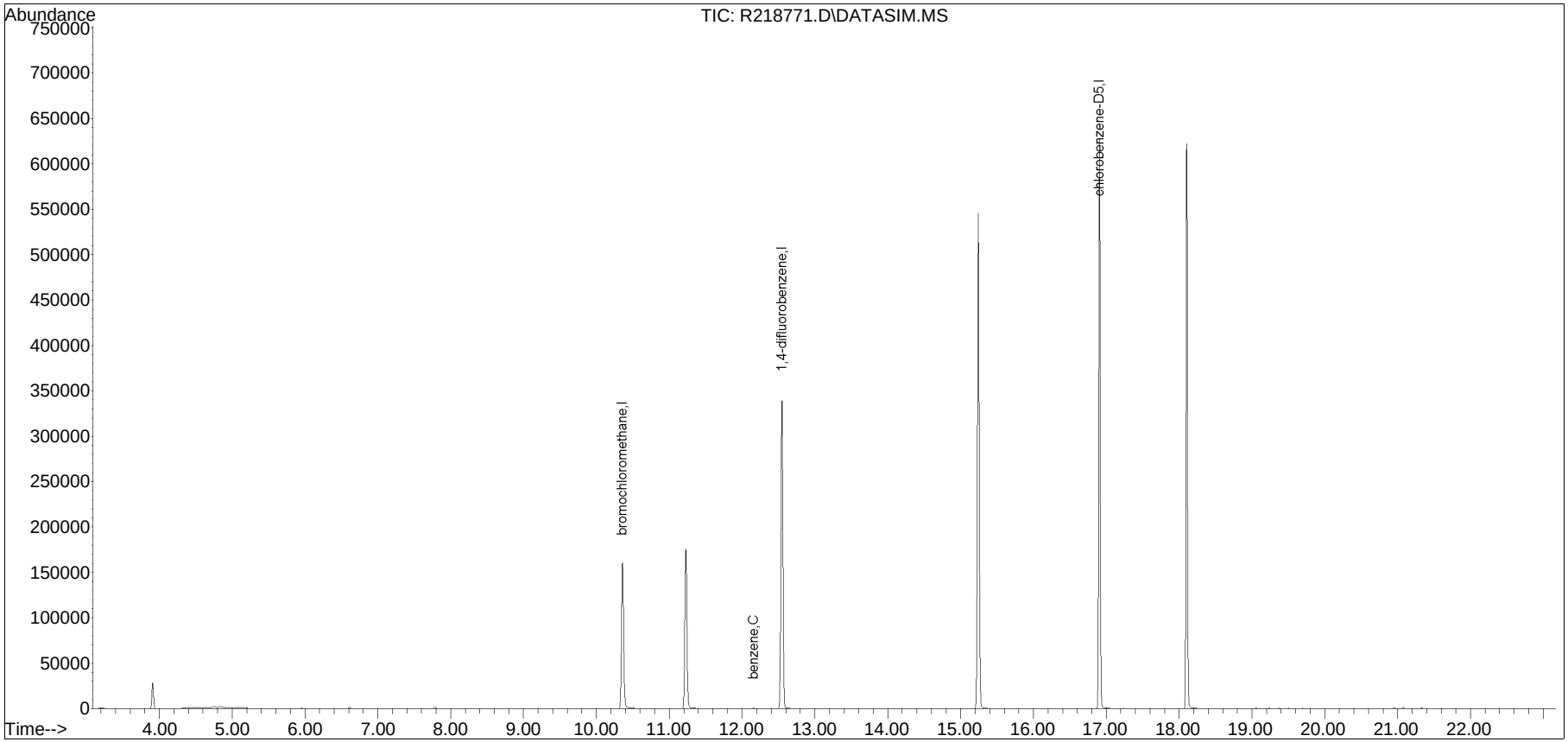
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.355	49	165082	10.000	ppbV	#-0.01
Standard Area = 150860			Recovery = 109.43%			
23) 1,4-difluorobenzene	12.551	114	534835	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 111.16%			
36) chlorobenzene-D5	16.907	54	93870	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 104.74%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	0.000		0	N.D.	d	
26) benzene	12.156	78	454	0.012	ppbV	99
30) trichloroethene	13.335		0	N.D.		
41) tetrachloroethene	16.376		0	N.D.		

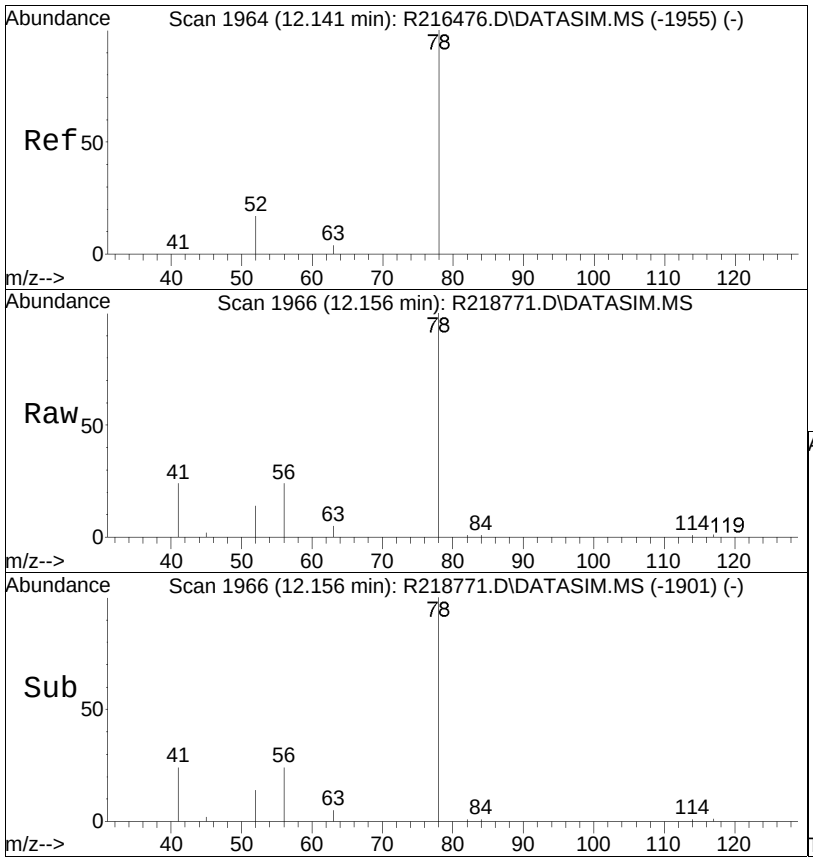
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218771.D
Acq On : 5 Jan 2012 19:40
Operator : AIRPIANO2:MB
Sample : WG511603-4,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 06 09:11:05 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

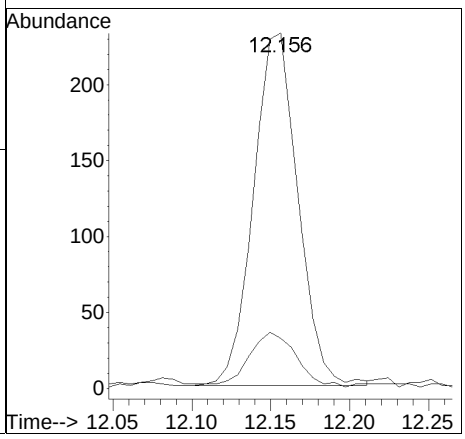




#26
benzene
Concen: 0.01 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. 0.000 min
Lab File: R218771.D
Acq: 5 Jan 2012 19:40

Tgt Ion: 78 Resp: 454

Ion	Ratio	Lower	Upper
78	100		
52	16.3	13.3	19.9

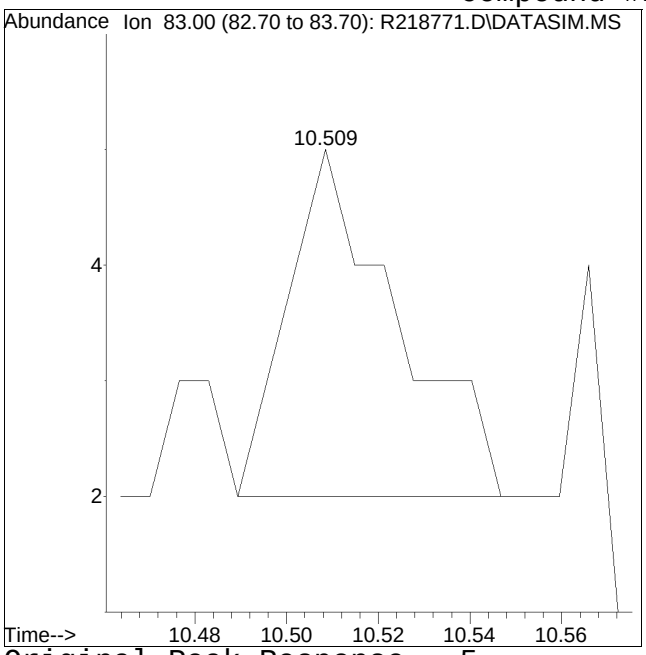


Manual Integration/Negative Proof Report

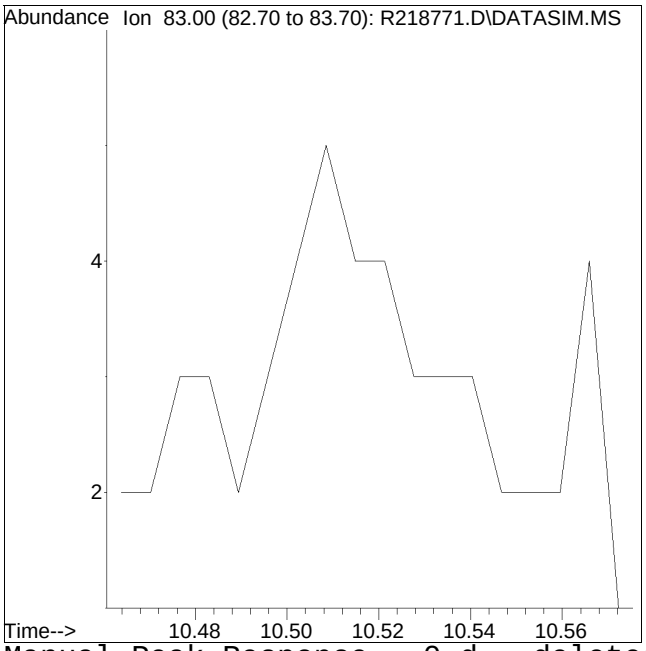
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218771.D
Date Inj'd : 1/5/2012 19:40
Sample : WG511603-4,3,250,250

Method : TSIM111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:11 am

Compound #21: chloroform



Original Peak Response = 5



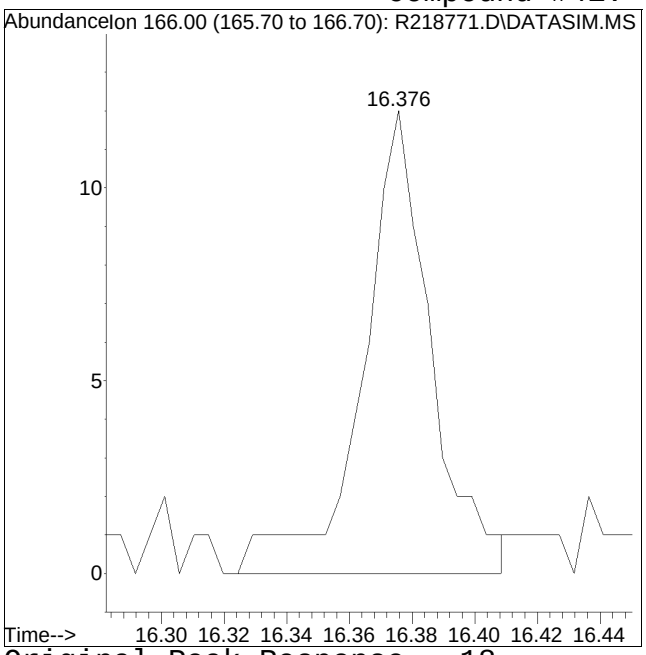
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

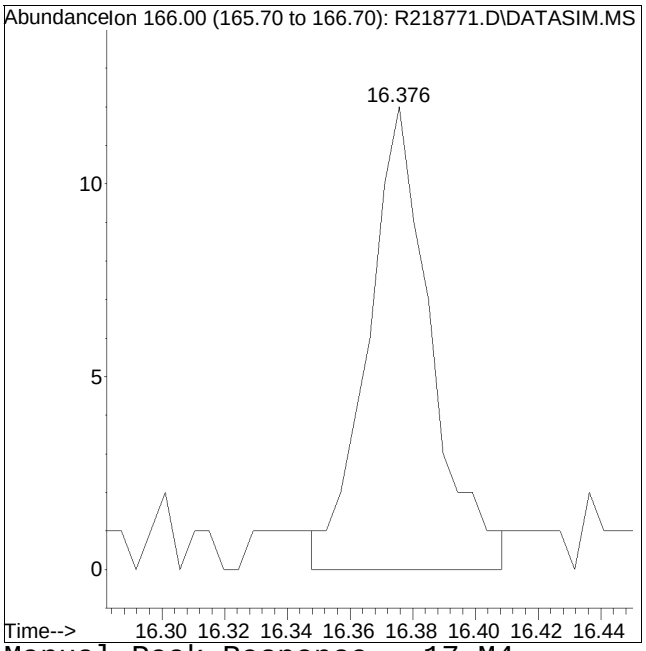
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218771.D
Date Inj'd : 1/5/2012 19:40
Sample : WG511603-4,3,250,250

Method : TSIM111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:11 am

Compound #41: tetrachloroethene



Original Peak Response = 18



Manual Peak Response = 17 M4

M4 = Poor automated baseline construction.

Batch Quality Control

LCS Raw Data

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218769.D
Acq On : 5 Jan 2012 18:04
Operator : AIRPIANO2:ry
Sample : WG511603-3,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 18:27:38 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	73	-0.01
21	C	chloroform	5.000	5.095	-1.9	74	0.00
23	I	1,4-difluorobenzene	10.000	10.000	0.0	74	0.00
26	C	benzene	5.000	4.737	5.3	71	0.00
30	C	trichloroethene	5.000	4.934	1.3	77	0.00
36	I	chlorobenzene-D5	10.000	10.000	0.0	70	0.00
41	C	tetrachloroethene	5.000	5.555	-11.1	80	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218769.D
Acq On : 5 Jan 2012 18:04
Operator : AIRPIANO2:ry
Sample : WG511603-3,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 18:27:38 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

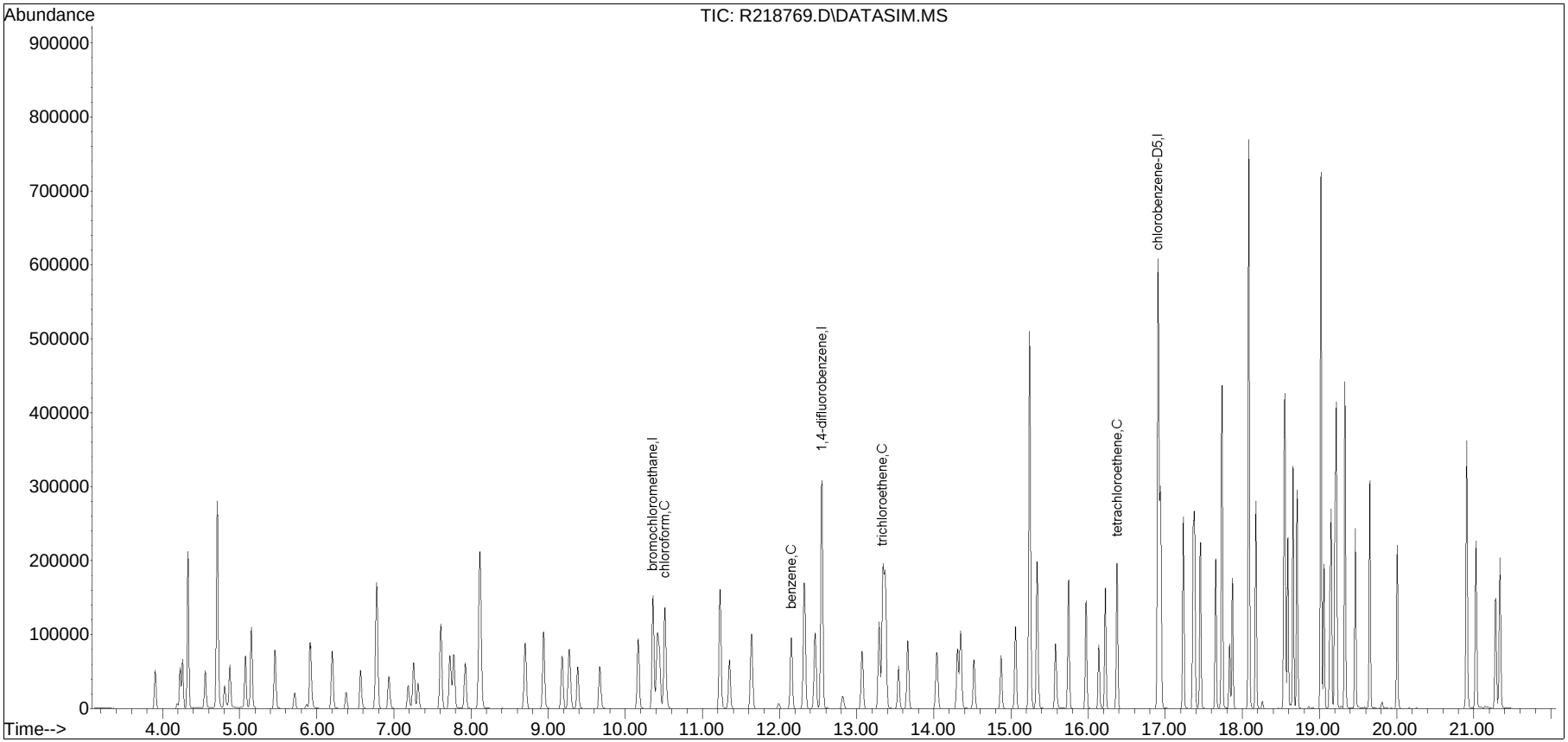
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) bromochloromethane	10.355	49	150860	10.000 ppbV	#-0.01
Standard Area = 150860			Recovery = 100.00%		
23) 1,4-difluorobenzene	12.550	114	481130	10.000 ppbV	0.00
Standard Area = 481130			Recovery = 100.00%		
36) chlorobenzene-D5	16.904	54	89624	10.000 ppbV	0.00
Standard Area = 89624			Recovery = 100.00%		
System Monitoring Compounds					
Target Compounds					Qvalue
21) chloroform	10.514	83	130242	5.095 ppbV	99
26) benzene	12.156	78	155616	4.737 ppbV	98
30) trichloroethene	13.336	130	93486	4.934 ppbV	99
41) tetrachloroethene	16.378	166	138892	5.555 ppbV	89

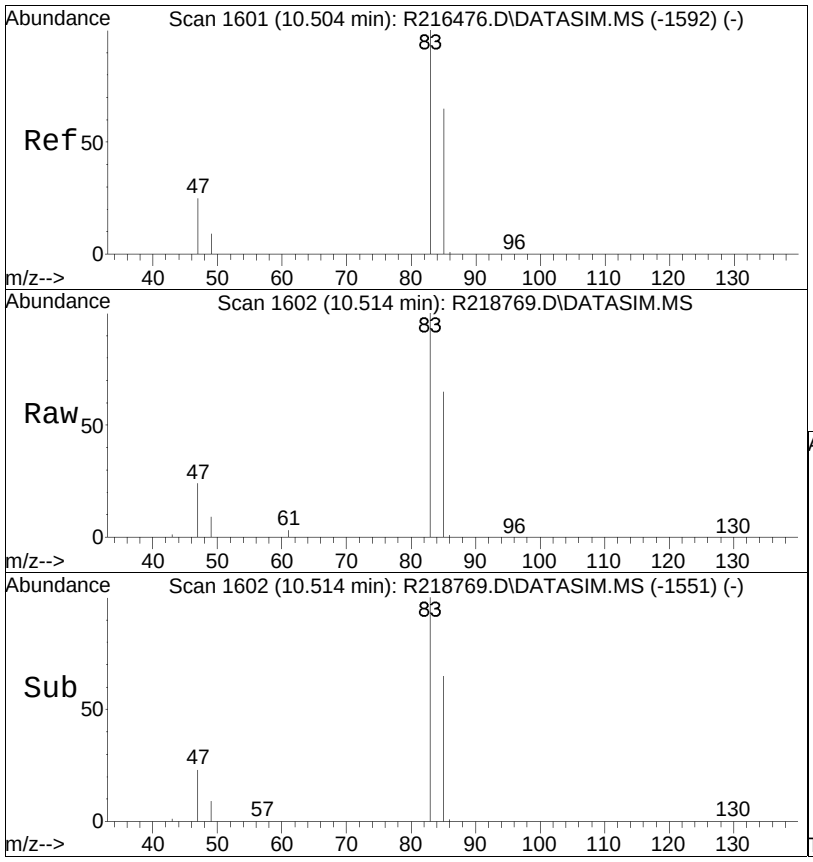
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218769.D
Acq On : 5 Jan 2012 18:04
Operator : AIRPIANO2:ry
Sample : WG511603-3,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 05 18:27:38 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

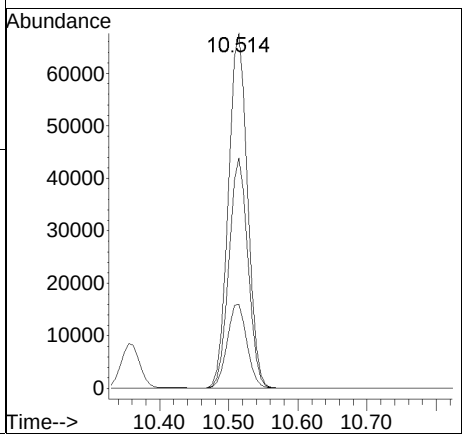


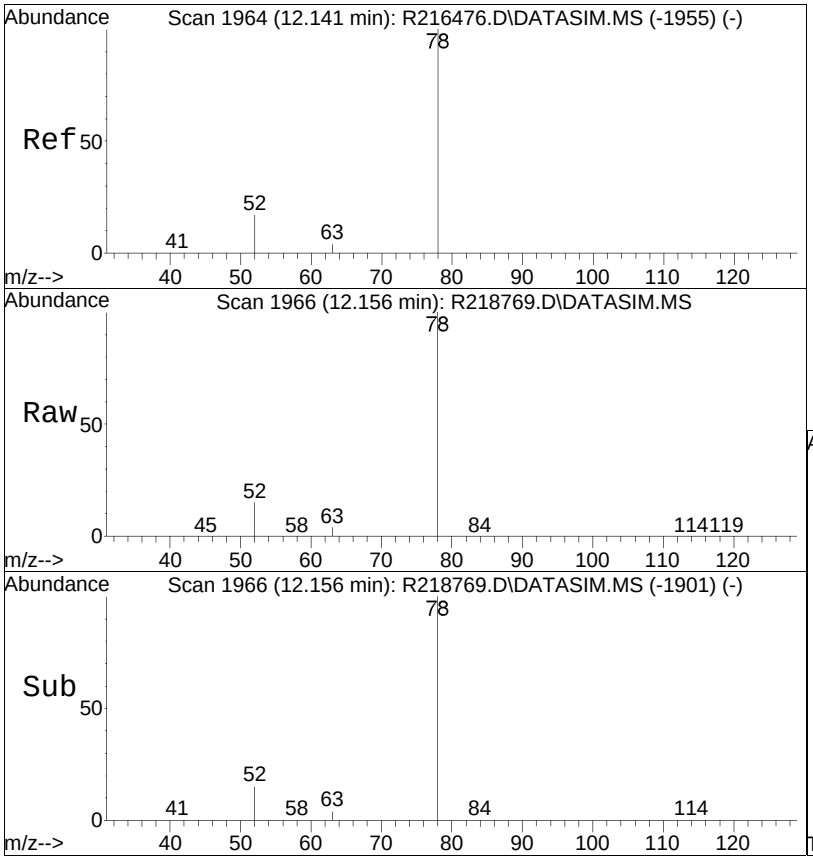


#21
chloroform
Concen: 5.09 ppbV
RT: 10.514 min Scan# 1602
Delta R.T. -0.007 min
Lab File: R218769.D
Acq: 5 Jan 2012 18:04

Tgt Ion: 83 Resp: 130242

Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.4	78.6
47	24.5	19.9	29.9

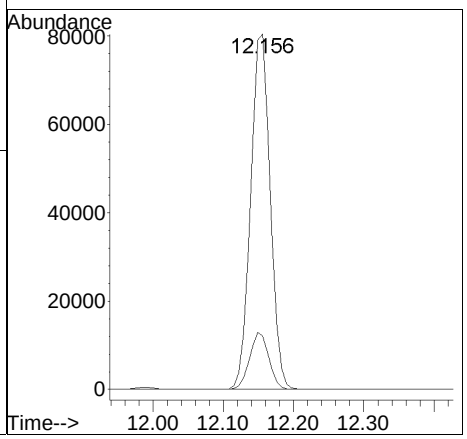


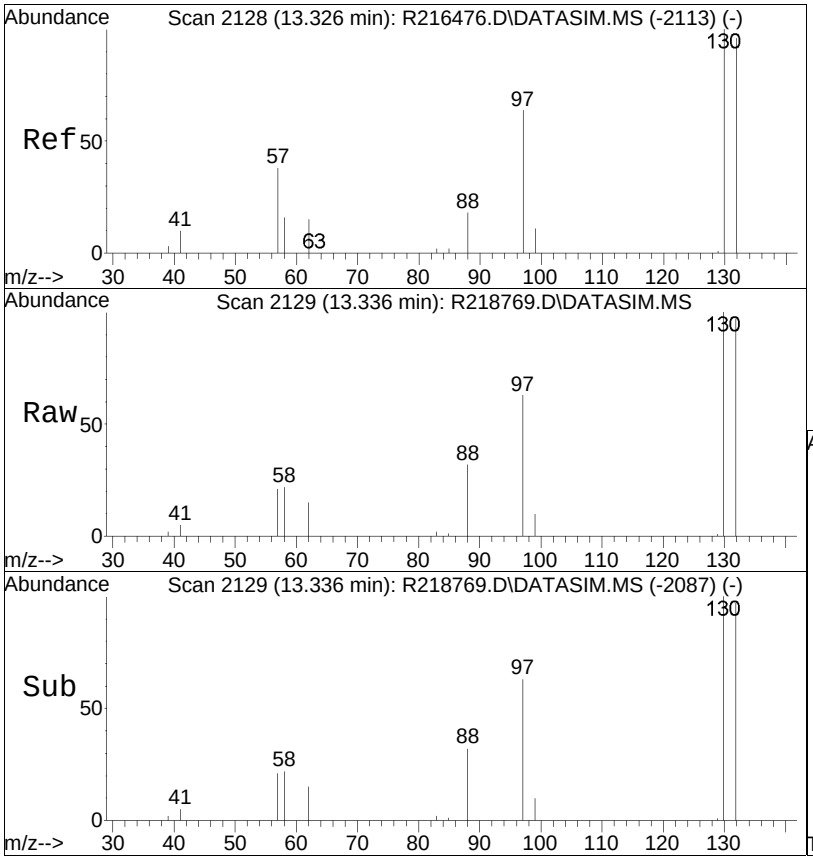


#26
benzene
Concen: 4.74 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218769.D
Acq: 5 Jan 2012 18:04

Tgt Ion: 78 Resp: 155616

Ion	Ratio	Lower	Upper
78	100		
52	15.7	13.3	19.9

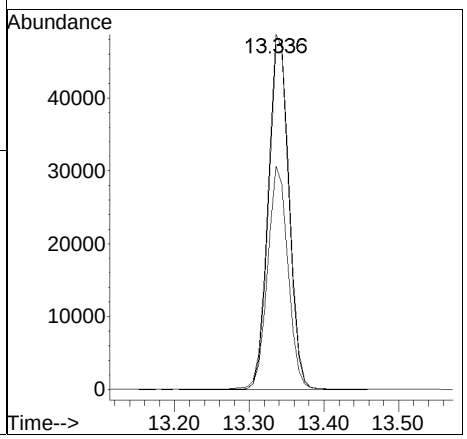


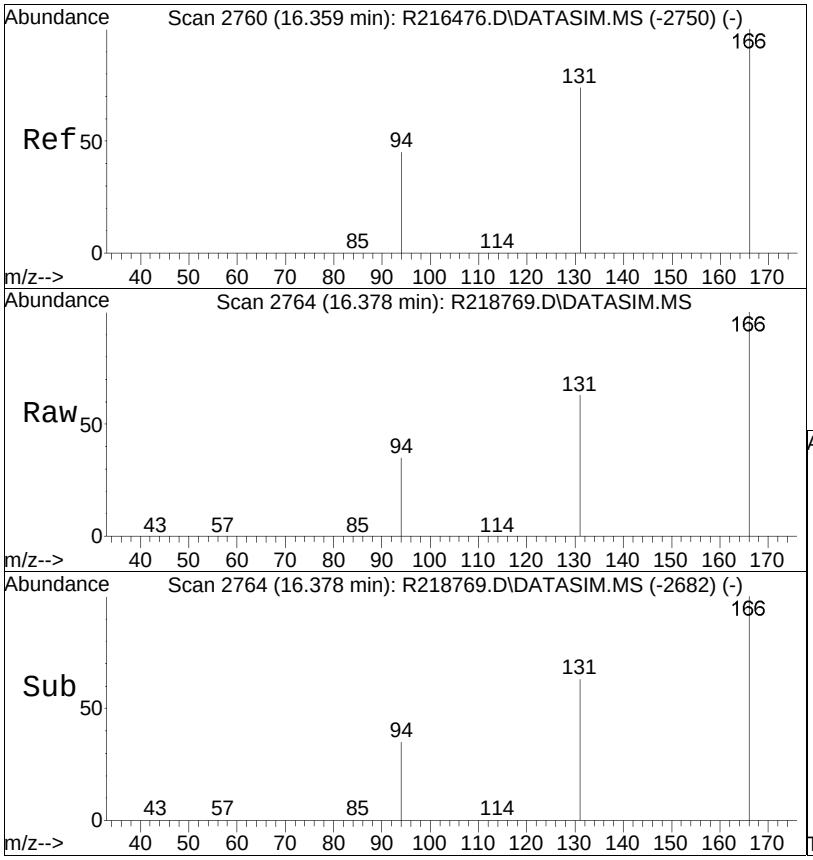


#30
trichloroethene
Concen: 4.93 ppbV
RT: 13.336 min Scan# 2129
Delta R.T. -0.008 min
Lab File: R218769.D
Acq: 5 Jan 2012 18:04

Tgt Ion:130 Resp: 93486

Ion	Ratio	Lower	Upper
130	100		
132	98.0	77.4	116.2
97	62.1	50.0	75.0

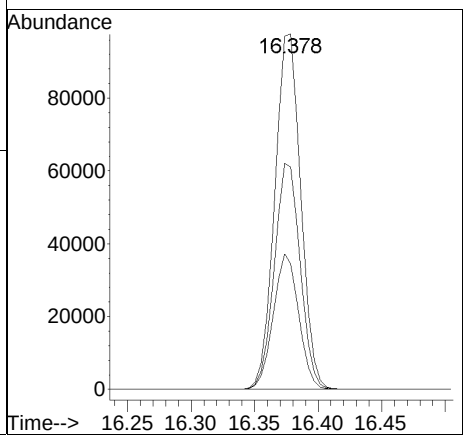




#41
tetrachloroethene
Concen: 5.55 ppbV
RT: 16.378 min Scan# 2764
Delta R.T. 0.000 min
Lab File: R218769.D
Acq: 5 Jan 2012 18:04

Tgt Ion:166 Resp: 138892

Ion	Ratio	Lower	Upper
166	100		
131	63.3	58.9	88.3
94	37.2	35.0	52.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2012Q	Method	: TSIM111221.M
Data File	: R218769.D	Operator	: AIRPIANO2:ry
Date Inj'd	: 1/5/2012 18:04	Instrument	: Air Piano 2
Sample	: WG511603-3,3,250,250	Quant Date	: 1/5/2012 6:27 pm

There are no manual integrations or false positives in this file.

Duplicate Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218780.D
Acq On : 6 Jan 2012 1:03
Operator : AIRPIANO2:MB
Sample : WG511603-5,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 06 09:14:10 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

Sub List : KSM-SIM - .

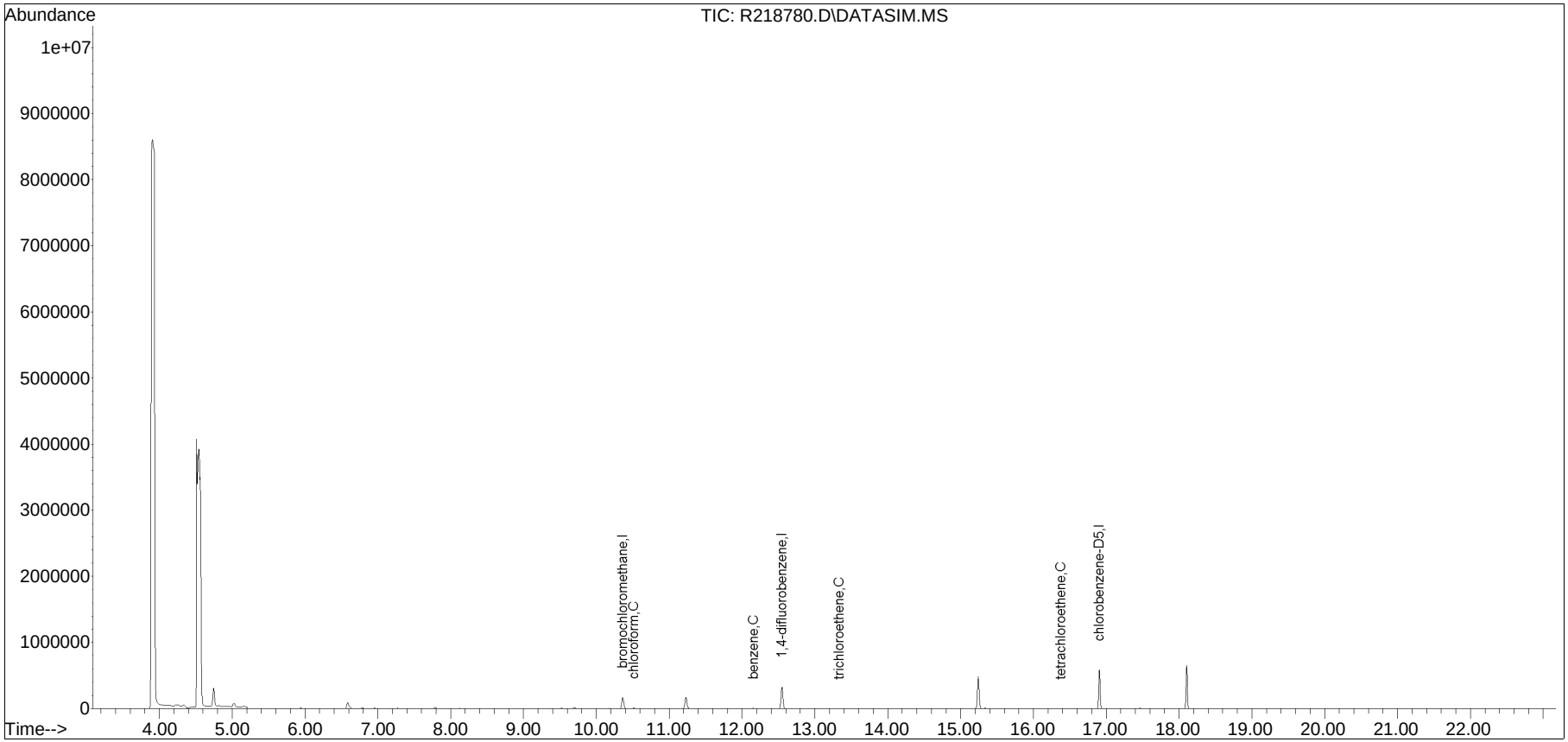
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	164731	10.000	ppbV	# 0.00
Standard Area = 150860			Recovery = 109.19%			
23) 1,4-difluorobenzene	12.550	114	507758	10.000	ppbV	0.00
Standard Area = 481130			Recovery = 105.53%			
36) chlorobenzene-D5	16.904	54	90831	10.000	ppbV	0.00
Standard Area = 89624			Recovery = 101.35%			
System Monitoring Compounds						
Target Compounds						Qvalue
21) chloroform	10.514	83	7126	0.255	ppbV	100
26) benzene	12.156	78	7594	0.219	ppbV	99
30) trichloroethene	13.336	130	307	0.015	ppbV	99
41) tetrachloroethene	16.378	166	2092	0.083	ppbV	89

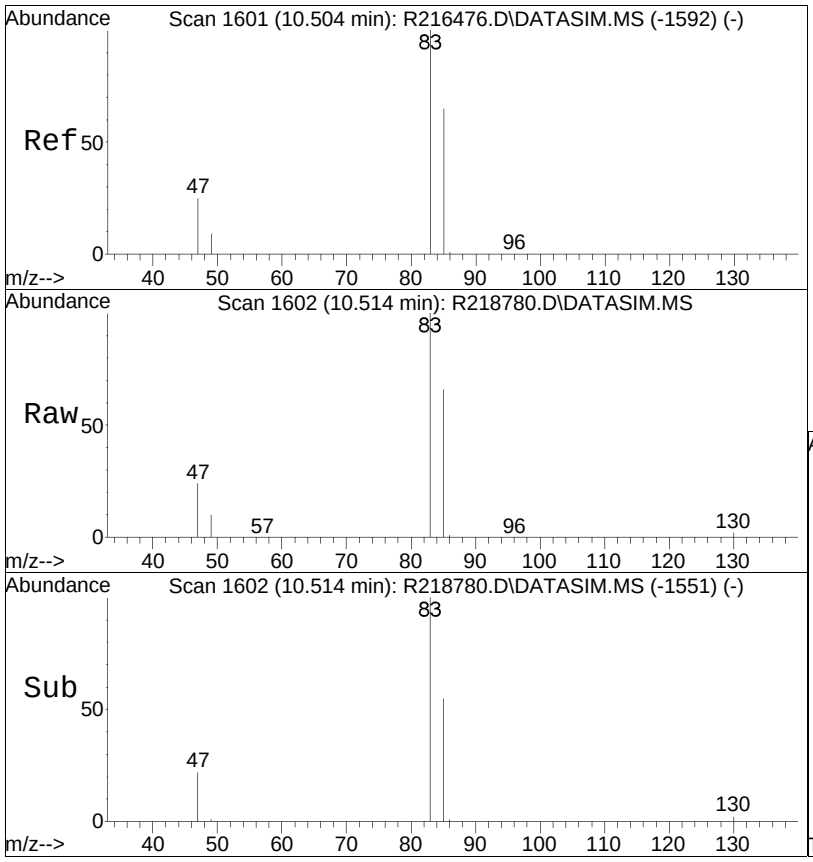
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KSM-SIM - .ation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105SIM\
Data File : R218780.D
Acq On : 6 Jan 2012 1:03
Operator : AIRPIANO2:MB
Sample : WG511603-5,3,250,250
Misc : WG511603,ICAL6481
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 06 09:14:10 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011
Response via : Initial Calibration

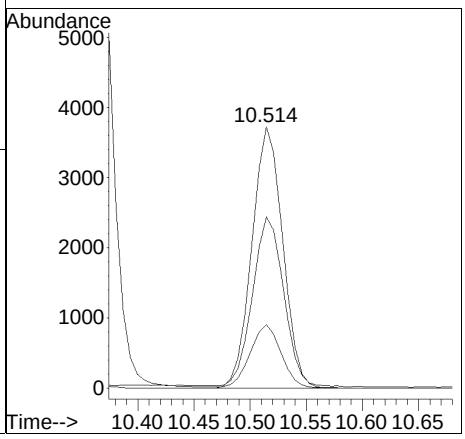


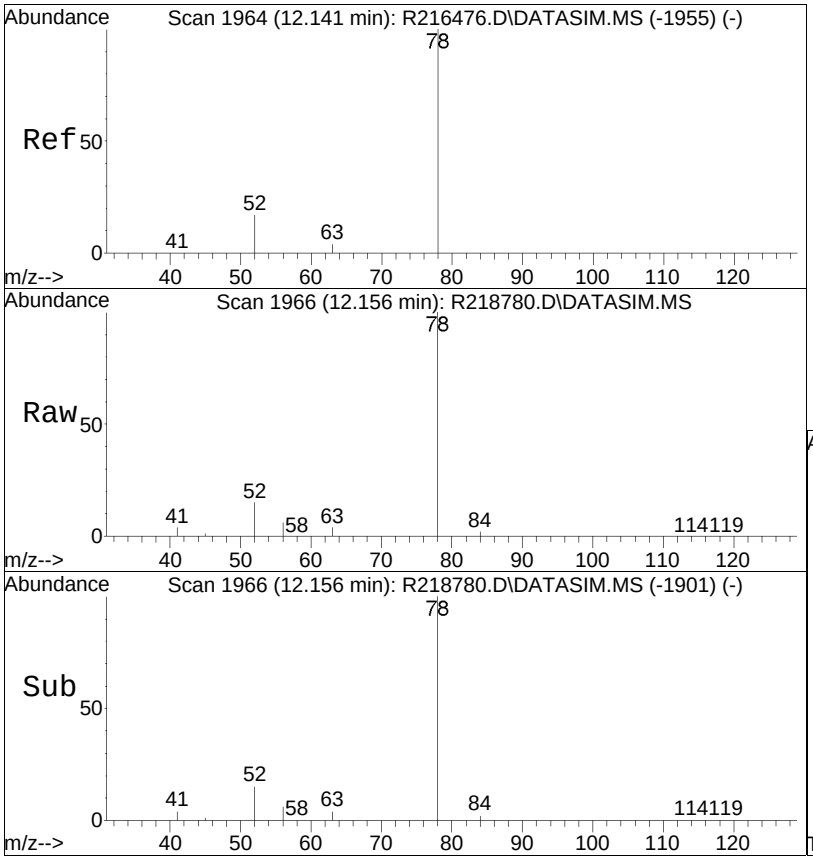


#21
chloroform
Concen: 0.26 ppbV
RT: 10.514 min Scan# 1602
Delta R.T. -0.007 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 83 Resp: 7126

Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.4	78.6
47	24.7	19.9	29.9

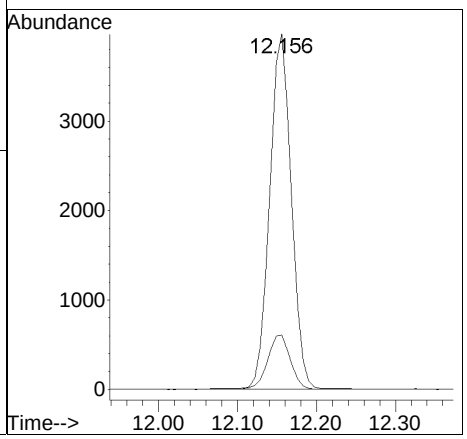


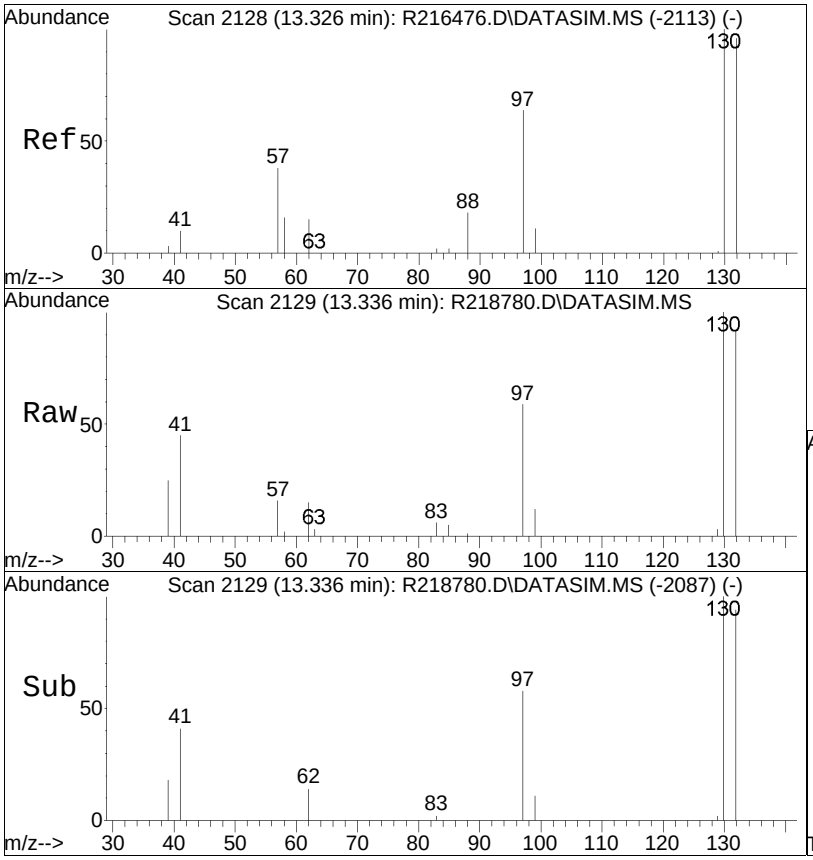


#26
benzene
Concen: 0.22 ppbV
RT: 12.156 min Scan# 1966
Delta R.T. -0.000 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 78 Resp: 7594

Ion	Ratio	Lower	Upper
78	100		
52	16.1	13.3	19.9

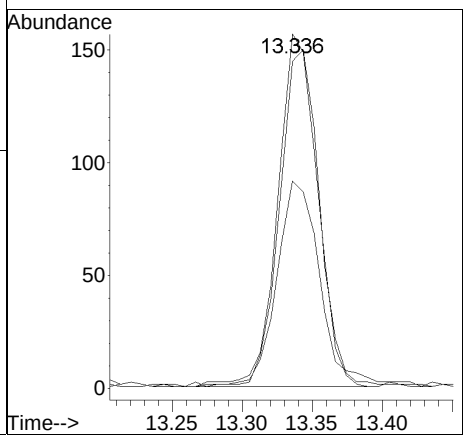


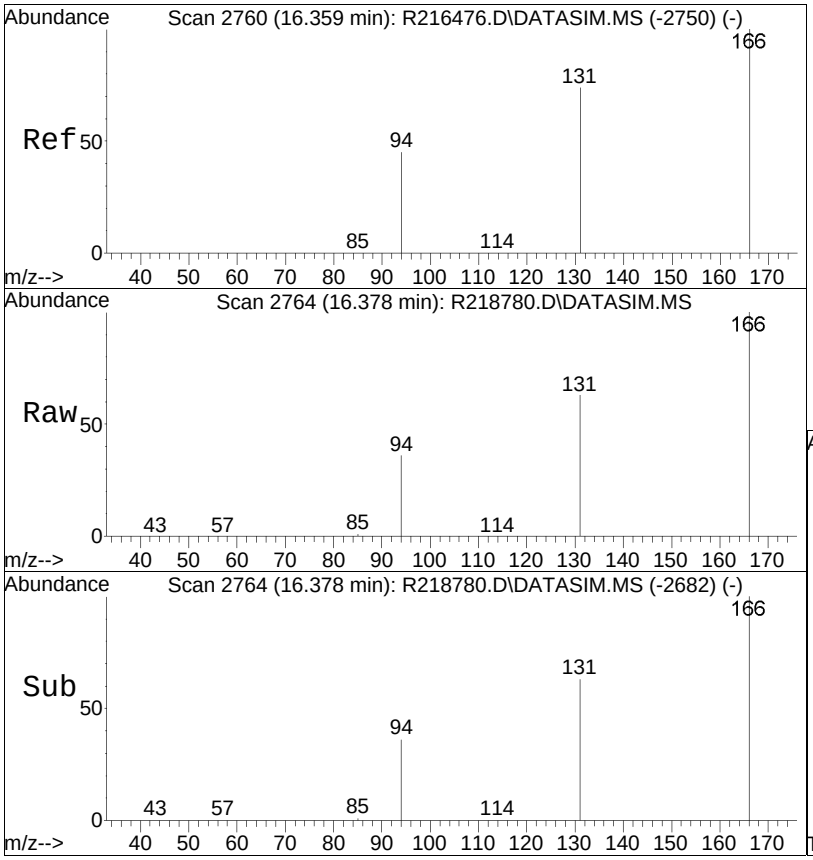


#30
trichloroethene
Concen: 0.02 ppbV
RT: 13.336 min Scan# 2129
Delta R.T. -0.008 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:130 Resp: 307

Ion	Ratio	Lower	Upper
130	100		
132	96.7	77.4	116.2
97	63.8	50.0	75.0

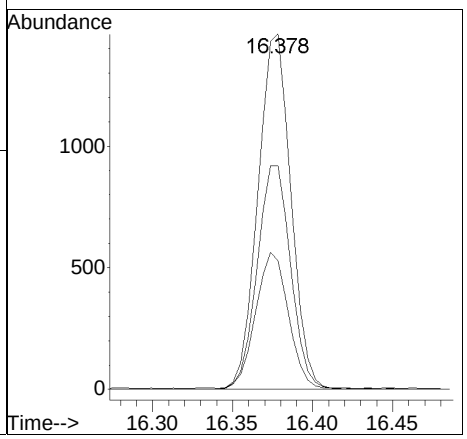




#41
tetrachloroethene
Concen: 0.08 ppbV
RT: 16.378 min Scan# 2764
Delta R.T. 0.000 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:166 Resp: 2092

Ion	Ratio	Lower	Upper
166	100		
131	64.0	58.9	88.3
94	37.9	35.0	52.6



Volatile Organics in Air
TO-15 Low Level

Initial Calibration

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221T\
Method File : TALL111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 09:10:18 2011
Response Via : Initial Calibration

Calibration Files
0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D 2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D
50 =R218566.D 100 =R218567.D

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	1.130	1.412	1.317	1.193	1.407	1.414	1.436	1.423	1.341	8.79
3)		propylene	0.536	0.622	0.537	0.510	0.512	0.563	0.566	0.550	0.549	6.50
4)		propane	0.686	0.694	0.639	0.559	0.570	0.612	0.616	0.587	0.620	8.08
5)		dichlorodifluoromethane	2.321	2.554	2.427	2.289	2.433	2.586	2.605	2.526	2.467	4.85
6)	C	chloromethane	0.746	0.833	0.756	0.688	0.773	0.805	0.782	0.750	0.767	5.65
7)		Freon-114	2.394	2.735	2.589	2.390	2.678	2.680	2.706	2.653	2.603	5.26
8)	C	methanol			0.677	0.620	0.738	0.660	0.506	0.535	0.623	14.16
9)	C	vinyl chloride	0.802	0.928	0.851	0.798	0.867	0.929	0.906	0.879	0.870	5.90
10)	C	1,3-butadiene	0.566	0.640	0.578	0.532	0.610	0.625	0.617	0.610	0.597	5.94
11)		butane	1.368	1.374	1.451	1.463	1.438	1.496	1.469	1.392	1.431	3.34
12)	C	acetaldehyde	0.294	0.233	0.227	0.192	0.223	0.232	0.180	0.182	0.220	16.94
13)	C	bromomethane	0.884	0.951	0.909	0.806	0.911	0.929	0.882	0.861	0.891	5.02
14)	C	chloroethane	0.372	0.418	0.392	0.352	0.408	0.405	0.387	0.378	0.389	5.53
15)		ethanol	0.517	0.490	0.501	0.480	0.543	0.518	0.379	0.430	0.482	11.10
16)		dichlorofluoromethane	2.123	2.332	2.271	1.973	2.370	2.287	2.073	2.095	2.191	6.52
17)	C	vinyl bromide	0.719	0.925	0.862	0.771	0.909	0.920	0.844	0.848	0.850	8.63
18)	C	acrolein	0.249	0.303	0.272	0.201	0.294	0.294	0.242	0.265	0.265	12.81
19)		acetone		1.344	1.181	0.924	1.144	1.089	0.710	0.840	1.033	21.21
20)	C	acetonitrile		0.923	1.012	0.561	0.756	0.680	0.478	0.547	0.708	28.39
21)		trichlorofluoromethane	2.500	2.697	2.579	2.348	2.673	2.633	2.432	2.372	2.529	5.39
22)		isopropyl alcohol		1.273	1.330	1.041	1.187	1.179	0.960	1.032	1.143	11.92
23)	C	acrylonitrile	0.579	0.502	0.526	0.448	0.574	0.573	0.431	0.485	0.515	11.31
24)		pentane	1.518	1.511	1.604	1.337	1.522	1.497	1.465	1.444	1.487	5.17
25)		ethyl ether	0.847	0.859	0.863	0.756	1.027	0.984	0.781	0.796	0.864	11.13
26)	C	1,1-dichloroethene	1.346	1.489	1.503	1.301	1.501	1.460	1.313	1.308	1.403	6.65
27)		tertiary butyl alcohol	1.564	1.500	1.560	1.418	1.591	1.612	1.339	1.455	1.505	6.30
28)	C	methylene chloride		1.297	1.104	0.973	1.079	1.051	0.905	0.912	1.046	12.98
29)	C	3-chloropropene	1.154	1.200	1.185	0.987	1.148	1.129	0.997	1.016	1.102	7.94
30)	C	carbon disulfide	2.179	2.553	2.364	2.366	2.557	2.664	2.439	2.449	2.447	6.10
31)		Freon 113	1.750	2.033	1.983	1.683	1.994	1.968	1.806	1.803	1.877	7.03

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221T\
Method File : TALL111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 09:10:18 2011
Response Via : Initial Calibration

Calibration Files
0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D 2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D
50 =R218566.D 100 =R218567.D

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
32)		trans-1,2-dichloroethene	1.576	1.800	1.760	1.596	1.811	1.795	1.571	1.640	1.694	6.35
33)	C	1,1-dichloroethane	1.473	1.562	1.567	1.406	1.612	1.644	1.414	1.451	1.516	6.06
34)	C	MTBE	1.747	1.750	1.873	1.647	2.058	2.051	1.423	1.675	1.778	11.99
35)	C	vinyl acetate	1.394	1.152	1.292	1.044	1.559	1.478	1.068	1.249	1.280	14.72
36)	C	2-butanone	1.479	1.333	1.411	1.172	1.495	1.413	0.895	1.089	1.286	16.62
37)		cis-1,2-dichloroethene	1.142	0.979	1.088	0.875	1.274	1.280	0.934	1.008	1.073	14.09
38)		Ethyl Acetate	0.095	0.125	0.152	0.135	0.195	0.184	0.131	0.175	0.149	22.74
39)	C	chloroform	1.347	1.677	1.511	1.400	1.621	1.686	1.551	1.691	1.560	8.52
40)		Tetrahydrofuran	0.777	0.651	0.645	0.534	0.706	0.673	0.472	0.688	0.643	15.11
41)		2,2-dichloropropane	1.263	1.433	1.395	1.295	1.496	1.567	1.449	1.594	1.437	8.22
42)	C	1,2-dichloroethane	0.969	1.022	1.022	0.941	1.103	1.119	0.999	1.075	1.031	6.14
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.386	0.369	0.374	0.314	0.363	0.369	0.355	0.426	0.369	8.46
45)		diisopropyl ether	0.177	0.140	0.169	0.144	0.169	0.172	0.131	0.184	0.161	12.23
46)		tert-butyl ethyl ether	0.648	0.543	0.644	0.551	0.670	0.667	0.468	0.632	0.603	12.19
47)	s	1,2-dichloroethane-D4	0.452	0.406	0.468	0.522	0.376	0.346	0.374	0.339	0.410	15.74
48)	C	1,1,1-trichloroethane	0.563	0.577	0.566	0.490	0.553	0.570	0.520	0.611	0.556	6.61
49)		1,1-dichloropropene	0.409	0.427	0.405	0.361	0.409	0.412	0.374	0.439	0.405	6.33
50)	C	benzene	0.796	0.728	0.724	0.626	0.711	0.735	0.660	0.776	0.720	7.74
51)		thiophene	0.450	0.424	0.397	0.377	0.421	0.443	0.395	0.474	0.423	7.66
52)	C	carbon tetrachloride	0.628	0.609	0.597	0.525	0.606	0.624	0.606	0.718	0.614	8.59
53)		cyclohexane	0.409	0.403	0.396	0.336	0.377	0.375	0.346	0.404	0.381	7.23
54)		tert-amyl methyl ether	0.572	0.525	0.580	0.497	0.602	0.612	0.440	0.599	0.553	10.94
55)		dibromomethane	0.381	0.340	0.348	0.311	0.356	0.359	0.327	0.395	0.352	7.78
56)	C	1,2-dichloropropane	0.263	0.254	0.250	0.214	0.247	0.269	0.243	0.299	0.255	9.50
57)		bromodichloromethane	0.565	0.540	0.540	0.488	0.551	0.590	0.548	0.672	0.562	9.42
58)	C	1,4-dioxane	0.124	0.150	0.133	0.119	0.146	0.146	0.113	0.150	0.135	11.02
59)	C	trichloroethene	0.368	0.382	0.381	0.325	0.367	0.382	0.369	0.440	0.377	8.33
60)	C	2,2,4-trimethylpentane	1.248	1.199	1.191	1.021	1.168	1.221	1.130	1.353	1.191	8.00
61)		heptane	0.502	0.452	0.441	0.380	0.425	0.444	0.401	0.476	0.440	8.86
62)		2,4,4-trimethyl-1-pentene	0.612	0.529	0.560	0.510	0.575	0.616	0.533	0.623	0.570	7.73

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221T\
Method File : TALL111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 09:10:18 2011
Response Via : Initial Calibration

Calibration Files
0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D 2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D
50 =R218566.D 100 =R218567.D

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
63)	C	cis-1,3-dichloropropene	0.339	0.321	0.354	0.301	0.368	0.393	0.373	0.464	0.364	13.71
64)	C	4-methyl-2-pentanone	0.519	0.436	0.476	0.409	0.469	0.482	0.369	0.469	0.454	10.38
65)		2,4,4-trimethyl-2-pentene	0.420	0.379	0.330	0.328	0.347	0.377	0.331	0.402	0.364	9.78
66)		trans-1,3-dichloropropene	0.339	0.302	0.335	0.282	0.358	0.378	0.352	0.463	0.351	15.55
67)	C	1,1,2-trichloroethane	0.322	0.256	0.279	0.241	0.280	0.292	0.265	0.335	0.284	11.31
68)	I	chlorobenzene-D5	----------ISTD----------									
69)	C	toluene	4.280	3.875	3.981	3.338	4.019	4.501	3.929	4.434	4.045	9.16
70)	s	toluene-D8	5.001	4.725	5.396	5.873	4.325	4.081	4.676	4.133	4.776	13.12
71)		2-methylthiophene	2.563	2.376	2.576	2.560	2.941	3.343	2.844	3.091	2.787	11.69
72)		1,3-dichloropropane	1.772	1.632	1.730	1.508	1.867	2.135	1.819	2.068	1.816	11.51
73)		2-hexanone	2.172	1.913	2.109	1.816	2.087	2.221	1.684	1.933	1.992	9.35
74)		3-methylthiophene	2.621	2.413	2.638	2.360	2.851	3.156	2.727	3.051	2.727	10.35
75)		dibromochloromethane	2.272	2.243	2.397	2.149	2.729	3.025	2.753	3.123	2.586	14.41
76)	C	1,2-dibromoethane	2.021	2.026	2.136	1.792	2.175	2.371	2.172	2.459	2.144	9.74
77)		butyl acetate	0.327	0.283	0.318	0.293	0.377	0.394	0.287	0.347	0.328	12.68
78)		octane	1.119	1.112	1.126	1.050	1.221	1.334	1.235	1.369	1.196	9.50
79)	C	tetrachloroethene	2.490	2.502	2.297	2.137	2.407	2.641	2.461	2.664	2.450	7.06
80)		1,1,1,2-tetrachloroethane	1.731	1.819	1.864	1.688	2.054	2.197	2.051	2.246	1.956	10.77
81)	C	chlorobenzene	3.118	3.092	3.099	2.668	3.217	3.570	3.346	3.793	3.238	10.51
82)	C	ethylbenzene	4.504	3.833	4.391	3.712	4.956	5.233	4.373	5.206	4.526	12.75
83)		2-ethylthiophene	2.710	2.559	2.840	2.489	3.187	3.527	2.908	3.431	2.957	13.14
84)	C	m+p-xylene	3.398	2.987	3.422	2.903	3.923	4.141	3.485	4.235	3.562	13.97
85)	C	bromoform	1.981	2.196	2.350	2.159	2.834	3.416	3.418	3.661	2.752	24.32
86)	C	styrene	2.333	2.103	2.512	2.092	2.862	3.104	2.659	3.200	2.608	16.33
87)	C	1,1,2,2-tetrachloroethane	2.181	2.167	2.465	2.192	2.948	3.129	2.605	3.019	2.588	15.47
88)	C	o-xylene	3.458	3.050	3.588	2.935	4.448	4.729	3.664	4.619	3.811	18.40
89)		1,2,3-trichloropropane	2.000	1.995	2.180	1.923	2.551	2.603	2.056	2.503	2.226	12.62
90)		nonane	2.581	2.365	2.611	2.340	2.955	3.320	2.886	3.078	2.767	12.63
91)	s	bromofluorobenzene	3.654	3.531	4.114	4.335	3.394	3.022	3.763	3.404	3.652	11.48
92)	C	isopropylbenzene	4.909	4.422	4.942	4.289	5.811	5.997	4.977	6.015	5.170	13.29
93)		bromobenzene	2.591	2.357	2.642	2.422	3.067	3.338	2.761	2.779	2.745	11.89

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2011\111221T\
Method File : TALL111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 09:10:18 2011
Response Via : Initial Calibration

Calibration Files
0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D 2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D
50 =R218566.D 100 =R218567.D

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
94)		2-chlorotoluene	1.343	1.293	1.329	1.241	1.650	1.763	1.607	1.874	1.513	15.91
95)		n-propylbenzene	1.157	1.081	1.218	1.151	1.620	1.701	1.504	1.872	1.413	21.20
96)		4-chlorotoluene	3.505	3.172	3.407	3.143	4.262	4.612	4.053	4.880	3.879	17.21
97)		4-ethyl toluene	3.930	3.745	4.298	3.941	5.593	5.748	4.847	6.095	4.775	19.49
98)		1,3,5-trimethylbenzene	3.403	3.105	3.515	3.247	4.584	4.638	3.931	4.988	3.926	18.37
99)		tert-butylbenzene	3.628	3.302	3.898	3.608	5.116	5.442	4.690	5.270	4.369	19.56
100)		1,2,4-trimethylbenzene	3.057	2.724	3.252	3.087	4.410	4.758	4.122	4.726	3.767	21.89
101)		decane	1.888	1.672	2.147	2.006	2.908	3.132	2.750	3.312	2.477	25.13
102)	C	Benzyl Chloride	1.966	1.831	2.278	2.158	3.293	3.700	3.395		2.660	29.08
103)		1,3-dichlorobenzene	2.567	2.399	2.714	2.391	3.316	3.720	3.452	4.172	3.091	21.63
104)	C	1,4-dichlorobenzene	2.552	2.419	2.700	2.337	3.301	3.665	3.520	4.163	3.082	21.83
105)		sec-butylbenzene	4.735	4.460	5.306	4.922	7.057	7.422	6.282	7.504	5.961	21.11
106)		1,2,3-trimethylbenzene	2.101	1.933	2.309	2.251	3.211	3.322	2.748	3.457	2.667	22.48
107)		p-isopropyltoluene	3.828	3.447	4.317	4.216	6.019	6.364	5.487	6.494	5.021	24.07
108)		1,2-dichlorobenzene	2.357	2.240	2.501	2.245	3.193	3.452	3.117	3.808	2.864	21.15
109)		n-butylbenzene	3.101	2.952	3.739	3.685	5.437	5.661	4.701	6.559	4.479	29.35
110)		indan	2.267	2.184	2.411	2.245	3.183	3.409	2.823	3.580	2.763	20.47
111)		indene	1.646	1.754	2.061	1.891	2.779	2.902	2.497	3.191	2.340	24.83
112)	C	1,2-dibromo-3-chloropropane	0.780	0.692	0.880	0.877	1.272	1.410	1.238	1.536	1.085	29.14
113)		undecane	1.507	1.493	1.847	1.775	2.741	2.903	2.623	3.344	2.279	31.07#
114)		1,2,4,5-tetramethylbenzene	0.881	0.919	1.136	1.305	1.833	1.704	1.468	1.875	1.390	28.38
115)		dodecane	1.196	1.297	1.542	1.498	1.979	2.487	2.461	3.036	1.937	34.33#
116)	C	1,2,4-trichlorobenzene	1.431	1.539	1.758	1.616	2.334	2.814	2.930		2.060	30.42#
117)		naphthalene	3.486	3.097	3.485	3.400	4.924	5.717	5.433	7.024	4.571	31.05#
118)		1,2,3-trichlorobenzene	1.405	1.526	1.689	1.723	2.407	2.834	2.817	3.591	2.249	34.91#
119)		benzothiophene	1.173	1.251	1.548	1.181	1.663	2.172	2.545	3.417	1.869	42.56#
120)	C	hexachlorobutadiene	1.653	1.637	1.967	1.863	2.690	3.082	3.157		2.293	29.02
121)		2-methylnaphthalene		0.641	0.699	0.881	1.101	0.813	1.284	1.821	1.034	39.98#
122)		1-methylnaphthalene		1.199	1.221	1.221	1.452	1.229	2.174	2.962	1.637	41.61#

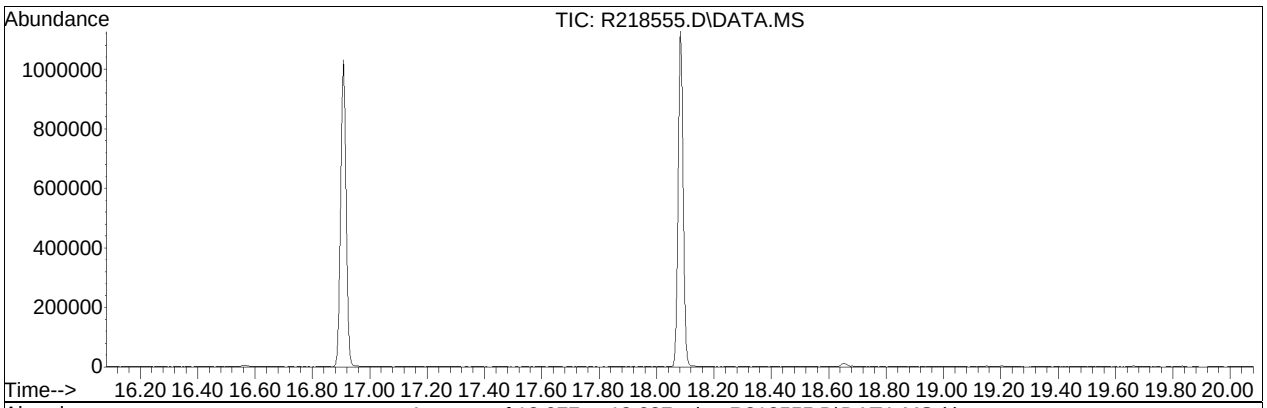
(#) = Out of Range

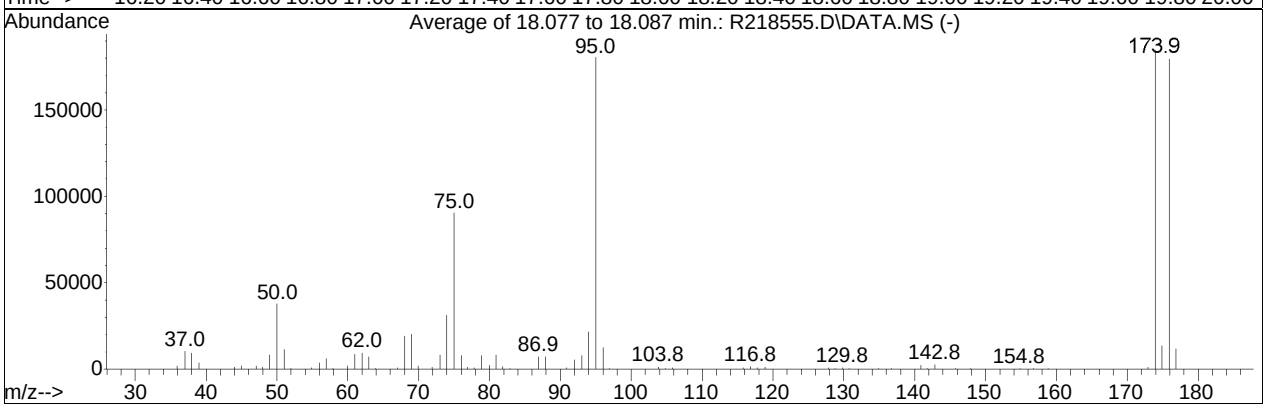
BFB

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218555.D
Acq On : 21 Dec 2011 4:06 pm
Operator : AIRPIANO2:RY
Sample : wg509913-1,3,250,250
Misc : wg509913
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 09:10:18 2011





AutoFind: Scans 3048, 3049, 3050; Background Corrected with Scan 3041

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.9	37712	PASS
75	95	30	66	50.2	90563	PASS
95	95	100	100	100.0	180416	PASS
96	95	5	9	7.0	12542	PASS
173	174	0.00	2	0.6	1202	PASS
174	95	50	120	102.5	184981	PASS
175	174	4	9	7.3	13457	PASS
176	174	93	101	97.0	179371	PASS
177	176	5	9	6.7	11971	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.2
Misc : wg509913
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 09:01:27 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	193934	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	482680	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	106350	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.234	65	218334	13.072	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 130.72%#			
70) toluene-D8	15.246	98	531822	12.252	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.52%			
91) bromofluorobenzene	18.082	95	388611	12.091	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.91%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	4384	0.160	ppbV #	90
3) propylene	4.248	41	2079M6	0.191	ppbV	
4) propane	4.280	29	2660	0.224	ppbV	94
5) dichlorodifluoromethane	4.345	85	9001	0.179	ppbV	94
6) chloromethane	4.576	50	2894	0.185	ppbV	98
7) Freon-114	4.726	85	9287	0.179	ppbV #	83
8) methanol	4.834	31	13840	1.081	ppbV #	66
9) vinyl chloride	4.893	62	3109	0.173	ppbV	90
10) 1,3-butadiene	5.092	54	2197	0.181	ppbV	86
11) butane	5.172	43	5305	0.183	ppbV #	91
12) acetaldehyde	4.764	29	5707	1.269	ppbV #	64
13) bromomethane	5.478	94	3429	0.190	ppbV	92
14) chloroethane	5.728	64	1443	0.184	ppbV #	81
15) ethanol	5.956	31	10026	0.999	ppbV #	84
16) dichlorofluoromethane	5.881	67	8236	0.186	ppbV #	85
17) vinyl bromide	6.216	106	2790	0.156	ppbV	86
18) acrolein	6.399	56	966	0.169	ppbV #	77
19) acetone	6.616	43	8541	0.405	ppbV #	89
20) acetonitrile	6.233	41	9542	0.723	ppbV	97
21) trichlorofluoromethane	6.785	101	9697	0.190	ppbV	86
22) isopropyl alcohol	6.981	45	8366	0.366	ppbV #	91
23) acrylonitrile	7.215	53	2244	0.202	ppbV #	84
24) pentane	7.266	43	5889	0.203	ppbV	99
25) ethyl ether	7.348	31	3285	0.172	ppbV	91
26) 1,1-dichloroethene	7.618	61	5222	0.184	ppbV #	85
27) tertiary butyl alcohol	7.803	59	6066	0.194	ppbV #	75
28) methylene chloride	7.791	49	5903	0.290	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.2
Misc : wg509913
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 09:01:27 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
29) 3-chloropropene	7.935	41	4475	0.204 ppbV #	92
30) carbon disulfide	8.118	76	8451	0.164 ppbV #	1
31) Freon 113	8.133	101	6788	0.178 ppbV	88
32) trans-1,2-dichloroethene	8.949	61	6113	0.176 ppbV	92
33) 1,1-dichloroethane	9.190	63	5712	0.179 ppbV	95
34) MTBE	9.323	73	6777	0.170 ppbV #	68
35) vinyl acetate	9.399	43	5407	0.189 ppbV #	94
36) 2-butanone	9.709	43	5736	0.209 ppbV #	88
37) cis-1,2-dichloroethene	10.175	61	4430	0.178 ppbV #	86
38) Ethyl Acetate	10.481	61	367	0.103 ppbV #	34
39) chloroform	10.520	83	5223	0.160 ppbV	93
40) Tetrahydrofuran	11.025	42	3014M3	0.231 ppbV	
41) 2,2-dichloropropane	10.539	77	4899	0.161 ppbV #	91
42) 1,2-dichloroethane	11.355	62	3757	0.173 ppbV #	88
44) hexane	10.424	57	3726	0.209 ppbV #	81
45) diisopropyl ether	10.462	87	1705	0.205 ppbV #	1
46) tert-butyl ethyl ether	11.080	59	6256	0.194 ppbV	90
48) 1,1,1-trichloroethane	11.640	97	5438	0.198 ppbV	91
49) 1,1-dichloropropene	11.998	75	3953	0.199 ppbV	97
50) benzene	12.155	78	7687	0.217 ppbV	95
51) thiophene	12.304	84	4343	0.203 ppbV #	85
52) carbon tetrachloride	12.325	117	6061	0.201 ppbV	83
53) cyclohexane	12.467	56	3948	0.218 ppbV	93
54) tert-amyl methyl ether	12.859	73	5523	0.187 ppbV #	90
55) dibromomethane	13.051	93	3682	0.213 ppbV	91
56) 1,2-dichloropropane	13.081	63	2535	0.195 ppbV	96
57) bromodichloromethane	13.304	83	5451	0.191 ppbV #	85
58) 1,4-dioxane	13.404	88	1193	0.169 ppbV	91
59) trichloroethene	13.342	130	3550	0.193 ppbV	91
60) 2,2,4-trimethylpentane	13.373	57	12049	0.204 ppbV #	87
61) heptane	13.664	43	4845	0.226 ppbV	97
62) 2,4,4-trimethyl-1-pentene	14.049	57	5907	0.199 ppbV	90
63) cis-1,3-dichloropropene	14.305	75	3276	0.173 ppbV	94
64) 4-methyl-2-pentanone	14.389	43	5009	0.215 ppbV #	96
65) 2,4,4-trimethyl-2-pentene	14.515	55	4058	0.223 ppbV #	72
66) trans-1,3-dichloropropene	14.884	75	3268	0.179 ppbV #	75
67) 1,1,2-trichloroethane	15.068	97	3109	0.221 ppbV	96
69) toluene	15.341	91	9104	0.190 ppbV	96
71) 2-methylthiophene	15.406	97	5452	0.153 ppbV #	85
72) 1,3-dichloropropane	15.365	76	3768	0.166 ppbV #	81
73) 2-hexanone	15.619	43	4619	0.196 ppbV #	82

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.2
Misc : wg509913
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 09:01:27 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.575	97	5574	0.166	ppbV		95
75)	dibromochloromethane	15.752	129	4833	0.150	ppbV		98
76)	1,2-dibromoethane	15.976	107	4299	0.171	ppbV		84
77)	butyl acetate	16.162	73	695	0.166	ppbV		70
78)	octane	16.232	85	2380	0.168	ppbV	#	79
79)	tetrachloroethene	16.377	166	5296	0.189	ppbV	#	77
80)	1,1,1,2-tetrachloroethane	16.930	131	3681	0.158	ppbV		97
81)	chlorobenzene	16.947	112	6633	0.175	ppbV		94
82)	ethylbenzene	17.238	91	9580	0.172	ppbV		97
83)	2-ethylthiophene	17.273	97	5764	0.154	ppbV		99
84)	m+p-xylene	17.380	91	14457	0.328	ppbV		96
85)	bromoform	17.456	173	4213	0.116	ppbV		93
86)	styrene	17.654	104	4962	0.150	ppbV		95
87)	1,1,2,2-tetrachloroethane	17.736	83	4640	0.139	ppbV		98
88)	o-xylene	17.741	91	7356	0.146	ppbV		93
89)	1,2,3-trichloropropane	17.838	75	4255	0.154	ppbV	#	86
90)	nonane	17.873	43	5489	0.155	ppbV	#	96
92)	isopropylbenzene	18.179	105	10441	0.164	ppbV		91
93)	bromobenzene	18.256	77	5512	0.155	ppbV		96
94)	2-chlorotoluene	18.538	126	2857	0.152	ppbV		88
95)	n-propylbenzene	18.552	120	2460	0.136	ppbV		84
96)	4-chlorotoluene	18.588	91	7455	0.152	ppbV		97
97)	4-ethyl toluene	18.659	105	8360	0.137	ppbV		98
98)	1,3,5-trimethylbenzene	18.713	105	7239	0.147	ppbV		90
99)	tert-butylbenzene	19.024	119	7716	0.133	ppbV		94
100)	1,2,4-trimethylbenzene	19.027	105	6503	0.129	ppbV		96
101)	decane	19.065	57	4016	0.121	ppbV	#	97
102)	Benzyl Chloride	19.145	91	4182	0.106	ppbV		98
103)	1,3-dichlorobenzene	19.165	146	5461	0.138	ppbV		93
104)	1,4-dichlorobenzene	19.209	146	5429M3	0.139	ppbV		
105)	sec-butylbenzene	19.232	105	10072	0.128	ppbV		96
106)	1,2,3-trimethylbenzene	19.360	105	4468	0.126	ppbV	#	84
107)	p-isopropyltoluene	19.344	119	8143	0.120	ppbV		98
108)	1,2-dichlorobenzene	19.481	146	5014	0.137	ppbV		96
109)	n-butylbenzene	19.673	91	6595	0.110	ppbV	#	89
110)	indan	19.523	117	4821	0.133	ppbV	#	88
111)	indene	19.600	115	3500	0.113	ppbV	#	88
112)	1,2-dibromo-3-chloropr...	19.838	75	1658	0.111	ppbV	#	79
113)	undecane	20.043	57	3205	0.104	ppbV		95
114)	1,2,4,5-tetramethylben...	20.292	119	1873	0.103	ppbV	#	92
115)	dodecane	20.951	57	2543	0.096	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.2
Misc : wg509913
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 09:01:27 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.943	180	3043	0.102 ppbV #	93
117) naphthalene	21.063	128	7414	0.122 ppbV #	95
118) 1,2,3-trichlorobenzene	21.320	180	2989	0.099 ppbV	88
119) benzothiophene	21.131	134	2495	0.108 ppbV #	76
120) hexachlorobutadiene	21.380	225	3516	0.107 ppbV #	92
121) 2-methylnaphthalene	22.222	142	1079	0.125 ppbV #	87
122) 1-methylnaphthalene	22.435	142	2121	0.162 ppbV #	92

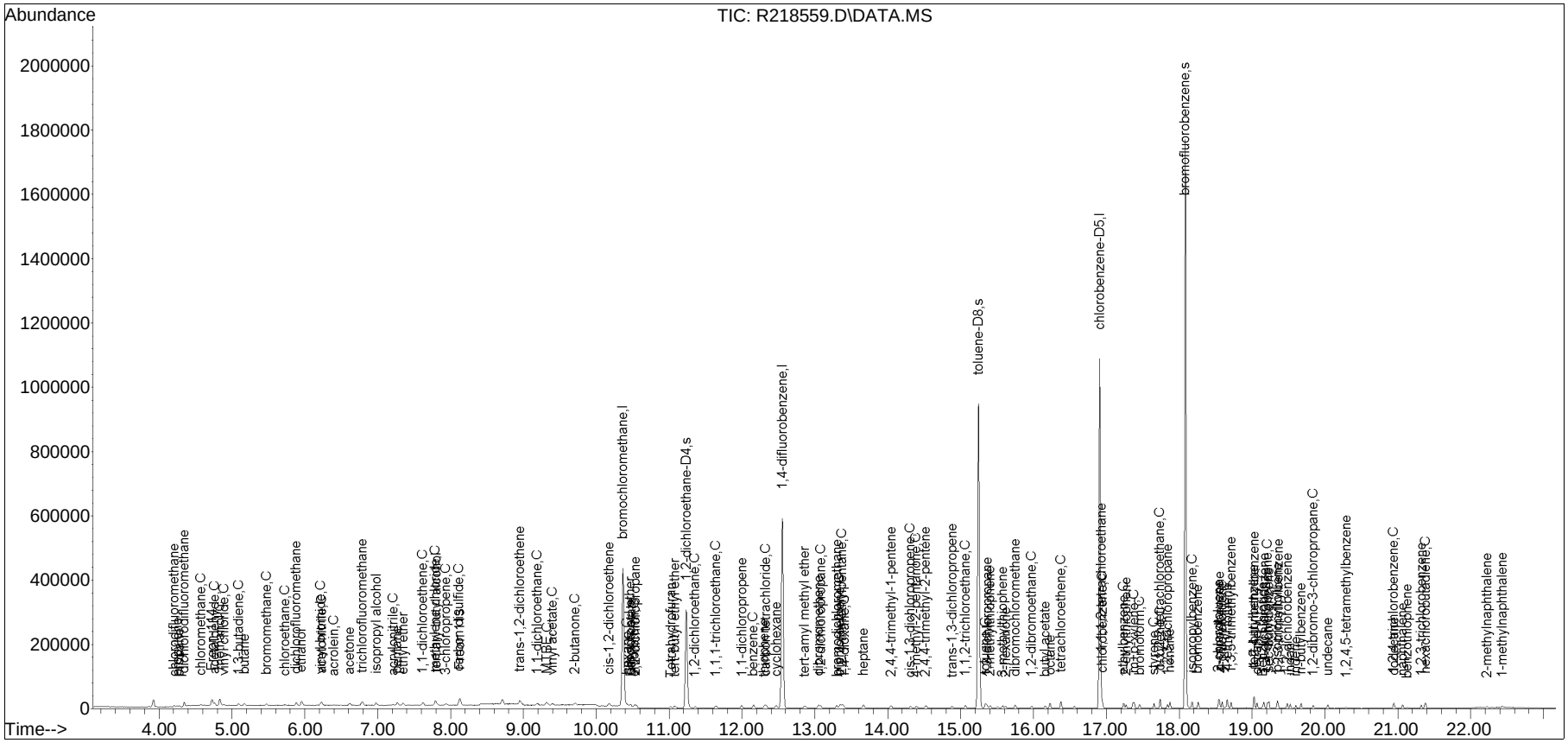
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218559.D
Acq On : 21 Dec 2011 6:32 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.2
Misc : wg509913
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 09:01:27 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

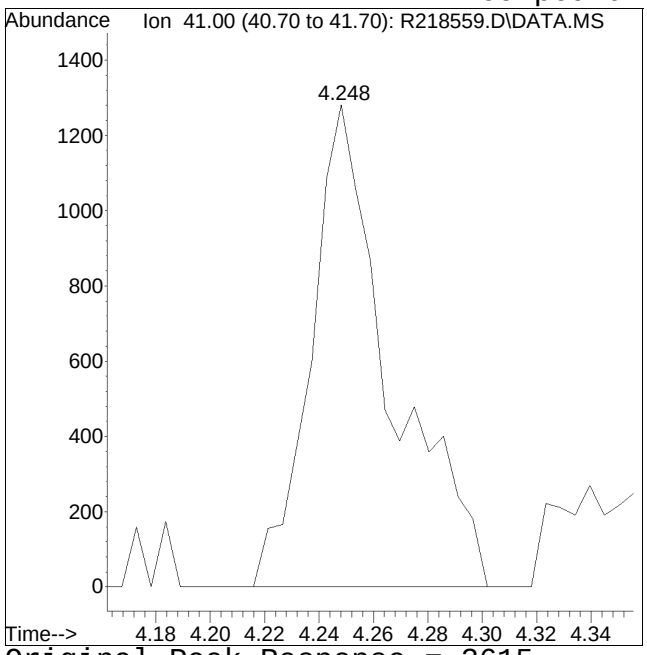


Manual Integration/Negative Proof Report

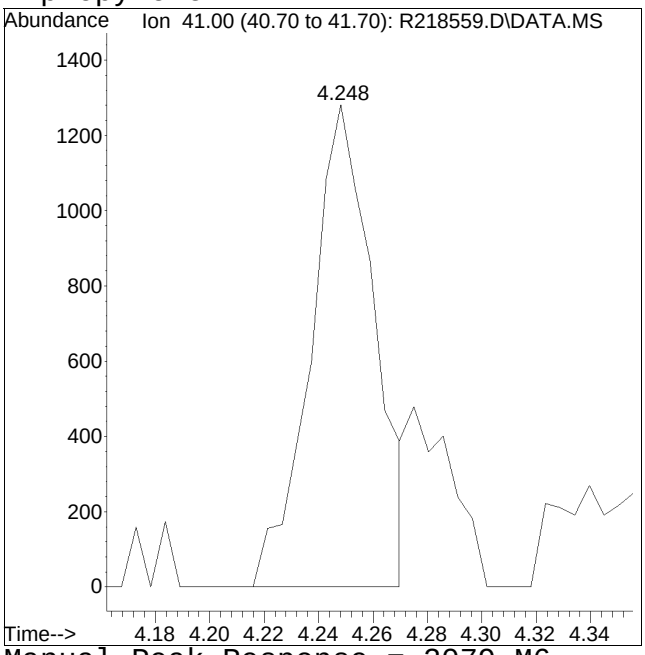
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218559.D
Date Inj'd : 12/21/2011 6:32 pm
Sample : ITO15-LLSTD0.2

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #3: propylene



Original Peak Response = 2615



Manual Peak Response = 2079 M6

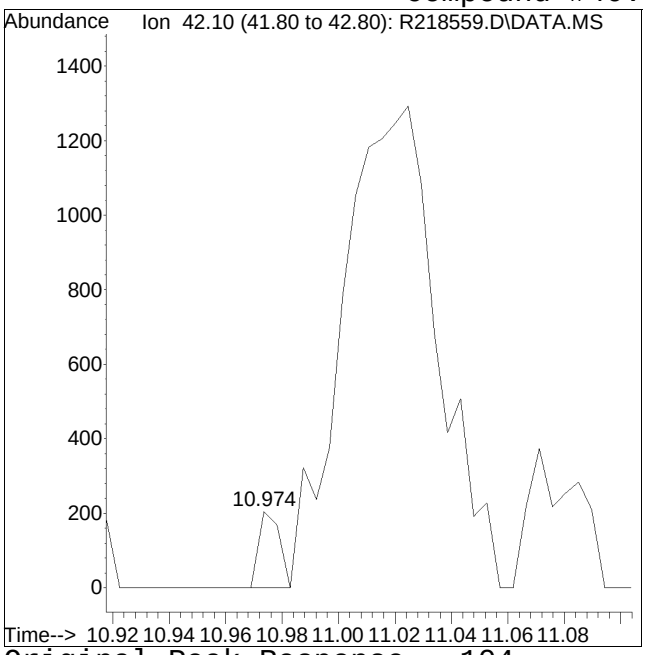
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

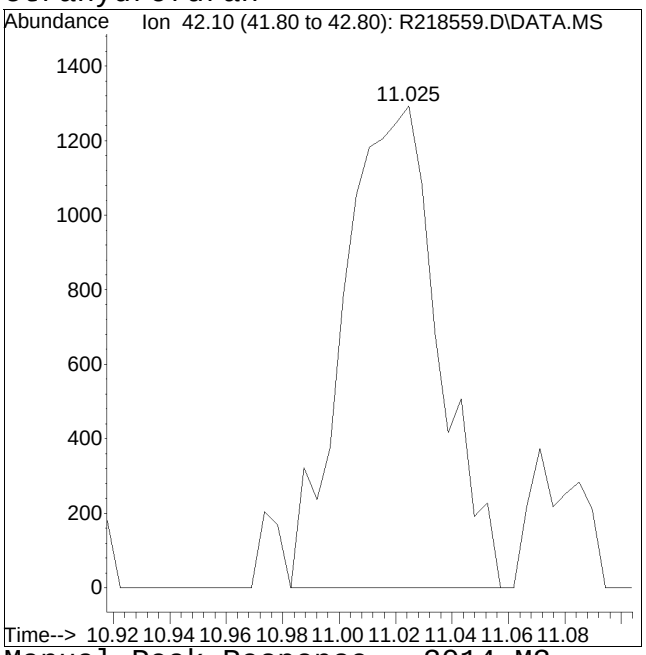
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218559.D
Date Inj'd : 12/21/2011 6:32 pm
Sample : ITO15-LLSTD0.2

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #40: Tetrahydrofuran





Original Peak Response = 104 Manual Peak Response = 3014 M3

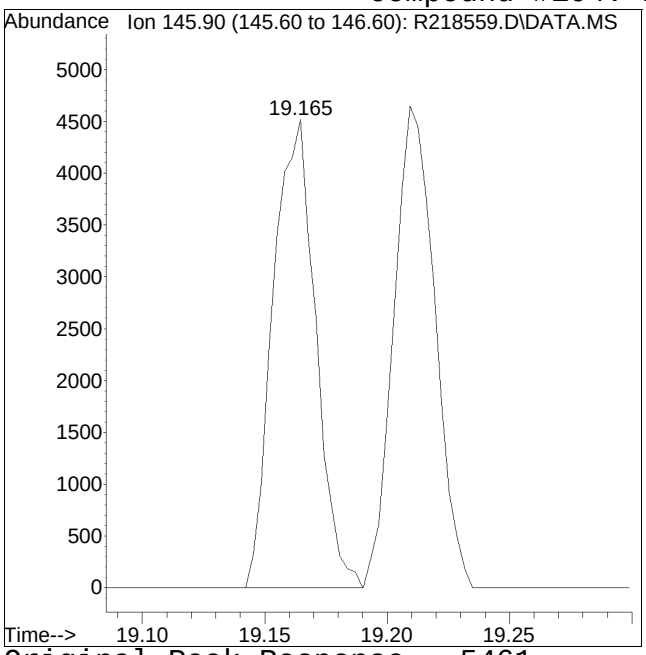
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

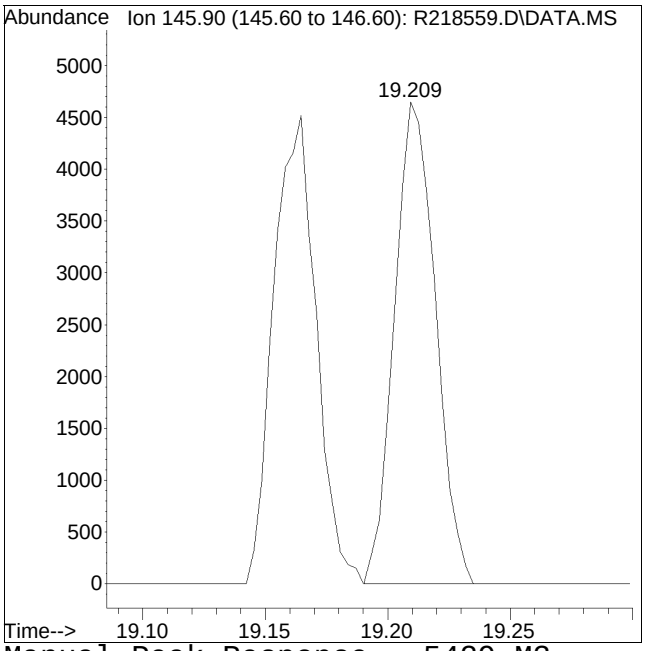
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218559.D
Date Inj'd : 12/21/2011 6:32 pm
Sample : ITO15-LLSTD0.2

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #104: 1,4-dichlorobenzene





Original Peak Response = 5461 Manual Peak Response = 5429 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.5
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:59:59 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	167668	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	479114	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	100926	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.234	65	194733	11.746	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.46%			
70) toluene-D8	15.246	98	476899	11.577	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.77%			
91) bromofluorobenzene	18.082	95	356335	11.683	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.83%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.211	51	11835	0.499	ppbV	95
3) propylene	4.248	41	5212M6	0.553	ppbV	
4) propane	4.275	29	5822	0.567	ppbV	96
5) dichlorodifluoromethane	4.345	85	21408	0.494	ppbV	97
6) chloromethane	4.571	50	6982	0.517	ppbV #	87
7) Freon-114	4.726	85	22927	0.510	ppbV	93
8) methanol	4.834	31	29321	2.649	ppbV #	86
9) vinyl chloride	4.893	62	7776	0.499	ppbV	97
10) 1,3-butadiene	5.097	54	5362	0.512	ppbV	88
11) butane	5.167	43	11521M4	0.459	ppbV	
12) acetaldehyde	4.764	29	9753	2.508	ppbV #	75
13) bromomethane	5.478	94	7969	0.511	ppbV	98
14) chloroethane	5.733	64	3505	0.516	ppbV #	86
15) ethanol	5.956	31	20528	2.365	ppbV	98
16) dichlorofluoromethane	5.886	67	19553	0.510	ppbV #	94
17) vinyl bromide	6.216	106	7755	0.503	ppbV	91
18) acrolein	6.415	56	2542	0.515	ppbV #	86
19) acetone	6.612	43	11270M3	0.617	ppbV	
20) acetonitrile	6.227	41	7742	0.679	ppbV	96
21) trichlorofluoromethane	6.794	101	22608	0.512	ppbV	90
22) isopropyl alcohol	6.977	45	10674	0.540	ppbV	98
23) acrylonitrile	7.205	53	4205	0.438	ppbV	86
24) pentane	7.271	43	12667	0.505	ppbV #	95
25) ethyl ether	7.348	31	7199	0.436	ppbV	95
26) 1,1-dichloroethene	7.624	61	12481	0.510	ppbV	96
27) tertiary butyl alcohol	7.797	59	12576	0.465	ppbV #	84
28) methylene chloride	7.791	49	10870	0.617	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.5
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:59:59 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	3-chloropropene	7.940	41	10059	0.531	ppbV		98
30)	carbon disulfide	8.123	76	21404	0.479	ppbV	#	11
31)	Freon 113	8.128	101	17041	0.517	ppbV		98
32)	trans-1,2-dichloroethene	8.957	61	15089	0.501	ppbV		92
33)	1,1-dichloroethane	9.190	63	13099	0.475	ppbV		100
34)	MTBE	9.312	73	14672	0.427	ppbV	#	95
35)	vinyl acetate	9.399	43	9661	0.390	ppbV	#	84
36)	2-butanone	9.702	43	11171	0.472	ppbV	#	95
37)	cis-1,2-dichloroethene	10.175	61	8207	0.382	ppbV		96
38)	Ethyl Acetate	10.475	61	1046	0.339	ppbV		84
39)	chloroform	10.526	83	14056	0.497	ppbV		89
40)	Tetrahydrofuran	11.006	42	5458	0.483	ppbV	#	86
41)	2,2-dichloropropane	10.552	77	12016	0.457	ppbV		94
42)	1,2-dichloroethane	11.355	62	8569	0.457	ppbV		94
44)	hexane	10.424	57	8833	0.500	ppbV	#	66
45)	diisopropyl ether	10.462	87	3343	0.405	ppbV	#	62
46)	tert-butyl ethyl ether	11.071	59	13003	0.407	ppbV	#	95
48)	1,1,1-trichloroethane	11.648	97	13822	0.506	ppbV		98
49)	1,1-dichloropropene	11.998	75	10231	0.519	ppbV	#	83
50)	benzene	12.161	78	17433	0.495	ppbV		99
51)	thiophene	12.311	84	10153	0.479	ppbV		97
52)	carbon tetrachloride	12.325	117	14583	0.487	ppbV		91
53)	cyclohexane	12.474	56	9647	0.537	ppbV		90
54)	tert-amyl methyl ether	12.851	73	12576	0.429	ppbV		94
55)	dibromomethane	13.051	93	8134	0.473	ppbV		83
56)	1,2-dichloropropane	13.082	63	6074	0.471	ppbV	#	91
57)	bromodichloromethane	13.296	83	12933	0.457	ppbV		99
58)	1,4-dioxane	13.388	88	3586	0.513	ppbV		85
59)	trichloroethene	13.342	130	9158	0.501	ppbV		89
60)	2,2,4-trimethylpentane	13.381	57	28720	0.491	ppbV		97
61)	heptane	13.669	43	10828	0.509	ppbV		95
62)	2,4,4-trimethyl-1-pentene	14.045	57	12665	0.429	ppbV		97
63)	cis-1,3-dichloropropene	14.310	75	7701	0.409	ppbV	#	67
64)	4-methyl-2-pentanone	14.384	43	10434	0.452	ppbV		98
65)	2,4,4-trimethyl-2-pentene	14.527	55	9070	0.502	ppbV		96
66)	trans-1,3-dichloropropene	14.878	75	7231	0.399	ppbV	#	79
67)	1,1,2-trichloroethane	15.068	97	6140	0.439	ppbV	#	81
69)	toluene	15.341	91	19554	0.430	ppbV		96
71)	2-methylthiophene	15.406	97	11988	0.355	ppbV	#	91
72)	1,3-dichloropropane	15.359	76	8236	0.382	ppbV	#	89
73)	2-hexanone	15.609	43	9655	0.431	ppbV		90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.5
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:59:59 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.581	97	12175	0.382	ppbV	#	92
75)	dibromochloromethane	15.746	129	11321	0.371	ppbV		94
76)	1,2-dibromoethane	15.979	107	10222	0.427	ppbV		94
77)	butyl acetate	16.153	73	1427	0.359	ppbV		84
78)	octane	16.228	85	5611	0.417	ppbV		95
79)	tetrachloroethene	16.377	166	12626	0.474	ppbV		97
80)	1,1,1,2-tetrachloroethane	16.925	131	9179	0.414	ppbV		93
81)	chlorobenzene	16.941	112	15603	0.433	ppbV		97
82)	ethylbenzene	17.238	91	19342	0.366	ppbV		92
83)	2-ethylthiophene	17.273	97	12916	0.363	ppbV		97
84)	m+p-xylene	17.365	91	30148	0.721	ppbV		98
85)	bromoform	17.451	173	11083	0.321	ppbV		89
86)	styrene	17.655	104	10614	0.339	ppbV		94
87)	1,1,2,2-tetrachloroethane	17.736	83	10937	0.346	ppbV		86
88)	o-xylene	17.741	91	15392	0.323	ppbV		93
89)	1,2,3-trichloropropane	17.838	75	10065	0.383	ppbV	#	87
90)	nonane	17.873	43	11936	0.356	ppbV	#	95
92)	isopropylbenzene	18.174	105	22313	0.369	ppbV		95
93)	bromobenzene	18.261	77	11896	0.353	ppbV	#	81
94)	2-chlorotoluene	18.542	126	6523	0.367	ppbV		98
95)	n-propylbenzene	18.552	120	5453	0.318	ppbV		91
96)	4-chlorotoluene	18.589	91	16009	0.344	ppbV		98
97)	4-ethyl toluene	18.656	105	18899	0.326	ppbV		97
98)	1,3,5-trimethylbenzene	18.706	105	15669	0.335	ppbV		98
99)	tert-butylbenzene	19.024	119	16662	0.303	ppbV		97
100)	1,2,4-trimethylbenzene	19.021	105	13748	0.286	ppbV		93
101)	decane	19.066	57	8439	0.267	ppbV	#	98
102)	Benzyl Chloride	19.142	91	9239	0.247	ppbV		99
103)	1,3-dichlorobenzene	19.158	146	12108M3	0.323	ppbV		
104)	1,4-dichlorobenzene	19.206	146	12209	0.330	ppbV		93
105)	sec-butylbenzene	19.225	105	22505	0.300	ppbV		97
106)	1,2,3-trimethylbenzene	19.353	105	9757	0.291	ppbV		92
107)	p-isopropyltoluene	19.344	119	17393	0.271	ppbV		99
108)	1,2-dichlorobenzene	19.478	146	11303	0.324	ppbV		91
109)	n-butylbenzene	19.670	91	14896	0.261	ppbV		97
110)	indan	19.523	117	11023	0.320	ppbV		97
111)	indene	19.597	115	8852	0.302	ppbV		98
112)	1,2-dibromo-3-chloropr...	19.838	75	3493	0.245	ppbV	#	69
113)	undecane	20.035	57	7534	0.257	ppbV		94
114)	1,2,4,5-tetramethylben...	20.283	119	4637	0.270	ppbV	#	95
115)	dodecane	20.943	57	6545	0.261	ppbV	#	79

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.5
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:59:59 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.943	180	7766	0.273	ppbV	97
117) naphthalene	21.063	128	15626	0.271	ppbV #	95
118) 1,2,3-trichlorobenzene	21.320	180	7702	0.269	ppbV	97
119) benzothiophene	21.131	134	6313	0.288	ppbV #	97
120) hexachlorobutadiene	21.371	225	8263	0.266	ppbV	97
121) 2-methylnaphthalene	22.225	142	3233	0.394	ppbV #	82
122) 1-methylnaphthalene	22.432	142	6048	0.488	ppbV	85

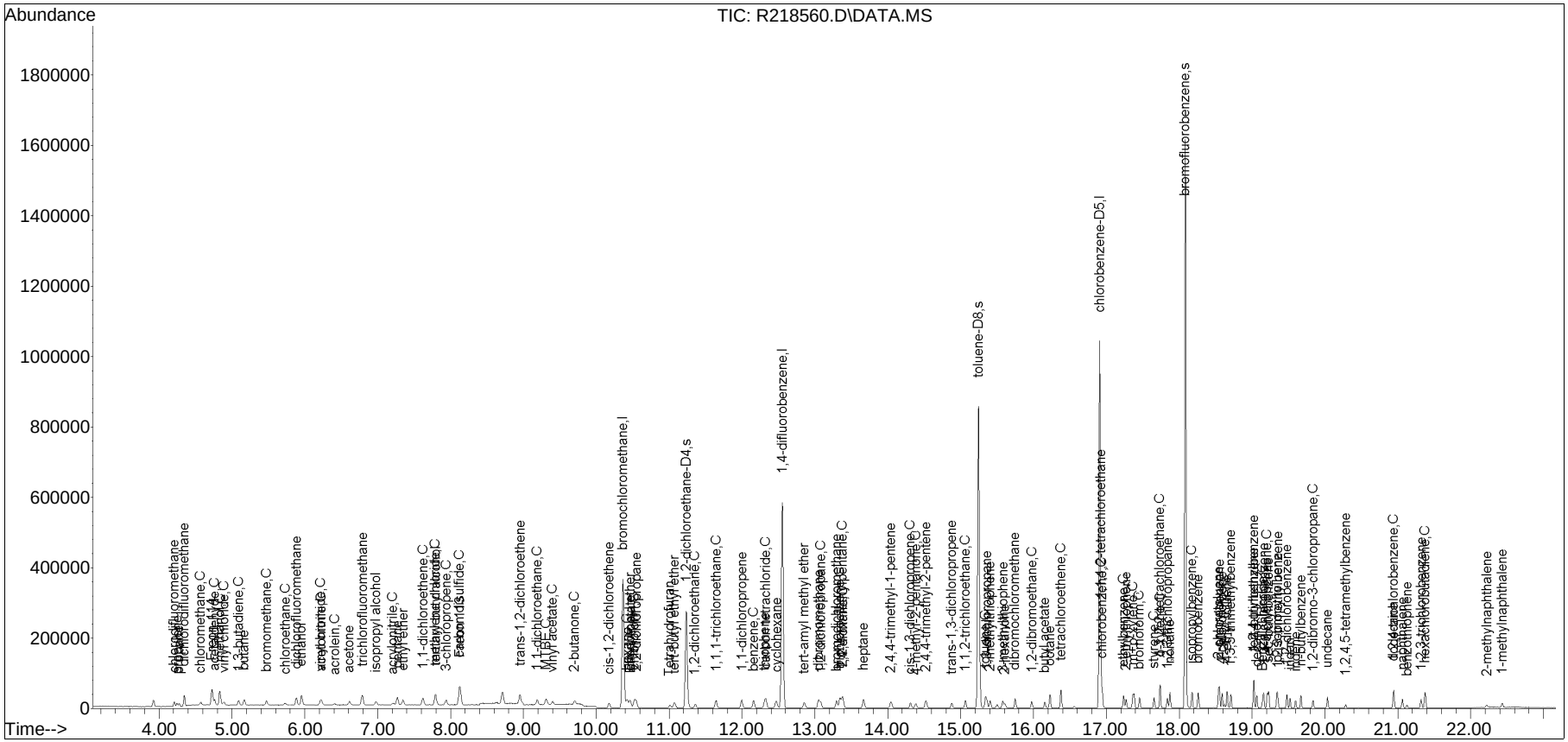
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218560.D
Acq On : 21 Dec 2011 7:09 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD0.5
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:59:59 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

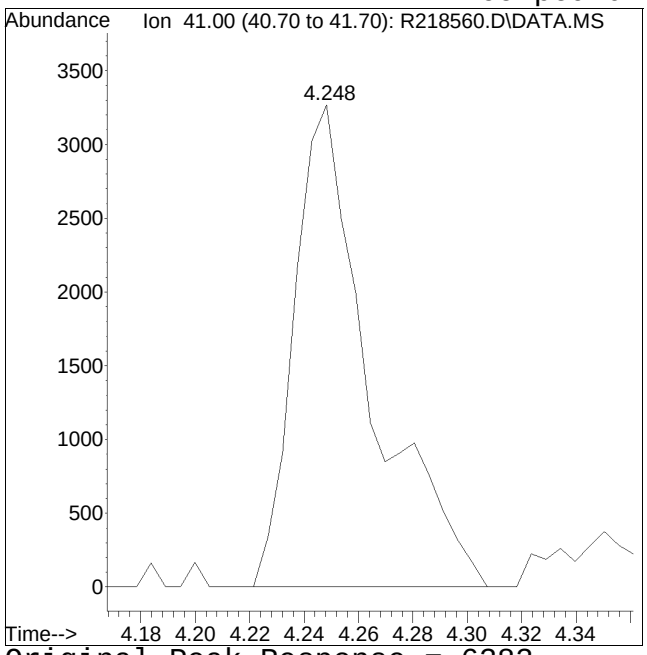
Sub List : Default - All compounds listed



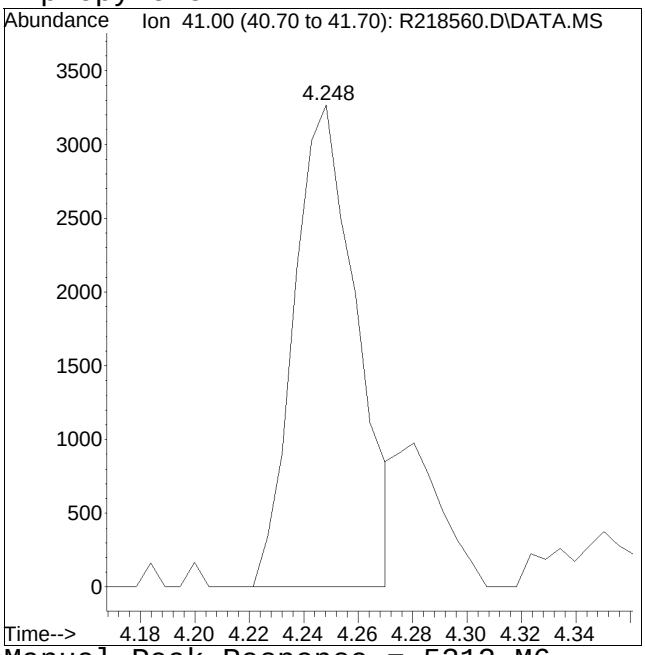
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218560.D
Date Inj'd : 12/21/2011 7:09 pm
Sample : ITO15-LLSTD0.5
Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #3: propylene



Original Peak Response = 6383



Manual Peak Response = 5212 M6

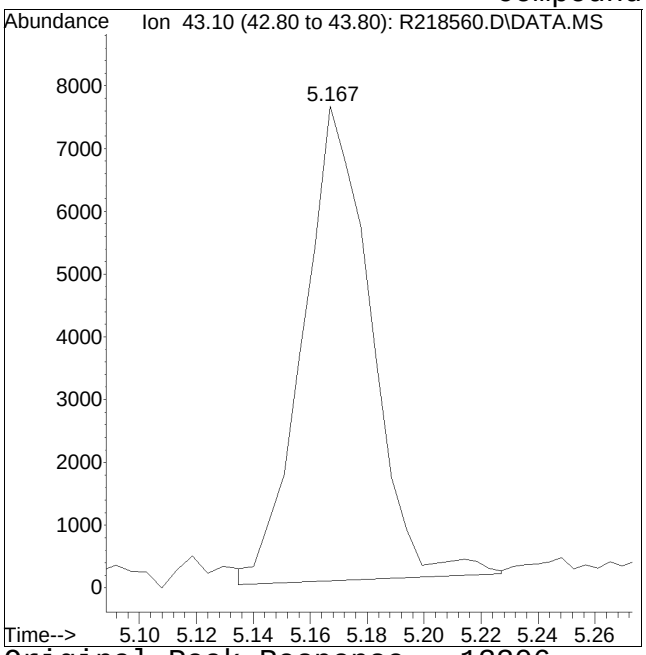
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

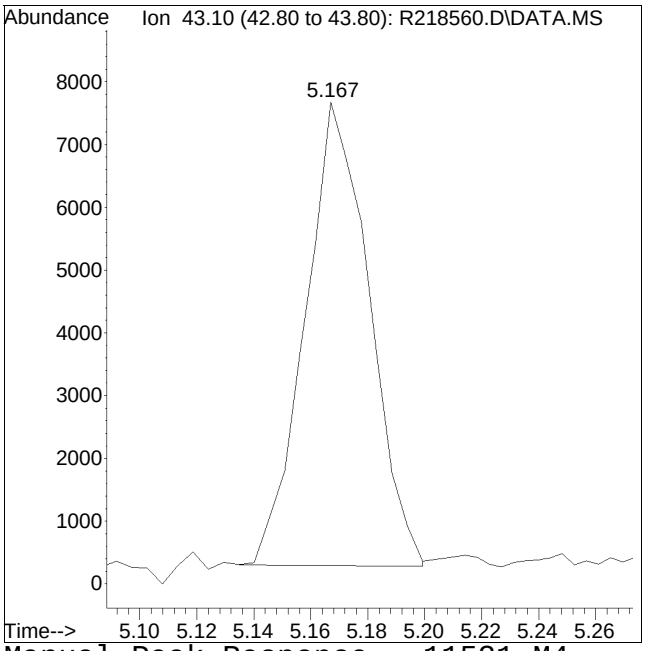
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218560.D
Date Inj'd : 12/21/2011 7:09 pm
Sample : ITO15-LLSTD0.5

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #11: butane



Original Peak Response = 13306



Manual Peak Response = 11521 M4

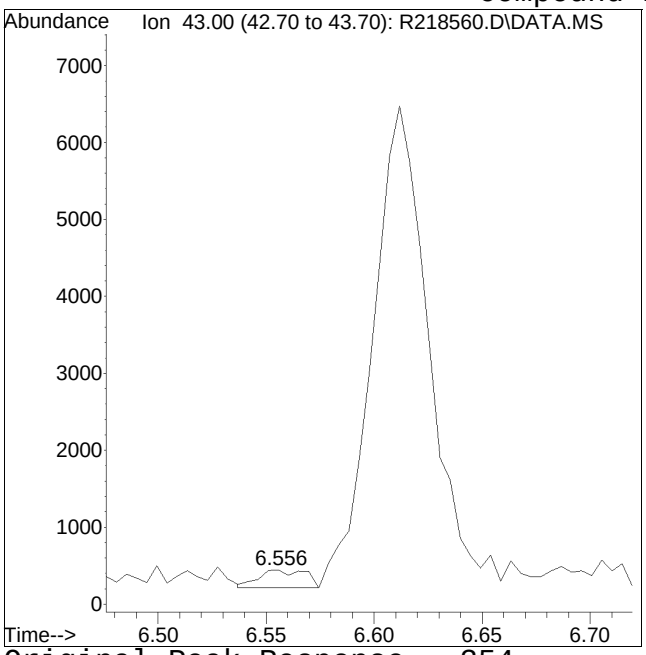
M4 = Poor automated baseline construction.

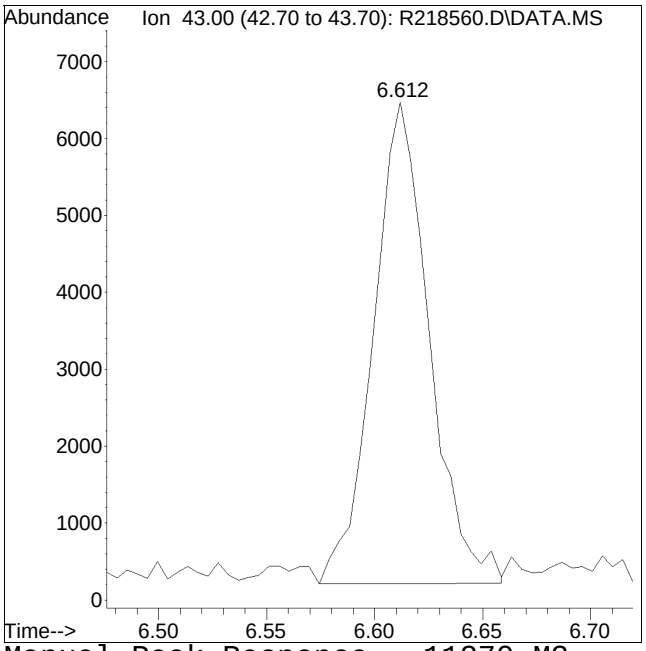
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218560.D
Date Inj'd : 12/21/2011 7:09 pm
Sample : ITO15-LLSTD0.5

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #19: acetone





Original Peak Response = 354 Manual Peak Response = 11270 M3

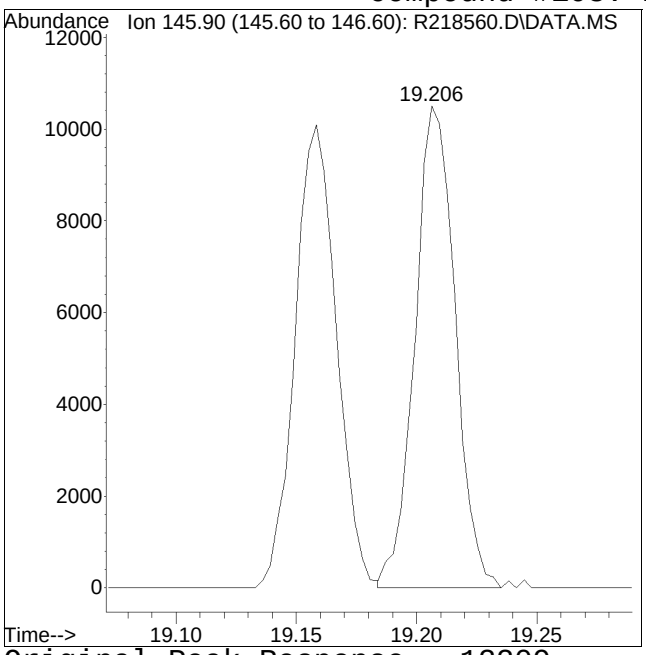
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

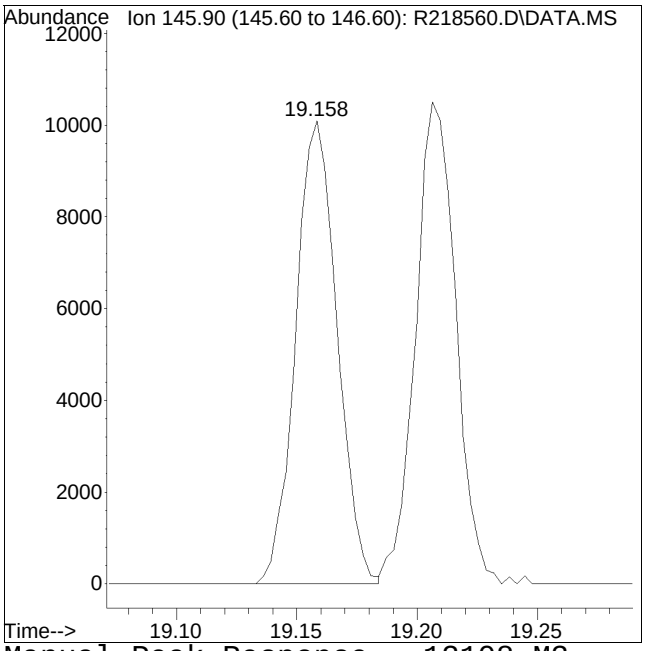
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218560.D
Date Inj'd : 12/21/2011 7:09 pm
Sample : ITO15-LLSTD0.5

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #103: 1,3-dichlorobenzene





Original Peak Response = 12209 Manual Peak Response = 12108 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD1.0
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:57:42 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.366	49	168588	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	478950	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	101272	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.234	65	223948	13.512	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 135.12%#			
70) toluene-D8	15.246	98	546435	13.220	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 132.20%#			
91) bromofluorobenzene	18.082	95	416597	13.612	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 136.12%#			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	22208	0.932	ppbV	96
3) propylene	4.248	41	9060M6	0.955	ppbV	
4) propane	4.275	29	10770	1.044	ppbV	97
5) dichlorodifluoromethane	4.345	85	40913	0.939	ppbV	98
6) chloromethane	4.570	50	12750	0.939	ppbV	100
7) Freon-114	4.726	85	43651	0.966	ppbV	94
8) methanol	4.828	31	57028	5.125	ppbV	91
9) vinyl chloride	4.887	62	14342	0.916	ppbV	92
10) 1,3-butadiene	5.092	54	9740	0.925	ppbV	92
11) butane	5.167	43	24463	0.970	ppbV	92
12) acetaldehyde	4.758	29	19160	4.900	ppbV	93
13) bromomethane	5.478	94	15318	0.978	ppbV	97
14) chloroethane	5.728	64	6614	0.969	ppbV	100
15) ethanol	5.950	31	42209	4.836	ppbV	100
16) dichlorofluoromethane	5.881	67	38283	0.993	ppbV #	95
17) vinyl bromide	6.216	106	14540	0.937	ppbV	99
18) acrolein	6.399	56	4583	0.924	ppbV #	82
19) acetone	6.607	43	19910	1.085	ppbV #	96
20) acetonitrile	6.227	41	17059	1.487	ppbV	99
21) trichlorofluoromethane	6.790	101	43487	0.980	ppbV	97
22) isopropyl alcohol	6.967	45	22422	1.128	ppbV #	98
23) acrylonitrile	7.205	53	8871	0.918	ppbV	97
24) pentane	7.271	43	27041	1.071	ppbV	98
25) ethyl ether	7.337	31	14552	0.877	ppbV #	87
26) 1,1-dichloroethene	7.618	61	25334	1.029	ppbV	96
27) tertiary butyl alcohol	7.785	59	26305	0.968	ppbV #	91
28) methylene chloride	7.791	49	18619	1.051	ppbV	84

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD1.0
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:57:42 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	3-chloropropene	7.935	41	19976	1.049	ppbV		95
30)	carbon disulfide	8.123	76	39859	0.887	ppbV	#	61
31)	Freon 113	8.128	101	33430	1.008	ppbV		91
32)	trans-1,2-dichloroethene	8.949	61	29669	0.980	ppbV		97
33)	1,1-dichloroethane	9.190	63	26422	0.953	ppbV		96
34)	MTBE	9.308	73	31583	0.913	ppbV	#	96
35)	vinyl acetate	9.395	43	21786	0.874	ppbV		98
36)	2-butanone	9.694	43	23781	0.998	ppbV	#	96
37)	cis-1,2-dichloroethene	10.175	61	18337	0.850	ppbV		89
38)	Ethyl Acetate	10.469	61	2557	0.824	ppbV	#	57
39)	chloroform	10.520	83	25474	0.896	ppbV		96
40)	Tetrahydrofuran	11.006	42	10869	0.957	ppbV		92
41)	2,2-dichloropropane	10.545	77	23526	0.890	ppbV		98
42)	1,2-dichloroethane	11.359	62	17225	0.913	ppbV		96
44)	hexane	10.424	57	17897	1.012	ppbV	#	73
45)	diisopropyl ether	10.449	87	8104	0.982	ppbV	#	83
46)	tert-butyl ethyl ether	11.066	59	30834	0.965	ppbV	#	96
48)	1,1,1-trichloroethane	11.642	97	27086	0.993	ppbV		96
49)	1,1-dichloropropene	11.998	75	19393	0.984	ppbV	#	86
50)	benzene	12.154	78	34656	0.985	ppbV		98
51)	thiophene	12.311	84	19004	0.896	ppbV		95
52)	carbon tetrachloride	12.331	117	28610	0.957	ppbV		95
53)	cyclohexane	12.467	56	18972	1.057	ppbV		90
54)	tert-amyl methyl ether	12.844	73	27764	0.947	ppbV		95
55)	dibromomethane	13.051	93	16680	0.971	ppbV		89
56)	1,2-dichloropropane	13.081	63	11988	0.930	ppbV	#	86
57)	bromodichloromethane	13.296	83	25878	0.915	ppbV		97
58)	1,4-dioxane	13.373	88	6357	0.909	ppbV		82
59)	trichloroethene	13.342	130	18232	0.997	ppbV		96
60)	2,2,4-trimethylpentane	13.380	57	57035	0.975	ppbV		92
61)	heptane	13.668	43	21101	0.992	ppbV		99
62)	2,4,4-trimethyl-1-pentene	14.045	57	26841	0.910	ppbV		98
63)	cis-1,3-dichloropropene	14.314	75	16977	0.903	ppbV		91
64)	4-methyl-2-pentanone	14.370	43	22819	0.988	ppbV		97
65)	2,4,4-trimethyl-2-pentene	14.521	55	15814	0.875	ppbV		92
66)	trans-1,3-dichloropropene	14.878	75	16028	0.885	ppbV	#	83
67)	1,1,2-trichloroethane	15.062	97	13346	0.956	ppbV		97
69)	toluene	15.341	91	40320	0.885	ppbV		98
71)	2-methylthiophene	15.406	97	26087	0.771	ppbV	#	97
72)	1,3-dichloropropane	15.359	76	17519	0.810	ppbV		96
73)	2-hexanone	15.597	43	21358	0.949	ppbV		89

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD1.0
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:57:42 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.575	97	26716	0.836	ppbV	#	93
75)	dibromochloromethane	15.752	129	24270	0.792	ppbV		97
76)	1,2-dibromoethane	15.974	107	21636	0.901	ppbV		90
77)	butyl acetate	16.148	73	3223	0.807	ppbV		89
78)	octane	16.223	85	11405	0.844	ppbV	#	98
79)	tetrachloroethene	16.377	166	23264	0.870	ppbV		96
80)	1,1,1,2-tetrachloroethane	16.930	131	18873	0.848	ppbV		99
81)	chlorobenzene	16.941	112	31384	0.868	ppbV		97
82)	ethylbenzene	17.238	91	44468	0.839	ppbV		94
83)	2-ethylthiophene	17.268	97	28762	0.805	ppbV		98
84)	m+p-xylene	17.365	91	69317	1.653	ppbV		96
85)	bromoform	17.456	173	23799	0.688	ppbV		96
86)	styrene	17.654	104	25444	0.809	ppbV		97
87)	1,1,2,2-tetrachloroethane	17.736	83	24963	0.788	ppbV		97
88)	o-xylene	17.736	91	36333	0.759	ppbV		100
89)	1,2,3-trichloropropane	17.837	75	22079	0.837	ppbV	#	89
90)	nonane	17.873	43	26438	0.786	ppbV	#	94
92)	isopropylbenzene	18.174	105	50046	0.824	ppbV		96
93)	bromobenzene	18.261	77	26757	0.792	ppbV		96
94)	2-chlorotoluene	18.541	126	13460	0.754	ppbV		88
95)	n-propylbenzene	18.555	120	12333	0.716	ppbV		85
96)	4-chlorotoluene	18.592	91	34501	0.739	ppbV		99
97)	4-ethyl toluene	18.659	105	43527	0.748	ppbV		97
98)	1,3,5-trimethylbenzene	18.713	105	35599	0.758	ppbV		97
99)	tert-butylbenzene	19.027	119	39475	0.716	ppbV		100
100)	1,2,4-trimethylbenzene	19.027	105	32931	0.683	ppbV		87
101)	decane	19.069	57	21740	0.685	ppbV	#	89
102)	Benzyl Chloride	19.149	91	23069	0.616	ppbV		100
103)	1,3-dichlorobenzene	19.165	146	27490	0.730	ppbV		98
104)	1,4-dichlorobenzene	19.213	146	27341	0.737	ppbV		96
105)	sec-butylbenzene	19.232	105	53739	0.715	ppbV		98
106)	1,2,3-trimethylbenzene	19.360	105	23383	0.695	ppbV		97
107)	p-isopropyltoluene	19.344	119	43719	0.678	ppbV		98
108)	1,2-dichlorobenzene	19.481	146	25332	0.725	ppbV		99
109)	n-butylbenzene	19.673	91	37865	0.660	ppbV		97
110)	indan	19.526	117	24413	0.707	ppbV		98
111)	indene	19.600	115	20871	0.710	ppbV		97
112)	1,2-dibromo-3-chloropr...	19.838	75	8910	0.624	ppbV	#	85
113)	undecane	20.035	57	18700	0.636	ppbV		93
114)	1,2,4,5-tetramethylben...	20.292	119	11501	0.667	ppbV	#	95
115)	dodecane	20.943	57	15618	0.620	ppbV		93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD1.0
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:57:42 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.943	180	17799	0.625 ppbV #	92
117) naphthalene	21.063	128	35293	0.610 ppbV #	94
118) 1,2,3-trichlorobenzene	21.320	180	17105	0.596 ppbV	92
119) benzothiophene	21.131	134	15676	0.713 ppbV #	94
120) hexachlorobutadiene	21.380	225	19920	0.638 ppbV	97
121) 2-methylnaphthalene	22.224	142	7079	0.860 ppbV	86
122) 1-methylnaphthalene	22.435	142	12364	0.993 ppbV	87

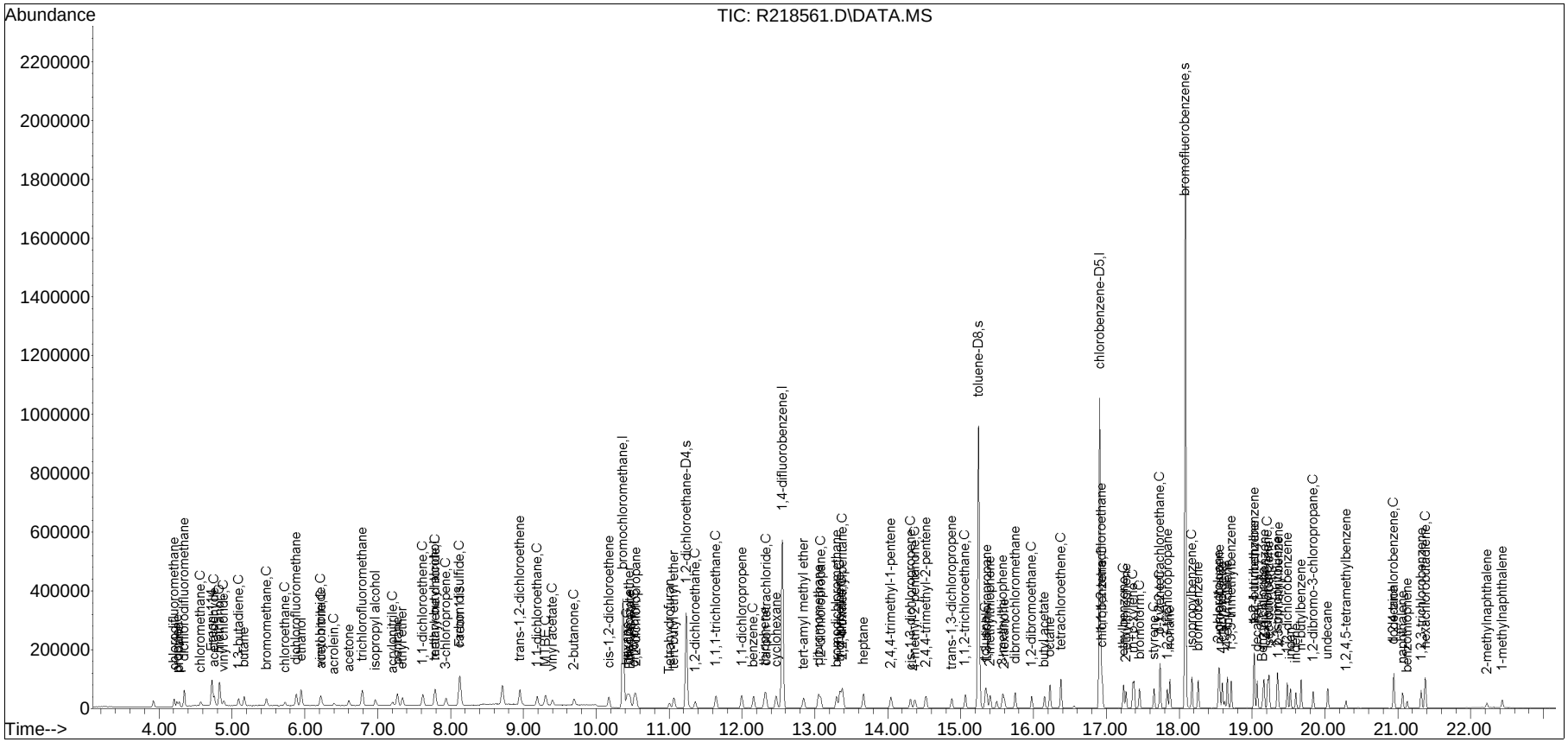
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218561.D
Acq On : 21 Dec 2011 7:47 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD1.0
Misc : wg509913
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 08:57:42 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

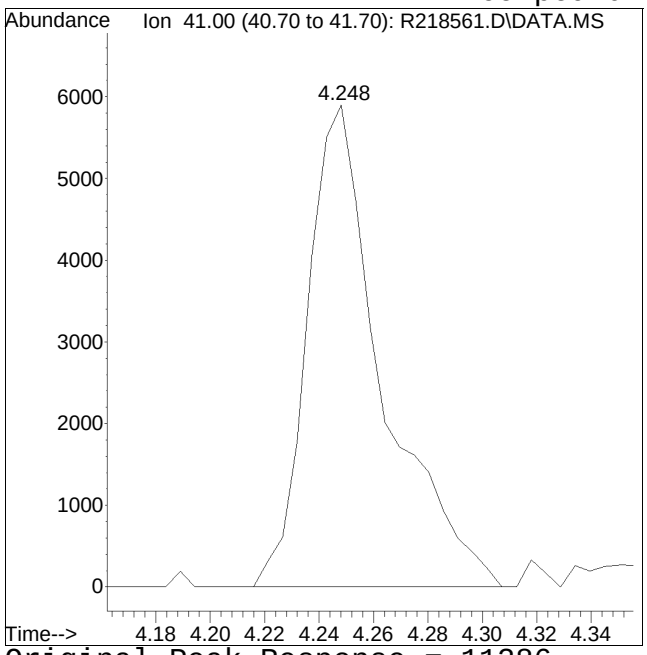


Manual Integration/Negative Proof Report

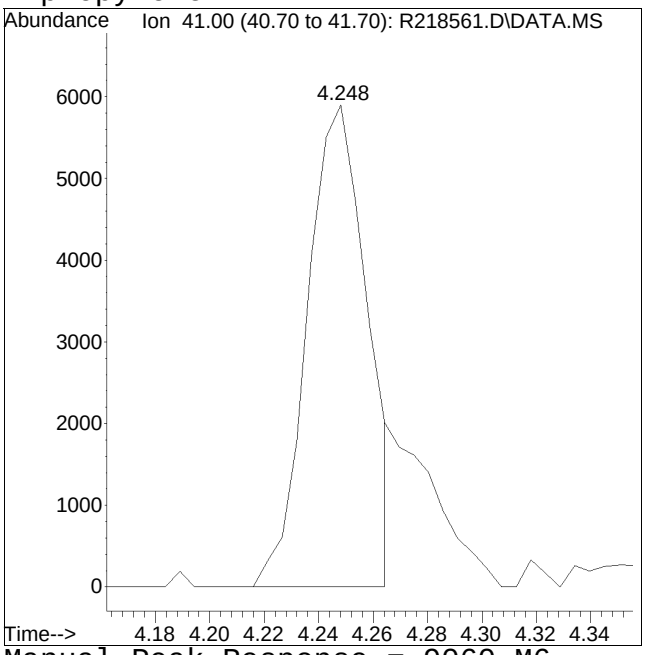
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218561.D
Date Inj'd : 12/21/2011 7:47 pm
Sample : ITO15-LLSTD1.0

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #3: propylene



Original Peak Response = 11286



Manual Peak Response = 9060 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD2.5
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:56:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	172268	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	505683	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	108016	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.234	65	263731	15.071	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 150.71%#			
70) toluene-D8	15.246	98	634352	14.389	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 143.89%#			
91) bromofluorobenzene	18.082	95	468228	14.344	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 143.44%#			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.211	51	51365	2.109	ppbV	96
3) propylene	4.248	41	21961M6	2.266	ppbV	
4) propane	4.280	29	24071	2.283	ppbV	96
5) dichlorodifluoromethane	4.345	85	98575	2.213	ppbV	98
6) chloromethane	4.571	50	29634	2.136	ppbV	95
7) Freon-114	4.726	85	102939	2.230	ppbV	94
8) methanol	4.828	31	133572	11.747	ppbV	94
9) vinyl chloride	4.893	62	34348	2.147	ppbV	100
10) 1,3-butadiene	5.092	54	22929	2.131	ppbV	93
11) butane	5.172	43	63000	2.444	ppbV	98
12) acetaldehyde	4.759	29	41303	10.337	ppbV	97
13) bromomethane	5.473	94	34701	2.167	ppbV	98
14) chloroethane	5.729	64	15179	2.175	ppbV	99
15) ethanol	5.945	31	103367	11.589	ppbV	98
16) dichlorofluoromethane	5.882	67	84960	2.156	ppbV #	99
17) vinyl bromide	6.211	106	33196	2.094	ppbV	99
18) acrolein	6.399	56	8661	1.708	ppbV #	83
19) acetone	6.593	43	39782	2.121	ppbV #	98
20) acetonitrile	6.222	41	24144	2.060	ppbV	96
21) trichlorofluoromethane	6.790	101	101104	2.229	ppbV	97
22) isopropyl alcohol	6.958	45	44823	2.208	ppbV	100
23) acrylonitrile	7.200	53	19293	1.954	ppbV	98
24) pentane	7.271	43	57593	2.233	ppbV	97
25) ethyl ether	7.332	31	32553	1.920	ppbV	97
26) 1,1-dichloroethene	7.618	61	56046	2.228	ppbV	97
27) tertiary butyl alcohol	7.761	59	61053	2.199	ppbV	95
28) methylene chloride	7.791	49	41889	2.313	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD2.5
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:56:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	3-chloropropene	7.935	41	42522	2.186	ppbV		96
30)	carbon disulfide	8.118	76	101913	2.220	ppbV	#	86
31)	Freon 113	8.128	101	72469	2.138	ppbV		92
32)	trans-1,2-dichloroethene	8.949	61	68755	2.224	ppbV		98
33)	1,1-dichloroethane	9.190	63	60547	2.137	ppbV		100
34)	MTBE	9.293	73	70910	2.007	ppbV		99
35)	vinyl acetate	9.396	43	44973	1.766	ppbV		97
36)	2-butanone	9.684	43	50463	2.073	ppbV		99
37)	cis-1,2-dichloroethene	10.175	61	37703	1.710	ppbV		96
38)	Ethyl Acetate	10.462	61	5819	1.834	ppbV		67
39)	chloroform	10.520	83	60295	2.077	ppbV		98
40)	Tetrahydrofuran	10.992	42	23004	1.983	ppbV		99
41)	2,2-dichloropropane	10.545	77	55766	2.065	ppbV		96
42)	1,2-dichloroethane	11.359	62	40546	2.103	ppbV		95
44)	hexane	10.424	57	39641	2.124	ppbV		91
45)	diisopropyl ether	10.443	87	18177	2.085	ppbV		89
46)	tert-butyl ethyl ether	11.057	59	69665	2.064	ppbV		96
48)	1,1,1-trichloroethane	11.643	97	61970	2.151	ppbV		98
49)	1,1-dichloropropene	11.998	75	45690	2.195	ppbV		91
50)	benzene	12.161	78	79156	2.130	ppbV		100
51)	thiophene	12.311	84	47693	2.130	ppbV		94
52)	carbon tetrachloride	12.325	117	66392	2.102	ppbV		98
53)	cyclohexane	12.468	56	42499	2.243	ppbV		94
54)	tert-amyl methyl ether	12.836	73	62831	2.030	ppbV		93
55)	dibromomethane	13.051	93	39289	2.166	ppbV		92
56)	1,2-dichloropropane	13.081	63	26994	1.984	ppbV	#	92
57)	bromodichloromethane	13.296	83	61709	2.068	ppbV		94
58)	1,4-dioxane	13.358	88	15106	2.046	ppbV		89
59)	trichloroethene	13.342	130	41134	2.130	ppbV		97
60)	2,2,4-trimethylpentane	13.381	57	129048	2.089	ppbV		92
61)	heptane	13.668	43	48032	2.138	ppbV		95
62)	2,4,4-trimethyl-1-pentene	14.045	57	64433	2.069	ppbV		94
63)	cis-1,3-dichloropropene	14.310	75	38008	1.915	ppbV	#	89
64)	4-methyl-2-pentanone	14.366	43	51698	2.121	ppbV		99
65)	2,4,4-trimethyl-2-pentene	14.527	55	41447	2.173	ppbV		100
66)	trans-1,3-dichloropropene	14.878	75	35686	1.866	ppbV	#	89
67)	1,1,2-trichloroethane	15.068	97	30434	2.064	ppbV		96
69)	toluene	15.341	91	90139	1.854	ppbV		99
71)	2-methylthiophene	15.406	97	69137	1.915	ppbV	#	97
72)	1,3-dichloropropane	15.365	76	40733	1.766	ppbV		96
73)	2-hexanone	15.592	43	49047	2.044	ppbV		93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD2.5
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:56:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 3-methylthiophene	15.575	97	63728	1.869	ppbV	96
75) dibromochloromethane	15.752	129	58020	1.776	ppbV	98
76) 1,2-dibromoethane	15.976	107	48400	1.890	ppbV	95
77) butyl acetate	16.148	73	7921	1.860	ppbV	90
78) octane	16.228	85	28358	1.968	ppbV #	98
79) tetrachloroethene	16.377	166	57713	2.023	ppbV	91
80) 1,1,1,2-tetrachloroethane	16.925	131	45570	1.920	ppbV	93
81) chlorobenzene	16.947	112	72044	1.868	ppbV	99
82) ethylbenzene	17.238	91	100228	1.773	ppbV	100
83) 2-ethylthiophene	17.268	97	67213	1.764	ppbV	98
84) m+p-xylene	17.380	91	156811	3.506	ppbV	99
85) bromoform	17.456	173	58313	1.580	ppbV	96
86) styrene	17.654	104	56497	1.685	ppbV	97
87) 1,1,2,2-tetrachloroethane	17.736	83	59186	1.751	ppbV	99
88) o-xylene	17.736	91	79268	1.552	ppbV	97
89) 1,2,3-trichloropropane	17.833	75	51919	1.846	ppbV #	91
90) nonane	17.873	43	63189	1.762	ppbV #	99
92) isopropylbenzene	18.174	105	115813	1.788	ppbV	100
93) bromobenzene	18.261	77	65414	1.814	ppbV	86
94) 2-chlorotoluene	18.538	126	33520	1.760	ppbV	96
95) n-propylbenzene	18.552	120	31070	1.691	ppbV	94
96) 4-chlorotoluene	18.588	91	84871	1.704	ppbV	98
97) 4-ethyl toluene	18.656	105	106420	1.714	ppbV	98
98) 1,3,5-trimethylbenzene	18.706	105	87692	1.751	ppbV	96
99) tert-butylbenzene	19.021	119	97428	1.657	ppbV	98
100) 1,2,4-trimethylbenzene	19.024	105	83365	1.622	ppbV	96
101) decane	19.062	57	54164	1.601	ppbV	94
102) Benzyl Chloride	19.139	91	58281	1.458	ppbV	99
103) 1,3-dichlorobenzene	19.155	146	64555	1.607	ppbV	97
104) 1,4-dichlorobenzene	19.206	146	63101	1.594	ppbV	96
105) sec-butylbenzene	19.225	105	132920	1.658	ppbV	99
106) 1,2,3-trimethylbenzene	19.353	105	60777	1.694	ppbV	95
107) p-isopropyltoluene	19.341	119	113852	1.656	ppbV	98
108) 1,2-dichlorobenzene	19.475	146	60635	1.626	ppbV	99
109) n-butylbenzene	19.667	91	99512	1.627	ppbV	97
110) indan	19.520	117	60634	1.647	ppbV	99
111) indene	19.597	115	51063	1.629	ppbV	99
112) 1,2-dibromo-3-chloropr...	19.829	75	23680	1.555	ppbV #	83
113) undecane	20.035	57	47936	1.529	ppbV	98
114) 1,2,4,5-tetramethylben...	20.283	119	35228	1.914	ppbV #	97
115) dodecane	20.943	57	40447	1.506	ppbV	90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD2.5
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:56:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.934	180	43649	1.436 ppbV	94
117) naphthalene	21.063	128	91802	1.487 ppbV #	95
118) 1,2,3-trichlorobenzene	21.320	180	46534	1.520 ppbV	95
119) benzothiophene	21.123	134	31897	1.359 ppbV #	96
120) hexachlorobutadiene	21.371	225	50308	1.511 ppbV	98
121) 2-methylnaphthalene	22.219	142	23799	2.711 ppbV	96
122) 1-methylnaphthalene	22.429	142	32962	2.483 ppbV	99

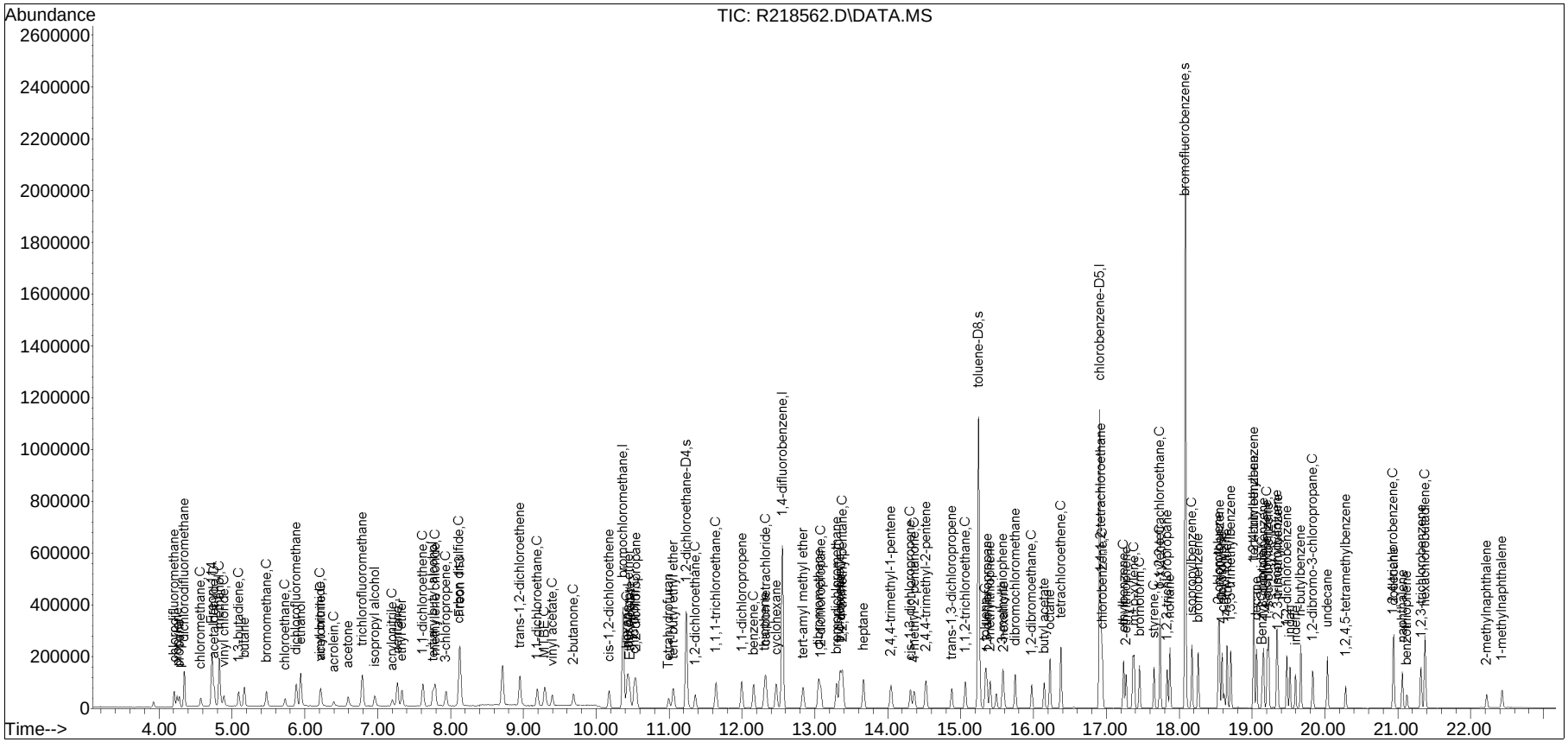
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218562.D
Acq On : 21 Dec 2011 8:23 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD2.5
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:56:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

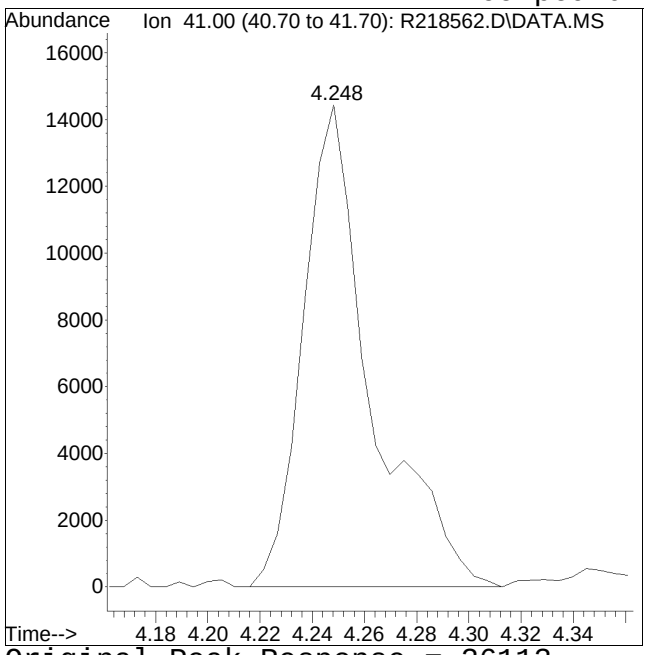


Manual Integration/Negative Proof Report

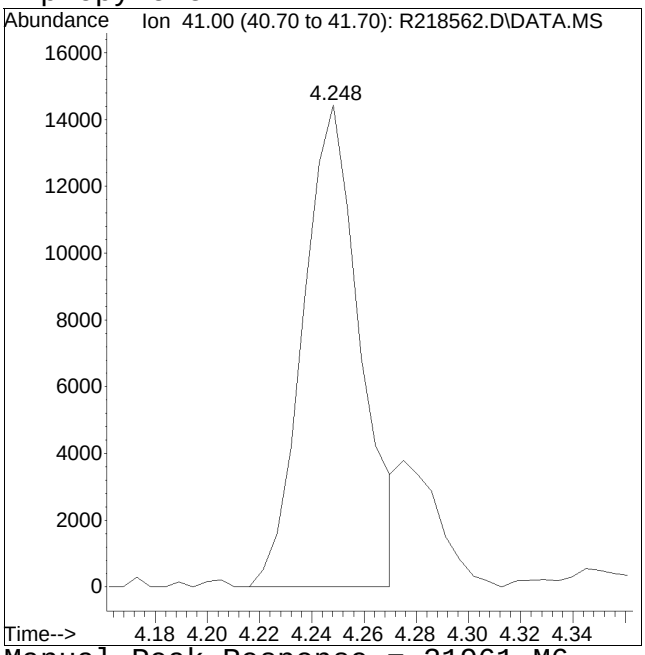
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218562.D
Date Inj'd : 12/21/2011 8:23 pm
Sample : ITO15-LLSTD2.5

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:47 am

Compound #3: propylene



Original Peak Response = 26113



Manual Peak Response = 21961 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD5.0
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:55:13 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	173128	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	522876	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	111523	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.234	65	196714	10.872	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.72%			
70) toluene-D8	15.246	98	482346	10.597	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.97%			
91) bromofluorobenzene	18.082	95	378510	11.231	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.31%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	121763	4.974	ppbV	94
3) propylene	4.248	41	44340M6	4.553	ppbV	
4) propane	4.281	29	49365	4.659	ppbV	94
5) dichlorodifluoromethane	4.345	85	210601	4.704	ppbV	98
6) chloromethane	4.571	50	66941	4.800	ppbV	93
7) Freon-114	4.726	85	231854	4.997	ppbV	94
8) methanol	4.823	31	319425	27.952	ppbV	94
9) vinyl chloride	4.888	62	75072	4.669	ppbV	100
10) 1,3-butadiene	5.092	54	52774	4.879	ppbV	98
11) butane	5.167	43	124457	4.804	ppbV	97
12) acetaldehyde	4.753	29	96415	24.010	ppbV	91
13) bromomethane	5.474	94	78818	4.898	ppbV	94
14) chloroethane	5.729	64	35351	5.041	ppbV	100
15) ethanol	5.934	31	235190	26.238	ppbV	99
16) dichlorofluoromethane	5.882	67	205114	5.180	ppbV #	99
17) vinyl bromide	6.211	106	78724	4.941	ppbV	99
18) acrolein	6.394	56	25468	4.998	ppbV	94
19) acetone	6.579	43	99041	5.255	ppbV	99
20) acetonitrile	6.211	41	65401	5.551	ppbV	98
21) trichlorofluoromethane	6.790	101	231386	5.076	ppbV	99
22) isopropyl alcohol	6.944	45	102778	5.037	ppbV	100
23) acrylonitrile	7.195	53	49695	5.008	ppbV	97
24) pentane	7.271	43	131787	5.084	ppbV	99
25) ethyl ether	7.322	31	88941	5.219	ppbV	95
26) 1,1-dichloroethene	7.618	61	129957	5.140	ppbV	98
27) tertiary butyl alcohol	7.737	59	137702	4.934	ppbV	97
28) methylene chloride	7.791	49	93365	5.130	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD5.0
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:55:13 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 3-chloropropene	7.940	41	99340	5.082	ppbV	95
30) carbon disulfide	8.119	76	221354	4.799	ppbV	96
31) Freon 113	8.128	101	172614	5.067	ppbV	93
32) trans-1,2-dichloroethene	8.949	61	156738	5.044	ppbV	99
33) 1,1-dichloroethane	9.190	63	139511	4.900	ppbV	96
34) MTBE	9.281	73	178139	5.017	ppbV	98
35) vinyl acetate	9.392	43	134972	5.274	ppbV	97
36) 2-butanone	9.674	43	129425	5.290	ppbV	99
37) cis-1,2-dichloroethene	10.175	61	110310	4.978	ppbV	98
38) Ethyl Acetate	10.456	61	16852	5.286	ppbV	75
39) chloroform	10.520	83	140328	4.809	ppbV	97
40) Tetrahydrofuran	10.983	42	61111	5.242	ppbV	97
41) 2,2-dichloropropane	10.545	77	129519	4.773	ppbV	92
42) 1,2-dichloroethane	11.359	62	95504	4.929	ppbV	99
44) hexane	10.424	57	94892	4.917	ppbV #	74
45) diisopropyl ether	10.437	87	44281	4.913	ppbV #	91
46) tert-butyl ethyl ether	11.048	59	175071	5.017	ppbV	99
48) 1,1,1-trichloroethane	11.646	97	144502	4.851	ppbV	97
49) 1,1-dichloropropene	11.998	75	107019	4.973	ppbV	92
50) benzene	12.161	78	185991	4.841	ppbV	99
51) thiophene	12.311	84	110139	4.756	ppbV	97
52) carbon tetrachloride	12.325	117	158430	4.852	ppbV	97
53) cyclohexane	12.468	56	98532	5.029	ppbV	98
54) tert-amyl methyl ether	12.828	73	157427	4.918	ppbV	97
55) dibromomethane	13.051	93	93021	4.960	ppbV	88
56) 1,2-dichloropropane	13.082	63	64515	4.586	ppbV #	91
57) bromodichloromethane	13.296	83	144097	4.669	ppbV	99
58) 1,4-dioxane	13.342	88	38050	4.984	ppbV #	78
59) trichloroethene	13.342	130	95965	4.806	ppbV	92
60) 2,2,4-trimethylpentane	13.381	57	305419	4.783	ppbV	92
61) heptane	13.669	43	111065	4.782	ppbV	98
62) 2,4,4-trimethyl-1-pentene	14.045	57	150304	4.668	ppbV	95
63) cis-1,3-dichloropropene	14.314	75	96088	4.682	ppbV	94
64) 4-methyl-2-pentanone	14.352	43	122540	4.862	ppbV	96
65) 2,4,4-trimethyl-2-pentene	14.522	55	90669	4.596	ppbV	95
66) trans-1,3-dichloropropene	14.878	75	93700	4.738	ppbV	93
67) 1,1,2-trichloroethane	15.062	97	73153	4.798	ppbV	95
69) toluene	15.341	91	224092	4.464	ppbV	98
71) 2-methylthiophene	15.406	97	163996	4.399	ppbV	98
72) 1,3-dichloropropane	15.365	76	104120	4.373	ppbV #	95
73) 2-hexanone	15.581	43	116394	4.698	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD5.0
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:55:13 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.576	97	158971	4.516	ppbV		98
75)	dibromochloromethane	15.752	129	152171	4.511	ppbV		100
76)	1,2-dibromoethane	15.976	107	121287	4.588	ppbV		93
77)	butyl acetate	16.139	73	21008	4.778	ppbV		91
78)	octane	16.228	85	68066	4.575	ppbV		98
79)	tetrachloroethene	16.377	166	134228	4.558	ppbV		94
80)	1,1,1,2-tetrachloroethane	16.930	131	114551	4.675	ppbV		99
81)	chlorobenzene	16.947	112	179362	4.505	ppbV		98
82)	ethylbenzene	17.238	91	276337	4.735	ppbV		99
83)	2-ethylthiophene	17.268	97	177691	4.517	ppbV		94
84)	m+p-xylene	17.365	91	437558	9.475	ppbV		100
85)	bromoform	17.456	173	158043	4.148	ppbV		98
86)	styrene	17.655	104	159571	4.609	ppbV		98
87)	1,1,2,2-tetrachloroethane	17.736	83	164391	4.711	ppbV		100
88)	o-xylene	17.736	91	248027	4.703	ppbV		99
89)	1,2,3-trichloropropane	17.833	75	142242	4.899	ppbV		94
90)	nonane	17.873	43	164786	4.451	ppbV		100
92)	isopropylbenzene	18.174	105	324043	4.845	ppbV		99
93)	bromobenzene	18.261	77	171041	4.595	ppbV		89
94)	2-chlorotoluene	18.538	126	91980	4.677	ppbV		97
95)	n-propylbenzene	18.552	120	90328	4.762	ppbV		98
96)	4-chlorotoluene	18.589	91	237650	4.621	ppbV		98
97)	4-ethyl toluene	18.656	105	311890	4.865	ppbV		99
98)	1,3,5-trimethylbenzene	18.706	105	255597	4.942	ppbV		98
99)	tert-butylbenzene	19.021	119	285268	4.700	ppbV		100
100)	1,2,4-trimethylbenzene	19.021	105	245883	4.634	ppbV		97
101)	decane	19.062	57	162131	4.642	ppbV		96
102)	Benzyl Chloride	19.139	91	183650	4.450	ppbV		99
103)	1,3-dichlorobenzene	19.155	146	184919	4.458	ppbV		96
104)	1,4-dichlorobenzene	19.206	146	184096	4.504	ppbV		96
105)	sec-butylbenzene	19.226	105	393504	4.754	ppbV		99
106)	1,2,3-trimethylbenzene	19.350	105	179065	4.834	ppbV		98
107)	p-isopropyltoluene	19.337	119	335619	4.729	ppbV		100
108)	1,2-dichlorobenzene	19.475	146	178029	4.624	ppbV		99
109)	n-butylbenzene	19.667	91	303156	4.802	ppbV		99
110)	indan	19.520	117	177490	4.669	ppbV		97
111)	indene	19.593	115	154982	4.789	ppbV		96
112)	1,2-dibromo-3-chloropr...	19.829	75	70915	4.510	ppbV		96
113)	undecane	20.035	57	152866	4.722	ppbV		99
114)	1,2,4,5-tetramethylben...	20.283	119	102225	5.381	ppbV	#	98
115)	dodecane	20.943	57	110325	3.978	ppbV		93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD5.0
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:55:13 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.934	180	130169	4.148	ppbV	97
117) naphthalene	21.063	128	274555	4.306	ppbV	98
118) 1,2,3-trichlorobenzene	21.311	180	134230	4.247	ppbV	98
119) benzothiophene	21.123	134	92755	3.829	ppbV	98
120) hexachlorobutadiene	21.371	225	149983	4.363	ppbV	95
121) 2-methylnaphthalene	22.219	142	61419	6.775	ppbV	97
122) 1-methylnaphthalene	22.427	142	80982	5.908	ppbV	98

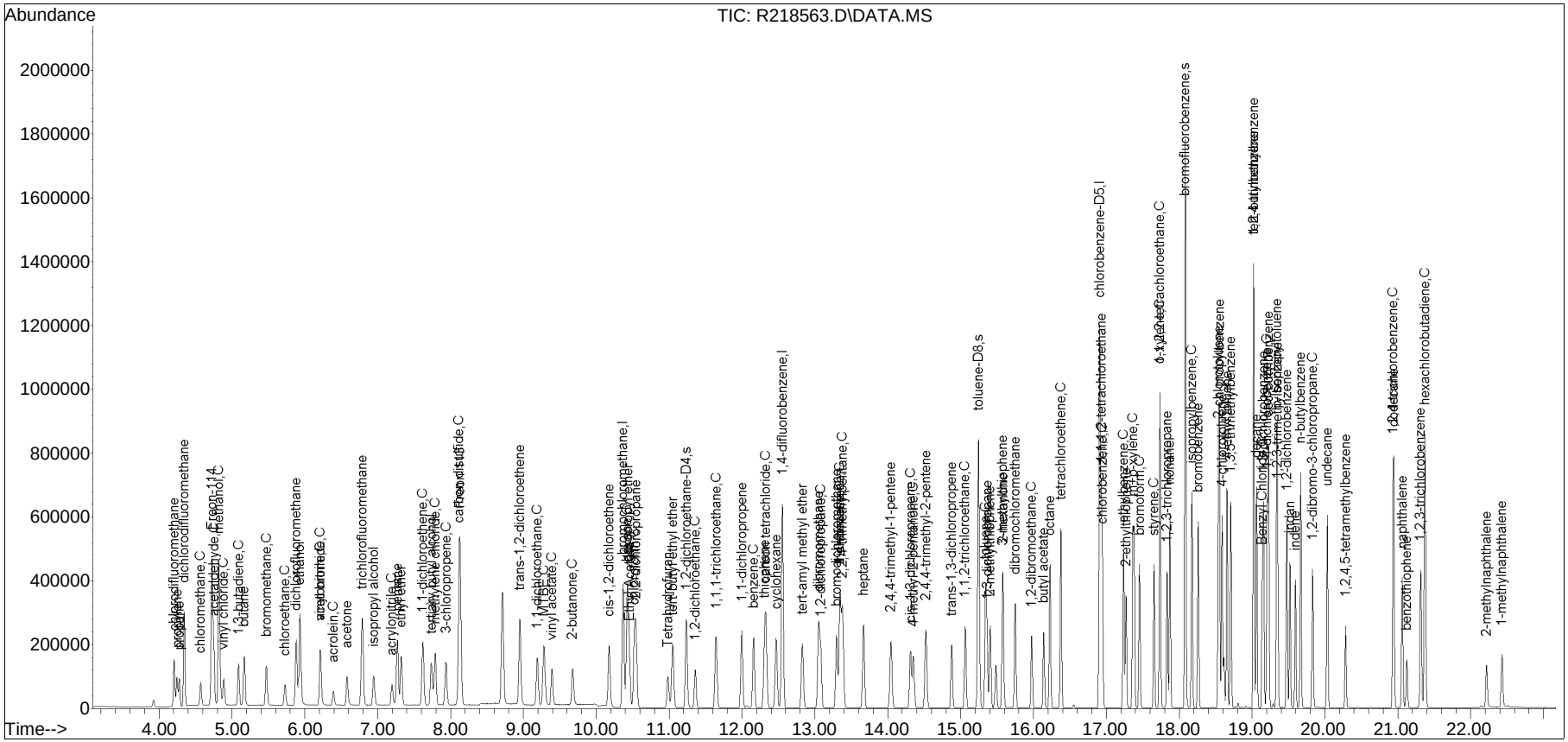
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218563.D
Acq On : 21 Dec 2011 9:01 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD5.0
Misc : wg509913
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 08:55:13 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

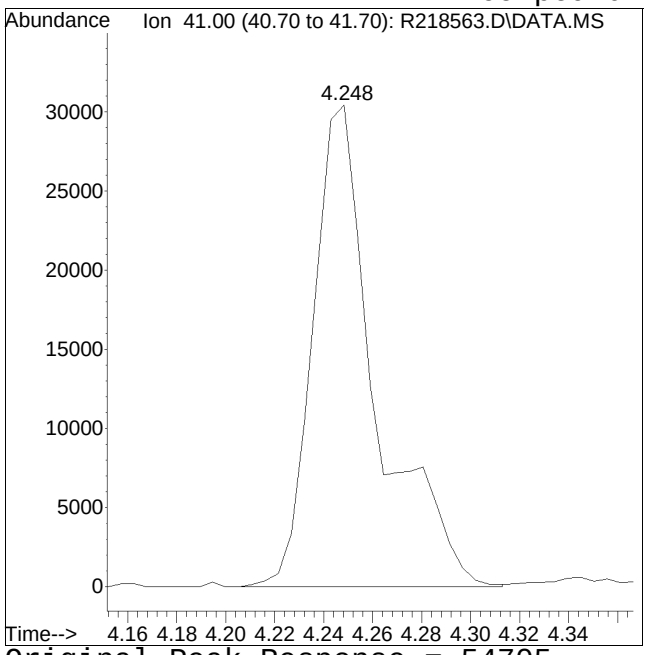


Manual Integration/Negative Proof Report

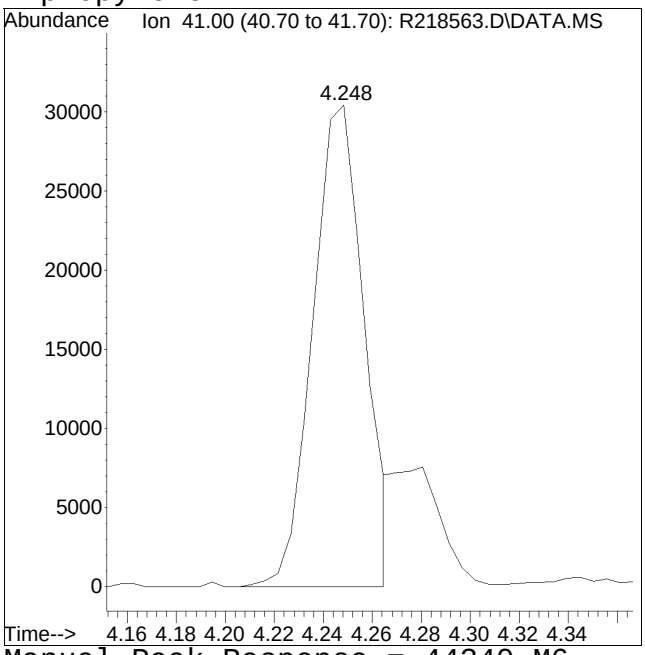
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218563.D
Date Inj'd : 12/21/2011 9:01 pm
Sample : ITO15-LLSTD5.0

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:48 am

Compound #3: propylene



Original Peak Response = 54705



Manual Peak Response = 44340 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD10.0
Misc : wg509913
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 08:44:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Oct 20 10:20:03 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	176950	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	532523	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	111823	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.238	65	184275	8.252	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	82.52%	
70) toluene-D8	15.246	98	456402	9.466	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	94.66%	
91) bromofluorobenzene	18.082	95	337937	8.843	ppbV	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery	=	88.43%	
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	250188	9.467	ppbV	95
3) propylene	4.248	41	99541	8.402	ppbV	98
4) propane	4.280	29	108286	9.906	ppbV	96
5) dichlorodifluoromethane	4.345	85	457562	14.118	ppbV	98
6) chloromethane	4.571	50	142525	10.873	ppbV	94
7) Freon-114	4.726	85	474238	14.775	ppbV	92
8) methanol	4.823	31	583992	74.869	ppbV	95
9) vinyl chloride	4.888	62	164344	13.150	ppbV	100
10) 1,3-butadiene	5.092	54	110546	11.080	ppbV	95
11) butane	5.167	43	264770	11.184	ppbV	97
12) acetaldehyde	4.748	29	205214	63.095	ppbV	94
13) bromomethane	5.473	94	164470	14.871	ppbV	96
14) chloroethane	5.728	64	71678	13.268	ppbV	99
15) ethanol	5.928	31	458075	66.134	ppbV	96
16) dichlorofluoromethane	5.886	67	404738	14.065	ppbV	100
17) vinyl bromide	6.216	106	162829	15.891	ppbV	98
18) acrolein	6.388	56	52083	12.230	ppbV	98
19) acetone	6.574	43	192642	12.044	ppbV	97
20) acetonitrile	6.211	41	120412	12.936	ppbV	96
21) trichlorofluoromethane	6.790	101	465930	15.297	ppbV	99
22) isopropyl alcohol	6.935	45	208549	11.227	ppbV	99
23) acrylonitrile	7.195	53	101427	12.464	ppbV	100
24) pentane	7.271	43	264943	11.223	ppbV	96
25) ethyl ether	7.317	31	174167	14.697	ppbV	95
26) 1,1-dichloroethene	7.618	61	258394	12.642	ppbV	98
27) tertiary butyl alcohol	7.719	59	285221	12.705	ppbV	98
28) methylene chloride	7.791	49	186028	11.112	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD10.0
Misc : wg509913
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 08:44:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Oct 20 10:20:03 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 3-chloropropene	7.940	41	199786	12.194	ppbV	96
30) carbon disulfide	8.118	76	471476	15.238	ppbV	97
31) Freon 113	8.128	101	348186	16.189	ppbV	91
32) trans-1,2-dichloroethene	8.953	61	317623	12.320	ppbV	98
33) 1,1-dichloroethane	9.190	63	290973	13.733	ppbV	100
34) MTBE	9.274	73	362935	15.510	ppbV	98
35) vinyl acetate	9.392	43	261558	11.669	ppbV	98
36) 2-butanone	9.669	43	250040	11.337	ppbV	98
37) cis-1,2-dichloroethene	10.175	61	226488	12.746	ppbV	98
38) Ethyl Acetate	10.449	61	32584	10.561	ppbV #	56
39) chloroform	10.526	83	298251	12.714	ppbV	96
40) Tetrahydrofuran	10.974	42	119146	8.361	ppbV	99
41) 2,2-dichloropropane	10.545	77	277350	12.643	ppbV	97
42) 1,2-dichloroethane	11.359	62	198055	11.794	ppbV	99
44) hexane	10.424	57	196548	7.243	ppbV #	57
45) diisopropyl ether	10.430	87	91802	9.907	ppbV #	92
46) tert-butyl ethyl ether	11.043	59	355394	7.744	ppbV	97
48) 1,1,1-trichloroethane	11.643	97	303389	9.696	ppbV	98
49) 1,1-dichloropropene	11.998	75	219154	9.121	ppbV	94
50) benzene	12.161	78	391304	9.088	ppbV	98
51) thiophene	12.311	84	235832	9.664	ppbV	98
52) carbon tetrachloride	12.325	117	332549	9.937	ppbV	99
53) cyclohexane	12.468	56	199538	6.625	ppbV	97
54) tert-amyl methyl ether	12.821	73	326016	9.128	ppbV	98
55) dibromomethane	13.051	93	190988	10.318	ppbV #	88
56) 1,2-dichloropropane	13.081	63	143259	8.374	ppbV #	93
57) bromodichloromethane	13.296	83	314288	9.777	ppbV	98
58) 1,4-dioxane	13.335	88	77748	9.291	ppbV #	73
59) trichloroethene	13.342	130	203350	9.751	ppbV	96
60) 2,2,4-trimethylpentane	13.381	57	650387	7.238	ppbV	95
61) heptane	13.668	43	236540	6.683	ppbV	100
62) 2,4,4-trimethyl-1-pentene	14.045	57	327903	7.240	ppbV	96
63) cis-1,3-dichloropropene	14.314	75	209024	9.609	ppbV	92
64) 4-methyl-2-pentanone	14.342	43	256710	7.030	ppbV	100
65) 2,4,4-trimethyl-2-pentene	14.521	55	200898	7.088	ppbV	95
66) trans-1,3-dichloropropene	14.878	75	201407	9.422	ppbV	94
67) 1,1,2-trichloroethane	15.062	97	155281	9.465	ppbV	92
69) toluene	15.341	91	503320	11.615	ppbV	98
71) 2-methylthiophene	15.406	97	373801	12.112	ppbV #	100
72) 1,3-dichloropropane	15.365	76	238752	12.108	ppbV	97
73) 2-hexanone	15.575	43	248398	8.333	ppbV #	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD10.0
Misc : wg509913
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 08:44:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Oct 20 10:20:03 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.575	97	352954	11.198	ppbV		98
75)	dibromochloromethane	15.746	129	338251	11.841	ppbV		99
76)	1,2-dibromoethane	15.976	107	265078	11.405	ppbV		99
77)	butyl acetate	16.139	73	44089	11.247	ppbV		79
78)	octane	16.228	85	149170	10.999	ppbV		96
79)	tetrachloroethene	16.377	166	295270	12.167	ppbV		89
80)	1,1,1,2-tetrachloroethane	16.930	131	245705	11.516	ppbV		99
81)	chlorobenzene	16.947	112	399169	11.472	ppbV		99
82)	ethylbenzene	17.238	91	585146	11.199	ppbV		99
83)	2-ethylthiophene	17.268	97	394450	10.936	ppbV		96
84)	m+p-xylene	17.380	91	926103	22.825	ppbV		99
85)	bromoform	17.456	173	382035	12.854	ppbV		99
86)	styrene	17.654	104	347140	11.105	ppbV		98
87)	1,1,2,2-tetrachloroethane	17.736	83	349888	11.152	ppbV		99
88)	o-xylene	17.736	91	528765	11.835	ppbV		99
89)	1,2,3-trichloropropane	17.832	75	291115	10.512	ppbV		95
90)	nonane	17.873	43	371211	8.401	ppbV		100
92)	isopropylbenzene	18.174	105	670573	11.215	ppbV		100
93)	bromobenzene	18.261	77	373250	11.469	ppbV		86
94)	2-chlorotoluene	18.545	126	197189	11.160	ppbV		89
95)	n-propylbenzene	18.558	120	190182	10.965	ppbV		84
96)	4-chlorotoluene	18.595	91	515709	11.014	ppbV		100
97)	4-ethyl toluene	18.662	105	642770	11.077	ppbV		100
98)	1,3,5-trimethylbenzene	18.716	105	518586	10.810	ppbV		99
99)	tert-butylbenzene	19.030	119	608542	10.786	ppbV		100
100)	1,2,4-trimethylbenzene	19.030	105	532036	11.524	ppbV		98
101)	decane	19.072	57	350213	8.451	ppbV		98
102)	Benzyl Chloride	19.149	91	413793	11.158	ppbV		98
103)	1,3-dichlorobenzene	19.165	146	415936	11.309	ppbV		96
104)	1,4-dichlorobenzene	19.216	146	409846	11.280	ppbV		98
105)	sec-butylbenzene	19.235	105	829919	11.316	ppbV		99
106)	1,2,3-trimethylbenzene	19.360	105	371450	10.066	ppbV		97
107)	p-isopropyltoluene	19.347	119	711656	10.734	ppbV		100
108)	1,2-dichlorobenzene	19.485	146	386030	10.947	ppbV		97
109)	n-butylbenzene	19.673	91	633039	11.067	ppbV		98
110)	indan	19.526	117	381209	9.997	ppbV		99
111)	indene	19.603	115	324477	10.624	ppbV		97
112)	1,2-dibromo-3-chloropr...	19.838	75	157657	10.819	ppbV		97
113)	undecane	20.035	57	324594	8.240	ppbV		96
114)	1,2,4,5-tetramethylben...	20.292	119	190502	8.068	ppbV	#	99
115)	dodecane	20.943	57	278087	7.965	ppbV		94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD10.0
Misc : wg509913
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 08:44:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Oct 20 10:20:03 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.943	180	314634	12.295	ppbV	96
117) naphthalene	21.063	128	639283	10.714	ppbV	100
118) 1,2,3-trichlorobenzene	21.320	180	316930	11.796	ppbV	98
119) benzothiophene	21.131	134	242905	9.896	ppbV	99
120) hexachlorobutadiene	21.380	225	344654	11.370	ppbV	94
121) 2-methylnaphthalene	22.221	142	90895	6.157	ppbV	97
122) 1-methylnaphthalene	22.432	142	137431	5.400	ppbV	98

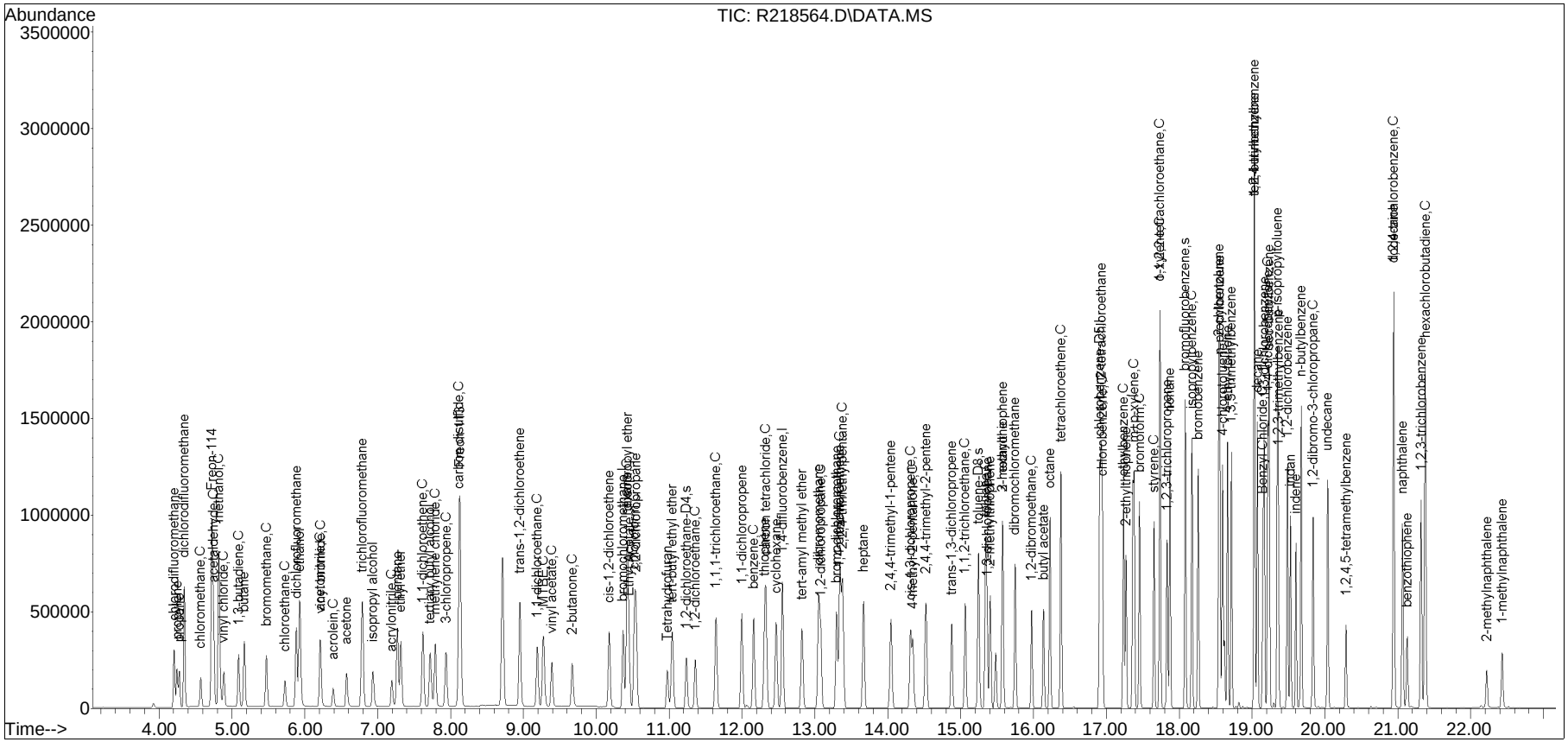
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218564.D
Acq On : 21 Dec 2011 9:37 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD10.0
Misc : wg509913
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 08:44:22 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Oct 20 10:20:03 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TALL111221.M
Data File	: R218564.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/21/2011 9:37 pm	Instrument	: Air Piano 2
Sample	: ITO15-LLSTD10.0	Quant Date	: 12/22/2011 8:44 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD50.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:50:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.373	49	179106	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	545416	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	118866	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.238	65	203992	10.808	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.08%			
70) toluene-D8	15.246	98	555820	11.457	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.57%			
91) bromofluorobenzene	18.082	95	447283	12.451	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 124.51%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	1285697	50.771	ppbV	95
3) propylene	4.243	41	506869M6	50.308	ppbV	
4) propane	4.275	29	551492	50.316	ppbV	98
5) dichlorodifluoromethane	4.345	85	2333044	50.375	ppbV	99
6) chloromethane	4.565	50	700159	48.534	ppbV	96
7) Freon-114	4.721	85	2423603	50.490	ppbV	95
8) methanol	4.823	31	2266579	191.723	ppbV	96
9) vinyl chloride	4.887	62	811033	48.756	ppbV	99
10) 1,3-butadiene	5.086	54	552719	49.397	ppbV	99
11) butane	5.167	43	1315827	49.099	ppbV	98
12) acetaldehyde	4.742	29	804052	193.548	ppbV	95
13) bromomethane	5.469	94	790008	47.455	ppbV	98
14) chloroethane	5.724	64	346820	47.803	ppbV	96
15) ethanol	5.933	31	1695155	182.803	ppbV	99
16) dichlorofluoromethane	5.881	67	1856732	45.323	ppbV #	100
17) vinyl bromide	6.211	106	756047	45.873	ppbV	99
18) acrolein	6.383	56	217037	41.170	ppbV	97
19) acetone	6.565	43	635632	32.598	ppbV #	97
20) acetonitrile	6.205	41	427992	35.116	ppbV	95
21) trichlorofluoromethane	6.789	101	2177587	46.174	ppbV	97
22) isopropyl alcohol	6.921	45	859791	40.731	ppbV	100
23) acrylonitrile	7.195	53	385907	37.590	ppbV	98
24) pentane	7.271	43	1311786	48.916	ppbV	97
25) ethyl ether	7.312	31	699242	39.665	ppbV	99
26) 1,1-dichloroethene	7.618	61	1175799	44.956	ppbV	98
27) tertiary butyl alcohol	7.701	59	1199187	41.538	ppbV	96
28) methylene chloride	7.791	49	810302	43.034	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD50.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:50:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	3-chloropropene	7.940	41	892529	44.136	ppbV		94
30)	carbon disulfide	8.118	76	2184046	45.766	ppbV		96
31)	Freon 113	8.128	101	1617023	45.882	ppbV		91
32)	trans-1,2-dichloroethene	8.953	61	1406546	43.750	ppbV		96
33)	1,1-dichloroethane	9.190	63	1265945	42.984	ppbV		99
34)	MTBE	9.266	73	1273946	34.679	ppbV		98
35)	vinyl acetate	9.388	43	956139	36.115	ppbV		98
36)	2-butanone	9.661	43	801331	31.662	ppbV		98
37)	cis-1,2-dichloroethene	10.175	61	836281	36.479	ppbV		97
38)	Ethyl Acetate	10.449	61	117729	35.696	ppbV		70
39)	chloroform	10.526	83	1389209	46.018	ppbV		97
40)	Tetrahydrofuran	10.964	42	422521	35.036	ppbV		100
41)	2,2-dichloropropane	10.545	77	1297358	46.214	ppbV		97
42)	1,2-dichloroethane	11.359	62	894202	44.606	ppbV		98
44)	hexane	10.424	57	969115	48.141	ppbV	#	68
45)	diisopropyl ether	10.430	87	356854	37.953	ppbV	#	85
46)	tert-butyl ethyl ether	11.039	59	1275056	35.029	ppbV		99
48)	1,1,1-trichloroethane	11.645	97	1417143	45.606	ppbV		99
49)	1,1-dichloropropene	11.998	75	1019630	45.426	ppbV		97
50)	benzene	12.161	78	1800568	44.927	ppbV		100
51)	thiophene	12.311	84	1076736	44.578	ppbV		100
52)	carbon tetrachloride	12.331	117	1653441	48.545	ppbV		100
53)	cyclohexane	12.467	56	943595	46.171	ppbV		95
54)	tert-amyl methyl ether	12.813	73	1200982	35.967	ppbV		98
55)	dibromomethane	13.051	93	892770	45.640	ppbV	#	88
56)	1,2-dichloropropane	13.081	63	663132	45.195	ppbV		97
57)	bromodichloromethane	13.304	83	1495311	46.453	ppbV		99
58)	1,4-dioxane	13.327	88	307499	38.616	ppbV	#	77
59)	trichloroethene	13.350	130	1006133	48.308	ppbV		95
60)	2,2,4-trimethylpentane	13.380	57	3082116	46.269	ppbV		98
61)	heptane	13.668	43	1092854	45.110	ppbV	#	100
62)	2,4,4-trimethyl-1-pentene	14.045	57	1452248	43.242	ppbV		100
63)	cis-1,3-dichloropropene	14.314	75	1017235	47.516	ppbV		95
64)	4-methyl-2-pentanone	14.337	43	1006868	38.295	ppbV		98
65)	2,4,4-trimethyl-2-pentene	14.527	55	901714	43.823	ppbV		94
66)	trans-1,3-dichloropropene	14.878	75	960404	46.558	ppbV		97
67)	1,1,2-trichloroethane	15.068	97	721440	45.362	ppbV		96
69)	toluene	15.347	91	2334926	43.642	ppbV		100
71)	2-methylthiophene	15.412	97	1690051	42.534	ppbV	#	99
72)	1,3-dichloropropane	15.364	76	1080812	42.587	ppbV		98
73)	2-hexanone	15.570	43	1001064	37.913	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD50.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:50:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.581	97	1620495	43.192	ppbV		99
75)	dibromochloromethane	15.752	129	1636093	45.503	ppbV		100
76)	1,2-dibromoethane	15.979	107	1290604	45.803	ppbV		95
77)	butyl acetate	16.134	73	170707	36.425	ppbV		80
78)	octane	16.228	85	733991	46.290	ppbV		91
79)	tetrachloroethene	16.377	166	1462587	46.599	ppbV		92
80)	1,1,1,2-tetrachloroethane	16.930	131	1219037	46.674	ppbV		97
81)	chlorobenzene	16.947	112	1988831	46.872	ppbV		98
82)	ethylbenzene	17.237	91	2598928	41.783	ppbV		100
83)	2-ethylthiophene	17.273	97	1728543	41.225	ppbV		96
84)	m+p-xylene	17.380	91	4142938	84.169	ppbV		99
85)	bromoform	17.456	173	2031510	50.025	ppbV		99
86)	styrene	17.654	104	1580237	42.824	ppbV		99
87)	1,1,2,2-tetrachloroethane	17.736	83	1547952	41.620	ppbV		99
88)	o-xylene	17.741	91	2177765	38.746	ppbV		100
89)	1,2,3-trichloropropane	17.832	75	1222075	39.492	ppbV		98
90)	nonane	17.873	43	1715247	43.469	ppbV		93
92)	isopropylbenzene	18.179	105	2957741	41.494	ppbV		98
93)	bromobenzene	18.266	77	1640689	41.352	ppbV	#	81
94)	2-chlorotoluene	18.551	126	955335	45.577	ppbV		99
95)	n-propylbenzene	18.565	120	894144	44.229	ppbV		78
96)	4-chlorotoluene	18.602	91	2408665	43.938	ppbV		97
97)	4-ethyl toluene	18.669	105	2880595	42.160	ppbV		98
98)	1,3,5-trimethylbenzene	18.723	105	2336174	42.380	ppbV		99
99)	tert-butylbenzene	19.037	119	2787695	43.095	ppbV		99
100)	1,2,4-trimethylbenzene	19.040	105	2449696	43.316	ppbV		98
101)	decane	19.078	57	1634587	43.909	ppbV		95
102)	Benzyl Chloride	19.155	91	2017840	45.875	ppbV		99
103)	1,3-dichlorobenzene	19.171	146	2051656	46.404	ppbV		98
104)	1,4-dichlorobenzene	19.222	146	2092143	48.022	ppbV		98
105)	sec-butylbenzene	19.238	105	3733811	42.324	ppbV		97
106)	1,2,3-trimethylbenzene	19.363	105	1633506	41.371	ppbV		100
107)	p-isopropyltoluene	19.353	119	3261078	43.109	ppbV		98
108)	1,2-dichlorobenzene	19.488	146	1852582	45.147	ppbV		97
109)	n-butylbenzene	19.680	91	2794181	41.524	ppbV		97
110)	indan	19.532	117	1677676	41.402	ppbV		98
111)	indene	19.606	115	1484049	43.027	ppbV		99
112)	1,2-dibromo-3-chloropr...	19.838	75	735524	43.889	ppbV		91
113)	undecane	20.043	57	1558849	45.179	ppbV		95
114)	1,2,4,5-tetramethylben...	20.292	119	872489	43.086	ppbV		98
115)	dodecane	20.943	57	1462678	49.481	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD50.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:50:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.943	180	1741471	52.070	ppbV	96
117) naphthalene	21.071	128	3229080	47.518	ppbV	99
118) 1,2,3-trichlorobenzene	21.320	180	1674048	49.691	ppbV	98
119) benzothiophene	21.131	134	1512448	58.576	ppbV	99
120) hexachlorobutadiene	21.380	225	1876179	51.211	ppbV #	90
121) 2-methylnaphthalene	22.218	142	763358	79.006	ppbV	99
122) 1-methylnaphthalene	22.429	142	1292190	88.454	ppbV	99

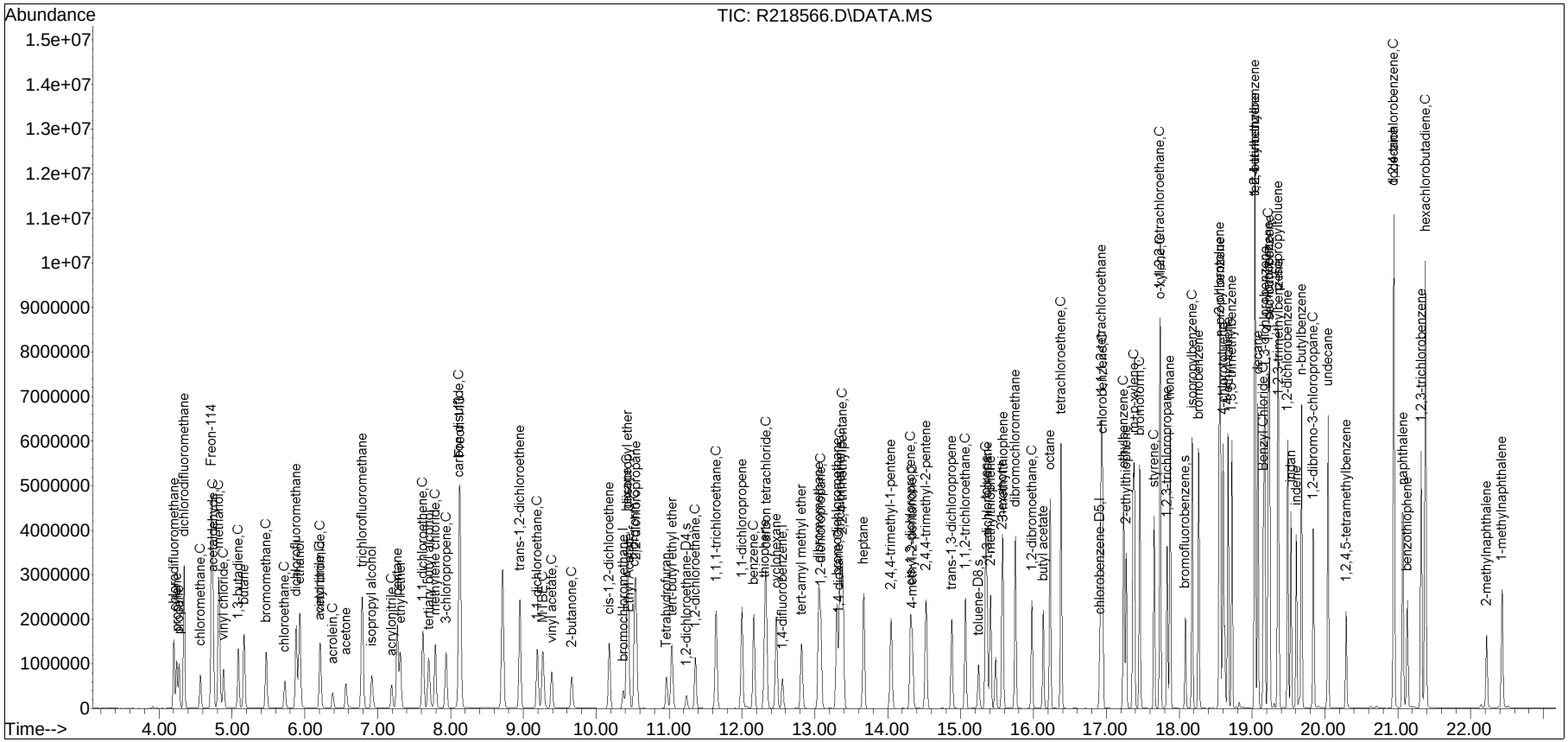
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218566.D
Acq On : 21 Dec 2011 10:51 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD50.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:50:29 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

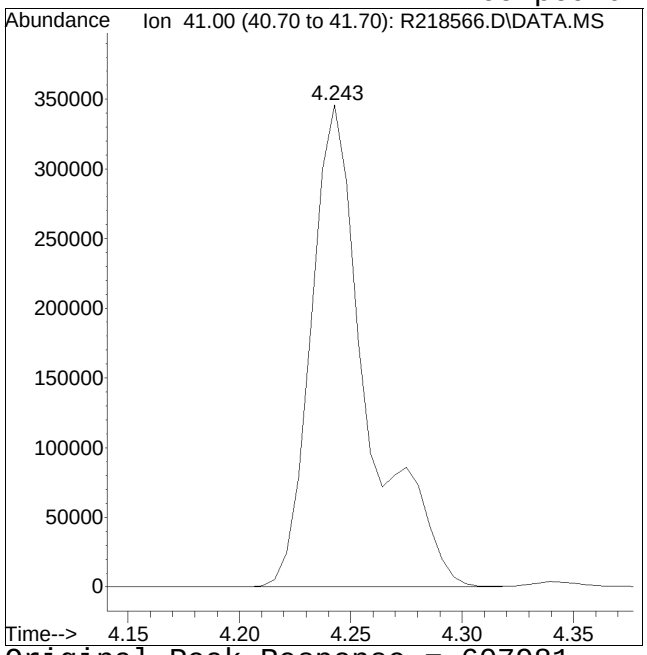


Manual Integration/Negative Proof Report

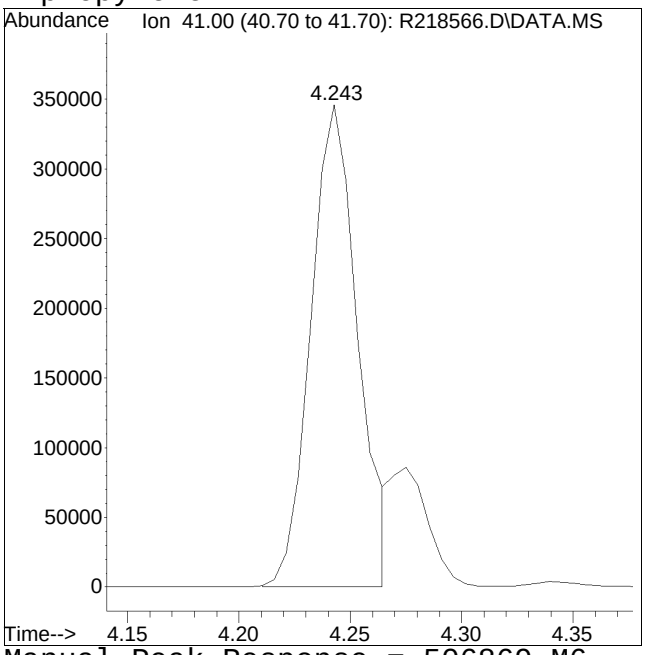
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218566.D
Date Inj'd : 12/21/2011 10:51 pm
Sample : ITO15-LLSTD50.0

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 8:48 am

Compound #3: propylene



Original Peak Response = 607981



Manual Peak Response = 506869 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218567.D
Acq On : 21 Dec 2011 11:27 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD100.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:48:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.373	49	176376	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.556	114	493078	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	119161	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.238	65	166929	9.783	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.83%			
70) toluene-D8	15.246	98	492455	10.125	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.25%			
91) bromofluorobenzene	18.087	95	405639	11.264	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.64%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	2510314	100.664	ppbV	94
3) propylene	4.243	41	970226	97.787	ppbV	99
4) propane	4.275	29	1035997	95.984	ppbV	98
5) dichlorodifluoromethane	4.345	85	4455192	97.685	ppbV	100
6) chloromethane	4.565	50	1323195	93.142	ppbV	95
7) Freon-114	4.721	85	4678477	98.974	ppbV	94
8) methanol	4.828	31	4716580	405.137	ppbV	96
9) vinyl chloride	4.888	62	1550111	94.628	ppbV	99
10) 1,3-butadiene	5.092	54	1076672	97.713	ppbV	99
11) butane	5.167	43	2454435	93.002	ppbV	98
12) acetaldehyde	4.742	29	1605671	392.492	ppbV	96
13) bromomethane	5.469	94	1518307	92.616	ppbV	99
14) chloroethane	5.729	64	666709	93.317	ppbV	98
15) ethanol	5.945	31	3793943	415.466	ppbV	96
16) dichlorofluoromethane	5.886	67	3695892	91.613	ppbV #	100
17) vinyl bromide	6.216	106	1496048	92.177	ppbV	100
18) acrolein	6.383	56	467519	90.056	ppbV	96
19) acetone	6.565	43	1480751	77.116	ppbV #	98
20) acetonitrile	6.211	41	964104	80.328	ppbV	96
21) trichlorofluoromethane	6.790	101	4184500	90.102	ppbV	97
22) isopropyl alcohol	6.925	45	1819932	87.550	ppbV	99
23) acrylonitrile	7.200	53	854757	84.547	ppbV	97
24) pentane	7.271	43	2547229	96.455	ppbV	97
25) ethyl ether	7.312	31	1403649	80.854	ppbV	98
26) 1,1-dichloroethene	7.624	61	2307484	89.592	ppbV	99
27) tertiary butyl alcohol	7.702	59	2566874	90.289	ppbV	96
28) methylene chloride	7.791	49	1608175	86.729	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218567.D
Acq On : 21 Dec 2011 11:27 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD100.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:48:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	3-chloropropene	7.940	41	1792104	89.993	ppbV		95
30)	carbon disulfide	8.123	76	4320105	91.928	ppbV		94
31)	Freon 113	8.128	101	3179693	91.619	ppbV		91
32)	trans-1,2-dichloroethene	8.953	61	2892381	91.360	ppbV		95
33)	1,1-dichloroethane	9.194	63	2559023	88.233	ppbV		99
34)	MTBE	9.266	73	2954881	81.681	ppbV		97
35)	vinyl acetate	9.392	43	2203423	84.516	ppbV		98
36)	2-butanone	9.664	43	1920972	77.077	ppbV		96
37)	cis-1,2-dichloroethene	10.182	61	1777362	78.730	ppbV		96
38)	Ethyl Acetate	10.449	61	307817	94.776	ppbV	#	57
39)	chloroform	10.532	83	2982103	100.312	ppbV		98
40)	Tetrahydrofuran	10.964	42	1214279	102.247	ppbV		97
41)	2,2-dichloropropane	10.551	77	2811805	101.711	ppbV		94
42)	1,2-dichloroethane	11.364	62	1896241	96.055	ppbV		98
44)	hexane	10.430	57	2099950	115.389	ppbV	#	60
45)	diisopropyl ether	10.430	87	907121	106.718	ppbV	#	81
46)	tert-butyl ethyl ether	11.039	59	3118093	94.755	ppbV		99
48)	1,1,1-trichloroethane	11.645	97	3013179	107.262	ppbV		100
49)	1,1-dichloropropene	12.005	75	2164711	106.678	ppbV		98
50)	benzene	12.168	78	3825885	105.594	ppbV		99
51)	thiophene	12.318	84	2339406	107.134	ppbV		95
52)	carbon tetrachloride	12.331	117	3541749	115.023	ppbV		100
53)	cyclohexane	12.474	56	1993054	107.874	ppbV		94
54)	tert-amyl methyl ether	12.821	73	2951250	97.766	ppbV		96
55)	dibromomethane	13.058	93	1947869	110.148	ppbV	#	86
56)	1,2-dichloropropane	13.089	63	1472016	110.972	ppbV		98
57)	bromodichloromethane	13.304	83	3313566	113.865	ppbV		99
58)	1,4-dioxane	13.327	88	740438	102.854	ppbV	#	76
59)	trichloroethene	13.350	130	2167456	115.114	ppbV		97
60)	2,2,4-trimethylpentane	13.388	57	6670130	110.761	ppbV		99
61)	heptane	13.673	43	2344797	107.059	ppbV	#	97
62)	2,4,4-trimethyl-1-pentene	14.050	57	3074200	101.253	ppbV		98
63)	cis-1,3-dichloropropene	14.314	75	2288146	118.225	ppbV		98
64)	4-methyl-2-pentanone	14.342	43	2313889	97.347	ppbV		96
65)	2,4,4-trimethyl-2-pentene	14.527	55	1982940	106.600	ppbV		93
66)	trans-1,3-dichloropropene	14.884	75	2282057	122.370	ppbV		99
67)	1,1,2-trichloroethane	15.068	97	1653508	115.003	ppbV		96
69)	toluene	15.347	91	5283077	98.501	ppbV		100
71)	2-methylthiophene	15.412	97	3682862	92.457	ppbV	#	100
72)	1,3-dichloropropane	15.371	76	2464178	96.855	ppbV		95
73)	2-hexanone	15.570	43	2303381	87.019	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218567.D
Acq On : 21 Dec 2011 11:27 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD100.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:48:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	3-methylthiophene	15.581	97	3635344	96.655	ppbV		98
75)	dibromochloromethane	15.752	129	3721396	103.244	ppbV		97
76)	1,2-dibromoethane	15.984	107	2930177	103.733	ppbV		96
77)	butyl acetate	16.134	73	413629	88.040	ppbV		75
78)	octane	16.232	85	1631625	102.645	ppbV		83
79)	tetrachloroethene	16.382	166	3174176	100.881	ppbV		92
80)	1,1,1,2-tetrachloroethane	16.936	131	2675774	102.196	ppbV		98
81)	chlorobenzene	16.952	112	4519815	106.258	ppbV		98
82)	ethylbenzene	17.243	91	6203809	99.493	ppbV		98
83)	2-ethylthiophene	17.273	97	4088718	97.273	ppbV		95
84)	m+p-xylene	17.385	91	10091746	204.519	ppbV		99
85)	bromoform	17.461	173	4362677	107.164	ppbV		98
86)	styrene	17.660	104	3813633	103.093	ppbV		99
87)	1,1,2,2-tetrachloroethane	17.741	83	3597090	96.476	ppbV		99
88)	o-xylene	17.746	91	5504605	97.692	ppbV		99
89)	1,2,3-trichloropropane	17.838	75	2982983	96.158	ppbV		97
90)	nonane	17.878	43	3668362	92.736	ppbV		88
92)	isopropylbenzene	18.179	105	7167136	100.299	ppbV		98
93)	bromobenzene	18.266	77	3311980	83.269	ppbV	#	83
94)	2-chlorotoluene	18.545	126	2232869	106.262	ppbV		75
95)	n-propylbenzene	18.562	120	2230989	110.084	ppbV	#	58
96)	4-chlorotoluene	18.599	91	5814919	105.812	ppbV		96
97)	4-ethyl toluene	18.666	105	7262850	106.035	ppbV		97
98)	1,3,5-trimethylbenzene	18.719	105	5943383	107.550	ppbV		99
99)	tert-butylbenzene	19.037	119	6279282	96.831	ppbV		100
100)	1,2,4-trimethylbenzene	19.037	105	5631043	99.322	ppbV		96
101)	decane	19.078	57	3947078	105.765	ppbV		92
102)	Benzyl Chloride	19.155	91	5396772	122.391	ppbV		98
103)	1,3-dichlorobenzene	19.171	146	4971335	112.161	ppbV		98
104)	1,4-dichlorobenzene	19.219	146	4960130	113.571	ppbV		99
105)	sec-butylbenzene	19.238	105	8942030	101.111	ppbV		94
106)	1,2,3-trimethylbenzene	19.363	105	4119632	104.077	ppbV		98
107)	p-isopropyltoluene	19.350	119	7737959	102.036	ppbV		97
108)	1,2-dichlorobenzene	19.488	146	4537352	110.301	ppbV		98
109)	n-butylbenzene	19.677	91	7816337	115.870	ppbV		95
110)	indan	19.533	117	4266357	105.025	ppbV		98
111)	indene	19.606	115	3802625	109.976	ppbV		98
112)	1,2-dibromo-3-chloropr...	19.838	75	1830430	108.952	ppbV	#	86
113)	undecane	20.043	57	3985090	115.211	ppbV		91
114)	1,2,4,5-tetramethylben...	20.292	119	2233936	110.044	ppbV	#	98
115)	dodecane	20.943	57	3617575	122.077	ppbV		90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218567.D
Acq On : 21 Dec 2011 11:27 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD100.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:48:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116) 1,2,4-trichlorobenzene	20.943	180	4027234	120.115	ppbV	99
117) naphthalene	21.071	128	8369631	122.860	ppbV	98
118) 1,2,3-trichlorobenzene	21.320	180	4279619	126.718	ppbV	97
119) benzothiophene	21.131	134	4071219	157.284	ppbV	100
120) hexachlorobutadiene	21.380	225	4245998	115.609	ppbV #	89
121) 2-methylnaphthalene	22.216	142	2170023	224.038	ppbV	99
122) 1-methylnaphthalene	22.429	142	3528972	240.969	ppbV	100

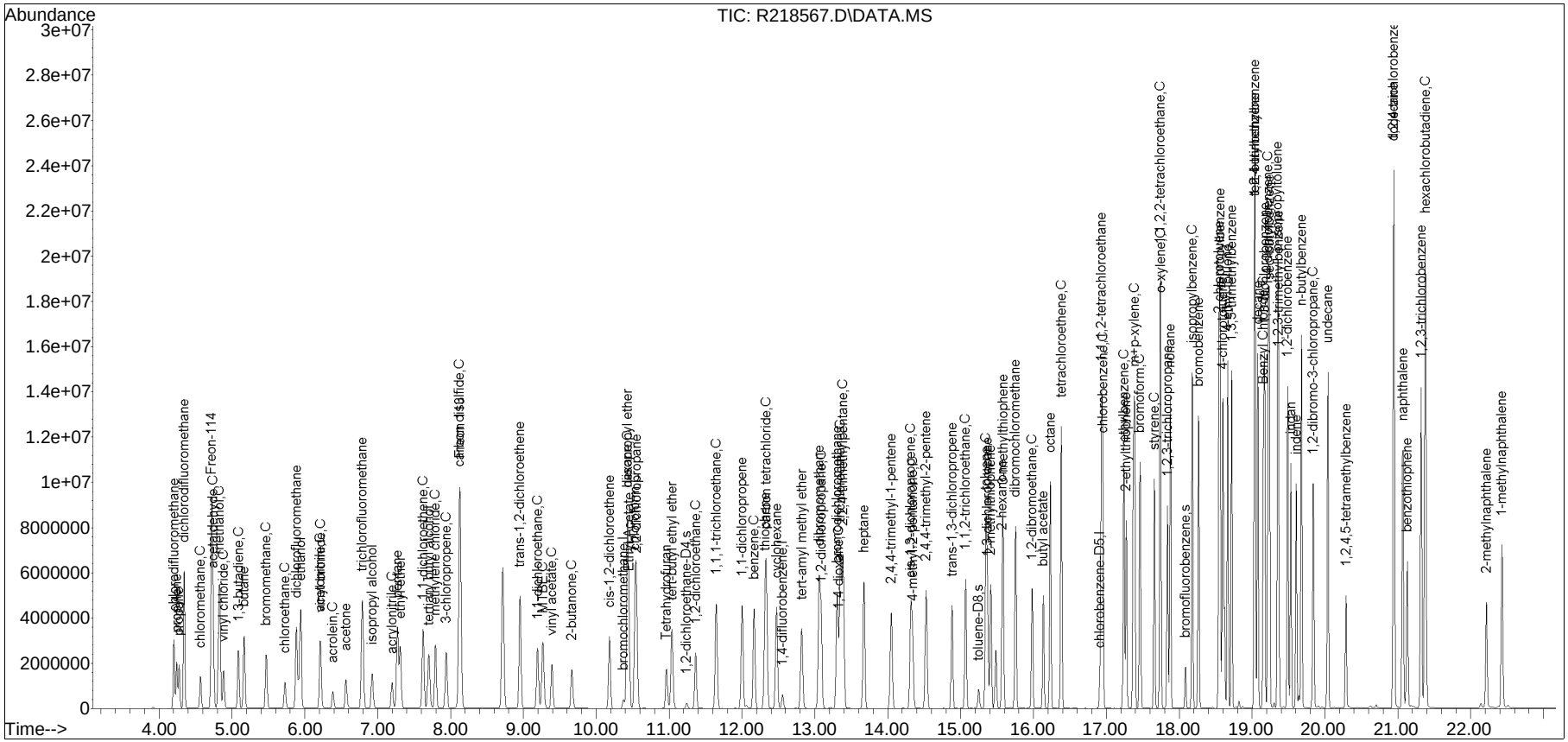
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218567.D
Acq On : 21 Dec 2011 11:27 pm
Operator : AIRPIANO2:RY
Sample : ITO15-LLSTD100.0
Misc : wg509913
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 22 08:48:43 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 08:45:58 2011
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2011Q	Method	: TALL111221.M
Data File	: R218567.D	Operator	: AIRPIANO2:RY
Date Inj'd	: 12/21/2011 11:27 pm	Instrument	: Air Piano 2
Sample	: ITO15-LLSTD100.0	Quant Date	: 12/22/2011 8:48 am

There are no manual integrations or false positives in this file.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	89	0.00
2		chlorodifluoromethane	1.341	1.349	-0.6	85	0.00
3		propylene	0.549	0.593	-8.0	94	0.00
4		propane	0.620	0.579	6.6	84	0.00
5		dichlorodifluoromethane	2.467	2.645	-7.2	91	0.00
6	C	chloromethane	0.767	0.810	-5.6	89	0.00
7		Freon-114	2.603	2.861	-9.9	95	0.00
8	C	methanol	0.623	0.235	62.3#	32#	0.00
9	C	vinyl chloride	0.870	0.950	-9.2	91	0.00
10	C	1,3-butadiene	0.597	0.658	-10.2	94	0.00
11		butane	1.431	1.490	-4.1	89	0.00
13	C	bromomethane	0.891	0.966	-8.4	92	0.00
14	C	chloroethane	0.389	0.417	-7.2	92	0.00
15		ethanol	0.482	0.480	0.4	82	0.00
16		dichlorofluoromethane	2.191	2.203	-0.5	86	0.00
17	C	vinyl bromide	0.850	0.990	-16.5	96	0.00
18	C	acrolein	0.265	0.255	3.8	77	0.00
19		acetone	1.033	0.994	3.8	81	0.00
20	C	acetonitrile	0.708	0.563	20.5	74	0.00
21		trichlorofluoromethane	2.529	2.869	-13.4	97	0.00
22		isopropyl alcohol	1.143	0.970	15.1	73	0.00
23	C	acrylonitrile	0.515	0.491	4.7	76	0.00
24		pentane	1.487	1.516	-2.0	90	0.00
25		ethyl ether	0.864	0.817	5.4	74	0.00
26	C	1,1-dichloroethene	1.403	1.615	-15.1	98	0.00
27		tertiary butyl alcohol	1.505	1.607	-6.8	89	0.00
28	C	methylene chloride	1.046	1.103	-5.4	93	0.00
29	C	3-chloropropene	1.102	1.042	5.4	82	0.00
30	C	carbon disulfide	2.447	1.797	26.6	60#	0.00
31		Freon 113	1.877	2.121	-13.0	96	0.00
32		trans-1,2-dichloroethene	1.694	1.522	10.2	75	0.00
33	C	1,1-dichloroethane	1.516	1.595	-5.2	86	0.00
34	C	MTBE	1.778	1.902	-7.0	82	0.00
35	C	vinyl acetate	1.280	1.353	-5.7	81	0.00
36	C	2-butanone	1.286	1.130	12.1	71	0.00
37		cis-1,2-dichloroethene	1.073	1.064	0.8	74	0.00
38		Ethyl Acetate	0.149	0.178	-19.5	86	0.00
39	C	chloroform	1.560	1.700	-9.0	90	0.00
40		Tetrahydrofuran	0.643	0.631	1.9	83	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	1.437	1.437	0.0	81	0.00
42	C	1,2-dichloroethane	1.031	1.098	-6.5	87	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.00
44	C	hexane	0.369	0.381	-3.3	90	0.00
45		diisopropyl ether	0.161	0.160	0.6	81	0.00
46		tert-butyl ethyl ether	0.603	0.608	-0.8	80	0.00
47	s	1,2-dichloroethane-D4	0.410	0.359	12.4	90	0.00
48	C	1,1,1-trichloroethane	0.556	0.610	-9.7	93	0.00
49		1,1-dichloropropene	0.405	0.432	-6.7	92	0.00
50	C	benzene	0.720	0.712	1.1	85	0.00
52	C	carbon tetrachloride	0.614	0.688	-12.1	96	0.00
53		cyclohexane	0.381	0.412	-8.1	96	0.00
54		tert-amyl methyl ether	0.553	0.577	-4.3	82	0.00
55		dibromomethane	0.352	0.354	-0.6	86	0.00
56	C	1,2-dichloropropane	0.255	0.258	-1.2	84	0.00
57		bromodichloromethane	0.562	0.598	-6.4	88	0.00
58	C	1,4-dioxane	0.135	0.150	-11.1	90	0.00
59	C	trichloroethene	0.377	0.408	-8.2	93	0.00
60	C	2,2,4-trimethylpentane	1.191	1.269	-6.5	91	0.00
61		heptane	0.440	0.456	-3.6	90	0.00
62		2,4,4-trimethyl-1-pentene	0.570	0.641	-12.5	91	0.00
63	C	cis-1,3-dichloropropene	0.364	0.406	-11.5	90	0.00
64	C	4-methyl-2-pentanone	0.454	0.506	-11.5	92	0.00
65		2,4,4-trimethyl-2-pentene	0.364	0.385	-5.8	89	0.00
66		trans-1,3-dichloropropene	0.351	0.337	4.0	78	0.00
67	C	1,1,2-trichloroethane	0.284	0.301	-6.0	90	0.00
68	I	chlorobenzene-D5	1.000	1.000	0.0	94	0.00
69	C	toluene	4.045	3.937	2.7	83	0.00
70	s	toluene-D8	4.776	4.164	12.8	96	0.00
72		1,3-dichloropropane	1.816	1.656	8.8	73	0.00
73		2-hexanone	1.992	1.971	1.1	84	0.00
75		dibromochloromethane	2.586	2.685	-3.8	84	0.00
76	C	1,2-dibromoethane	2.144	2.182	-1.8	87	0.00
77		butyl acetate	0.328	0.345	-5.2	83	0.00
78		octane	1.196	1.172	2.0	83	0.00
79	C	tetrachloroethene	2.450	2.524	-3.0	90	0.00
80		1,1,1,2-tetrachloroethane	1.956	1.900	2.9	82	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	C	chlorobenzene	3.238	3.305	-2.1	87	0.00
82	C	ethylbenzene	4.526	4.636	-2.4	84	0.00
84	C	m+p-xylene	3.562	3.622	-1.7	83	0.00
85	C	bromoform	2.752	2.952	-7.3	81	0.00
86	C	styrene	2.608	2.770	-6.2	84	0.00
87	C	1,1,2,2-tetrachloroethane	2.588	2.765	-6.8	83	0.00
88	C	o-xylene	3.811	3.864	-1.4	77	0.00
89		1,2,3-trichloropropane	2.226	2.185	1.8	79	0.00
90		nonane	2.767	2.630	5.0	75	0.00
91	s	bromofluorobenzene	3.652	3.369	7.7	105	0.00
92	C	isopropylbenzene	5.170	5.061	2.1	80	0.00
93		bromobenzene	2.745	2.692	1.9	76	0.00
94		2-chlorotoluene	1.513	1.466	3.1	78	0.00
95		n-propylbenzene	1.413	1.421	-0.6	79	0.00
96		4-chlorotoluene	3.879	3.852	0.7	79	0.00
97		4-ethyl toluene	4.775	5.210	-9.1	85	0.00
98		1,3,5-trimethylbenzene	3.926	4.130	-5.2	84	0.00
99		tert-butylbenzene	4.369	4.509	-3.2	78	-0.01
100		1,2,4-trimethylbenzene	3.767	4.151	-10.2	82	-0.01
101		decane	2.477	2.458	0.8	74	-0.01
102	C	Benzyl Chloride	2.660	3.160	-18.8	81	-0.01
103		1,3-dichlorobenzene	3.091	3.227	-4.4	82	-0.01
104	C	1,4-dichlorobenzene	3.082	3.225	-4.6	83	-0.01
105		sec-butylbenzene	5.961	6.065	-1.7	77	-0.01
107		p-isopropyltoluene	5.021	4.988	0.7	74	-0.01
108		1,2-dichlorobenzene	2.864	3.022	-5.5	83	-0.01
109		n-butylbenzene	4.479	4.824	-7.7	80	0.00
112	C	1,2-dibromo-3-chloropropane	1.085	1.221	-12.5	82	0.00
113		undecane	2.279	2.433	-6.8	79	0.00
115		dodecane	1.937	2.256	-16.5	86	0.00
116	C	1,2,4-trichlorobenzene	2.060	2.426	-17.8	81	0.00
117		naphthalene	4.571	4.801	-5.0	79	0.00
118		1,2,3-trichlorobenzene	2.249	2.374	-5.6	79	0.00
120	C	hexachlorobutadiene	2.293	2.668	-16.4	82	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : Default-ICV - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	157288	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.549	114	464465	10.000	ppbV	0.00
68) chlorobenzene-D5	16.908	54	105475	10.000	ppbV	0.00
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.234	65	166694	8.746	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	87.46%	
70) toluene-D8	15.246	98	439158	8.717	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	87.17%	
91) bromofluorobenzene	18.082	95	355328	9.225	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	92.25%	
Target Compounds						Qvalue
2) chlorodifluoromethane	4.205	51	212114	10.053	ppbV	96
3) propylene	4.243	41	93272M6	10.792	ppbV	
4) propane	4.275	29	91144	9.340	ppbV	98
5) dichlorodifluoromethane	4.345	85	416101	10.721	ppbV	99
6) chloromethane	4.571	50	127348	10.559	ppbV	94
7) Freon-114	4.726	85	450056	10.991	ppbV	92
8) methanol	4.818	31	185155	18.906	ppbV	94
9) vinyl chloride	4.888	62	149491	10.928	ppbV	98
10) 1,3-butadiene	5.092	54	103538	11.021	ppbV	95
11) butane	5.167	43	234336	10.409	ppbV	97
13) bromomethane	5.473	94	151863	10.830	ppbV	100
14) chloroethane	5.729	64	65611	10.718	ppbV	99
15) ethanol	5.928	31	377228	49.740	ppbV	99
16) dichlorofluoromethane	5.882	67	346429	10.054	ppbV	98
17) vinyl bromide	6.211	106	155688	11.646	ppbV	99
18) acrolein	6.388	56	40156	9.629	ppbV	96
19) acetone	6.574	43	156418	9.627	ppbV #	100
20) acetonitrile	6.211	41	88538	7.950	ppbV	98
21) trichlorofluoromethane	6.790	101	451249	11.343	ppbV	97
22) isopropyl alcohol	6.935	45	152497	8.482	ppbV	99
23) acrylonitrile	7.195	53	77303	9.550	ppbV	98
24) pentane	7.271	43	238513	10.195	ppbV	98
25) ethyl ether	7.317	31	128579	9.460	ppbV	98
26) 1,1-dichloroethene	7.618	61	253985	11.512	ppbV	99
27) tertiary butyl alcohol	7.726	59	252833	10.682	ppbV	97
28) methylene chloride	7.791	49	173467	10.546	ppbV	94
29) 3-chloropropene	7.935	41	163918	9.458	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : Default-ICV - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) carbon disulfide	8.119	76	282694	7.346	ppbV	97
31) Freon 113	8.128	101	333596	11.298	ppbV	92
32) trans-1,2-dichloroethene	8.949	61	239463	8.990	ppbV	98
33) 1,1-dichloroethane	9.190	63	250946	10.523	ppbV	99
34) MTBE	9.274	73	299120	10.696	ppbV	100
35) vinyl acetate	9.388	43	212866	10.576	ppbV	98
36) 2-butanone	9.667	43	177729	8.788	ppbV	98
37) cis-1,2-dichloroethene	10.175	61	167372	9.922	ppbV	94
38) Ethyl Acetate	10.450	61	27958	11.940	ppbV	65
39) chloroform	10.520	83	267467	10.898	ppbV	97
40) Tetrahydrofuran	10.974	42	99212	9.805	ppbV	96
41) 2,2-dichloropropane	10.545	77	225994	10.001	ppbV	99
42) 1,2-dichloroethane	11.359	62	172717	10.648	ppbV	97
44) hexane	10.424	57	176804	10.305	ppbV #	62
45) diisopropyl ether	10.430	87	74460	9.975	ppbV #	86
46) tert-butyl ethyl ether	11.043	59	282601	10.093	ppbV	99
48) 1,1,1-trichloroethane	11.643	97	283493	10.975	ppbV	99
49) 1,1-dichloropropene	11.998	75	200823	10.687	ppbV	92
50) benzene	12.161	78	330880	9.901	ppbV	99
52) carbon tetrachloride	12.325	117	319514	11.199	ppbV	98
53) cyclohexane	12.468	56	191137	10.809	ppbV	97
54) tert-amyl methyl ether	12.821	73	268186	10.434	ppbV	99
55) dibromomethane	13.051	93	164330	10.048	ppbV #	87
56) 1,2-dichloropropane	13.082	63	119762	10.124	ppbV #	92
57) bromodichloromethane	13.296	83	277836	10.647	ppbV	99
58) 1,4-dioxane	13.335	88	69870	11.143	ppbV #	77
59) trichloroethene	13.342	130	189507	10.832	ppbV	94
60) 2,2,4-trimethylpentane	13.381	57	589303	10.650	ppbV	96
61) heptane	13.669	43	211742	10.362	ppbV	100
62) 2,4,4-trimethyl-1-pentene	14.045	57	297497	11.244	ppbV	100
63) cis-1,3-dichloropropene	14.310	75	188472	11.144	ppbV	92
64) 4-methyl-2-pentanone	14.342	43	235032	11.155	ppbV	99
65) 2,4,4-trimethyl-2-pentene	14.521	55	178814	10.570	ppbV	95
66) trans-1,3-dichloropropene	14.878	75	156613	9.603	ppbV	92
67) 1,1,2-trichloroethane	15.062	97	139581	10.595	ppbV	94
69) toluene	15.341	91	415305	9.735	ppbV	99
72) 1,3-dichloropropane	15.359	76	174692	9.119	ppbV #	98
73) 2-hexanone	15.575	43	207940	9.897	ppbV	96
75) dibromochloromethane	15.746	129	283148	10.380	ppbV	98
76) 1,2-dibromoethane	15.974	107	230170	10.178	ppbV	96
77) butyl acetate	16.139	73	36437	10.522	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : Default-ICV - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	octane	16.228	85	123643	9.803	ppbV		91
79)	tetrachloroethene	16.377	166	266218	10.303	ppbV		91
80)	1,1,1,2-tetrachloroethane	16.930	131	200400	9.713	ppbV		99
81)	chlorobenzene	16.941	112	348633	10.208	ppbV		98
82)	ethylbenzene	17.238	91	488962	10.243	ppbV		99
84)	m+p-xylene	17.380	91	764044	20.337	ppbV		99
85)	bromoform	17.456	173	311358	10.726	ppbV		99
86)	styrene	17.655	104	292142	10.619	ppbV		99
87)	1,1,2,2-tetrachloroethane	17.736	83	291658	10.684	ppbV		99
88)	o-xylene	17.736	91	407538	10.137	ppbV		98
89)	1,2,3-trichloropropane	17.833	75	230499	9.815	ppbV		94
90)	nonane	17.873	43	277402	9.505	ppbV		98
92)	isopropylbenzene	18.174	105	533819	9.789	ppbV		99
93)	bromobenzene	18.261	77	283991	9.809	ppbV	#	83
94)	2-chlorotoluene	18.538	126	154645	9.693	ppbV		98
95)	n-propylbenzene	18.552	120	149894	10.059	ppbV		90
96)	4-chlorotoluene	18.589	91	406270	9.929	ppbV		98
97)	4-ethyl toluene	18.656	105	549551	10.912	ppbV		99
98)	1,3,5-trimethylbenzene	18.706	105	435593	10.518	ppbV		99
99)	tert-butylbenzene	19.018	119	475580	10.320	ppbV		98
100)	1,2,4-trimethylbenzene	19.018	105	437829	11.020	ppbV		99
101)	decane	19.059	57	259268	9.924	ppbV		100
102)	Benzyl Chloride	19.136	91	333285	11.878	ppbV		99
103)	1,3-dichlorobenzene	19.152	146	340378	10.439	ppbV		98
104)	1,4-dichlorobenzene	19.203	146	340145	10.463	ppbV		97
105)	sec-butylbenzene	19.222	105	639744	10.175	ppbV		99
107)	p-isopropyltoluene	19.334	119	526074	9.933	ppbV		99
108)	1,2-dichlorobenzene	19.472	146	318775	10.552	ppbV		97
109)	n-butylbenzene	19.664	91	508782	10.769	ppbV		98
112)	1,2-dibromo-3-chloropr...	19.829	75	128733	11.244	ppbV		95
113)	undecane	20.026	57	256601	10.674	ppbV		98
115)	dodecane	20.934	57	237966	11.648	ppbV		96
116)	1,2,4-trichlorobenzene	20.934	180	255839	11.773	ppbV		100
117)	naphthalene	21.054	128	506392	10.504	ppbV		99
118)	1,2,3-trichlorobenzene	21.311	180	250448	10.557	ppbV		99
120)	hexachlorobutadiene	21.371	225	281422	11.637	ppbV		95

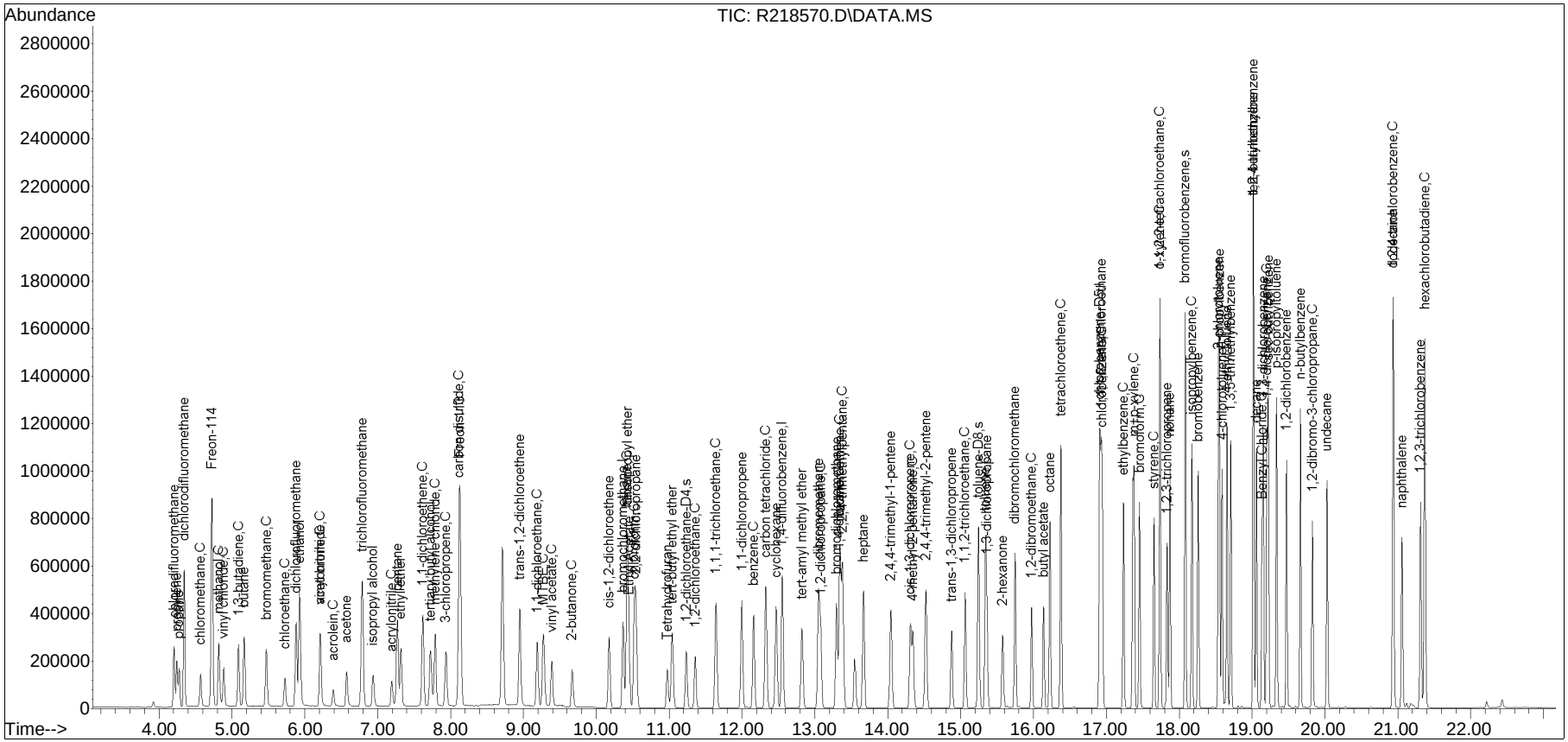
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : Default-ICV - All compounds listed

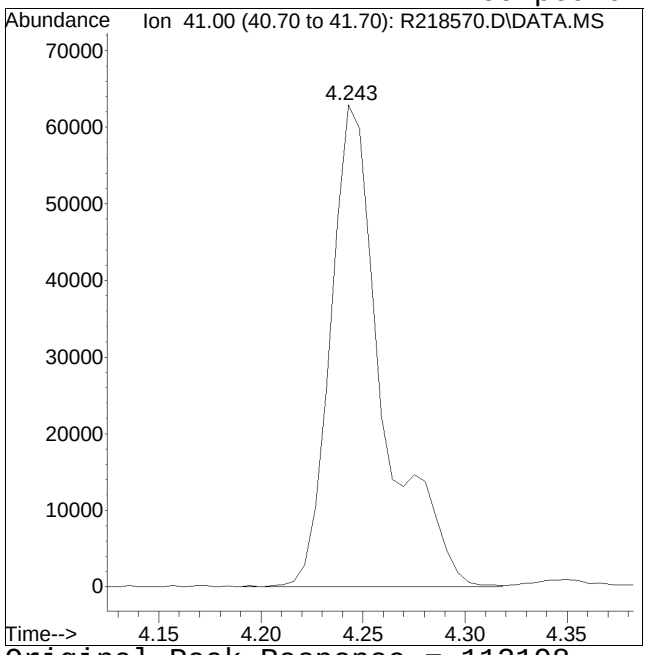


Manual Integration/Negative Proof Report

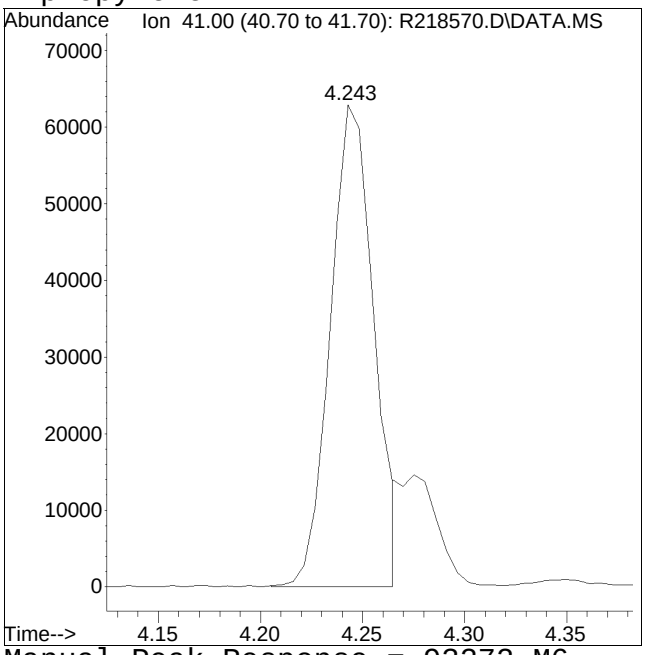
Data Path : O:\Forensics\Data\AIR2\2011Q
Data File : R218570.D
Date Inj'd : 12/22/2011 1:19 am
Sample : CTO15-LLSTD10

Method : TALL111221.M
Operator : AIRPIANO2:RY
Instrument : Air Piano 2
Quant Date : 12/22/2011 9:11 am

Compound #3: propylene



Original Peak Response = 112198



Manual Peak Response = 93272 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jan 25 2012, 03:40 pm

Work Group: WG511601 for Department: 3 GC/MS

Created: 03-JAN-12 Due: Operator: mb

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1200005-01	C-28	S	MCP-TO15	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-02	B-28	S	MCP-TO15	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-03	A-28	S	MCP-TO15	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-04	BG-28	S	MCP-TO15	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-05	BG-28-DUP	S	MCP-TO15	AIR	DONE	U	0128	0116	S0	Can-6
L1200005-06	TB-28	S	MCP-TO15	AIR	DONE	U	0128	0116	S0	Can-6
L1200006-01	VS-1-28	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-02	VS-4-28	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-03	VS-12-28	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-04	VS-8-28	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-05	VS-8-28-DUP	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-06	VS-BG-28	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
L1200006-07	VS-TB-28	S	MCP-TO15	SOIL_VAPOR	DONE	U	0128	0116	S0	Can-2.7
WG511601-1	MS BFB Tune Standard	S	MCP-TO15	AIR	DONE	U				
WG511601-1	MS BFB Tune Standard	S	MCP-TO15	SOIL_VAPOR	DONE	U				
WG511601-2	Continuing Calibrati	S	MCP-TO15	SOIL_VAPOR	DONE	U				
WG511601-2	Continuing Calibrati	S	MCP-TO15	AIR	DONE	U				
WG511601-3	Laboratory Control S	S	MCP-TO15	SOIL_VAPOR	DONE	U				
WG511601-3	Laboratory Control S	S	MCP-TO15	AIR	DONE	U				
WG511601-4	Laboratory Method Bl	S	MCP-TO15	AIR	DONE	U				
WG511601-4	Laboratory Method Bl	S	MCP-TO15	SOIL_VAPOR	DONE	U				
WG511601-5	Duplicate Sample	S	MCP-TO15	SOIL_VAPOR	DONE	U				
WG511601-5	Duplicate Sample	S	MCP-TO15	AIR	DONE	U				

Comments:

WG511601-5 L1200006-01

Sequence Logs

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

Sequence Name: C:\Smart\111221_TO15ICAL.SEQ
Date: 12-22-2011
Time: 09:47:24
Int. Std Volume: 100 cc

Sample Name	Inlet #	Auto Samp Pos	Cal Std Vol.	Vol.	Method	Time
TA2122102	1	1	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.02	1	5	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.04	1	5	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.1	1	6	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.2	1	6	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD0.5	1	7	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD1.0	1	7	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD2.5	1	8	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD5.0	1	8	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD10.0	1	9	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD20.0	1	9	250	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD50.0	1	10	125	100	C:\Smart\Alpha_To15.MPT	12:00
ITO15-SIMSTD100.0	1	10	250	100	C:\Smart\Alpha_To15.MPT	12:00
BA2122101	1	1	250	100	C:\Smart\Alpha_To15.MPT	12:00
BA2122102	1	1	250	100	C:\Smart\Alpha_To15.MPT	12:00
CTO15-LLSTD10.0	1	2	250	100	C:\Smart\Alpha_To15.MPT	12:00
CTO15-SIMSTD5.0	1	2	125	100	C:\Smart\Alpha_To15.MPT	12:00

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AirPiano2

Internal Standard/Surrogate IDs: CSS11-004 CSS10-013

Date: 12/21/11

Internal Standard/Surrogate Volume: 100 mL

Analyst Initials: RY

EM Voltage: 1529

Full Scan ICAL# SIM ICAL# APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Misc Info	Comment
1	TA2122101	TO15_SFS	R218552	250ml	DO NOT USE
2	CTO15-LLSTD10	TO15_SFS	R218553	250ml SS11-040B	DO NOT USE
2	CTO15-SIMSTD5.0	TO15_SFS	R218554	125ml SS11-040B	DO NOT USE
1	TA2122102	TO15_SFS	R218555	250ml	TUNE
5	ITO15-SIMSTD0.02	TO15_SFS	R218556	SS11-036F 125ML 0.02	SIM ONLY
5	ITO15-SIMSTD0.04	TO15_SFS	R218557	SS11-036F 250ML 0.04	SIM ONLY
6	ITO15-SIMSTD0.1	TO15_SFS	R218558	SS11-036E 125ML 0.1	SIM ONLY
6	ITO15-SIMSTD0.2	TO15_SFS	R218559	SS11-036E 250ML 0.2	
7	ITO15-SIMSTD0.5	TO15_SFS	R218560	SS11-036D 125ML 0.5	
7	ITO15-SIMSTD1.0	TO15_SFS	R218561	SS11-036D 250ML 1.0	
8	ITO15-SIMSTD2.5	TO15_SFS	R218562	SS11-036C 125ML 2.5	
8	ITO15-SIMSTD5.0	TO15_SFS	R218563	SS11-036C 250ML 5.0	
9	ITO15-SIMSTD10.0	TO15_SFS	R218564	SS11-036B 125ML 10.0	
9	ITO15-SIMSTD20.0	TO15_SFS	R218565	SS11-036B 250ML 20.0	DID NOT USE FOR FULL SCAN OR SIM
10	ITO15-SIMSTD50.0	TO15_SFS	R218566	SS11-036A 125ML 50.0	
10	ITO15-LLSTD100.0	TO15_SFS	R218567	SS11-036A 250ML 100.0	NOT USED FOR SIM
1	BA2122101	TO15_SFS	R218568	250ml	
1	BA2122102	TO15_SFS	R218569	250ml	
2	CTO15-LLSTD10	TO15_SFS	R218570	250ml SS11-040B	LL ICV
2	CTO15-SIMSTD5.0	TO15_SFS	R218571	125ml SS11-040B	SIM ICV

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AirPiano2

Internal Standard/Surrogate IDs: CSS11-004 CSS10-013

Date: 01/05/12

Internal Standard/Surrogate Volume: 100 mL

Analyst Initials: RY/MB

EM Voltage: 1447

Full Scan ICAL# 6480 SIM ICAL# 6481 APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Misc Info	Comment
1	TA2010501	TO15_SFS	R218764	250ml	TUNE
2	CTO15-LLSTD10	TO15_SFS	R218765	250ml SS11-032B	LL LCS FAILED
3	CTO15-SIMSTD5.0	TO15_SFS	R218766	125ml SS11-040D	SIM LCS FAILED
		Pause			
1	TA2010502	TO15_SFS	R218767	250ml	TUNE
2	CTO15-LLSTD10	TO15_SFS	R218768	250ml SS11-032B	LL LCS
		Pause			
3	CTO15-SIMSTD5.0	TO15_SFS	R218769	125ml SS11-040D	SIM LCS
		Pause			
1	BA2010501	TO15_SFS	R218770	250ml	(INST) BLANK
1	BA2010502	TO15_SFS	R218771	250ml	1/30/12 JW ~~INSTRUMENT~~ BLANK
4	L1200005-06,3,250,250	TO15_SFS	R218772	WG511601,ICAL6480	
5	L1200006-07,3,250,250	TO15_SFS	R218773	WG511601,ICAL6480	
6	L1200005-01,3,250,250	TO15_SFS	R218774	WG511601,ICAL6480	
7	L1200005-02,3,250,250	TO15_SFS	R218775	WG511601,ICAL6480	
8	L1200005-03,3,250,250	TO15_SFS	R218776	WG511601,ICAL6480	
9	L1200005-04,3,250,250	TO15_SFS	R218777	WG511601,ICAL6480	
10	L1200005-05,3,250,250	TO15_SFS	R218778	WG511601,ICAL6480	
11	L1200006-01,3,250,250	TO15_SFS	R218779	WG511601,ICAL6480	
11	L1200006-01DUP,3,250,250	TO15_SFS	R218780	WG511601,ICAL6480	MCP-TO15, MCP-TO15-SIM-DUP
12	L1200006-02,3,250,250	TO15_SFS	R218781	WG511601,ICAL6480	

Alpha Analytical Air Lab
Instrument Run Log

13	L1200006-03,3,250,250	TO15_SFS	R218782	WG511601,ICAL6480	
14	L1200006-04,3,250,250	TO15_SFS	R218783	WG511601,ICAL6480	
15	L1200006-05,3,250,250	TO15_SFS	R218784	WG511601,ICAL6480	
16	L1200006-06,3,250,250	TO15_SFS	R218785	WG511601,ICAL6480	

Analytical Event

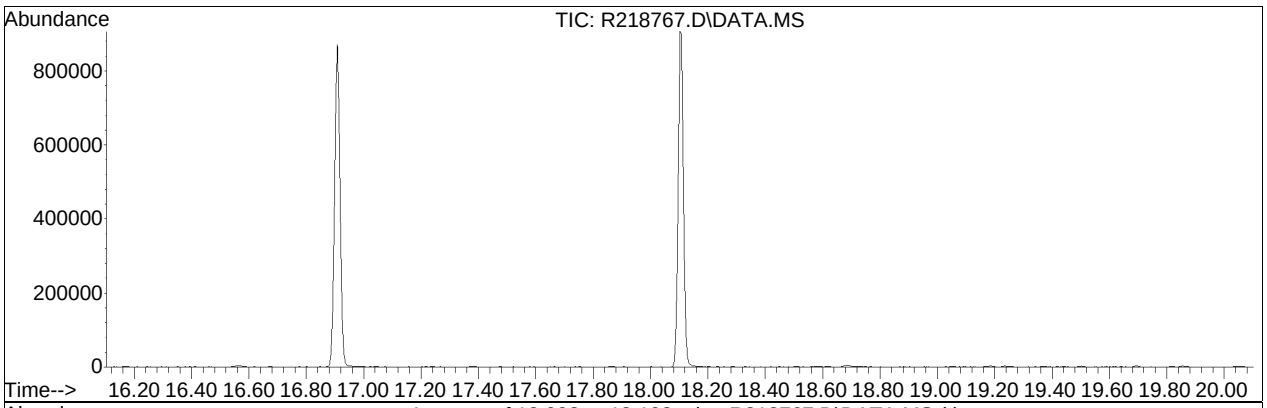
Continuing Calibration
BFB Tune

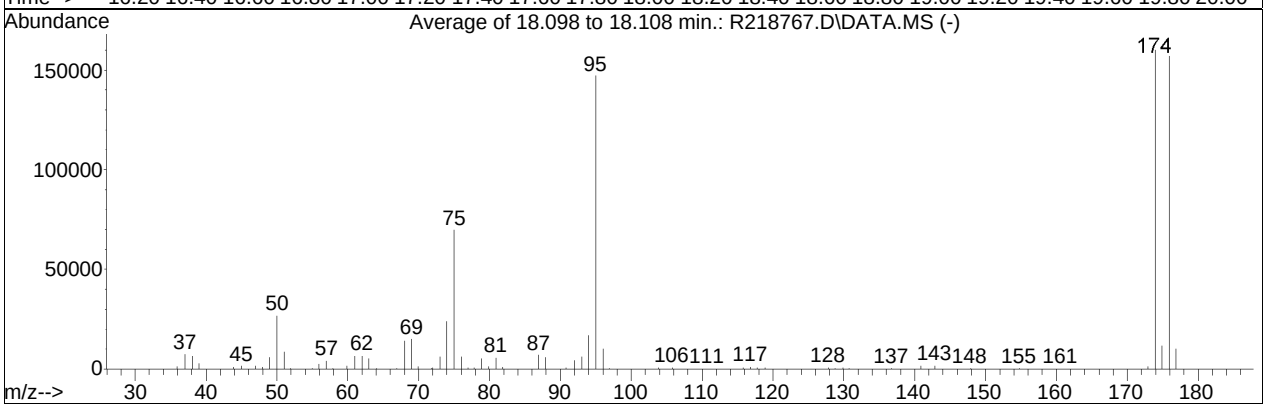
BFB

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218767.D
Acq On : 5 Jan 2012 16:30
Operator : AIRPIANO2:MB
Sample : WG511601-1,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Dec 22 09:10:18 2011





AutoFind: Scans 3052, 3053, 3054; Background Corrected with Scan 3045

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	26717	PASS
75	95	30	66	47.3	69645	PASS
95	95	100	100	100.0	147171	PASS
96	95	5	9	6.9	10124	PASS
173	174	0.00	2	0.8	1357	PASS
174	95	50	120	108.9	160211	PASS
175	174	4	9	7.4	11798	PASS
176	174	93	101	98.0	157011	PASS
177	176	5	9	6.6	10289	PASS

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-2,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	85	0.00
5		dichlorodifluoromethane	2.467	2.073	16.0	68	-0.01
6	C	chloromethane	0.767	0.603	21.4	64	-0.02
9	C	vinyl chloride	0.870	0.698	19.8	64	-0.02
13	C	bromomethane	0.891	0.731	18.0	67	-0.01
14	C	chloroethane	0.389	0.329	15.4	69	-0.01
19		acetone	1.033	0.970	6.1	76	-0.01
21		trichlorofluoromethane	2.529	2.096	17.1	68	0.00
25		ethyl ether	0.864	0.710	17.8	62	-0.01
26	C	1,1-dichloroethene	1.403	1.160	17.3	68	0.00
28	C	methylene chloride	1.046	0.881	15.8	72	-0.01
30	C	carbon disulfide	2.447	1.931	21.1	62	0.00
32		trans-1,2-dichloroethene	1.694	1.387	18.1	66	-0.01
33	C	1,1-dichloroethane	1.516	1.185	21.8	62	0.00
34	C	MTBE	1.778	1.477	16.9	61	0.00
36	C	2-butanone	1.286	1.119	13.0	68	0.00
37		cis-1,2-dichloroethene	1.073	0.889	17.1	59#	0.00
40		Tetrahydrofuran	0.643	0.620	3.6	79	0.00
41		2,2-dichloropropane	1.437	1.200	16.5	65	0.00
42	C	1,2-dichloroethane	1.031	0.936	9.2	71	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	91	0.00
45		diisopropyl ether	0.161	0.139	13.7	74	0.00
46		tert-butyl ethyl ether	0.603	0.529	12.3	72	0.00
48	C	1,1,1-trichloroethane	0.556	0.464	16.5	74	0.00
49		1,1-dichloropropene	0.405	0.331	18.3	73	0.00
52	C	carbon tetrachloride	0.614	0.507	17.4	74	0.00
54		tert-amyl methyl ether	0.553	0.498	9.9	74	0.00
55		dibromomethane	0.352	0.283	19.6	72	0.00
56	C	1,2-dichloropropane	0.255	0.223	12.5	76	0.00
57		bromodichloromethane	0.562	0.467	16.9	72	0.00
58	C	1,4-dioxane	0.135	0.133	1.5	83	0.00
63	C	cis-1,3-dichloropropene	0.364	0.328	9.9	76	0.00
64	C	4-methyl-2-pentanone	0.454	0.434	4.4	82	0.00
66		trans-1,3-dichloropropene	0.351	0.269	23.4	65	0.00
67	C	1,1,2-trichloroethane	0.284	0.261	8.1	82	0.00
68	I	chlorobenzene-D5	1.000	1.000	0.0	81	0.00
69	C	toluene	4.045	4.132	-2.2	74	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-2,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
72		1,3-dichloropropane	1.816	1.777	2.1	67	0.00
73		2-hexanone	1.992	2.175	-9.2	79	0.00
75		dibromochloromethane	2.586	2.741	-6.0	73	0.00
76	C	1,2-dibromoethane	2.144	2.249	-4.9	77	0.00
80		1,1,1,2-tetrachloroethane	1.956	1.970	-0.7	73	0.00
81	C	chlorobenzene	3.238	3.454	-6.7	78	0.00
82	C	ethylbenzene	4.526	5.018	-10.9	78	0.00
84	C	m+p-xylene	3.562	3.932	-10.4	77	0.00
85	C	bromoform	2.752	2.895	-5.2	69	0.00
86	C	styrene	2.608	2.957	-13.4	77	0.00
87	C	1,1,2,2-tetrachloroethane	2.588	3.045	-17.7	79	0.00
88	C	o-xylene	3.811	4.552	-19.4	78	0.00
89		1,2,3-trichloropropane	2.226	2.510	-12.8	78	0.00
92	C	isopropylbenzene	5.170	5.806	-12.3	79	0.00
93		bromobenzene	2.745	2.733	0.4	66	0.00
94		2-chlorotoluene	1.513	1.655	-9.4	76	0.00
95		n-propylbenzene	1.413	1.643	-16.3	78	0.00
96		4-chlorotoluene	3.879	4.255	-9.7	75	0.00
98		1,3,5-trimethylbenzene	3.926	4.822	-22.8	84	0.00
99		tert-butylbenzene	4.369	5.363	-22.8	80	-0.01
100		1,2,4-trimethylbenzene	3.767	4.888	-29.8	83	-0.01
103		1,3-dichlorobenzene	3.091	3.806	-23.1	83	-0.02
104	C	1,4-dichlorobenzene	3.082	3.768	-22.3	83	-0.02
105		sec-butylbenzene	5.961	7.274	-22.0	79	-0.02
107		p-isopropyltoluene	5.021	6.090	-21.3	78	-0.02
108		1,2-dichlorobenzene	2.864	3.616	-26.3	85	-0.02
109		n-butylbenzene	4.479	5.862	-30.9#	84	-0.02
112	C	1,2-dibromo-3-chloropropane	1.085	1.390	-28.1	80	-0.03
116	C	1,2,4-trichlorobenzene	2.060	3.047	-47.9#	88	-0.03
117		naphthalene	4.571	5.969	-30.6#	85	-0.03
118		1,2,3-trichlorobenzene	2.249	3.307	-47.0#	95	-0.03
120	C	hexachlorobutadiene	2.293	3.388	-47.8#	89	-0.04

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 2

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-2,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	151117	10.000	ppbV	0.00
Standard Area = 151117			Recovery = 100.00%			
43) 1,4-difluorobenzene	12.549	114	485506	10.000	ppbV	0.00
Standard Area = 485506			Recovery = 100.00%			
68) chlorobenzene-D5	16.908	54	90670	10.000	ppbV	0.00
Standard Area = 90670			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	313288	8.402	ppbV	100
6) chloromethane	4.554	50	91175	7.869	ppbV	95
9) vinyl chloride	4.871	62	105483	8.026	ppbV	98
13) bromomethane	5.461	94	110539	8.205	ppbV	98
14) chloroethane	5.716	64	49702	8.451	ppbV	95
19) acetone	6.560	43	146628	9.393	ppbV	94
21) trichlorofluoromethane	6.780	101	316735	8.287	ppbV	98
25) ethyl ether	7.307	31	107359	8.221	ppbV	99
26) 1,1-dichloroethene	7.612	61	175354	8.272	ppbV	98
28) methylene chloride	7.779	49	133076	8.421	ppbV	98
30) carbon disulfide	8.109	76	291779	7.892	ppbV	100
32) trans-1,2-dichloroethene	8.941	61	209662	8.192	ppbV	96
33) 1,1-dichloroethane	9.182	63	179020	7.814	ppbV	98
34) MTBE	9.266	73	223194	8.307	ppbV	99
36) 2-butanone	9.661	43	169147	8.706	ppbV	97
37) cis-1,2-dichloroethene	10.169	61	134292	8.286	ppbV	91
40) Tetrahydrofuran	10.964	42	93667	9.635	ppbV	99
41) 2,2-dichloropropane	10.539	77	181402	8.356	ppbV	96
42) 1,2-dichloroethane	11.350	62	141493	9.079	ppbV	99
45) diisopropyl ether	10.424	87	67691	8.675	ppbV #	87
46) tert-butyl ethyl ether	11.034	59	257004	8.781	ppbV	98
48) 1,1,1-trichloroethane	11.637	97	225293	8.344	ppbV	98
49) 1,1-dichloropropene	11.991	75	160819	8.187	ppbV	96
52) carbon tetrachloride	12.325	117	246324	8.259	ppbV	97
54) tert-amyl methyl ether	12.821	73	241881	9.003	ppbV	95
55) dibromomethane	13.043	93	137325	8.033	ppbV #	87
56) 1,2-dichloropropane	13.074	63	108348	8.762	ppbV	97
57) bromodichloromethane	13.296	83	226724	8.312	ppbV	97
58) 1,4-dioxane	13.334	88	64357	9.819	ppbV #	78
63) cis-1,3-dichloropropene	14.310	75	159024	8.995	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-2,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

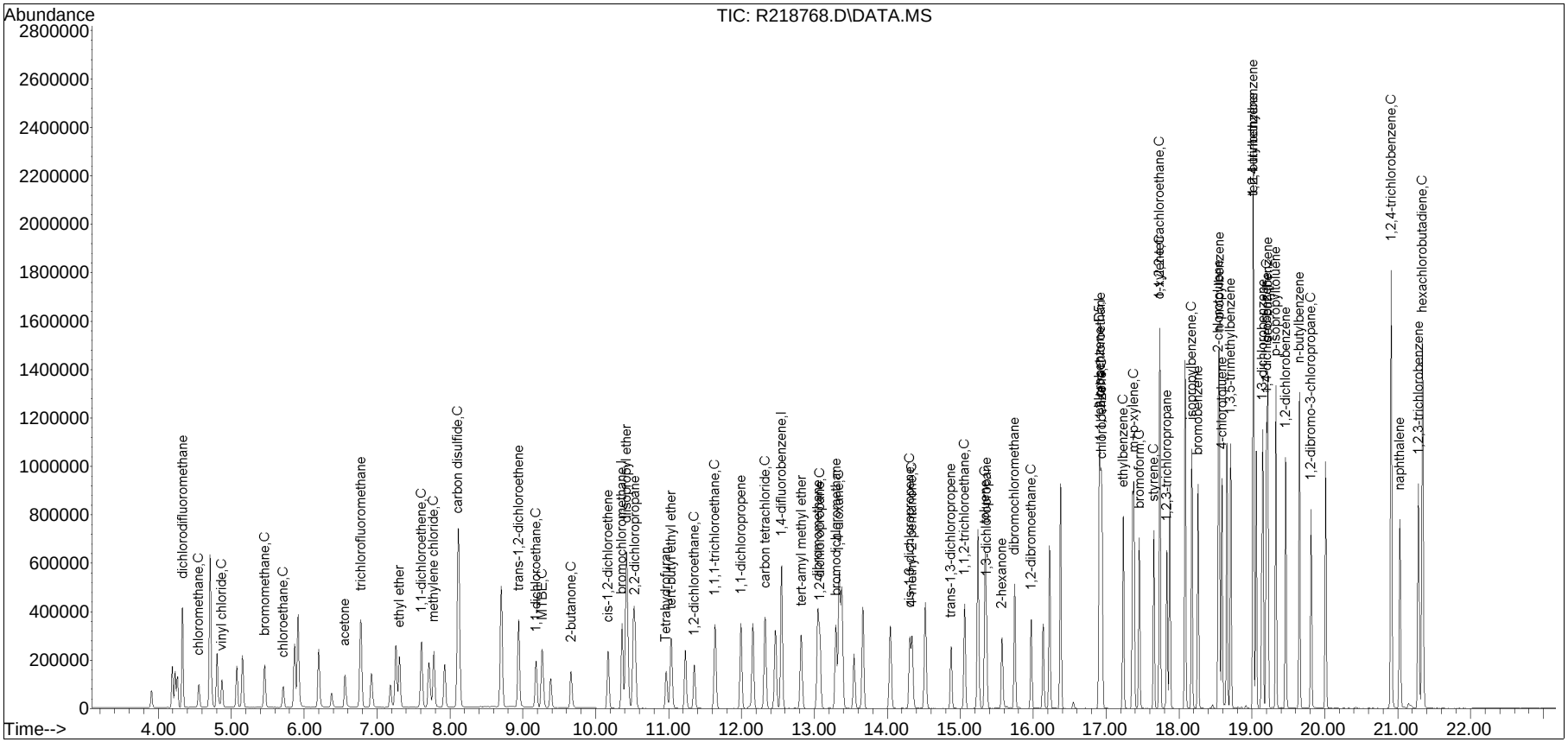
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64)	4-methyl-2-pentanone	14.338	43	210541	9.560	ppbV		96
66)	trans-1,3-dichloropropene	14.872	75	130614	7.662	ppbV		98
67)	1,1,2-trichloroethane	15.062	97	126758	9.205	ppbV		96
69)	toluene	15.341	91	374629	10.216	ppbV		98
72)	1,3-dichloropropane	15.359	76	161151	9.785	ppbV		95
73)	2-hexanone	15.570	43	197201	10.918	ppbV		97
75)	dibromochloromethane	15.746	129	248562	10.600	ppbV		99
76)	1,2-dibromoethane	15.974	107	203889	10.488	ppbV		95
80)	1,1,1,2-tetrachloroethane	16.925	131	178619	10.071	ppbV		95
81)	chlorobenzene	16.941	112	313160	10.667	ppbV		97
82)	ethylbenzene	17.238	91	455016	11.088	ppbV		98
84)	m+p-xylene	17.380	91	713085	22.079	ppbV		97
85)	bromoform	17.456	173	262500	10.520	ppbV		99
86)	styrene	17.654	104	268150	11.339	ppbV		99
87)	1,1,2,2-tetrachloroethane	17.736	83	276116	11.766	ppbV		99
88)	o-xylene	17.736	91	412766	11.944	ppbV		99
89)	1,2,3-trichloropropane	17.832	75	227571	11.273	ppbV		99
92)	isopropylbenzene	18.174	105	526431	11.230	ppbV		99
93)	bromobenzene	18.261	77	247791	9.957	ppbV	#	82
94)	2-chlorotoluene	18.541	126	150040	10.940	ppbV		82
95)	n-propylbenzene	18.552	120	149008	11.632	ppbV		91
96)	4-chlorotoluene	18.588	91	385774	10.968	ppbV		98
98)	1,3,5-trimethylbenzene	18.709	105	437230	12.282	ppbV		98
99)	tert-butylbenzene	19.017	119	486290	12.275	ppbV		98
100)	1,2,4-trimethylbenzene	19.017	105	443159	12.975	ppbV		98
103)	1,3-dichlorobenzene	19.149	146	345088	12.311	ppbV		94
104)	1,4-dichlorobenzene	19.200	146	341667	12.226	ppbV		96
105)	sec-butylbenzene	19.216	105	659528	12.202	ppbV		99
107)	p-isopropyltoluene	19.328	119	552214	12.129	ppbV		98
108)	1,2-dichlorobenzene	19.462	146	327863	12.625	ppbV		96
109)	n-butylbenzene	19.651	91	531486	13.086	ppbV		99
112)	1,2-dibromo-3-chloropr...	19.812	75	126035	12.806	ppbV		87
116)	1,2,4-trichlorobenzene	20.909	180	276276	14.790	ppbV		95
117)	naphthalene	21.028	128	541220	13.060	ppbV		99
118)	1,2,3-trichlorobenzene	21.285	180	299872	14.704	ppbV	#	97
120)	hexachlorobutadiene	21.337	225	307218	14.779	ppbV	#	92

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

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-2,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2012Q	Method	: TALL111221.M
Data File	: R218768.D	Operator	: AIRPIANO2:ry
Date Inj'd	: 1/5/2012 17:06	Instrument	: Air Piano 2
Sample	: WG511601-2,3,250,250	Quant Date	: 1/5/2012 5:35 pm

There are no manual integrations or false positives in this file.

Sample Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218773.D
Acq On : 5 Jan 2012 20:52
Operator : AIRPIANO2:MB
Sample : L1200006-07,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 06 09:28:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	135729	10.000	ppbV	0.00
Standard Area = 151117			Recovery = 89.82%			
43) 1,4-difluorobenzene	12.550	114	410072	10.000	ppbV	0.00
Standard Area = 485506			Recovery = 84.46%			
68) chlorobenzene-D5	16.906	54	78666	10.000	ppbV	0.00
Standard Area = 90670			Recovery = 86.76%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334		0	N.D.		
6) chloromethane	4.565		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
19) acetone	6.612	43	3370	0.240	ppbV #	80
21) trichlorofluoromethane	6.781		0	N.D.		
25) ethyl ether	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	7.786	49	6268	0.442	ppbV	92
30) carbon disulfide	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.713		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
45) diisopropyl ether	0.000		0	N.D.		
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	0.000		0	N.D.		
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	0.000		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218773.D
Acq On : 5 Jan 2012 20:52
Operator : AIRPIANO2:MB
Sample : L1200006-07,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 06 09:28:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

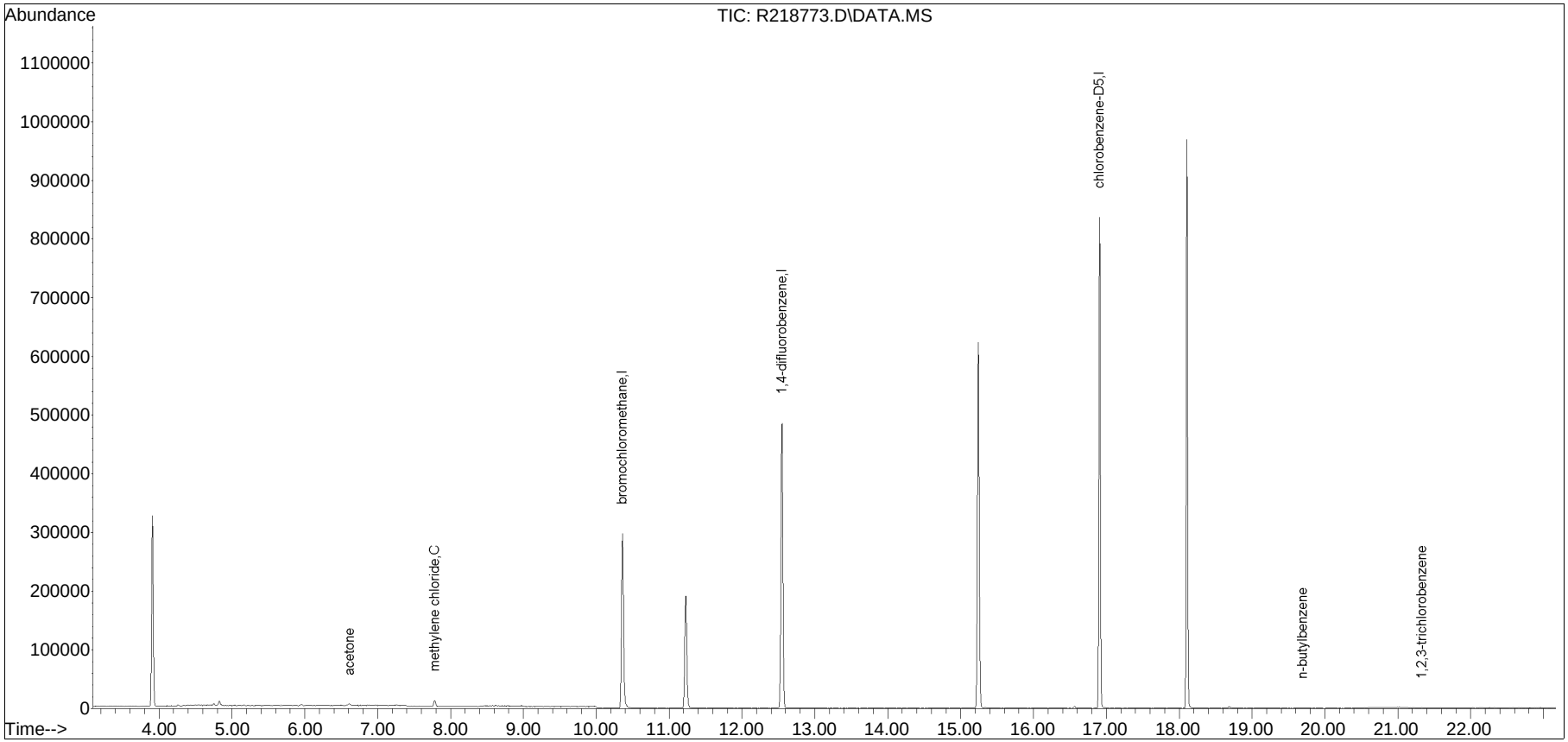
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 4-methyl-2-pentanone	0.000		0	N.D.		
66) trans-1,3-dichloropropene	0.000		0	N.D.		
67) 1,1,2-trichloroethane	0.000		0	N.D.		
69) toluene	15.346		0	N.D.		
72) 1,3-dichloropropane	0.000		0	N.D. d		
73) 2-hexanone	0.000		0	N.D.		
75) dibromochloromethane	0.000		0	N.D.		
76) 1,2-dibromoethane	0.000		0	N.D.		
80) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81) chlorobenzene	0.000		0	N.D.		
82) ethylbenzene	17.246		0	N.D.		
84) m+p-xylene	17.373		0	N.D.		
85) bromoform	0.000		0	N.D.		
86) styrene	0.000		0	N.D.		
87) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88) o-xylene	0.000		0	N.D.		
89) 1,2,3-trichloropropane	0.000		0	N.D.		
92) isopropylbenzene	0.000		0	N.D. d		
93) bromobenzene	0.000		0	N.D. d		
94) 2-chlorotoluene	0.000		0	N.D.		
95) n-propylbenzene	0.000		0	N.D.		
96) 4-chlorotoluene	0.000		0	N.D.		
98) 1,3,5-trimethylbenzene	0.000		0	N.D.		
99) tert-butylbenzene	0.000		0	N.D.		
100) 1,2,4-trimethylbenzene	0.000		0	N.D.		
103) 1,3-dichlorobenzene	0.000		0	N.D.		
104) 1,4-dichlorobenzene	0.000		0	N.D.		
105) sec-butylbenzene	0.000		0	N.D.		
107) p-isopropyltoluene	0.000		0	N.D.		
108) 1,2-dichlorobenzene	0.000		0	N.D.		
109) n-butylbenzene	19.695	91	31	0.001	ppbV #	49
112) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116) 1,2,4-trichlorobenzene	0.000		0	N.D.		
117) naphthalene	21.080		0	N.D.		
118) 1,2,3-trichlorobenzene	21.328	180	277	0.016	ppbV #	79
120) hexachlorobutadiene	0.000		0	N.D.		

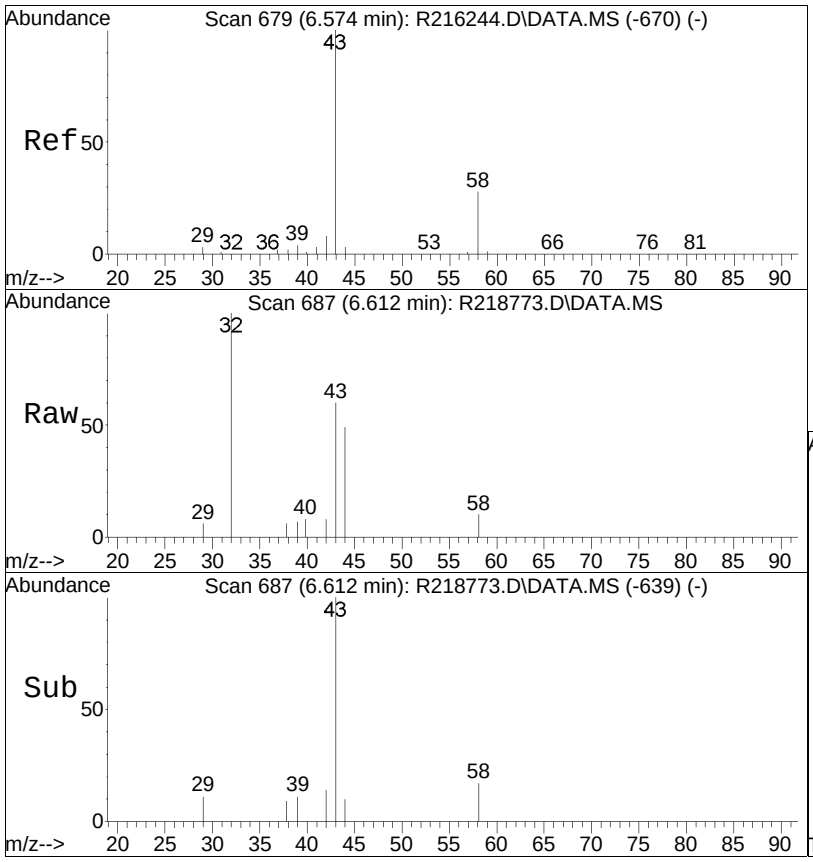
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218773.D
Acq On : 5 Jan 2012 20:52
Operator : AIRPIANO2:MB
Sample : L1200006-07,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 06 09:28:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

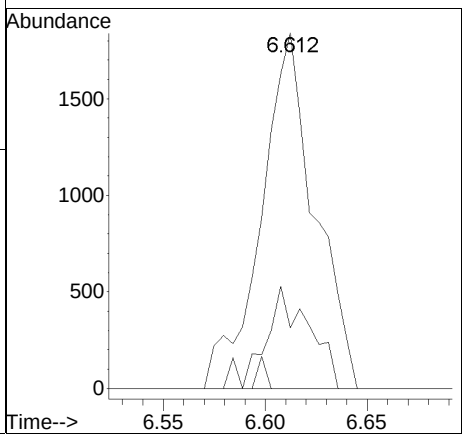


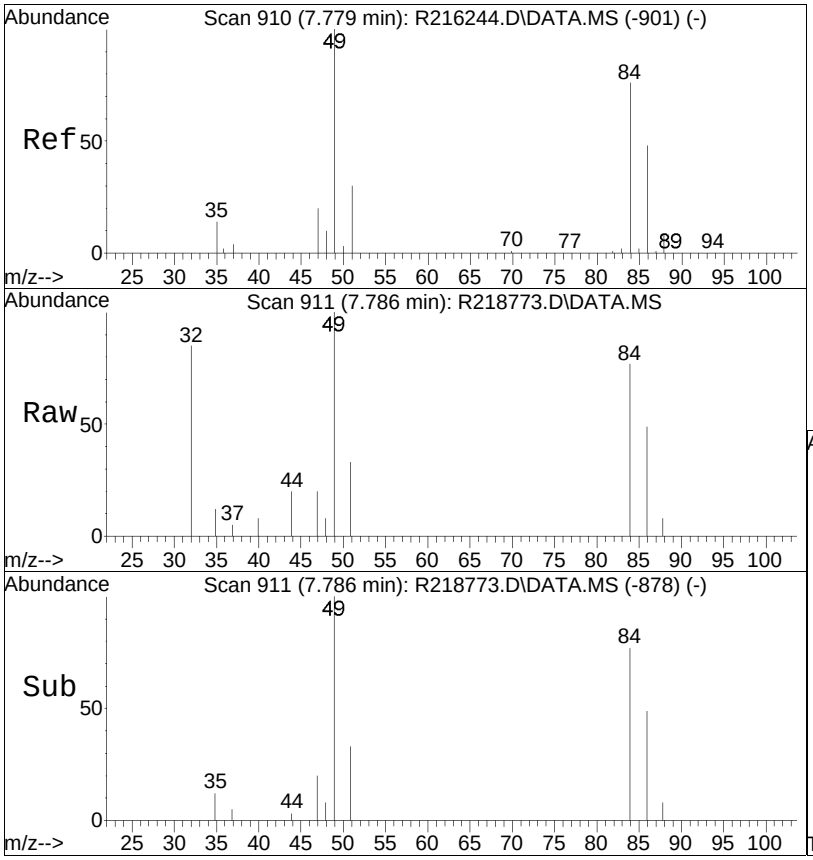


#19
acetone
Concen: 0.24 ppbV
RT: 6.612 min Scan# 687
Delta R.T. 0.038 min
Lab File: R218773.D
Acq: 5 Jan 2012 20:52

Tgt Ion: 43 Resp: 3370

Ion	Ratio	Lower	Upper
43	100		
58	17.1	22.2	33.2#
57	0.0	0.9	1.3#

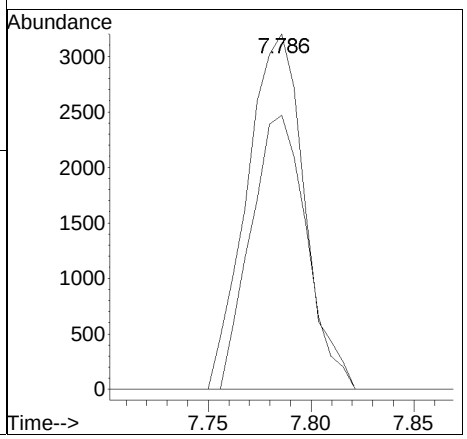


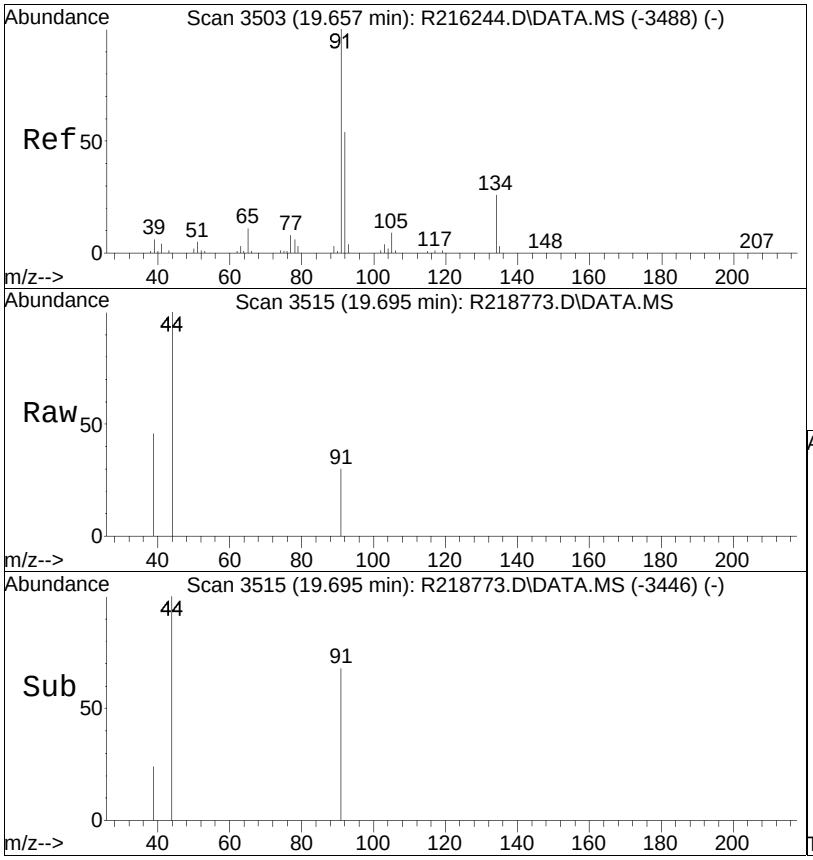


#28
methylene chloride
Concen: 0.44 ppbV
RT: 7.786 min Scan# 911
Delta R.T. -0.005 min
Lab File: R218773.D
Acq: 5 Jan 2012 20:52

Tgt Ion: 49 Resp: 6268

Ion	Ratio	Lower	Upper
49	100		
84	77.2	56.6	84.8

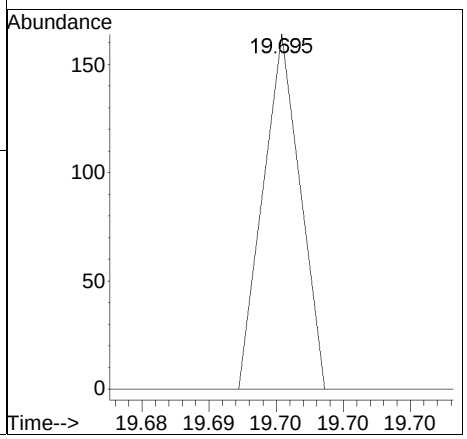


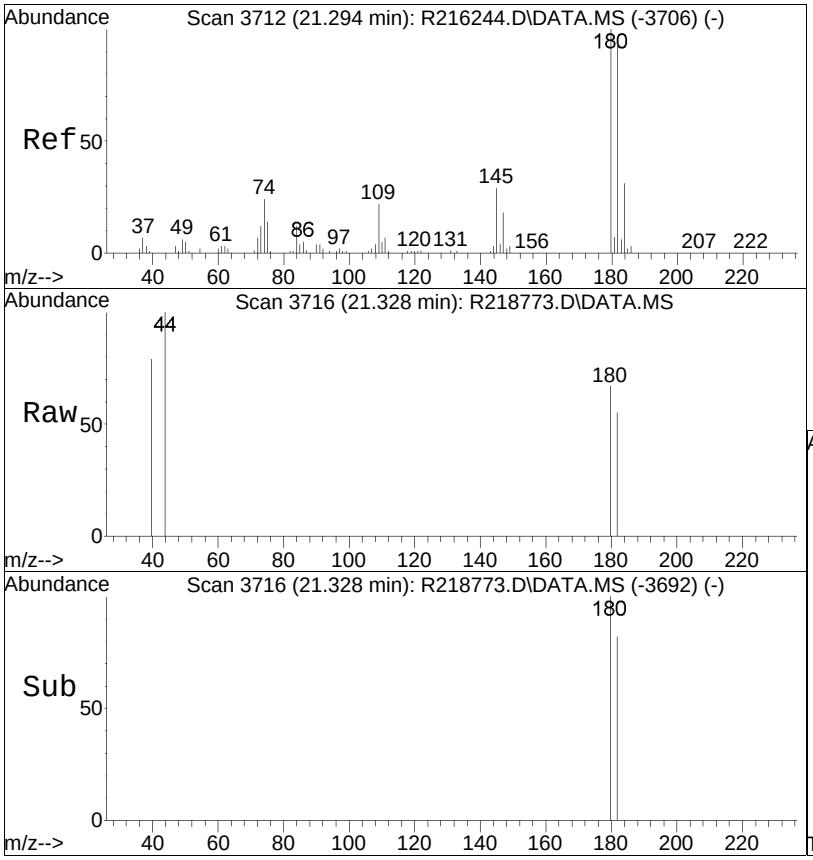


#109
n-butylbenzene
Concen: 0.00 ppbV
RT: 19.695 min Scan# 3515
Delta R.T. 0.022 min
Lab File: R218773.D
Acq: 5 Jan 2012 20:52

Tgt Ion: 91 Resp: 31

Ion	Ratio	Lower	Upper
91	100		
134	0.0	20.9	31.3#

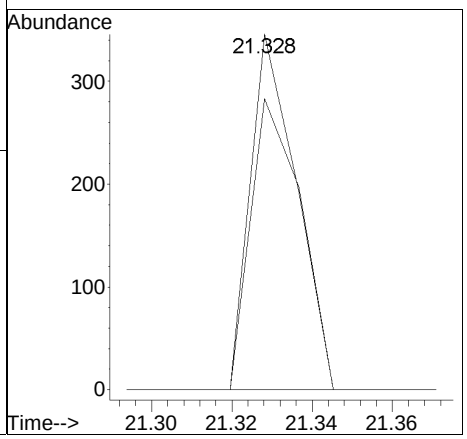




#118
1,2,3-trichlorobenzene
Concen: 0.02 ppbV
RT: 21.328 min Scan# 3716
Delta R.T. 0.008 min
Lab File: R218773.D
Acq: 5 Jan 2012 20:52

Tgt Ion:180 Resp: 277

Ion	Ratio	Lower	Upper
180	100		
182	81.8	76.9	115.3
109	0.0	17.9	26.9#

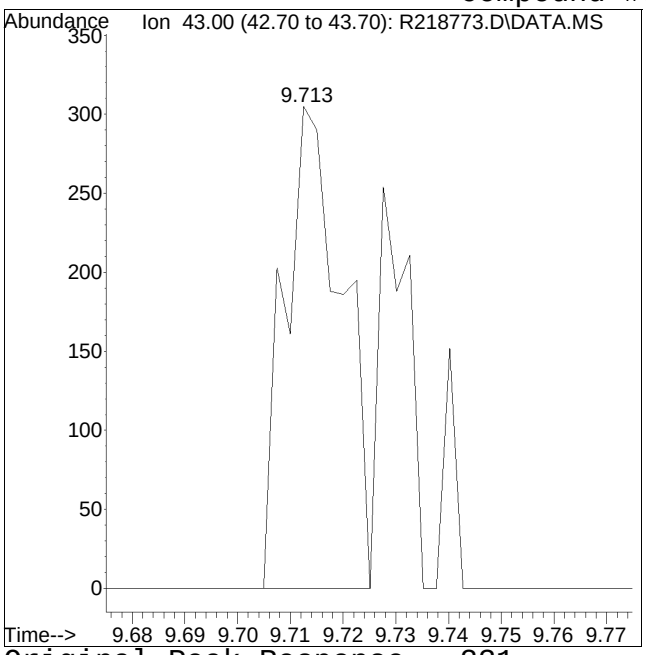


Manual Integration/Negative Proof Report

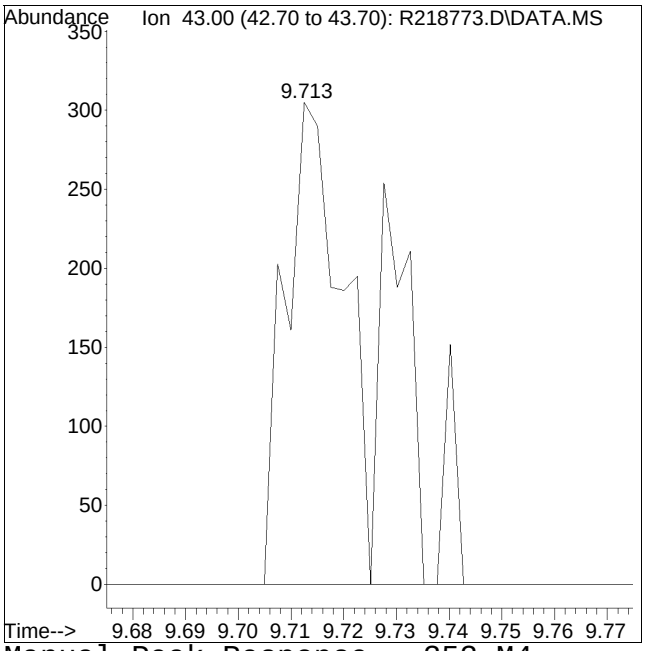
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218773.D
Date Inj'd : 1/5/2012 20:52
Sample : L1200006-07,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #36: 2-butanone



Original Peak Response = 231



Manual Peak Response = 353 M4

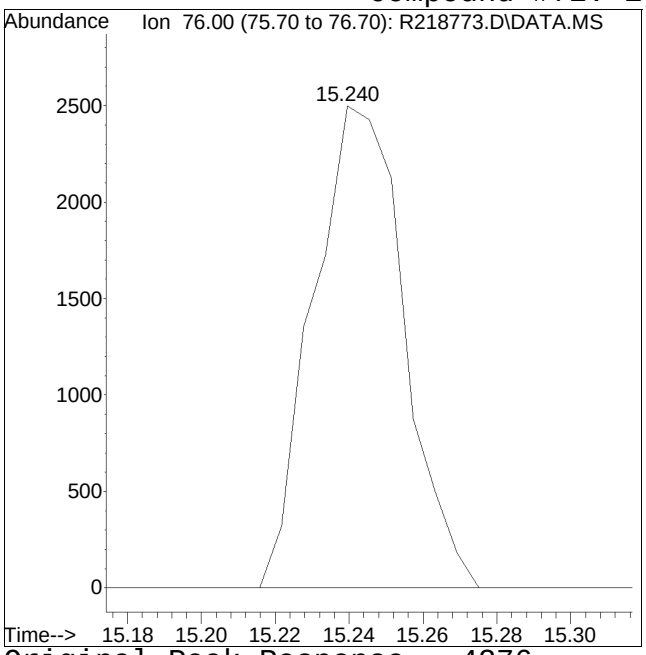
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

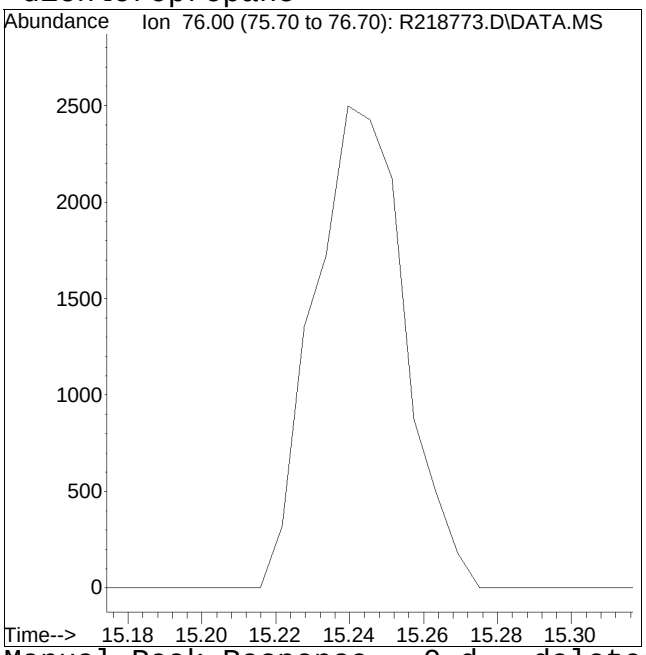
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218773.D
Date Inj'd : 1/5/2012 20:52
Sample : L1200006-07,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 4276



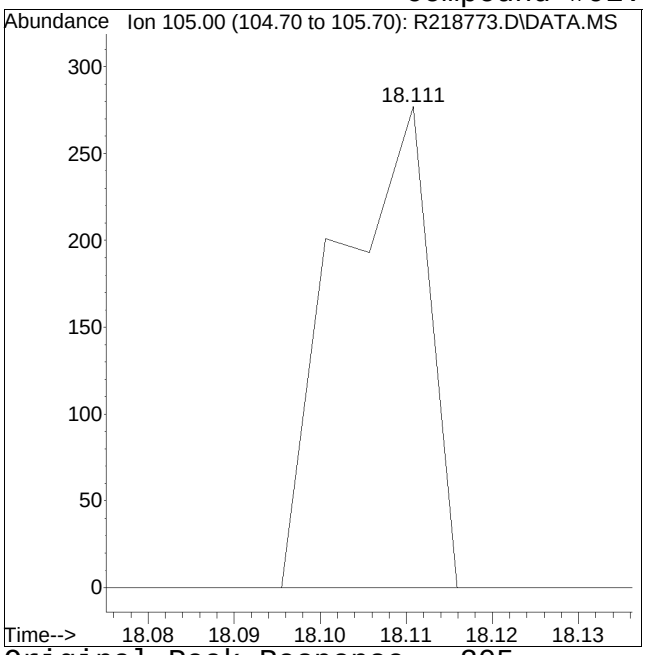
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

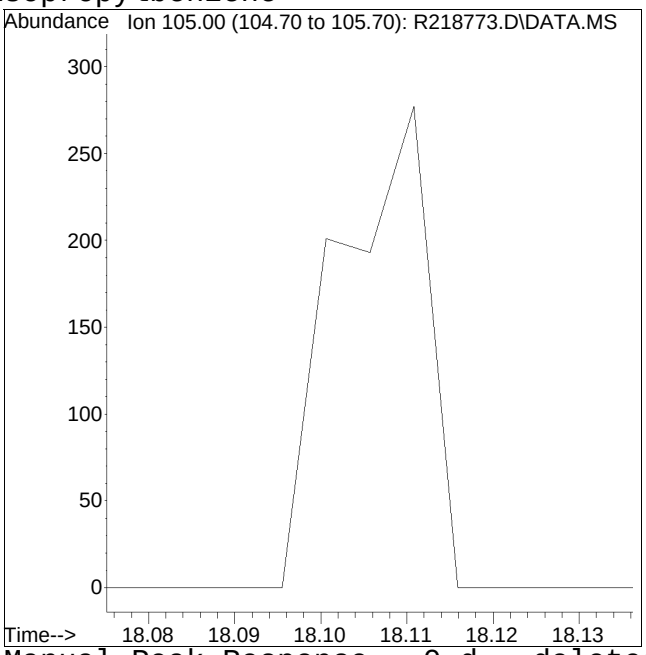
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218773.D
Date Inj'd : 1/5/2012 20:52
Sample : L1200006-07,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #92: isopropylbenzene



Original Peak Response = 205



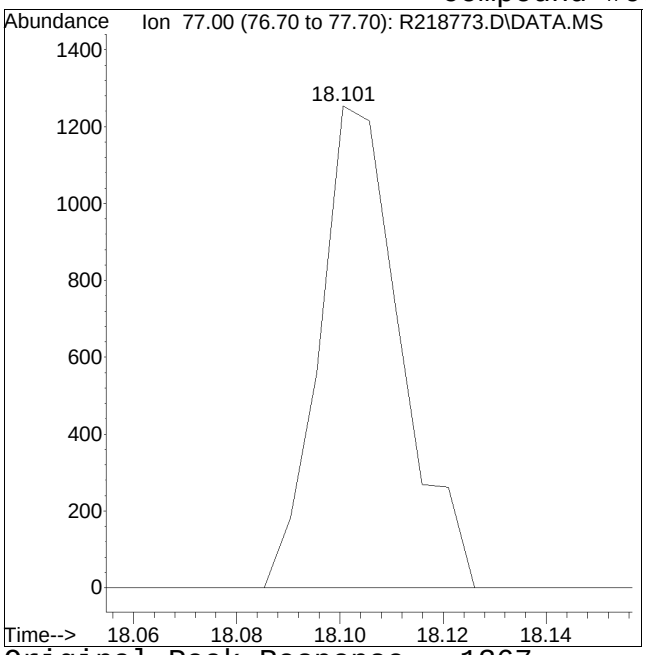
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

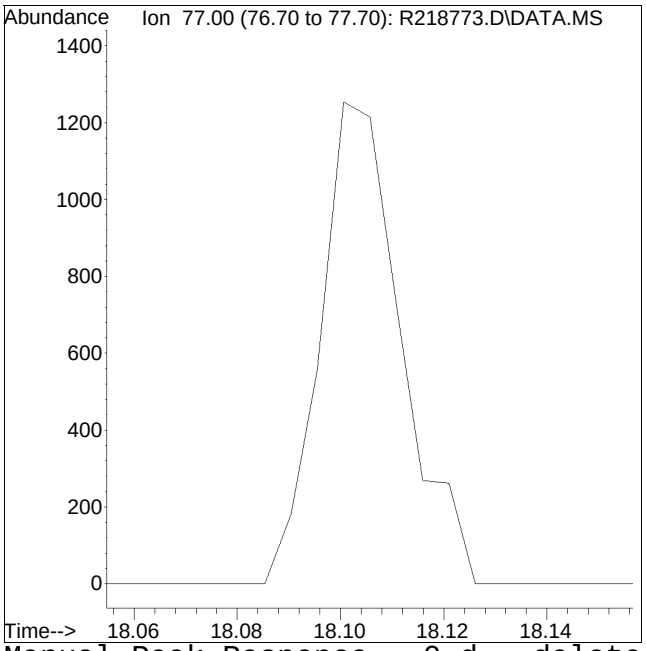
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218773.D
Date Inj'd : 1/5/2012 20:52
Sample : L1200006-07,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:51 am

Compound #93: bromobenzene



Original Peak Response = 1367



Manual Peak Response = 0 d - deleted

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218779.D
Acq On : 6 Jan 2012 00:27
Operator : AIRPIANO2:MB
Sample : L1200006-01,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 12:06:01 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	142731	10.000	ppbV	0.00
Standard Area = 151117			Recovery =		94.45%	
43) 1,4-difluorobenzene	12.549	114	423793	10.000	ppbV	0.00
Standard Area = 485506			Recovery =		87.29%	
68) chlorobenzene-D5	16.908	54	81403	10.000	ppbV	0.00
Standard Area = 90670			Recovery =		89.78%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	13144M2	0.373	ppbV	
6) chloromethane	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.	d	
14) chloroethane	0.000		0	N.D.	d	
19) acetone	6.584	43	123667M4	8.387	ppbV	
21) trichlorofluoromethane	6.785	101	8192	0.227	ppbV	96
25) ethyl ether	0.000		0	N.D.	d	
26) 1,1-dichloroethene	7.612		0	N.D.		
28) methylene chloride	7.785	49	8703	0.583	ppbV	96
30) carbon disulfide	8.119	76	1432	0.041	ppbV #	1
32) trans-1,2-dichloroethene	8.957		0	N.D.		
33) 1,1-dichloroethane	9.186		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.699	43	25070	1.366	ppbV #	96
37) cis-1,2-dichloroethene	0.000		0	N.D.	d	
40) Tetrahydrofuran	0.000		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	11.350	62	1154	0.078	ppbV #	85
45) diisopropyl ether	0.000		0	N.D.	d	
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.325	117	1772	0.068	ppbV #	91
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	13.051	93	180M4	0.012	ppbV	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	13.304		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218779.D
Acq On : 6 Jan 2012 00:27
Operator : AIRPIANO2:MB
Sample : L1200006-01,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 12:06:01 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

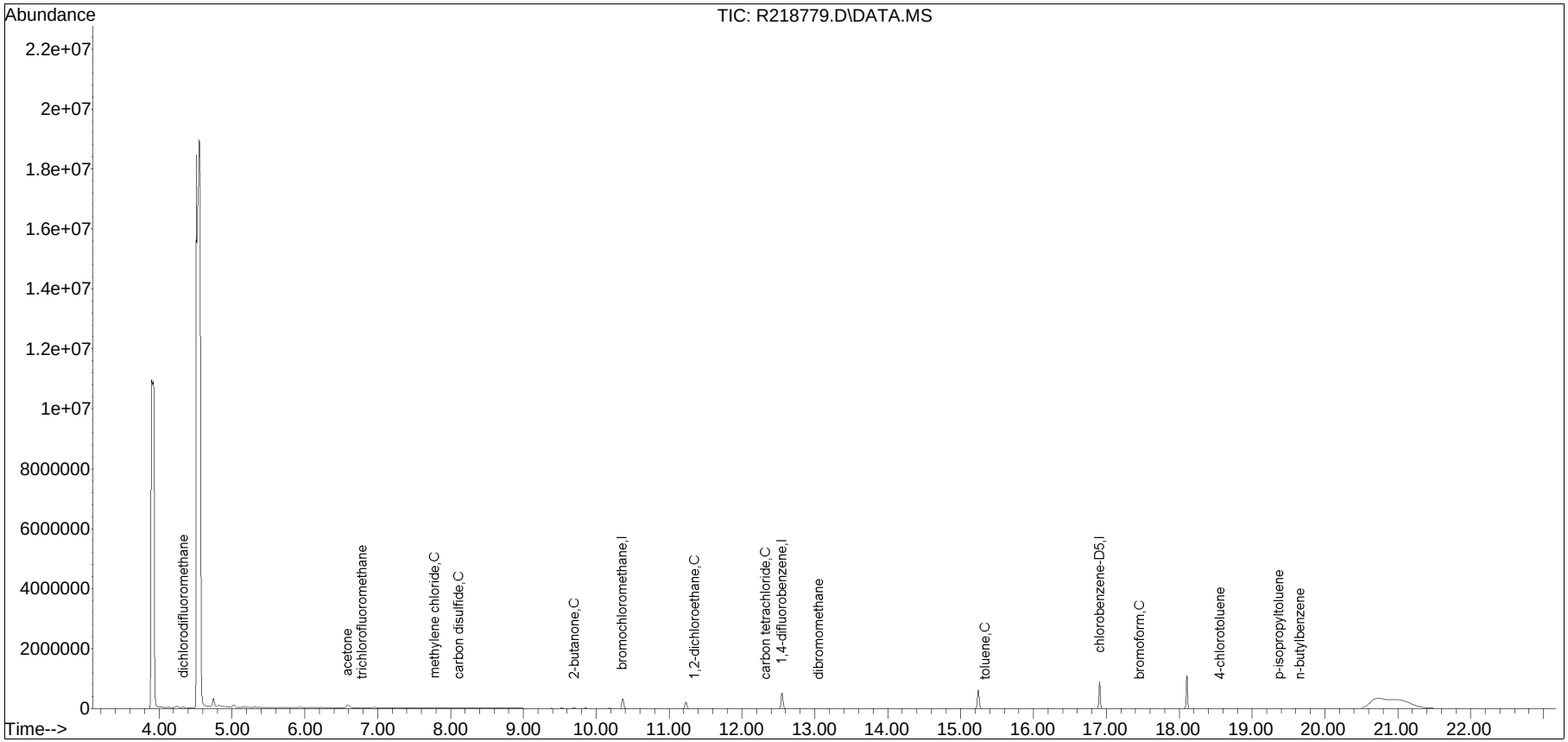
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64)	4-methyl-2-pentanone	14.417		0	N.D.		
66)	trans-1,3-dichloropropene	0.000		0	N.D.		
67)	1,1,2-trichloroethane	0.000		0	N.D.		
69)	toluene	15.341	91	4811	0.146	ppbV	100
72)	1,3-dichloropropane	0.000		0	N.D.	d	
73)	2-hexanone	0.000		0	N.D.	d	
75)	dibromochloromethane	15.752		0	N.D.		
76)	1,2-dibromoethane	0.000		0	N.D.		
80)	1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81)	chlorobenzene	0.000		0	N.D.		
82)	ethylbenzene	17.243		0	N.D.		
84)	m+p-xylene	17.365		0	N.D.		
85)	bromoform	17.461	173	3295	0.147	ppbV	93
86)	styrene	0.000		0	N.D.		
87)	1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88)	o-xylene	17.751		0	N.D.		
89)	1,2,3-trichloropropane	0.000		0	N.D.		
92)	isopropylbenzene	0.000		0	N.D.	d	
93)	bromobenzene	0.000		0	N.D.	d	
94)	2-chlorotoluene	0.000		0	N.D.		
95)	n-propylbenzene	0.000		0	N.D.		
96)	4-chlorotoluene	18.562	91	316M4	0.010	ppbV	
98)	1,3,5-trimethylbenzene	18.736		0	N.D.		
99)	tert-butylbenzene	0.000		0	N.D.		
100)	1,2,4-trimethylbenzene	19.050		0	N.D.		
103)	1,3-dichlorobenzene	0.000		0	N.D.		
104)	1,4-dichlorobenzene	0.000		0	N.D.		
105)	sec-butylbenzene	0.000		0	N.D.		
107)	p-isopropyltoluene	19.369	119	35	0.001	ppbV #	49
108)	1,2-dichlorobenzene	0.000		0	N.D.		
109)	n-butylbenzene	19.657	91	31	0.001	ppbV #	49
112)	1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116)	1,2,4-trichlorobenzene	0.000		0	N.D.		
117)	naphthalene	21.071		0	N.D.		
118)	1,2,3-trichlorobenzene	0.000		0	N.D.		
120)	hexachlorobutadiene	0.000		0	N.D.		

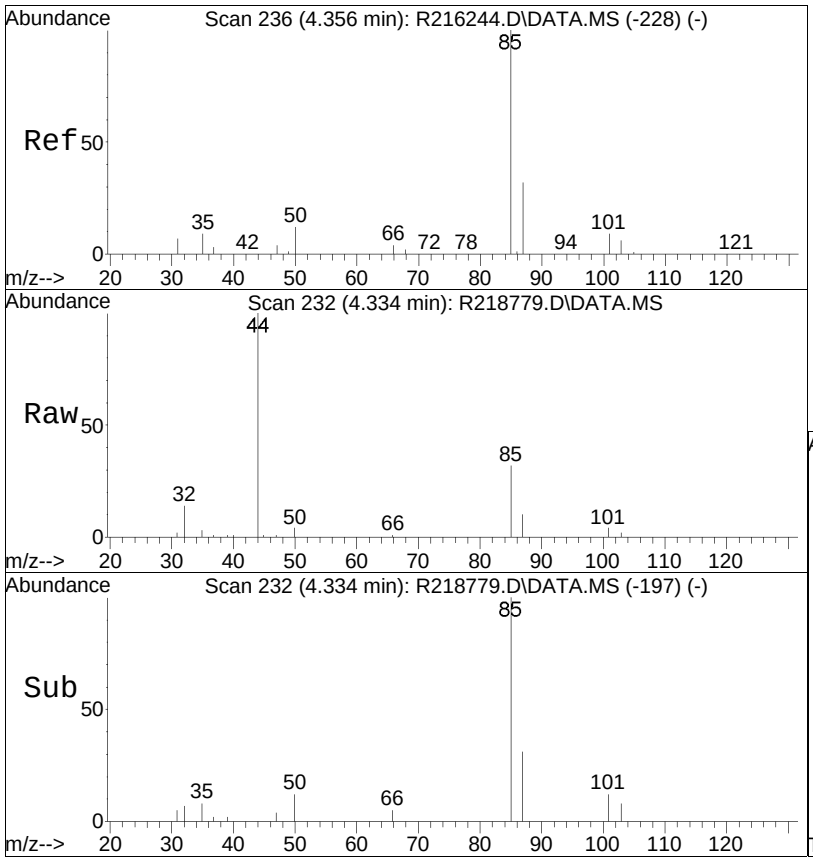
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218779.D
Acq On : 6 Jan 2012 00:27
Operator : AIRPIANO2:MB
Sample : L1200006-01,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 12:06:01 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

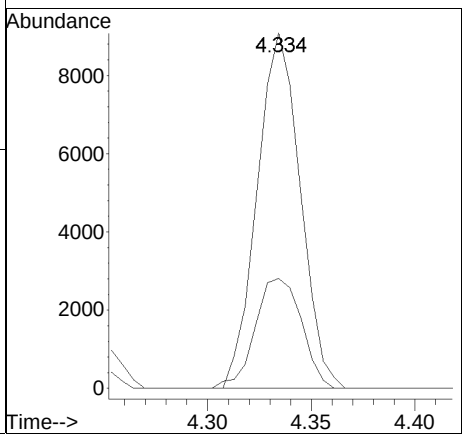


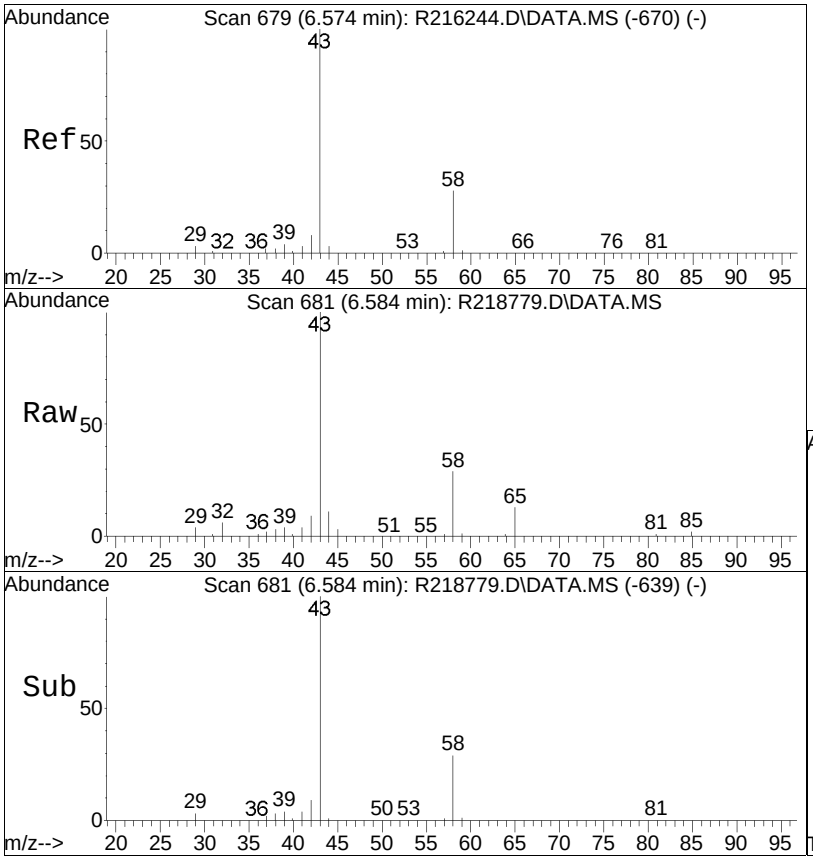


#5
dichlorodifluoromethane
Concen: 0.37 ppbV m
RT: 4.334 min Scan# 232
Delta R.T. -0.011 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 85 Resp: 13144

Ion	Ratio	Lower	Upper
85	100		
87	30.9	26.4	39.6

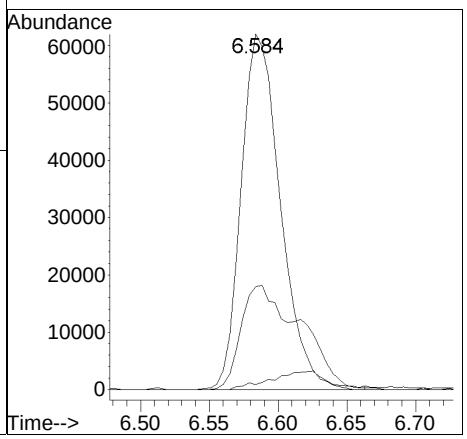


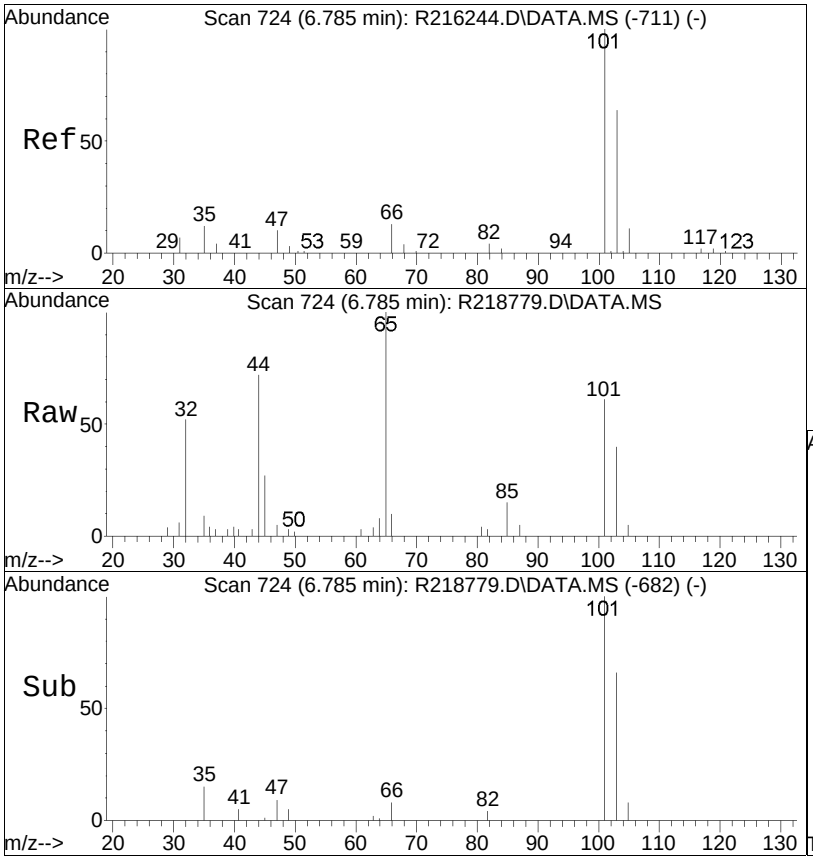


#19
acetone
Concen: 8.39 ppbV m
RT: 6.584 min Scan# 681
Delta R.T. 0.009 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 43 Resp: 123667

Ion	Ratio	Lower	Upper
43	100		
58	28.9	22.2	33.2
57	1.4	0.9	1.3#

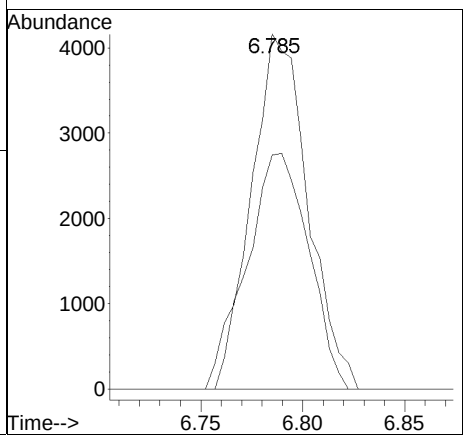


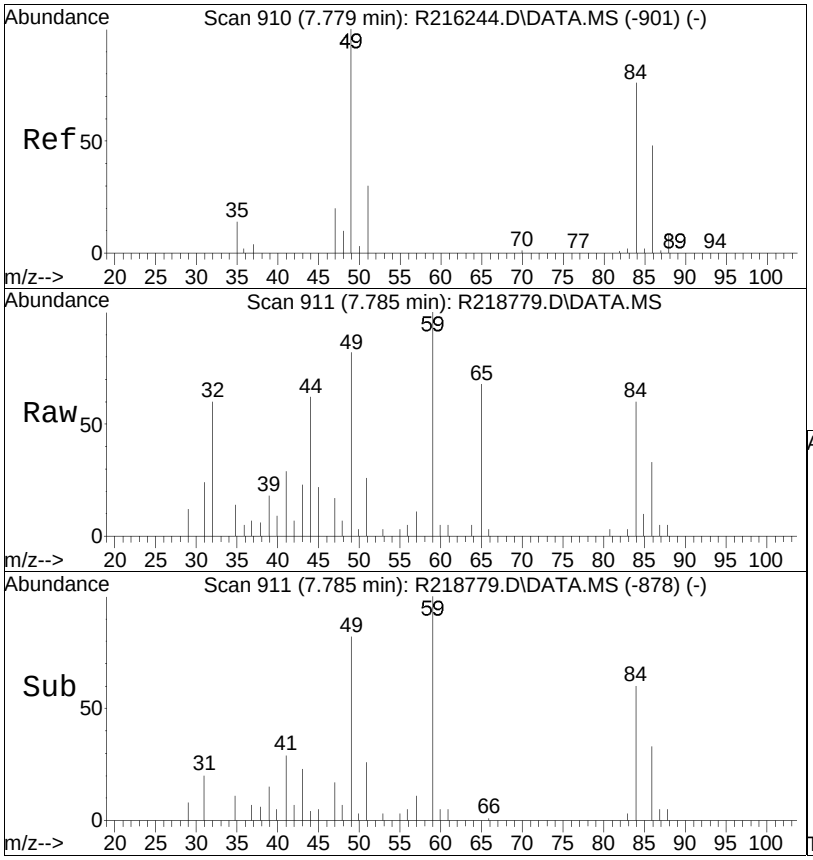


#21
trichlorofluoromethane
Concen: 0.23 ppbV
RT: 6.785 min Scan# 724
Delta R.T. -0.005 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion:101 Resp: 8192

Ion	Ratio	Lower	Upper
101	100		
103	65.9	50.2	75.2

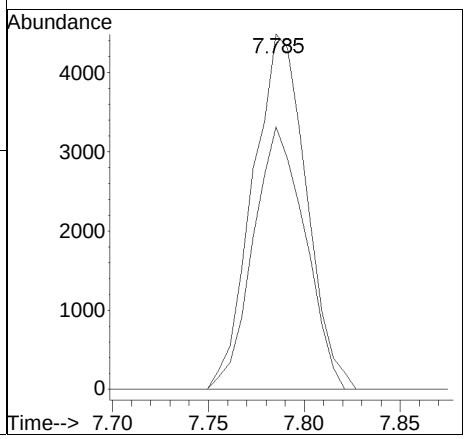


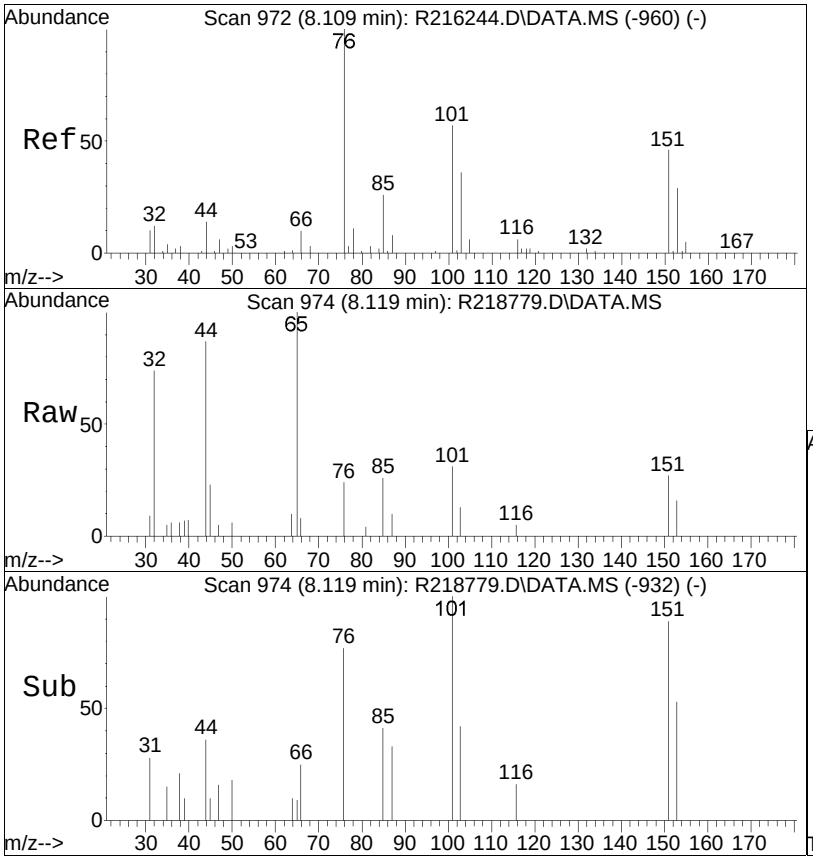


#28
methylene chloride
Concen: 0.58 ppbV
RT: 7.785 min Scan# 911
Delta R.T. -0.006 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 49 Resp: 8703

Ion	Ratio	Lower	Upper
49	100		
84	73.9	56.6	84.8

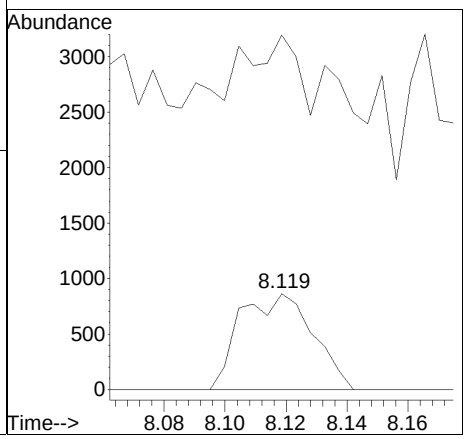


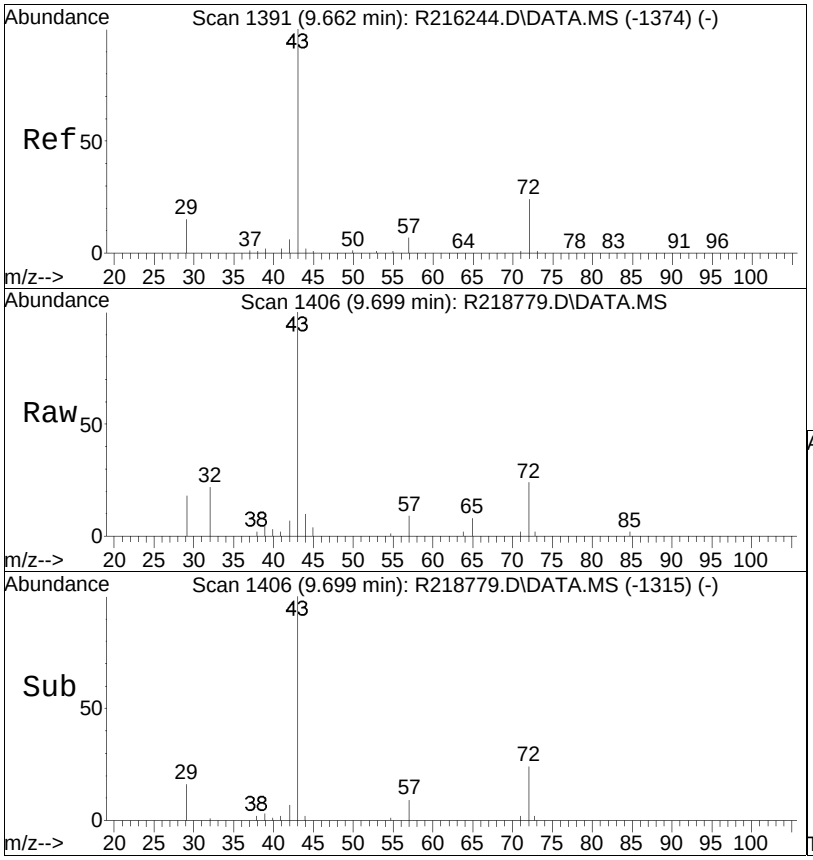


#30
carbon disulfide
Concen: 0.04 ppbV
RT: 8.119 min Scan# 974
Delta R.T. 0.000 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 76 Resp: 1432

Ion	Ratio	Lower	Upper
76	100		
44	370.1	12.2	18.4#

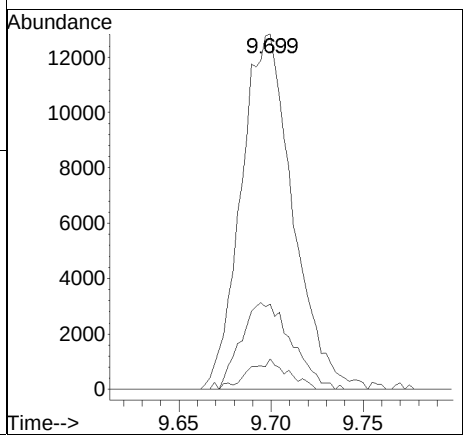


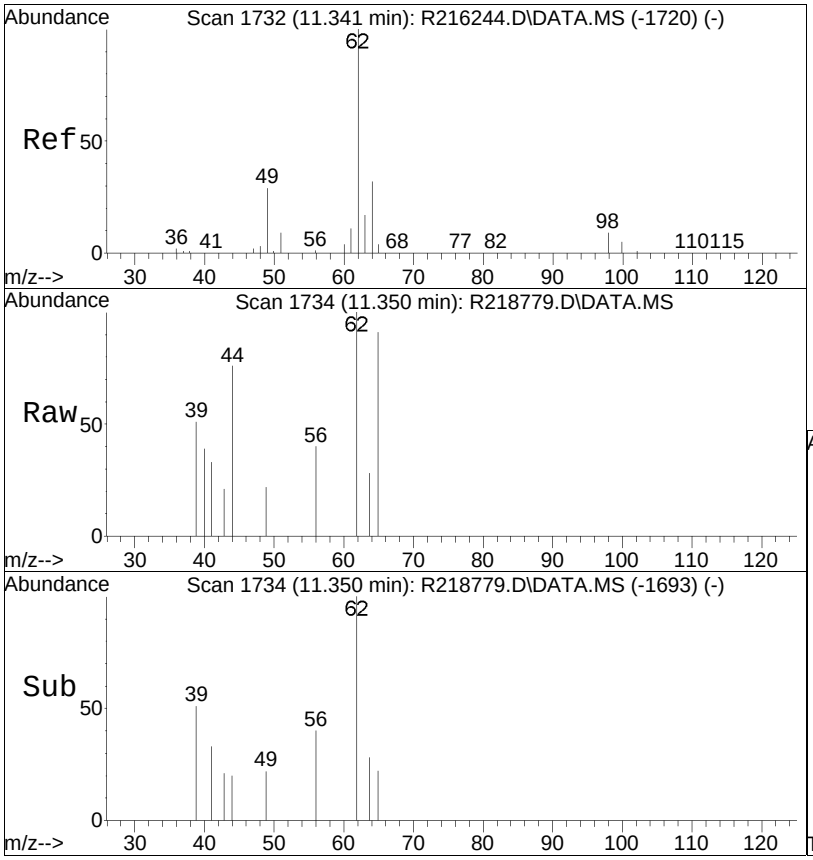


#36
2-butanone
Concen: 1.37 ppbV
RT: 9.699 min Scan# 1406
Delta R.T. 0.030 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 43 Resp: 25070

Ion	Ratio	Lower	Upper
43	100		
72	24.0	17.6	26.4
57	8.6	5.6	8.4#

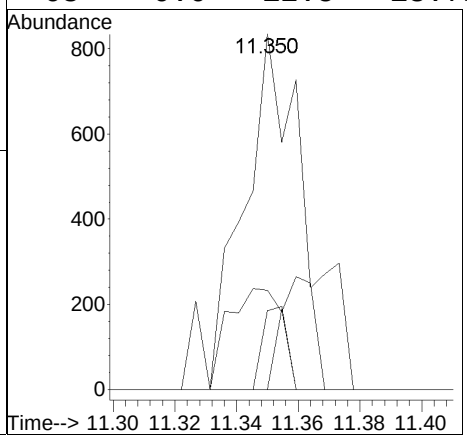


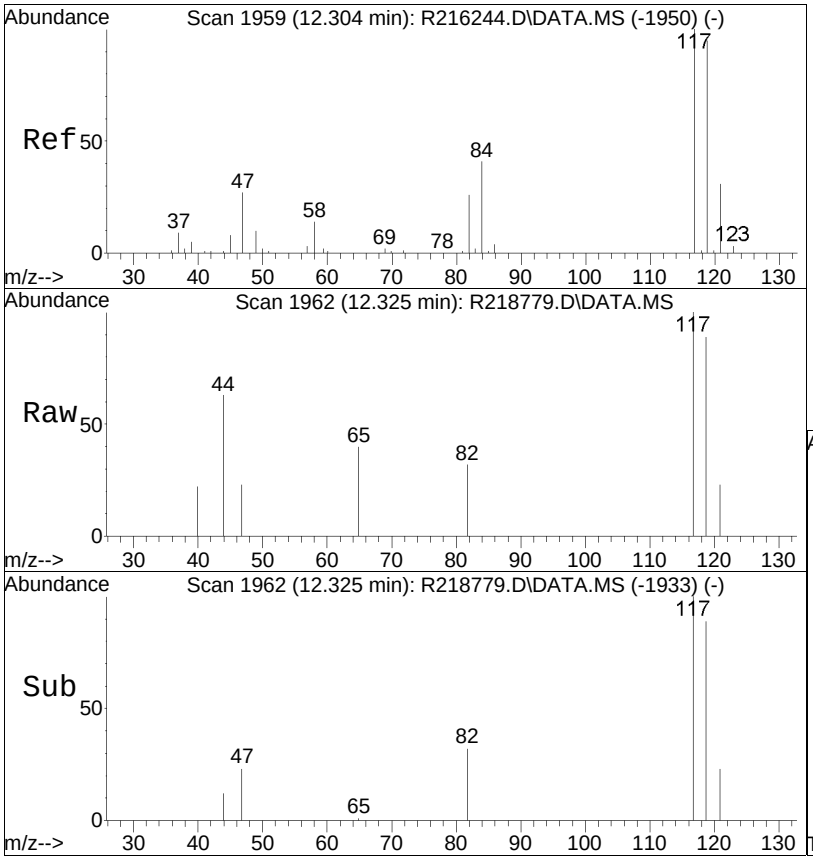


#42
1,2-dichloroethane
Concen: 0.08 ppbV
RT: 11.350 min Scan# 1734
Delta R.T. -0.009 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 62 Resp: 1154

Ion	Ratio	Lower	Upper
62	100		
64	27.9	24.4	36.6
49	22.2	23.3	34.9#
63	0.0	12.5	18.7#

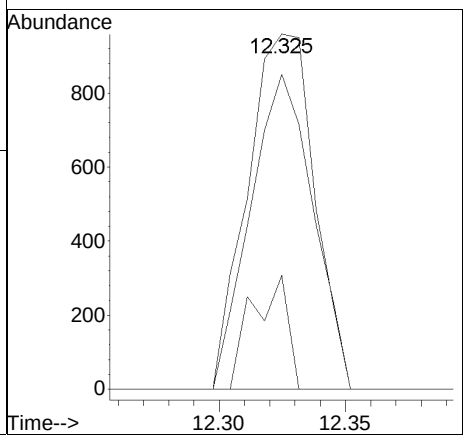


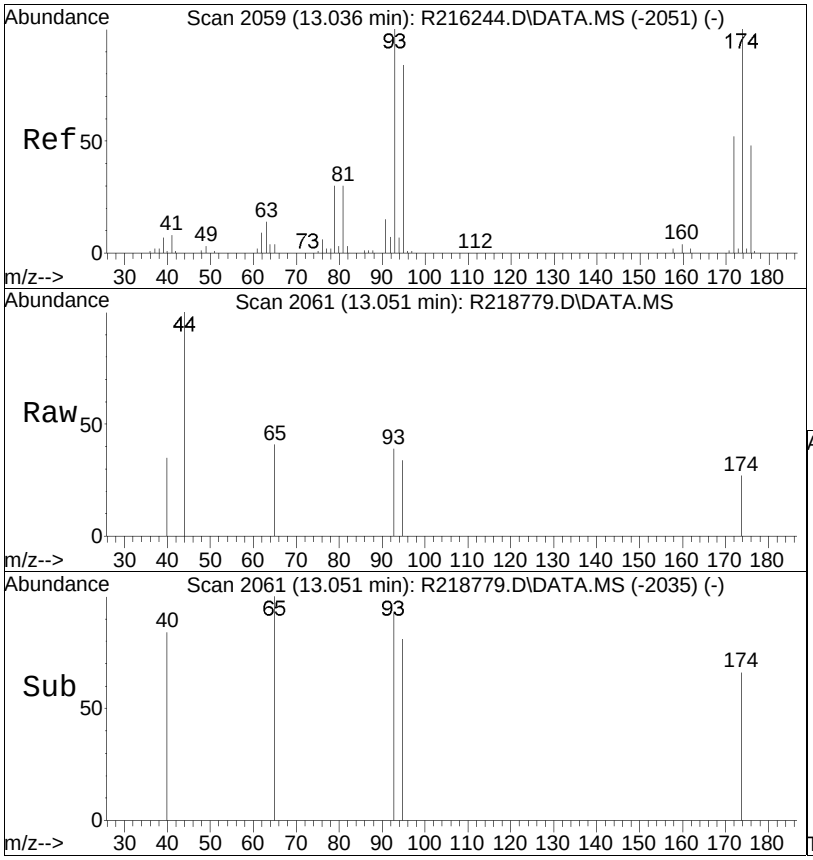


#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 12.325 min Scan# 1962
Delta R.T. 0.000 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion:117 Resp: 1772

Ion	Ratio	Lower	Upper
117	100		
119	88.6	76.8	115.2
82	32.0	19.4	29.0#

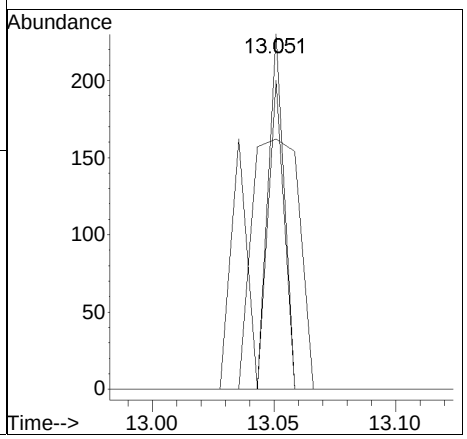


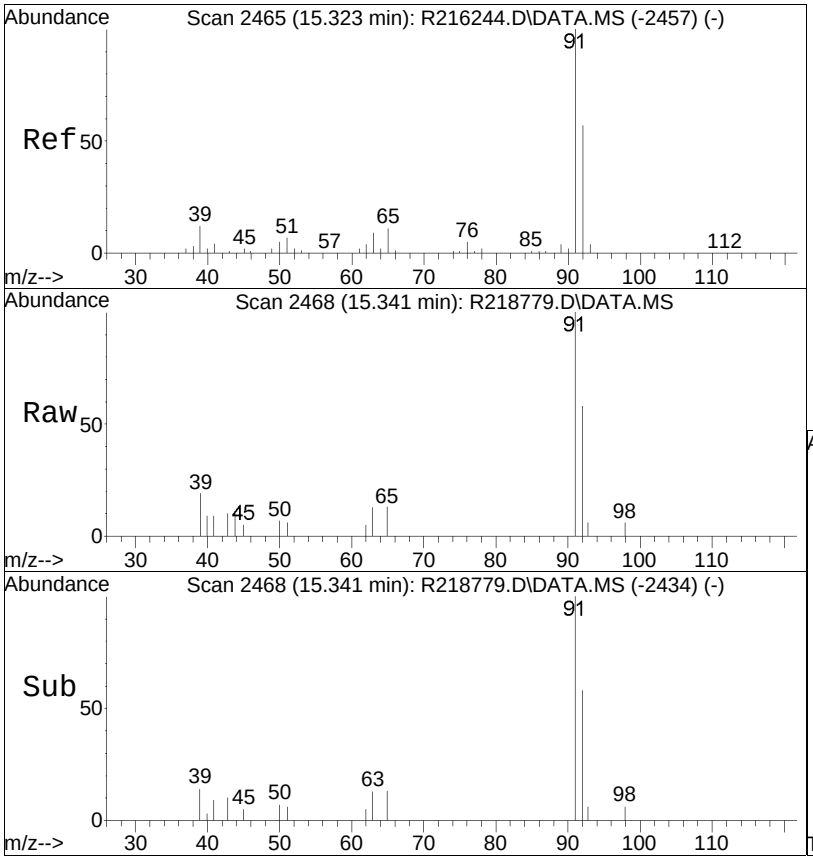


#55
dibromomethane
Concen: 0.01 ppbV m
RT: 13.051 min Scan# 2061
Delta R.T. 0.000 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 93 Resp: 180

Ion	Ratio	Lower	Upper
93	100		
174	70.4	79.0	118.4#
95	87.0	68.4	102.6

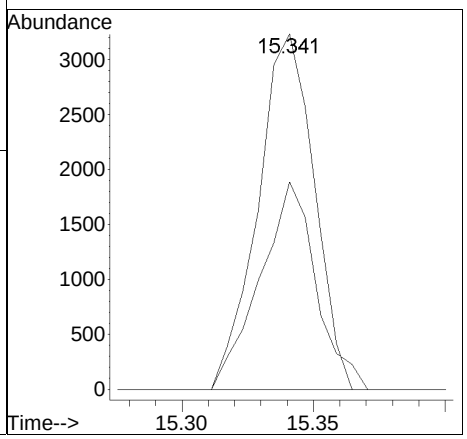


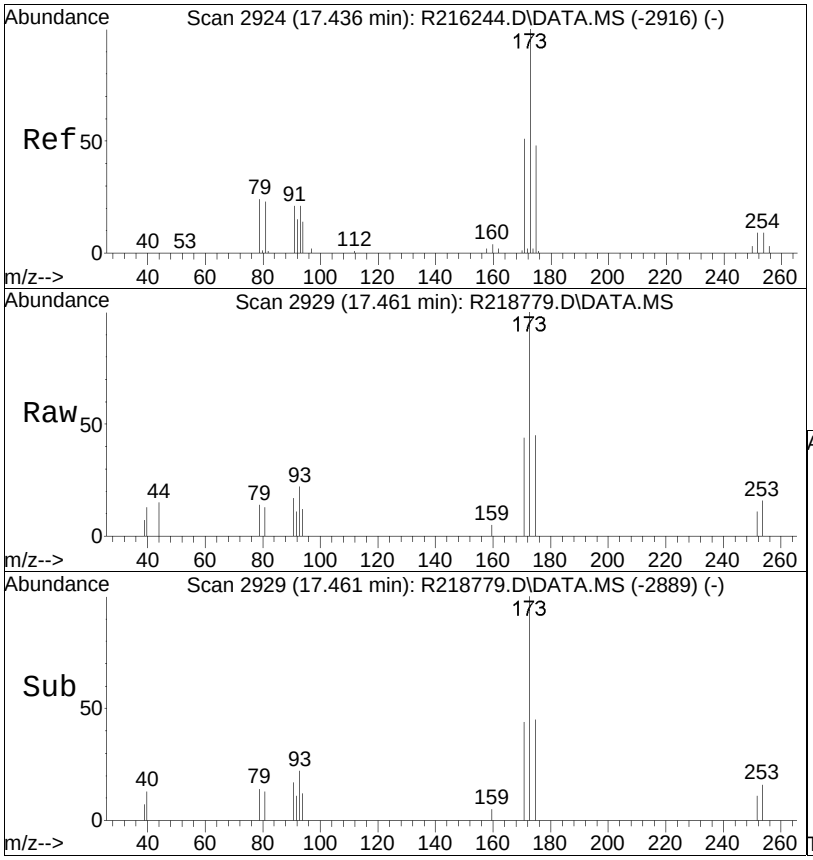


#69
toluene
Concen: 0.15 ppbV
RT: 15.341 min Scan# 2468
Delta R.T. 0.000 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 91 Resp: 4811

Ion	Ratio	Lower	Upper
91	100		
92	58.4	47.0	70.4

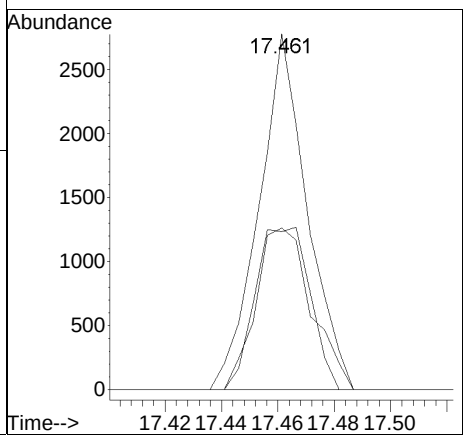


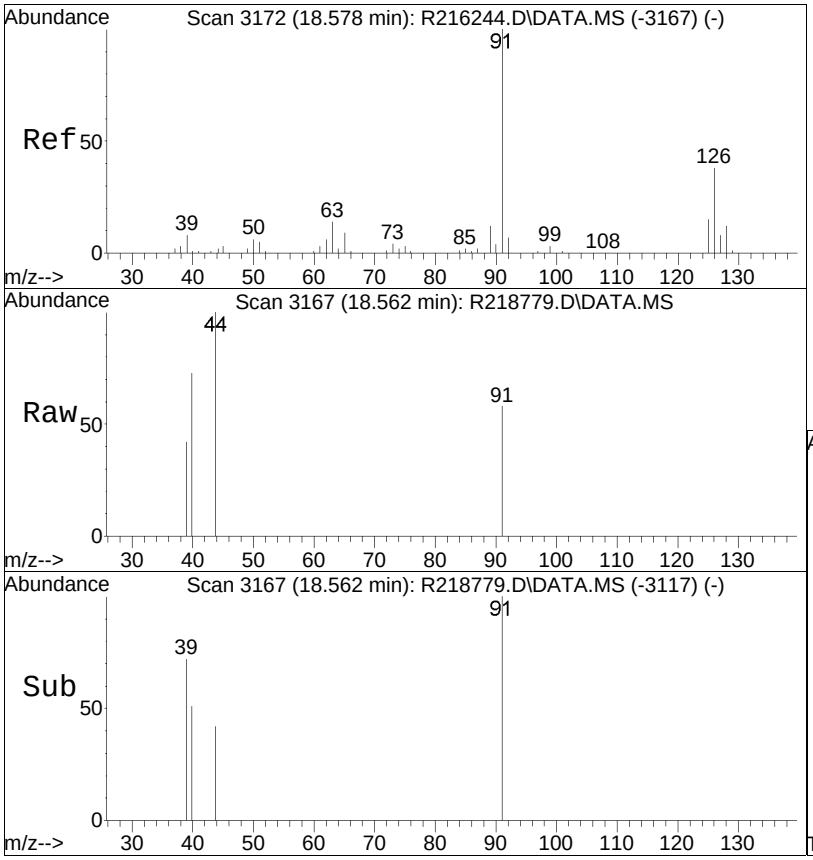


#85
bromoform
Concen: 0.15 ppbV
RT: 17.461 min Scan# 2929
Delta R.T. 0.005 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion:173 Resp: 3295

Ion	Ratio	Lower	Upper
173	100		
175	45.4	38.6	57.8
171	44.4	41.2	61.8

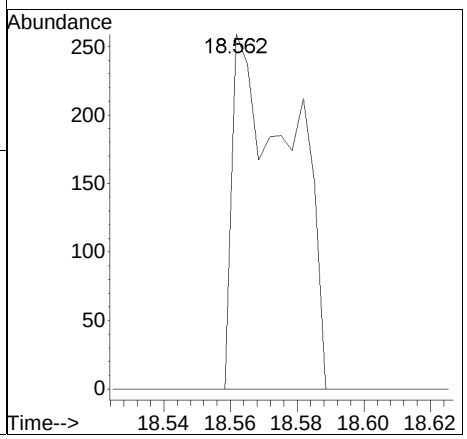


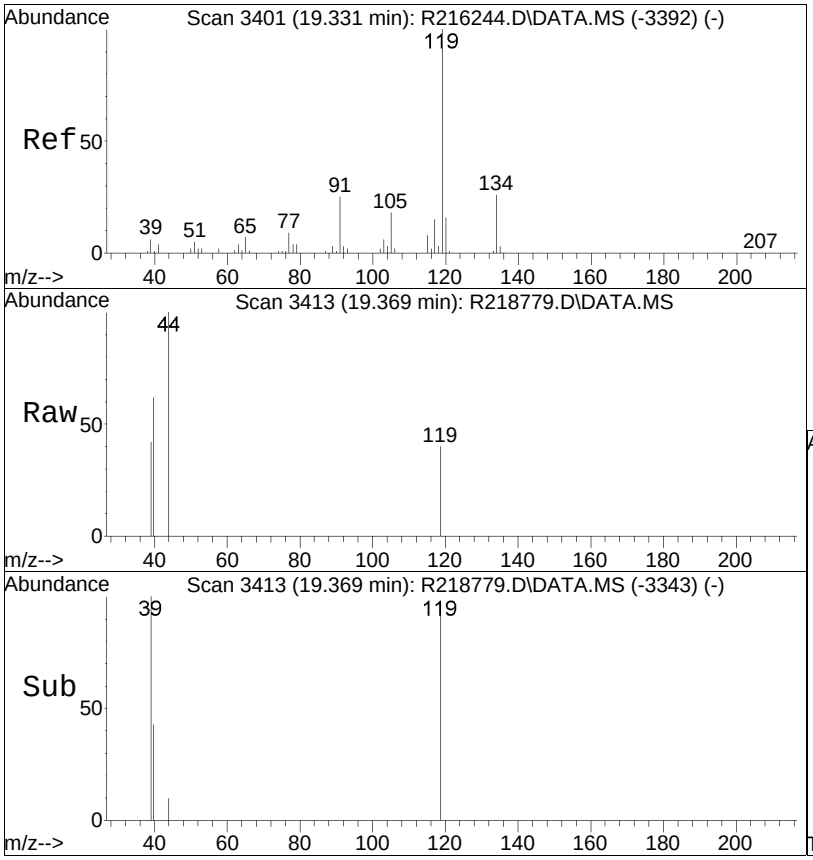


#96
4-chlorotoluene
Concen: 0.01 ppbV m
RT: 18.562 min Scan# 3167
Delta R.T. -0.033 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 91 Resp: 316

Ion	Ratio	Lower	Upper
91	100		
126	0.0	28.2	42.2#

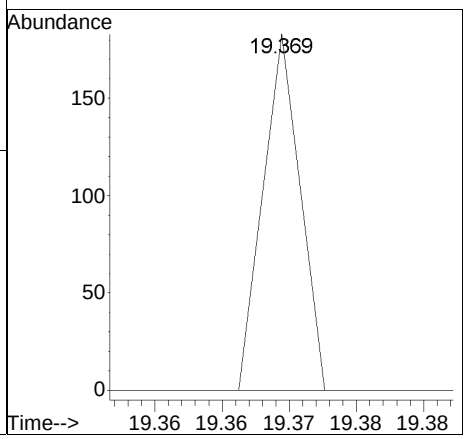


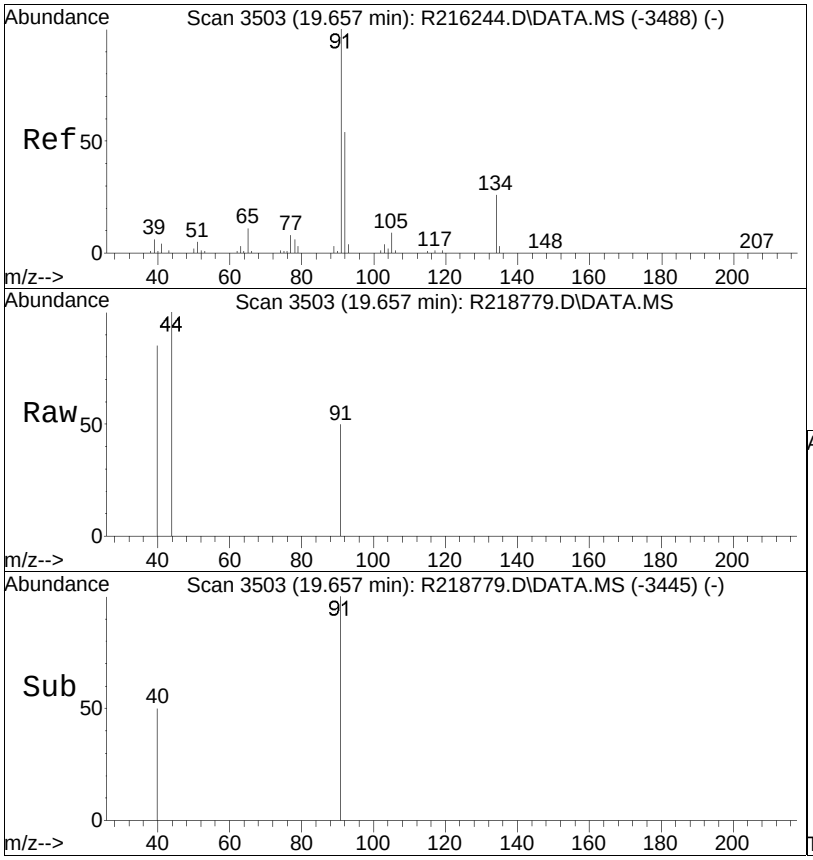


#107
p-isopropyltoluene
Concen: 0.00 ppbV
RT: 19.369 min Scan# 3413
Delta R.T. 0.022 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion:119 Resp: 35

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

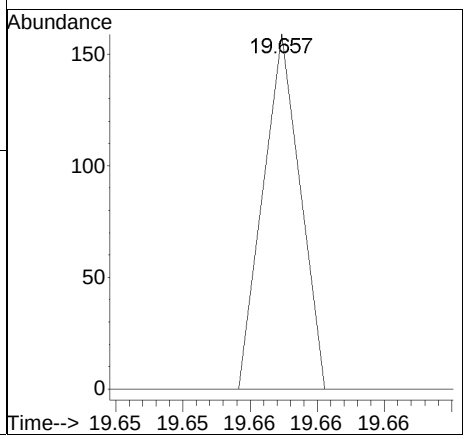




#109
n-butylbenzene
Concen: 0.00 ppbV
RT: 19.657 min Scan# 3503
Delta R.T. -0.016 min
Lab File: R218779.D
Acq: 6 Jan 2012 00:27

Tgt Ion: 91 Resp: 31

Ion	Ratio	Lower	Upper
91	100		
134	0.0	20.9	31.3#

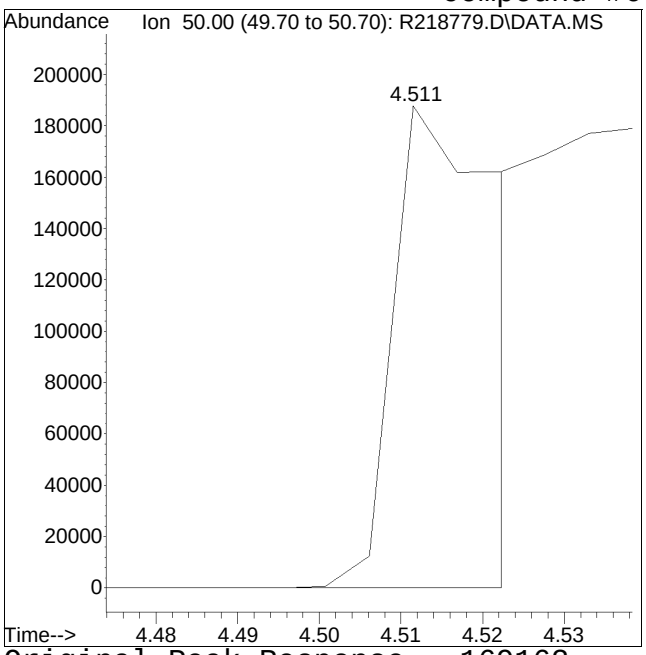


Manual Integration/Negative Proof Report

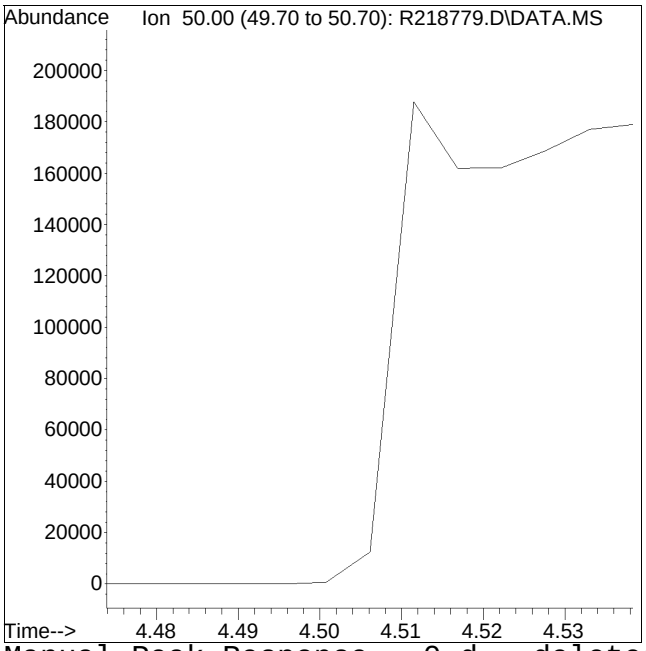
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #6: chloromethane



Original Peak Response = 169162



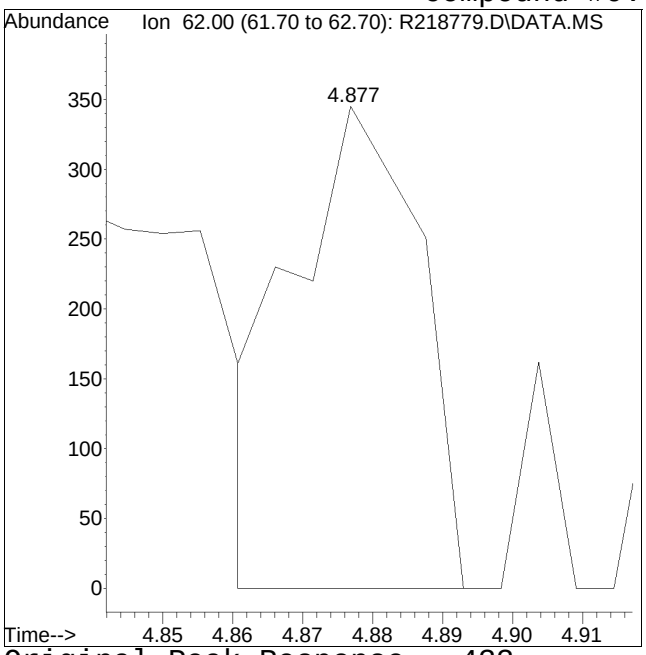
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

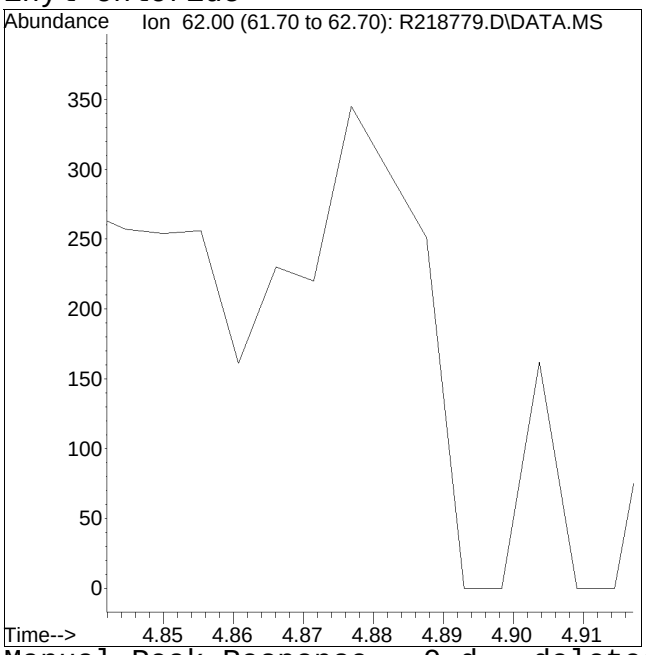
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #9: vinyl chloride



Original Peak Response = 433



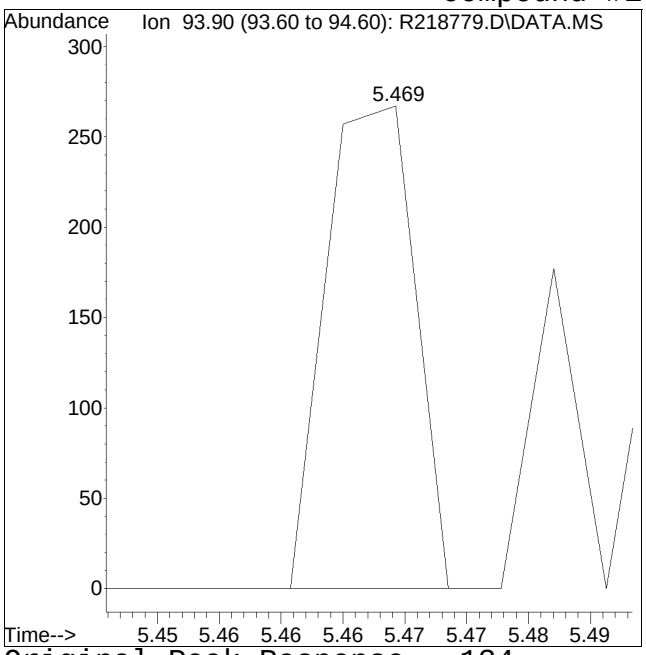
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

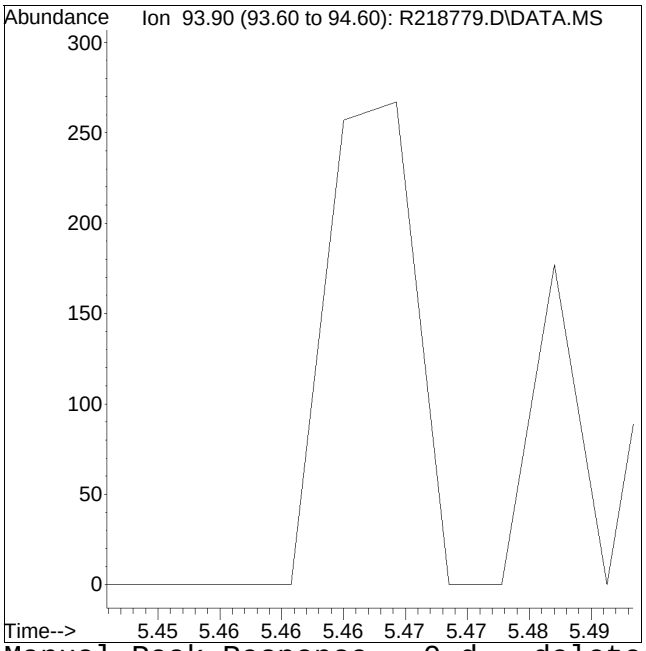
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #13: bromomethane



Original Peak Response = 134



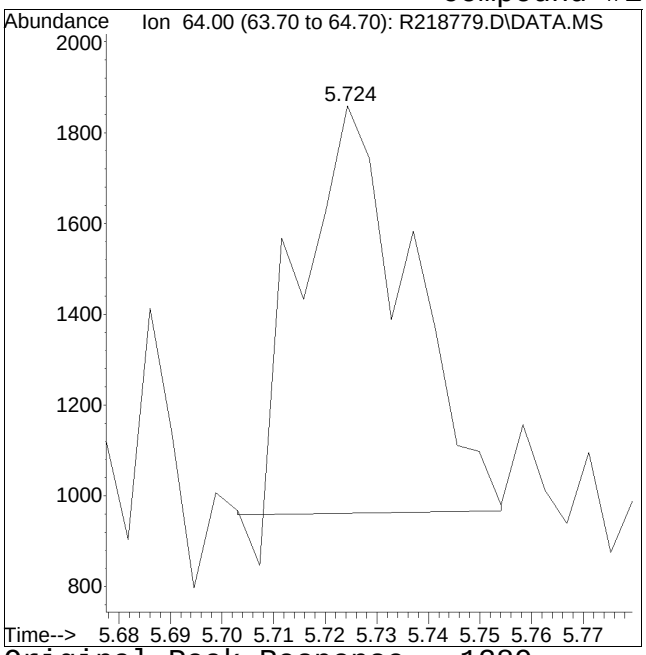
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

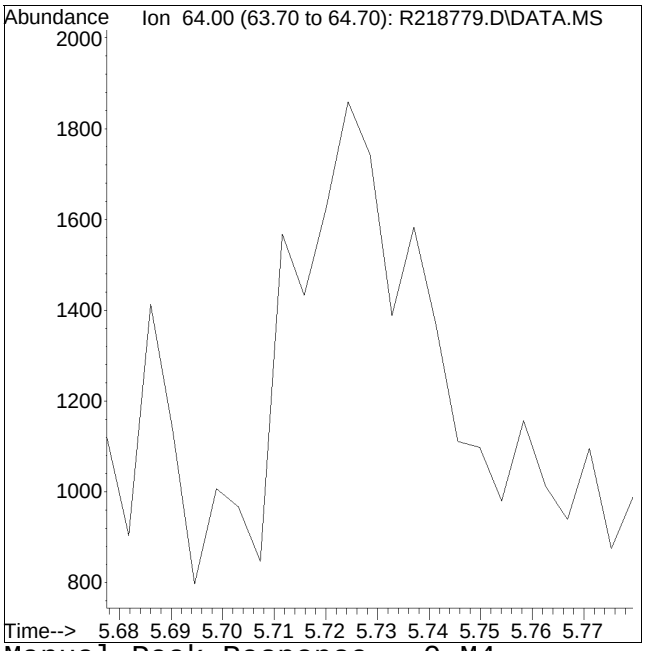
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #14: chloroethane



Original Peak Response = 1289



Manual Peak Response = 0 M4

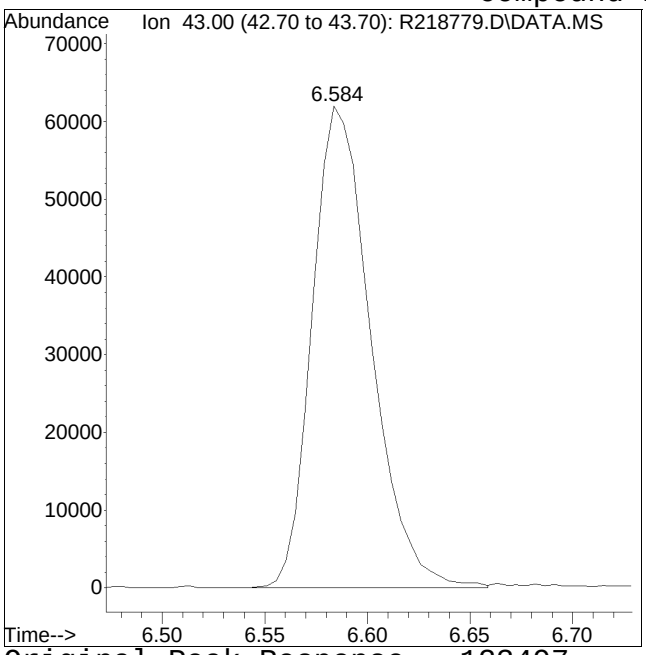
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

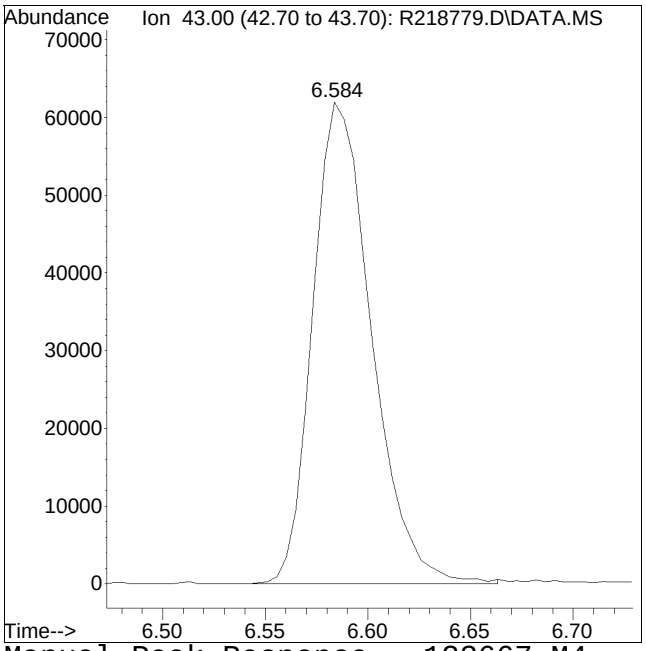
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #19: acetone



Original Peak Response = 123497



Manual Peak Response = 123667 M4

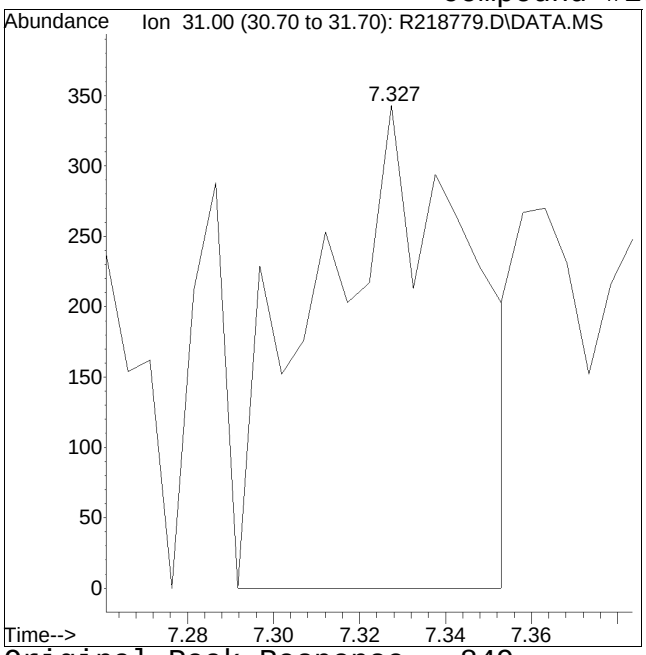
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

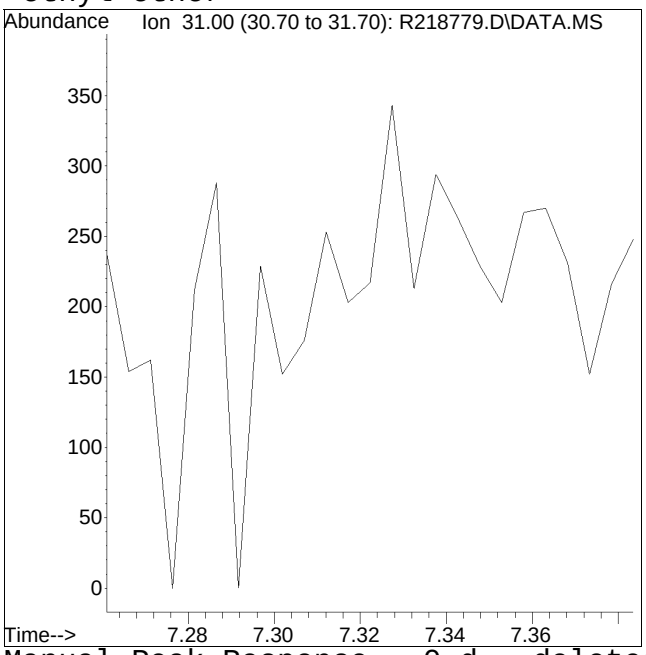
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #25: ethyl ether



Original Peak Response = 849



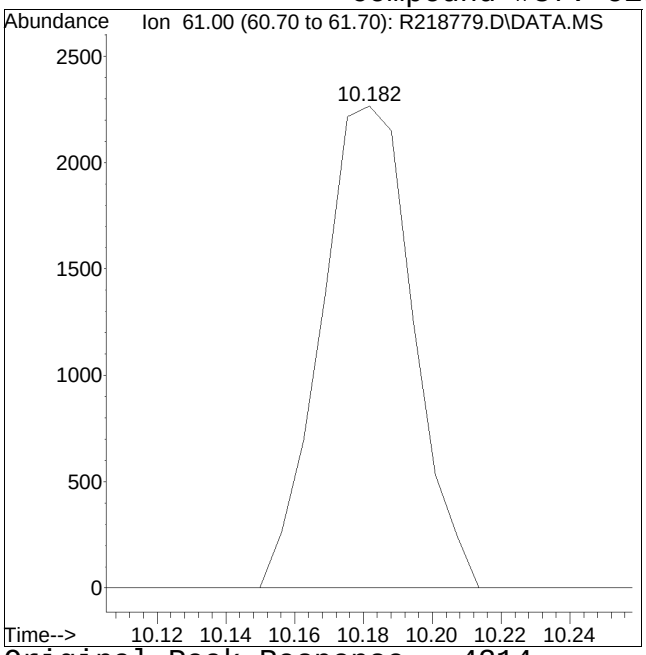
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

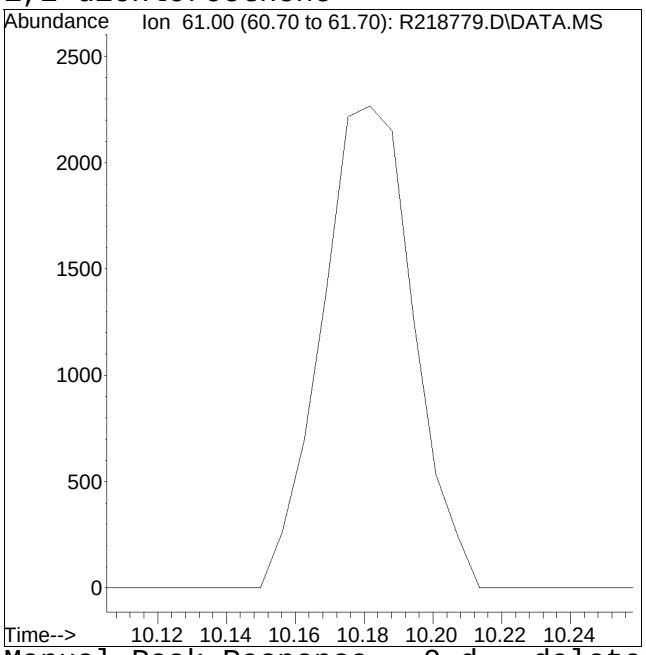
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #37: cis-1,2-dichloroethene



Original Peak Response = 4214



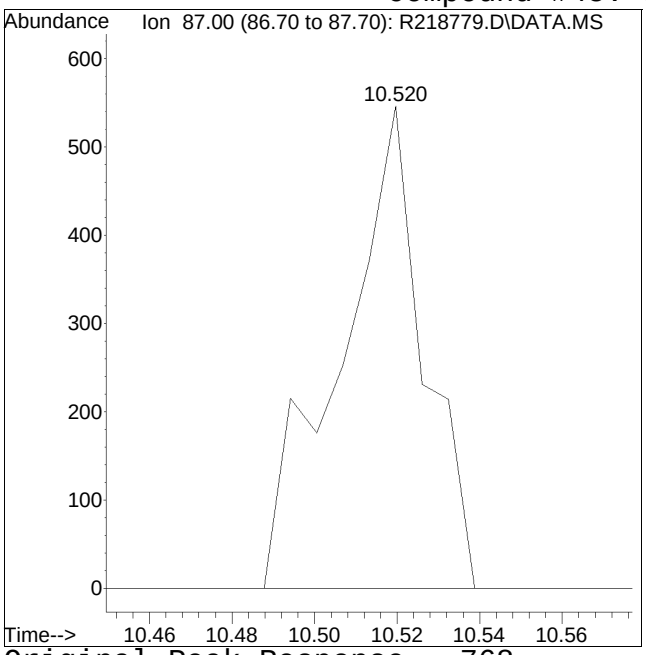
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

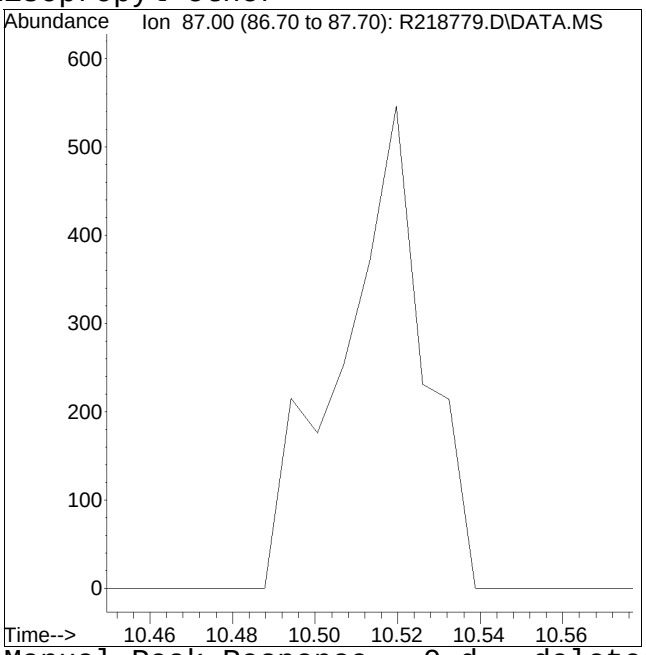
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #45: diisopropyl ether



Original Peak Response = 768



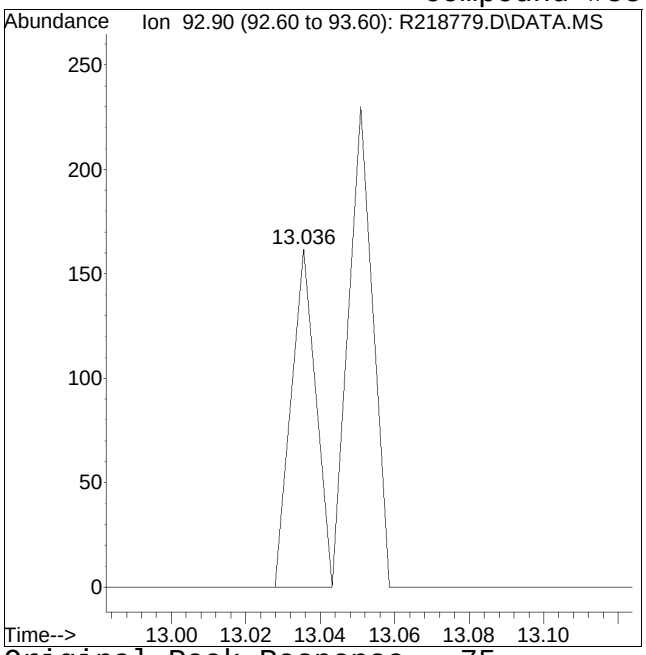
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

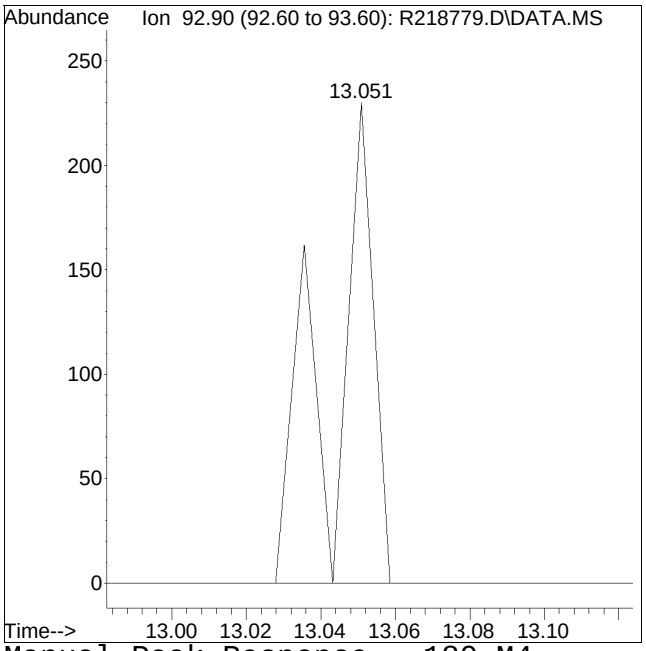
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #55: dibromomethane



Original Peak Response = 75



Manual Peak Response = 180 M4

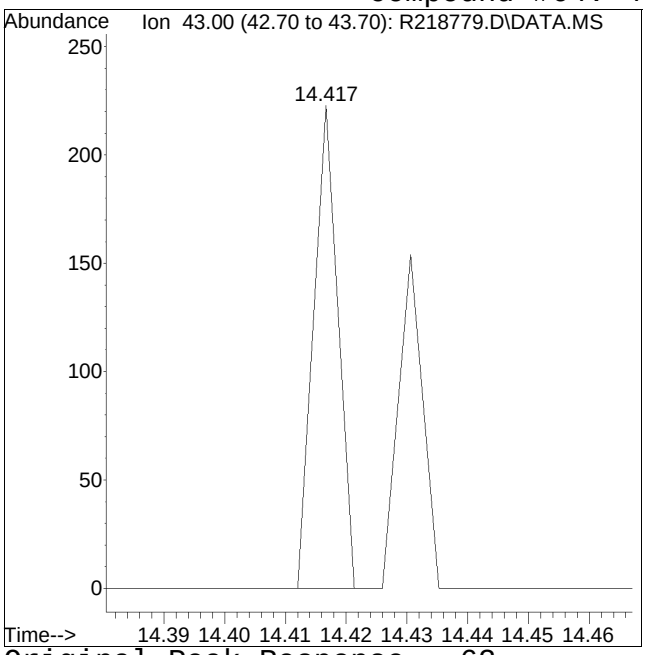
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

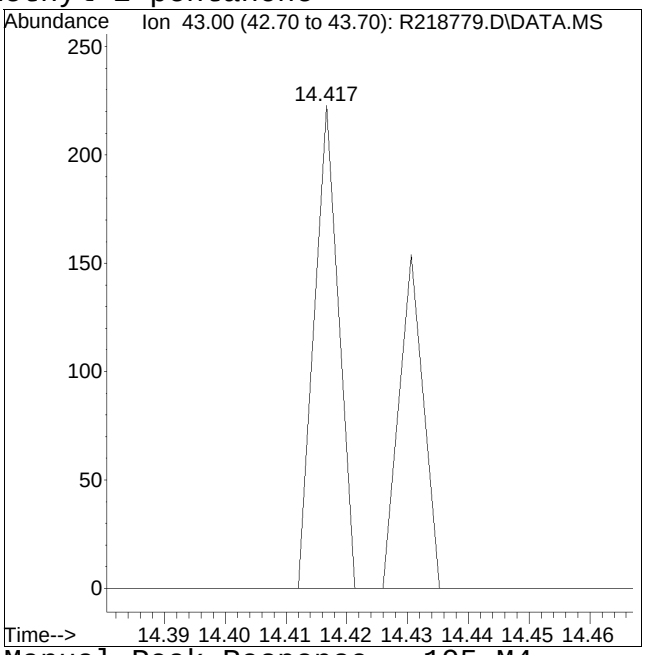
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 62



Manual Peak Response = 105 M4

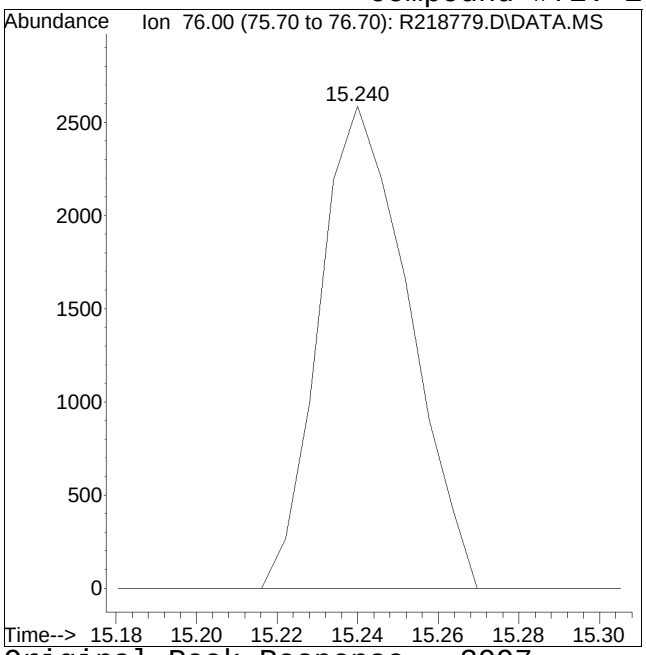
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

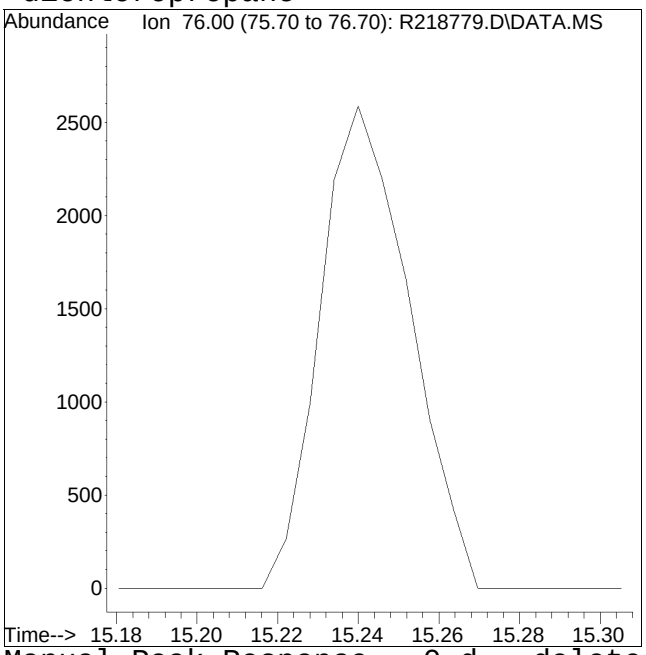
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 3997



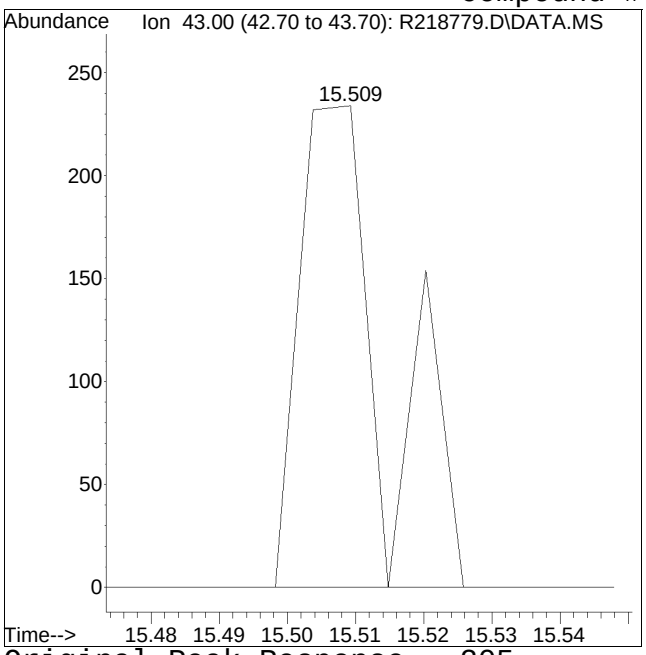
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

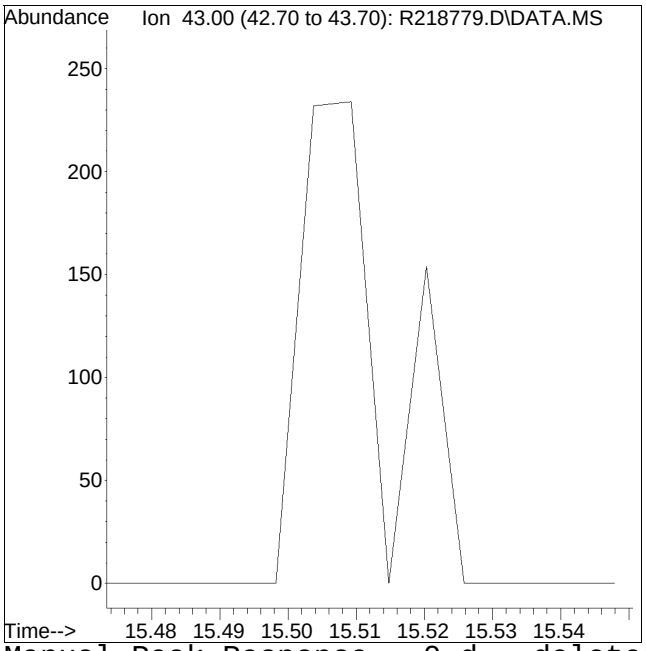
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #73: 2-hexanone



Original Peak Response = 205



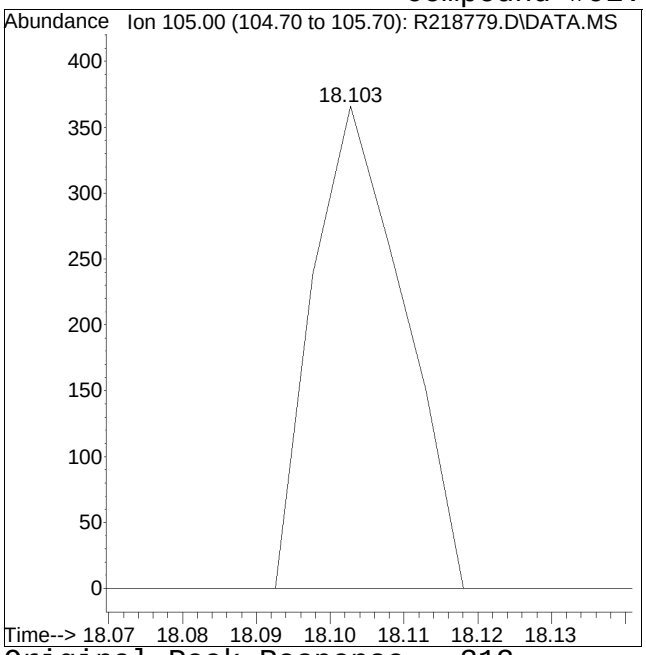
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

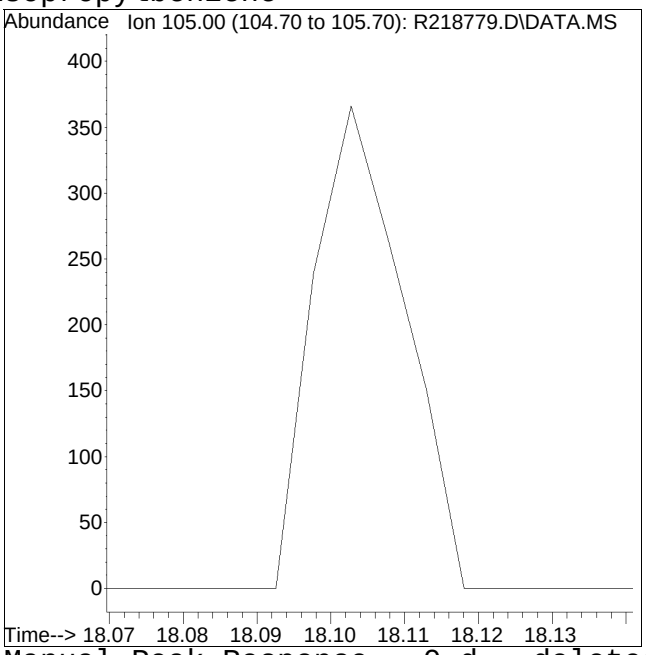
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #92: isopropylbenzene



Original Peak Response = 312



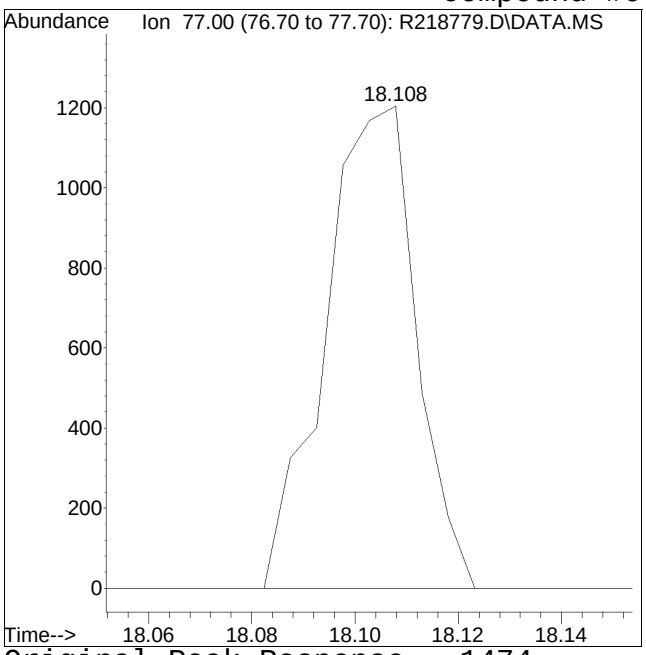
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

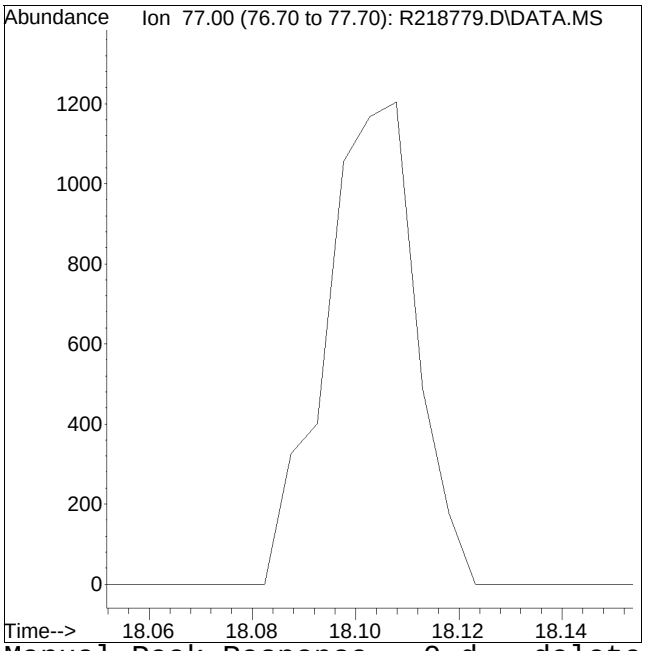
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #93: bromobenzene



Original Peak Response = 1474



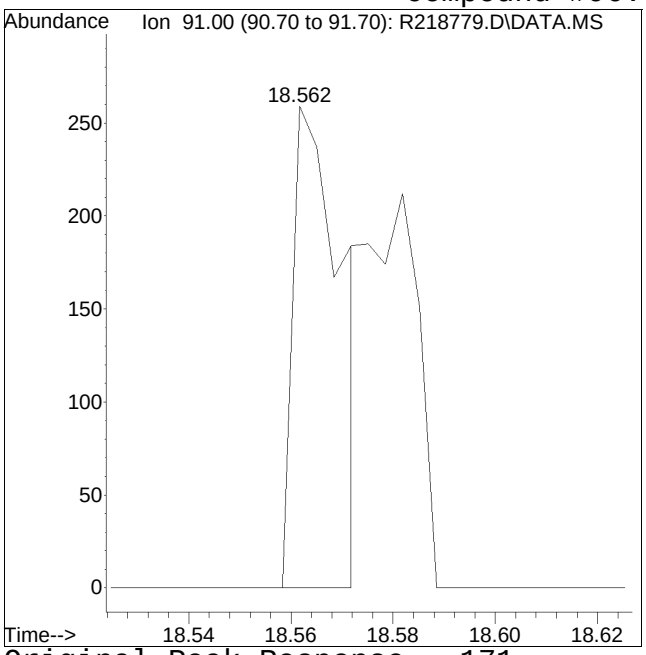
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

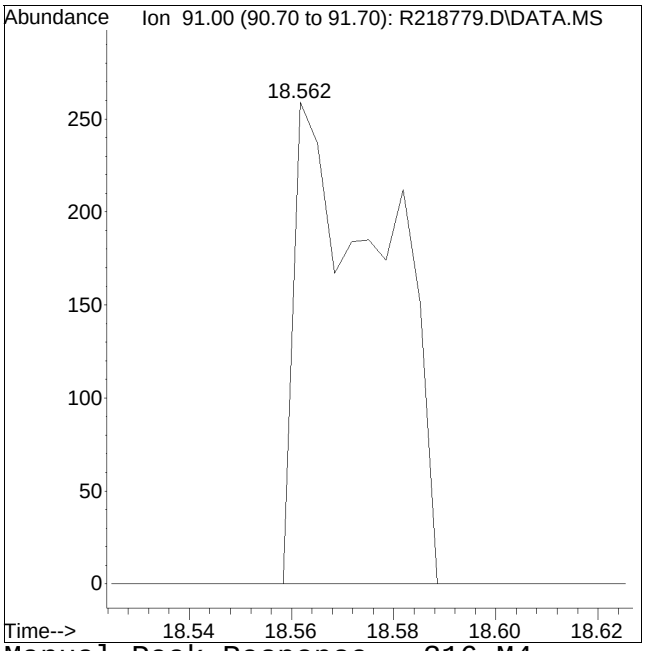
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218779.D
Date Inj'd : 1/6/2012 0:27
Sample : L1200006-01,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:00 am

Compound #96: 4-chlorotoluene



Original Peak Response = 171



Manual Peak Response = 316 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218781.D
Acq On : 6 Jan 2012 1:39
Operator : AIRPIANO2:MB
Sample : L1200006-02,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 16 12:07:19 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	141334	10.000	ppbV	0.00
Standard Area = 151117			Recovery =		93.53%	
43) 1,4-difluorobenzene	12.550	114	425237	10.000	ppbV	0.00
Standard Area = 485506			Recovery =		87.59%	
68) chlorobenzene-D5	16.906	54	81177	10.000	ppbV	0.00
Standard Area = 90670			Recovery =		89.53%	

System Monitoring Compounds

Target Compounds						Qvalue
5) dichlorodifluoromethane	4.345	85	11009M2	0.316	ppbV	
6) chloromethane	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.	d	
13) bromomethane	5.490		0	N.D.		
14) chloroethane	0.000		0	N.D.	d	
19) acetone	6.589	43	162765M4	11.148	ppbV	
21) trichlorofluoromethane	6.795	101	10461	0.293	ppbV	84
25) ethyl ether	0.000		0	N.D.	d	
26) 1,1-dichloroethene	7.630		0	N.D.		
28) methylene chloride	7.792		0	N.D.		
30) carbon disulfide	8.128		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.	d	
33) 1,1-dichloroethane	0.000		0	N.D.	d	
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.690	43	49140	2.704	ppbV	98
37) cis-1,2-dichloroethene	0.000		0	N.D.	d	
40) Tetrahydrofuran	11.011	42	2384	0.262	ppbV #	92
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	11.360		0	N.D.		
45) diisopropyl ether	0.000		0	N.D.	d	
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.	d	
52) carbon tetrachloride	12.325	117	1977	0.076	ppbV #	90
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	0.000		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218781.D
Acq On : 6 Jan 2012 1:39
Operator : AIRPIANO2:MB
Sample : L1200006-02,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 16 12:07:19 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

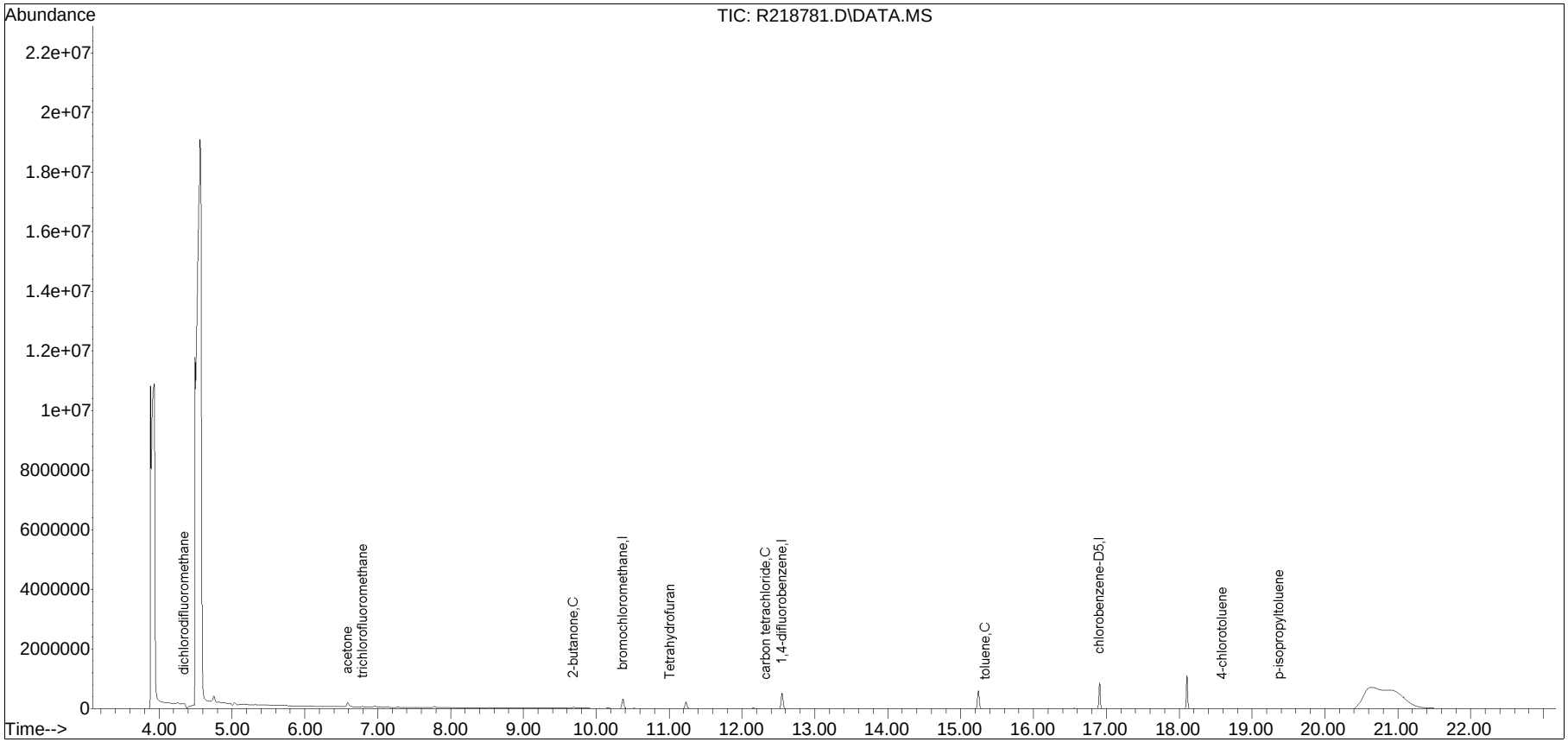
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 4-methyl-2-pentanone	14.398		0	N.D.		
66) trans-1,3-dichloropropene	0.000		0	N.D.		
67) 1,1,2-trichloroethane	0.000		0	N.D.		
69) toluene	15.340	91	5278	0.161	ppbV	88
72) 1,3-dichloropropane	0.000		0	N.D.	d	
73) 2-hexanone	0.000		0	N.D.	d	
75) dibromochloromethane	0.000		0	N.D.		
76) 1,2-dibromoethane	0.000		0	N.D.		
80) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81) chlorobenzene	0.000		0	N.D.		
82) ethylbenzene	17.241		0	N.D.		
84) m+p-xylene	17.373		0	N.D.		
85) bromoform	0.000		0	N.D.		
86) styrene	17.673		0	N.D.		
87) 1,1,2,2-tetrachloroethane	17.734		0	N.D.		
88) o-xylene	17.749		0	N.D.		
89) 1,2,3-trichloropropane	0.000		0	N.D.		
92) isopropylbenzene	0.000		0	N.D.	d	
93) bromobenzene	0.000		0	N.D.	d	
94) 2-chlorotoluene	0.000		0	N.D.		
95) n-propylbenzene	0.000		0	N.D.	d	
96) 4-chlorotoluene	18.588	91	136	0.004	ppbV #	40
98) 1,3,5-trimethylbenzene	0.000		0	N.D.	d	
99) tert-butylbenzene	0.000		0	N.D.		
100) 1,2,4-trimethylbenzene	19.056		0	N.D.		
103) 1,3-dichlorobenzene	19.190		0	N.D.		
104) 1,4-dichlorobenzene	0.000		0	N.D.	d	
105) sec-butylbenzene	0.000		0	N.D.	d	
107) p-isopropyltoluene	19.372	119	42	0.001	ppbV #	49
108) 1,2-dichlorobenzene	0.000		0	N.D.		
109) n-butylbenzene	0.000		0	N.D.		
112) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116) 1,2,4-trichlorobenzene	0.000		0	N.D.		
117) naphthalene	21.071		0	N.D.		
118) 1,2,3-trichlorobenzene	0.000		0	N.D.		
120) hexachlorobutadiene	0.000		0	N.D.		

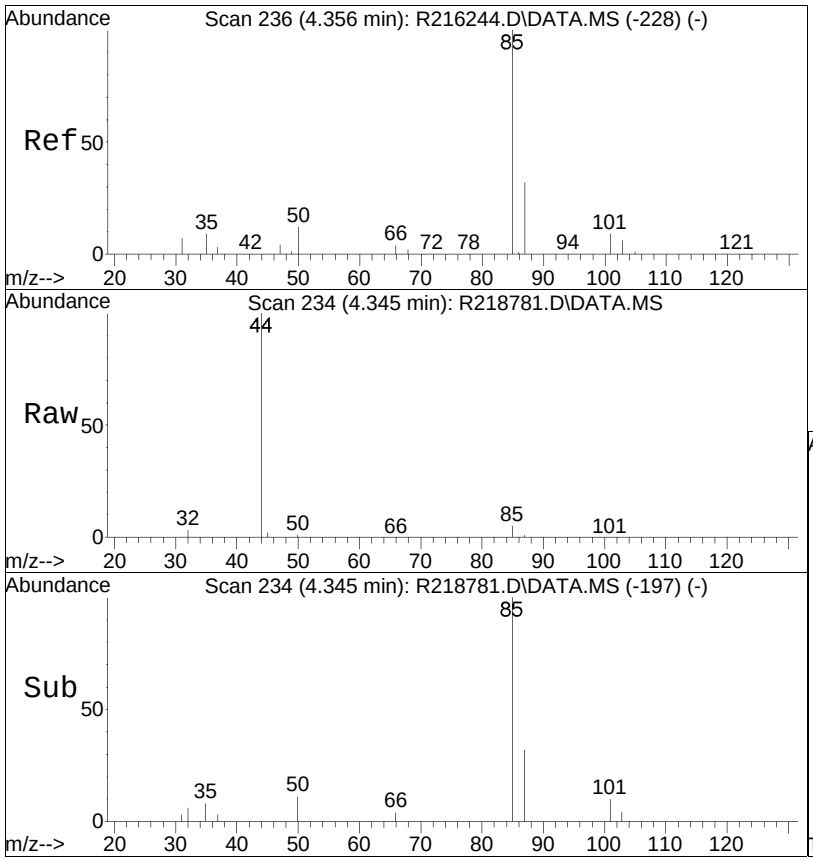
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218781.D
Acq On : 6 Jan 2012 1:39
Operator : AIRPIANO2:MB
Sample : L1200006-02,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 16 12:07:19 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

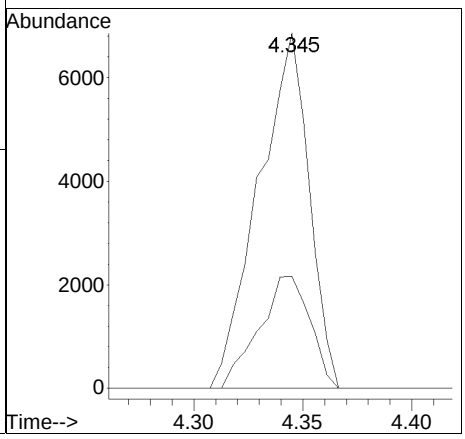


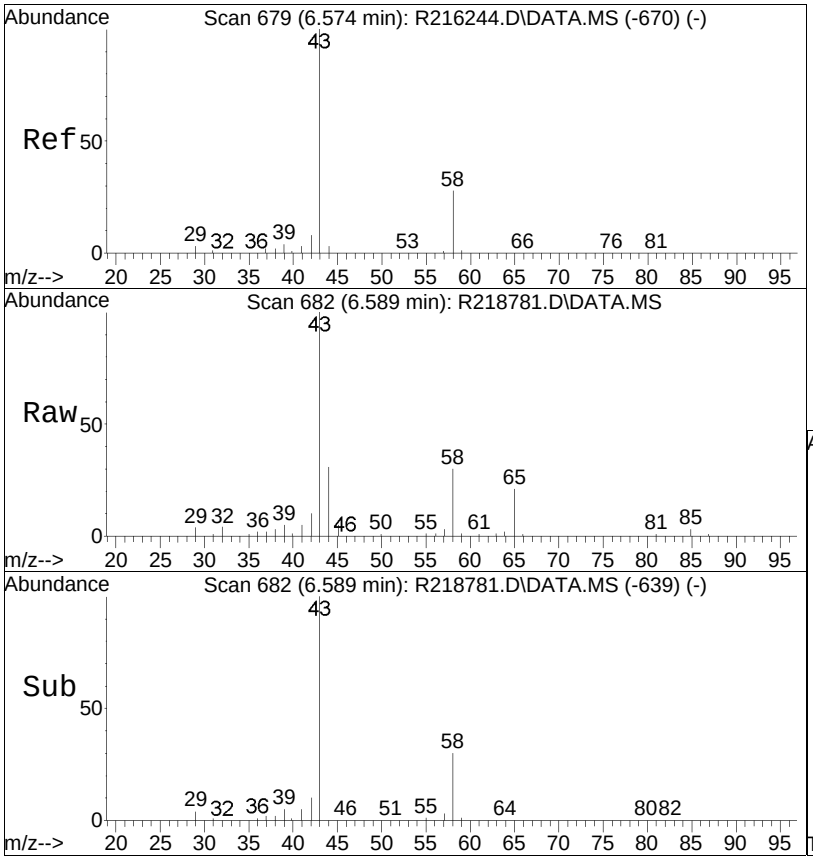


#5
dichlorodifluoromethane
Concen: 0.32 ppbV m
RT: 4.345 min Scan# 234
Delta R.T. 0.000 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion: 85 Resp: 11009

Ion	Ratio	Lower	Upper
85	100		
87	31.5	26.4	39.6

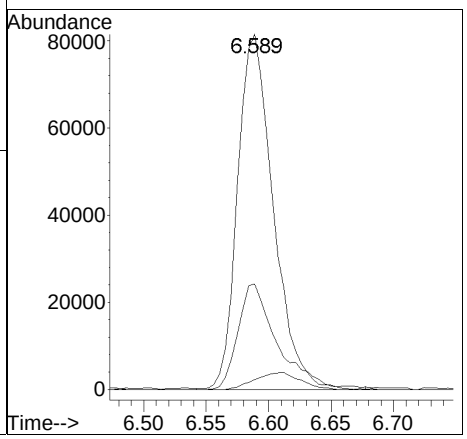


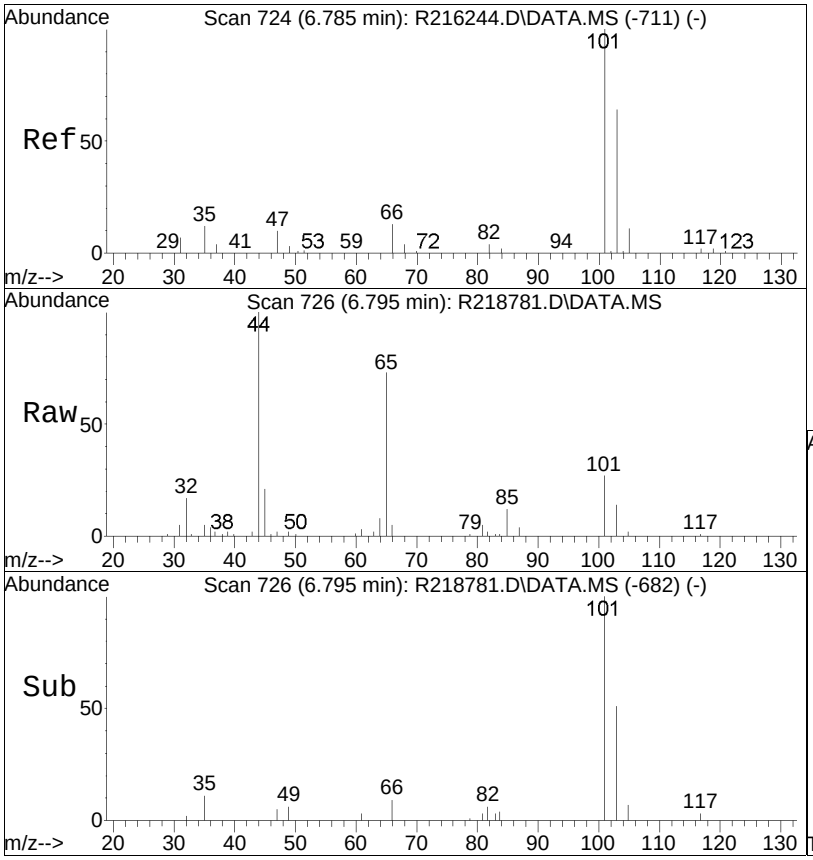


#19
acetone
Concen: 11.15 ppbV m
RT: 6.589 min Scan# 682
Delta R.T. 0.015 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion: 43 Resp: 162765

Ion	Ratio	Lower	Upper
43	100		
58	29.7	22.2	33.2
57	2.8	0.9	1.3#

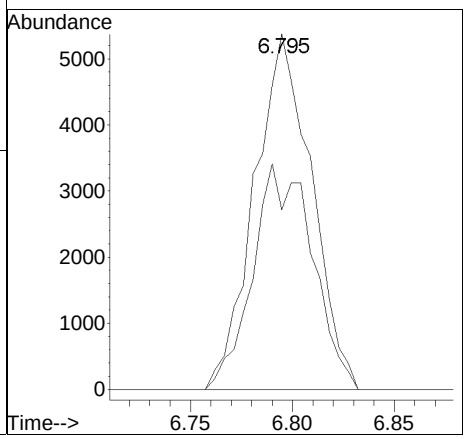


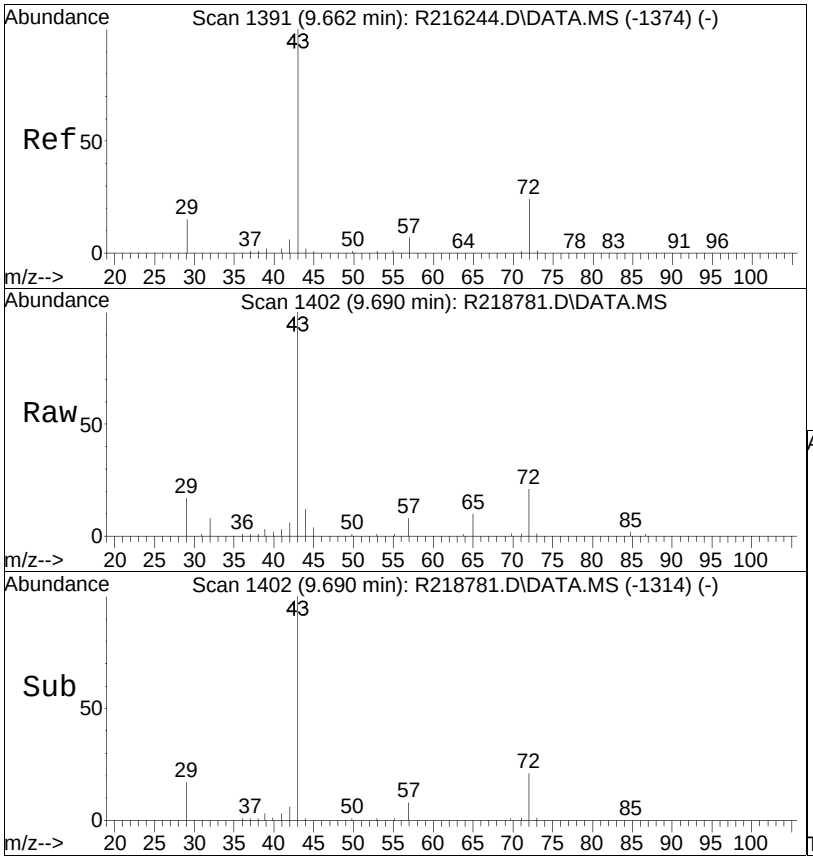


#21
trichlorofluoromethane
Concen: 0.29 ppbV
RT: 6.795 min Scan# 726
Delta R.T. 0.005 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion:101 Resp: 10461

Ion	Ratio	Lower	Upper
101	100		
103	50.6	50.2	75.2

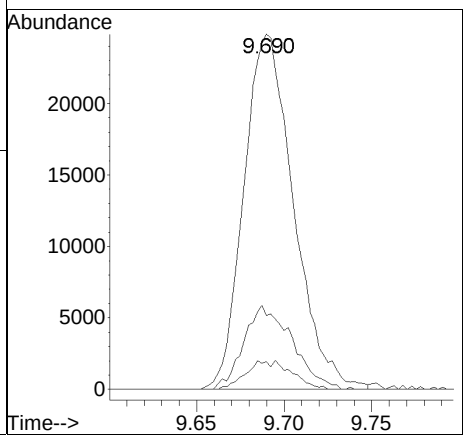


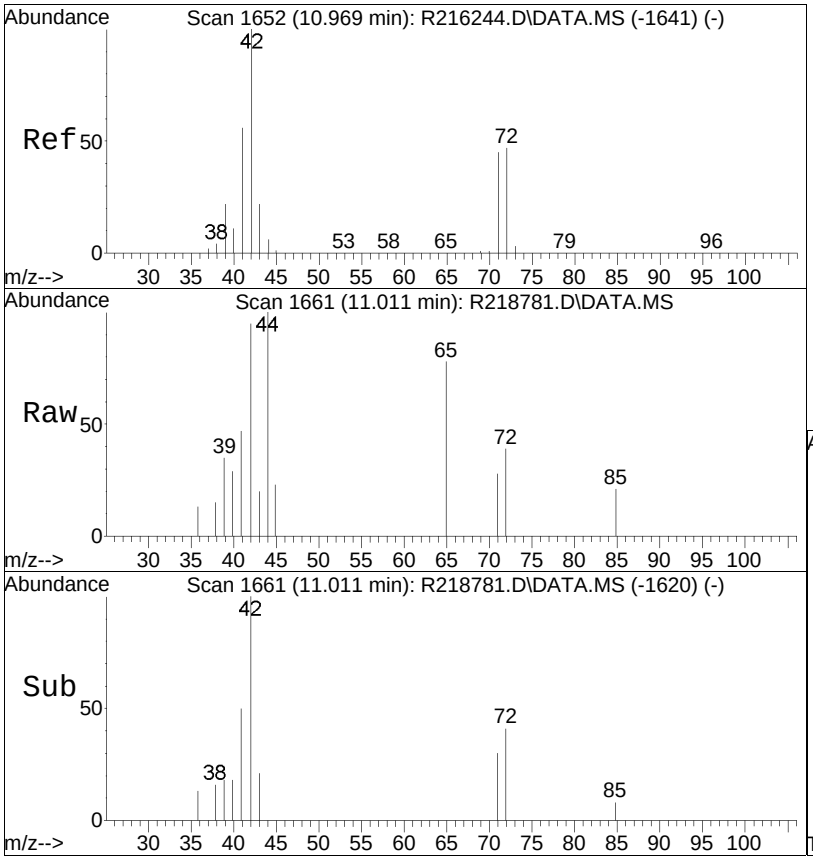


#36
2-butanone
Concen: 2.70 ppbV
RT: 9.690 min Scan# 1402
Delta R.T. 0.021 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion: 43 Resp: 49140

Ion	Ratio	Lower	Upper
43	100		
72	20.8	17.6	26.4
57	7.8	5.6	8.4

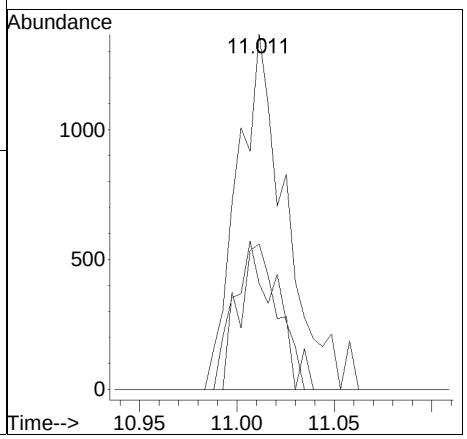


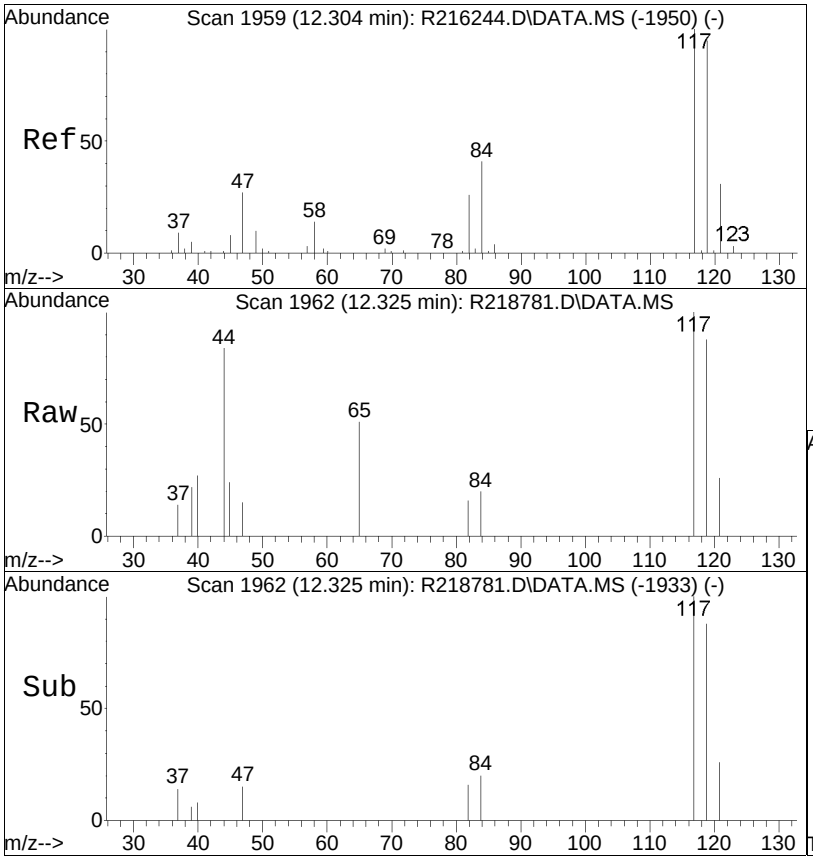


#40
Tetrahydrofuran
Concen: 0.26 ppbV
RT: 11.011 min Scan# 1661
Delta R.T. 0.038 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion: 42 Resp: 2384

Ion	Ratio	Lower	Upper
42	100		
71	29.8	31.9	47.9#
72	40.9	32.6	48.8

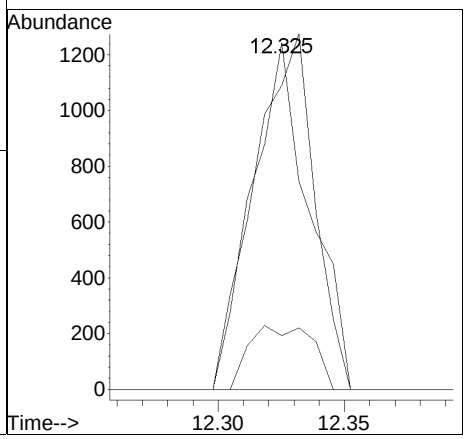


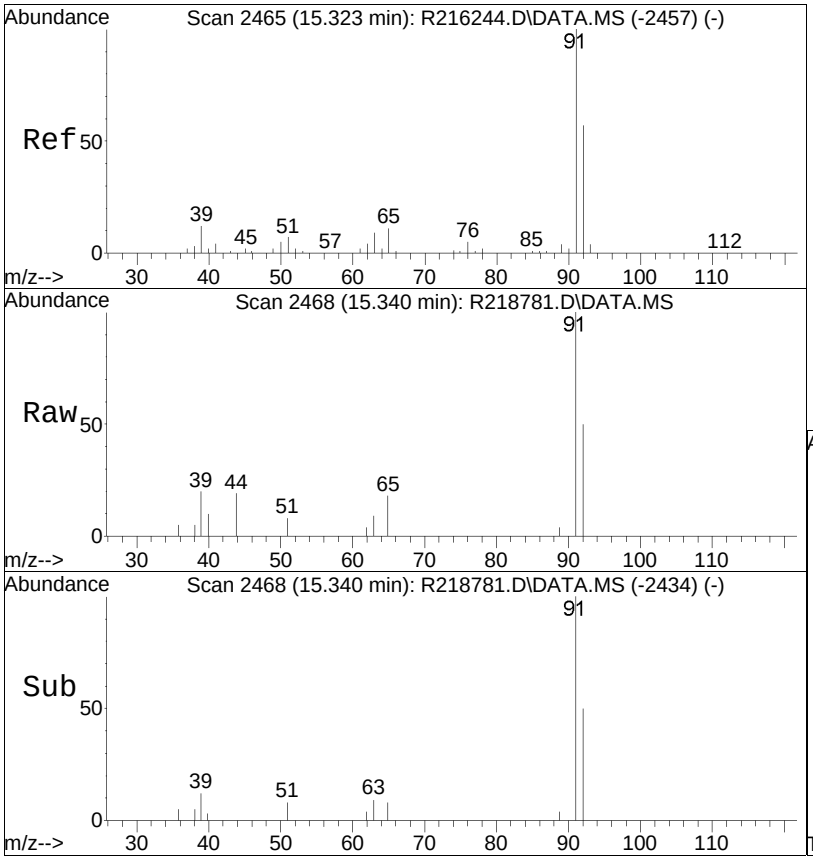


#52
carbon tetrachloride
Concen: 0.08 ppbV
RT: 12.325 min Scan# 1962
Delta R.T. 0.001 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion:117 Resp: 1977

Ion	Ratio	Lower	Upper
117	100		
119	87.8	76.8	115.2
82	15.5	19.4	29.0#

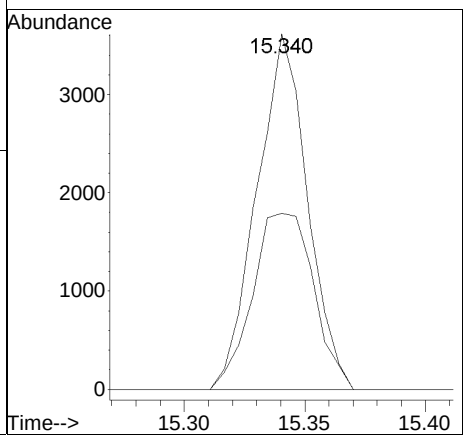


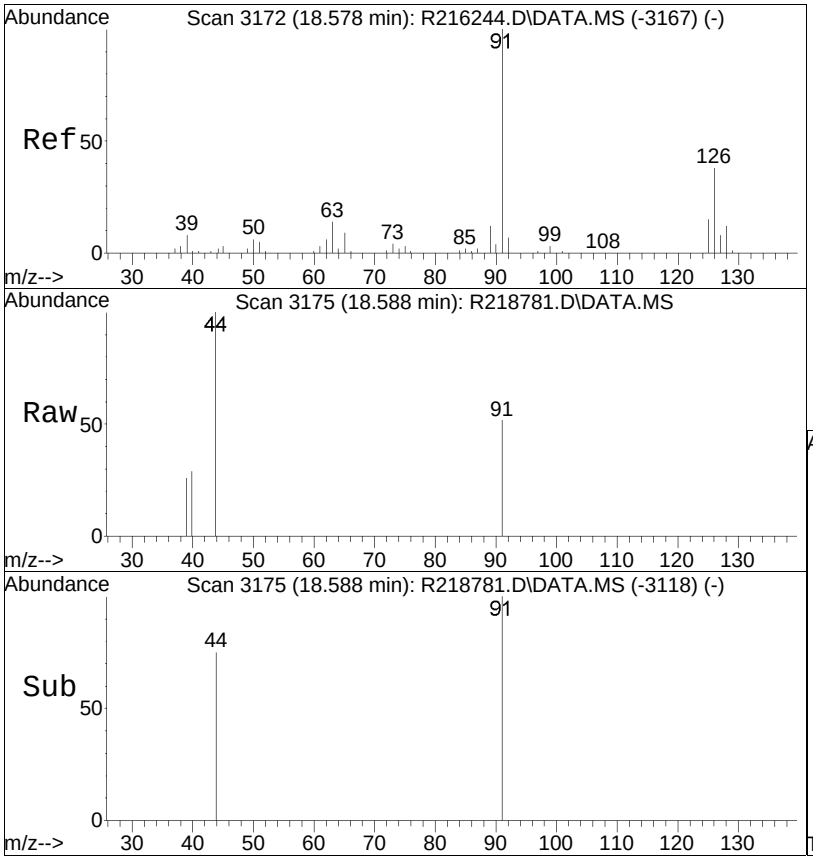


#69
toluene
Concen: 0.16 ppbV
RT: 15.340 min Scan# 2468
Delta R.T. -0.000 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion: 91 Resp: 5278

Ion	Ratio	Lower	Upper
91	100		
92	49.6	47.0	70.4

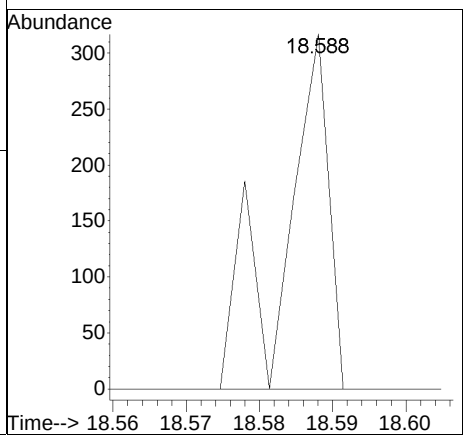


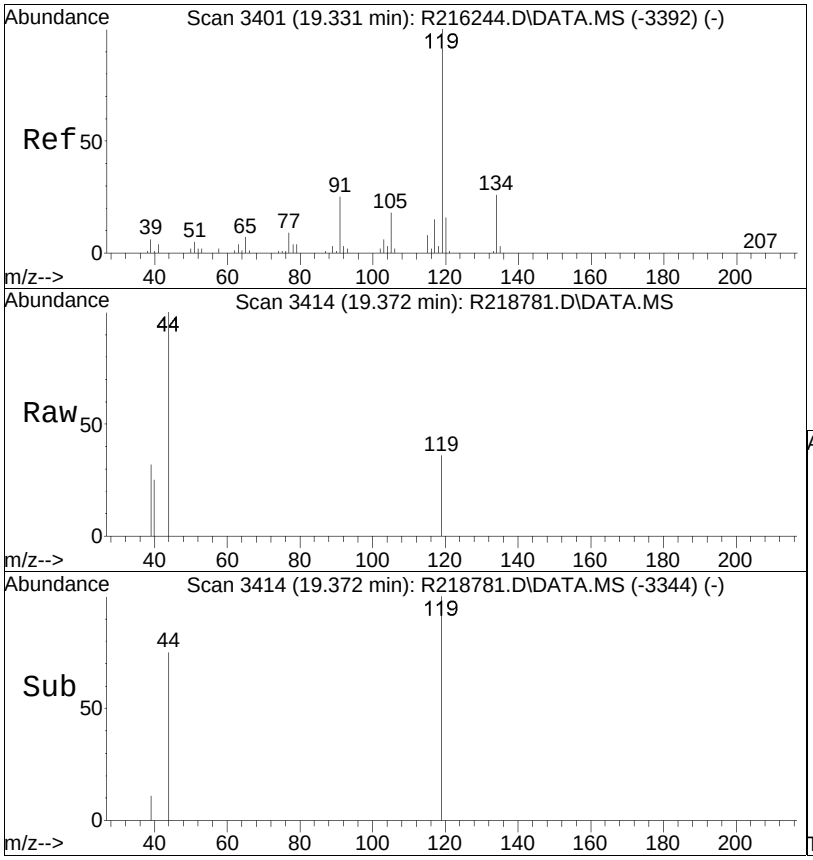


#96
4-chlorotoluene
Concen: 0.00 ppbV
RT: 18.588 min Scan# 3175
Delta R.T. -0.007 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion: 91 Resp: 136

Ion	Ratio	Lower	Upper
91	100		
126	0.0	28.2	42.2#

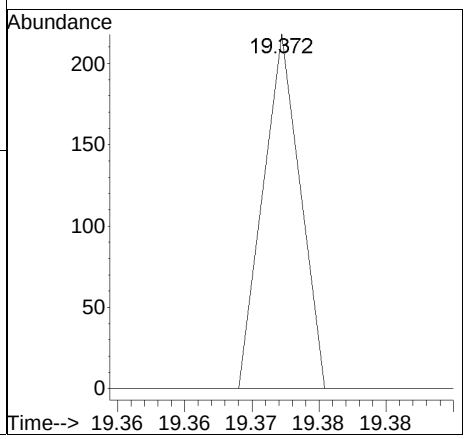




#107
p-isopropyltoluene
Concen: 0.00 ppbV
RT: 19.372 min Scan# 3414
Delta R.T. 0.025 min
Lab File: R218781.D
Acq: 6 Jan 2012 1:39

Tgt Ion:119 Resp: 42

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

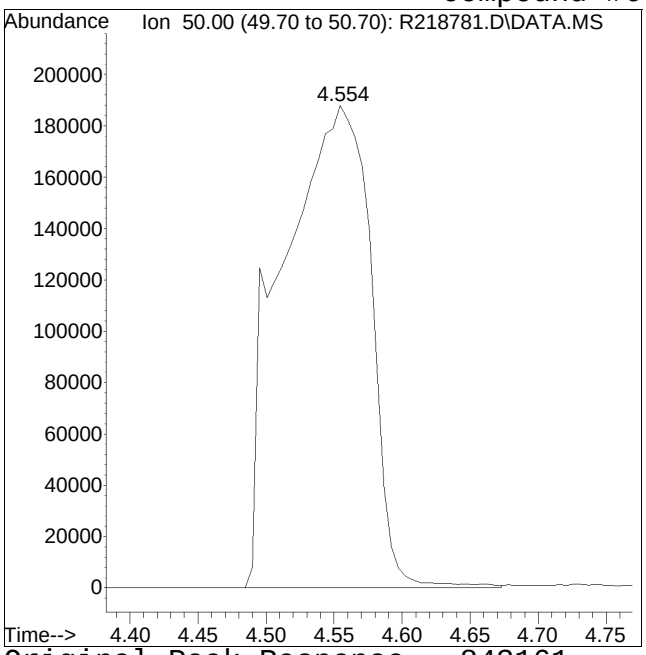


Manual Integration/Negative Proof Report

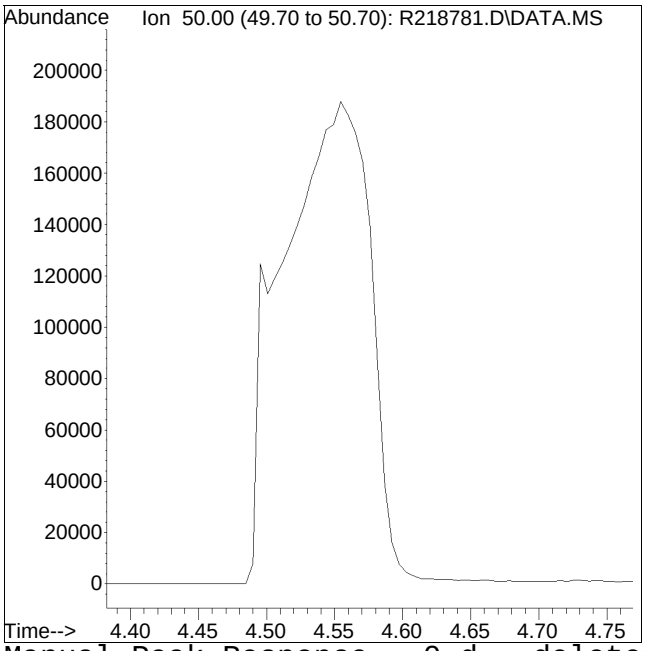
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #6: chloromethane



Original Peak Response = 843161



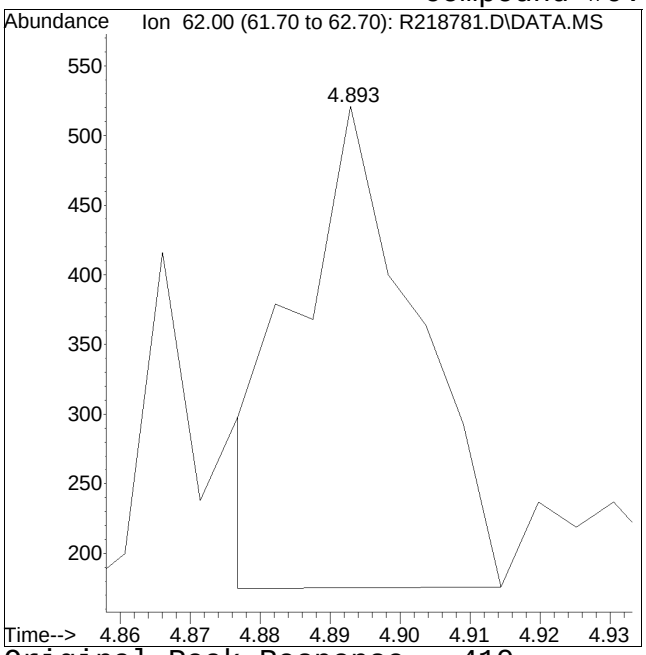
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

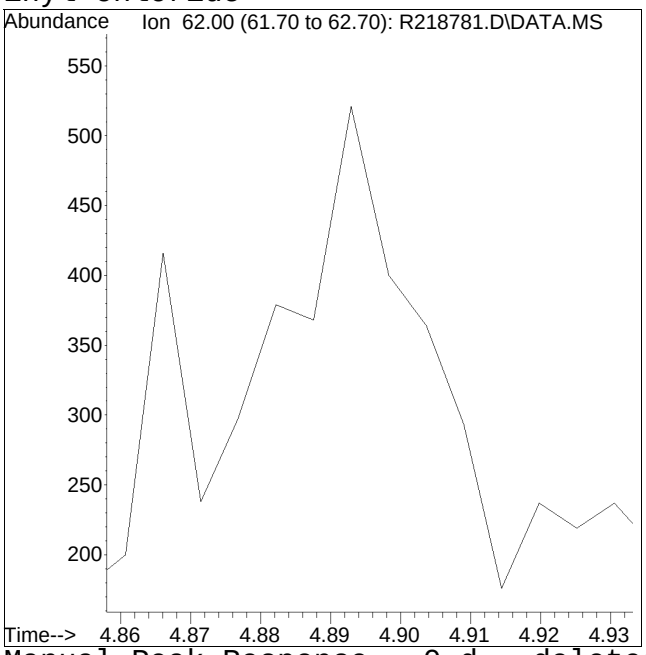
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #9: vinyl chloride



Original Peak Response = 410



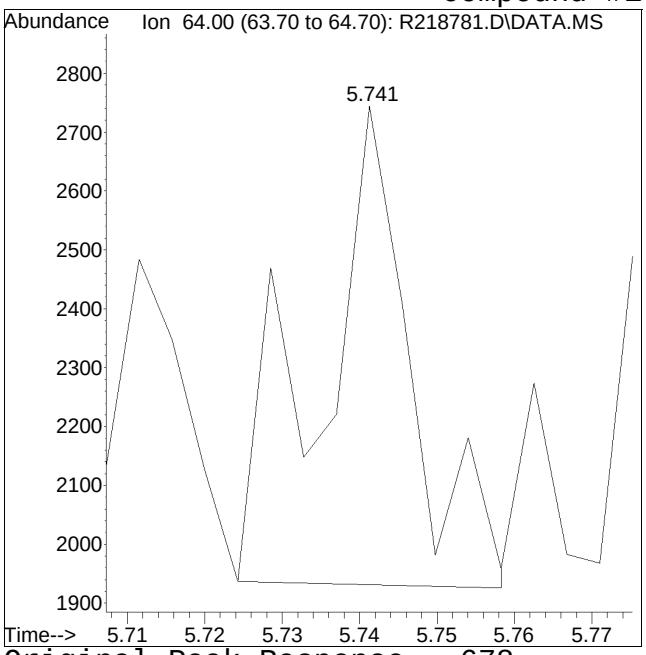
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

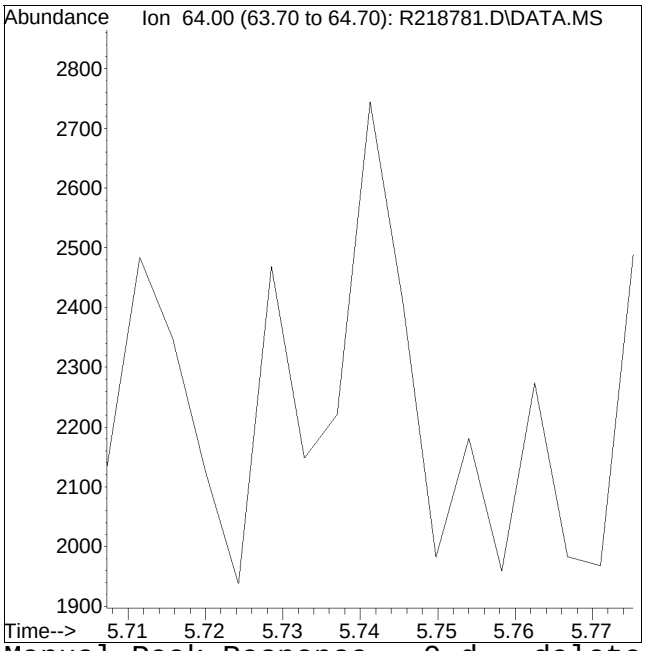
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #14: chloroethane



Original Peak Response = 678



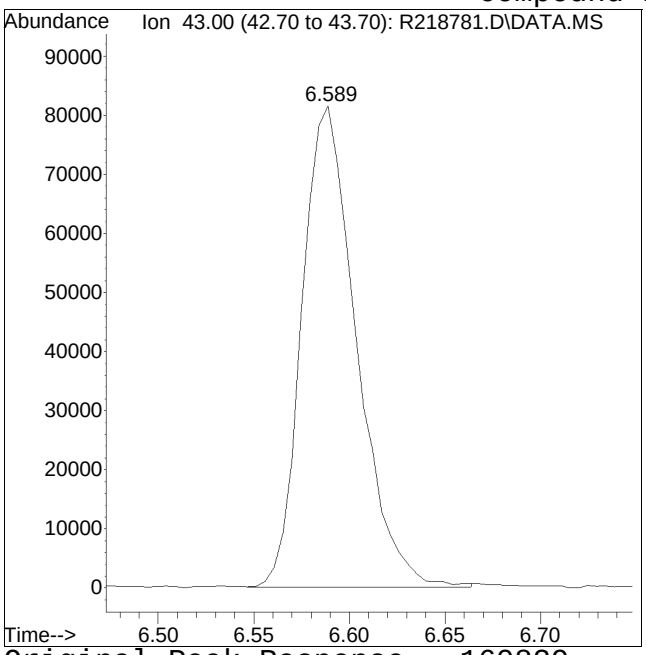
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

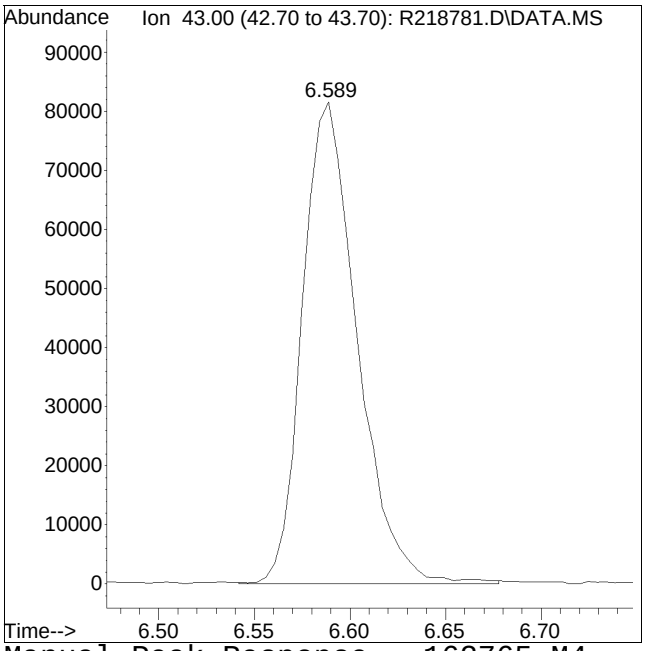
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #19: acetone



Original Peak Response = 160829



Manual Peak Response = 162765 M4

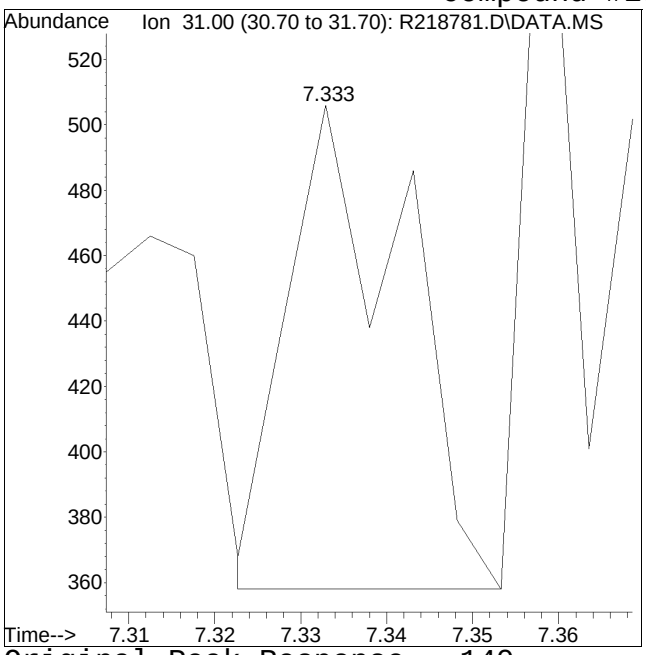
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

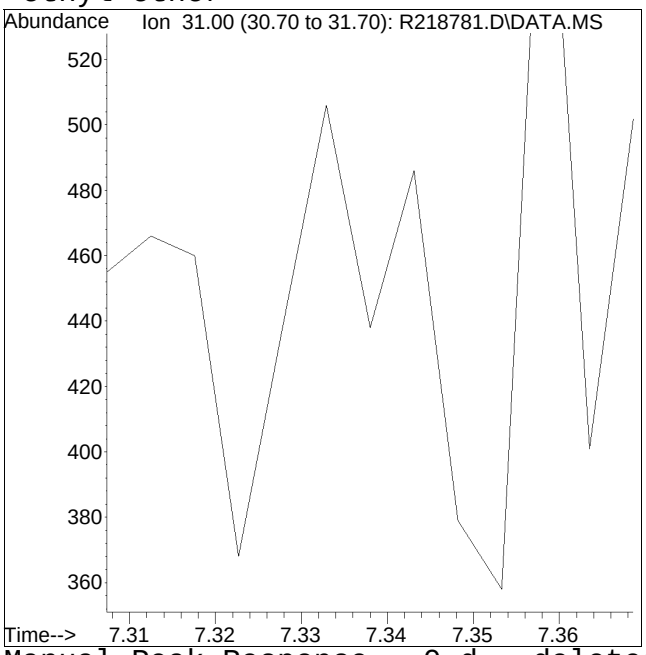
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #25: ethyl ether



Original Peak Response = 140



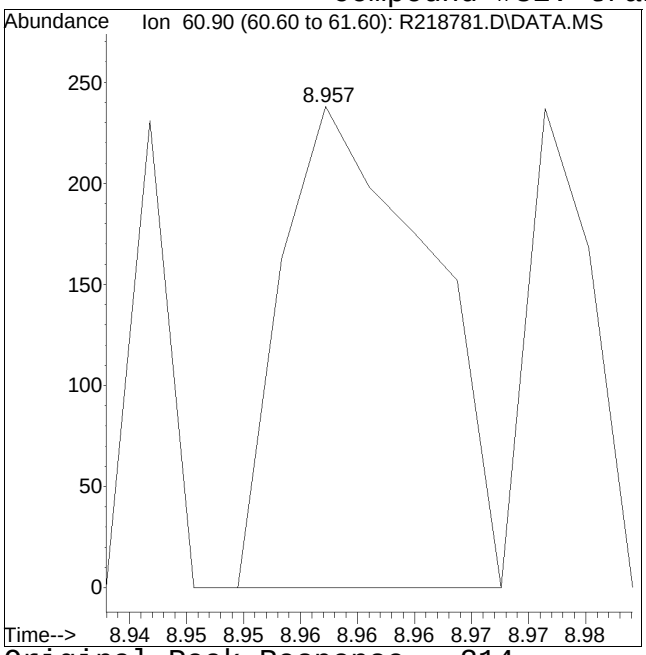
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

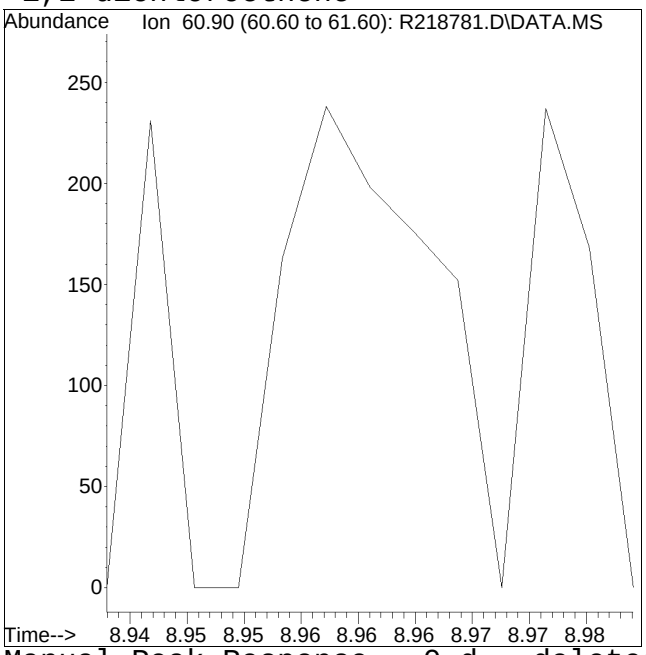
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #32: trans-1,2-dichloroethene



Original Peak Response = 214



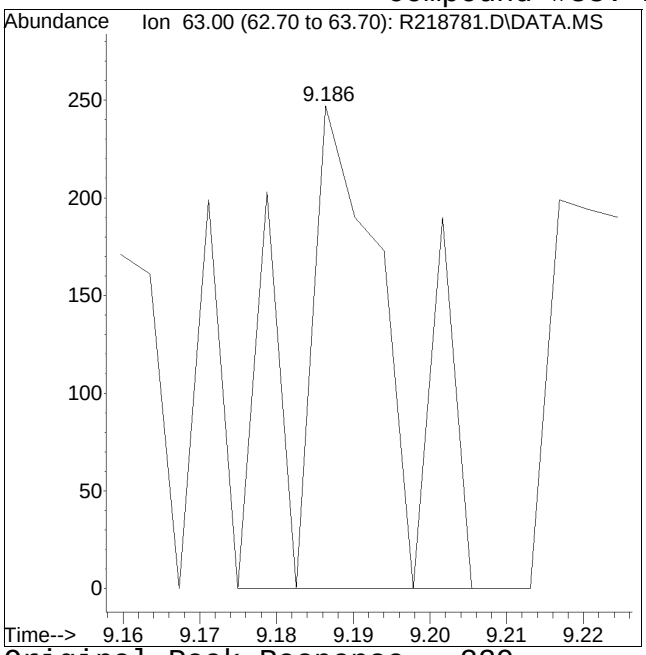
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

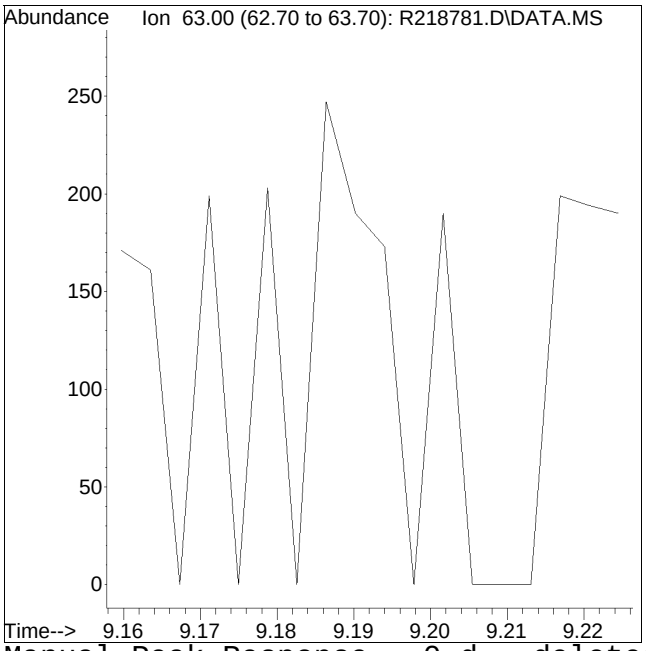
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #33: 1,1-dichloroethane



Original Peak Response = 229



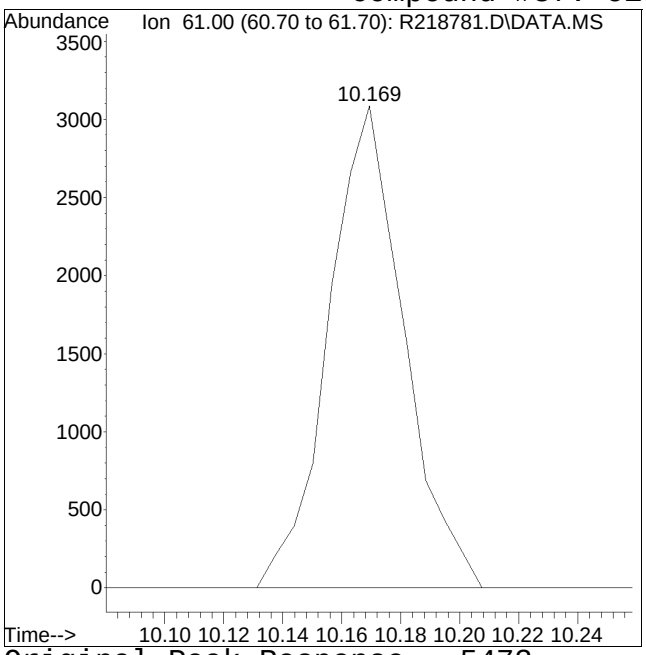
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

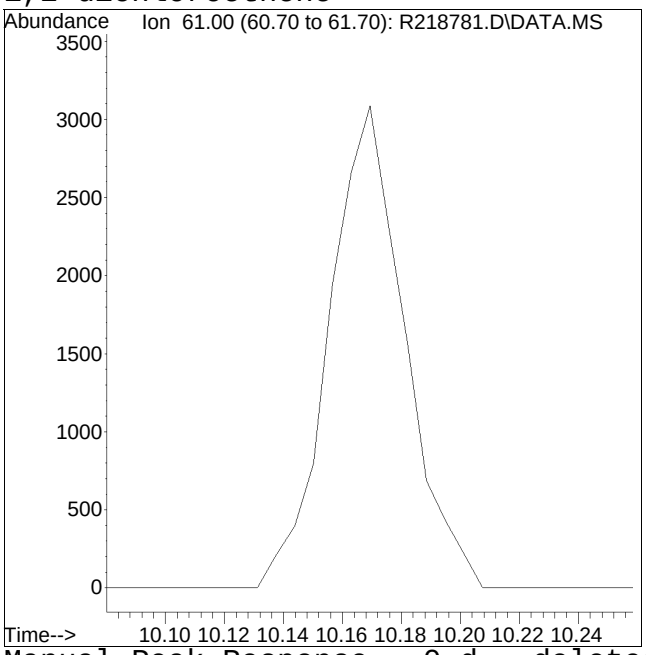
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #37: cis-1,2-dichloroethene



Original Peak Response = 5473



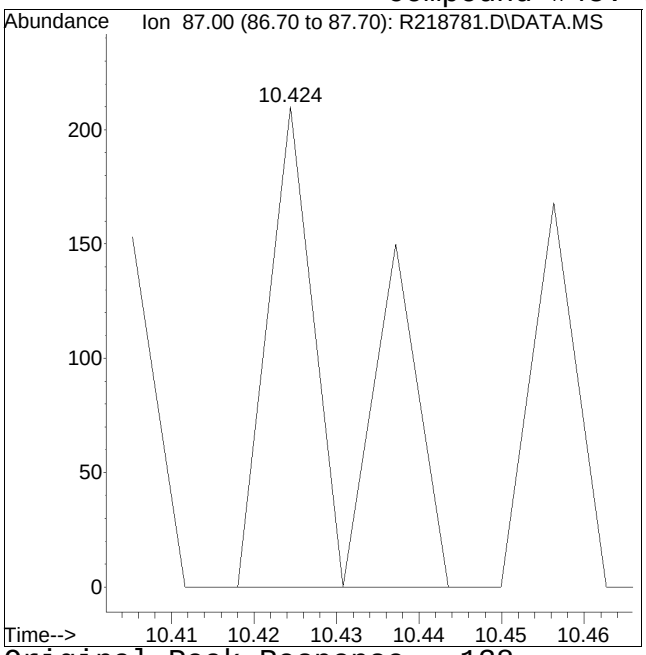
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

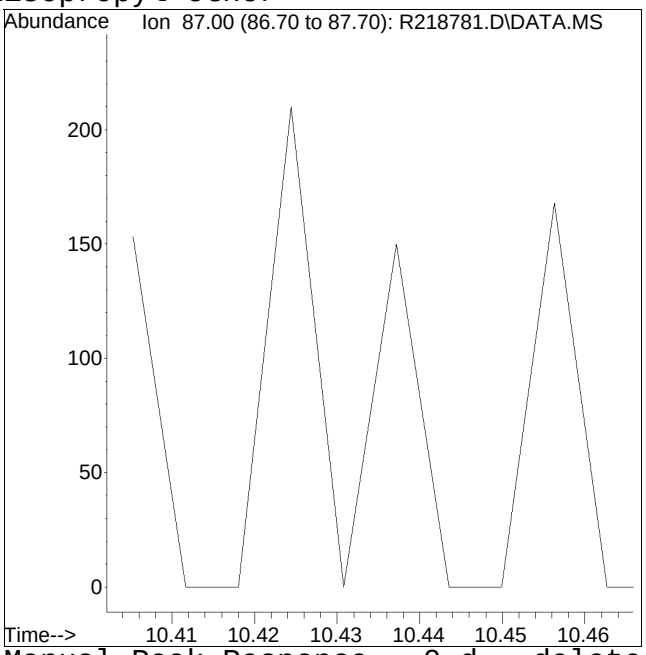
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #45: diisopropyl ether



Original Peak Response = 138



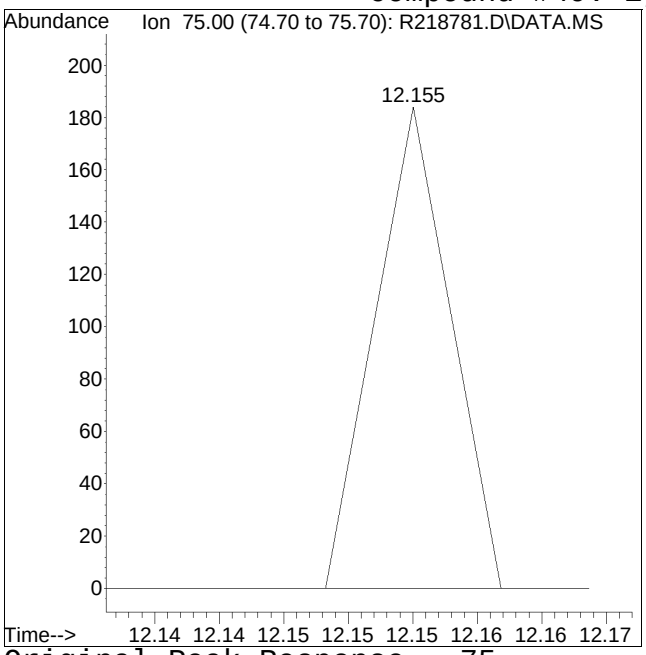
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

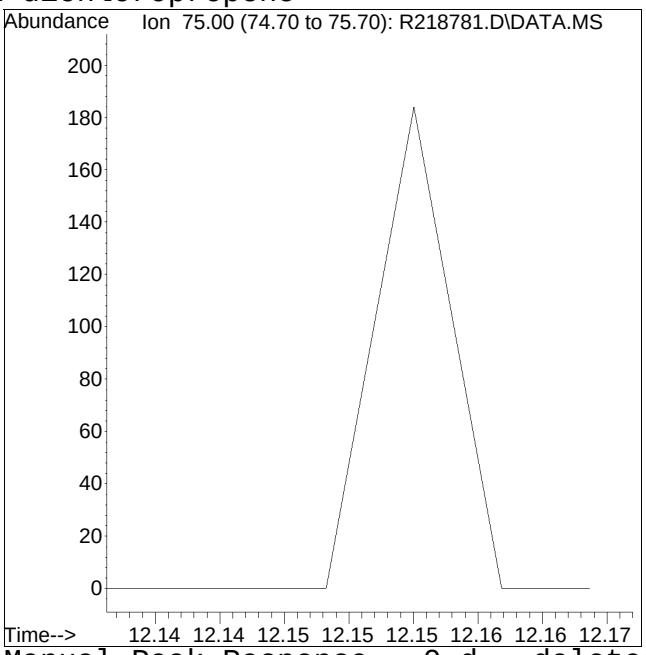
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #49: 1,1-dichloropropene



Original Peak Response = 75



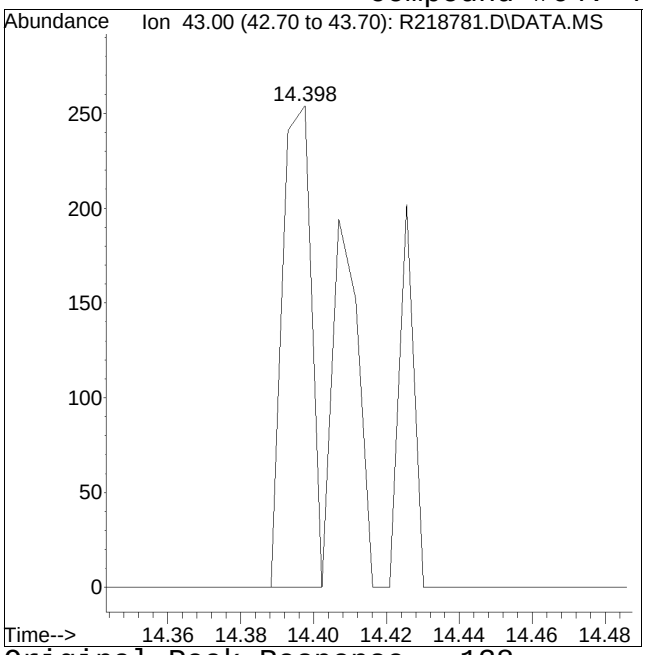
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

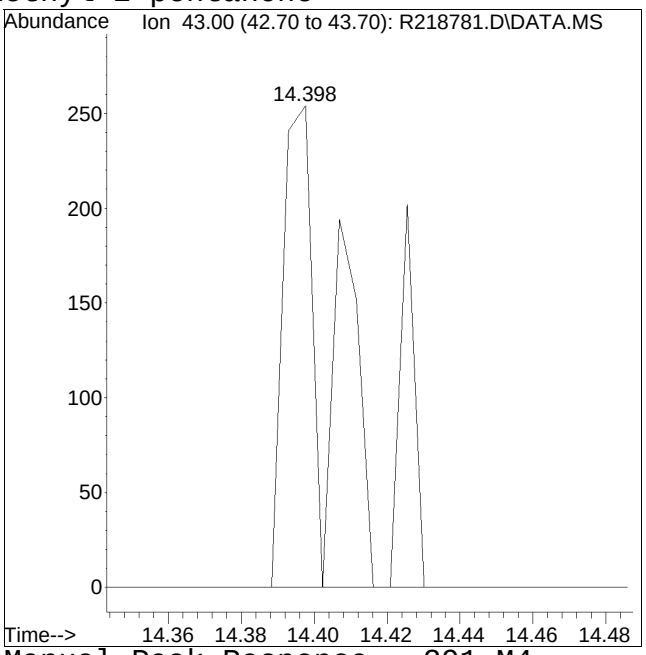
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 138



Manual Peak Response = 291 M4

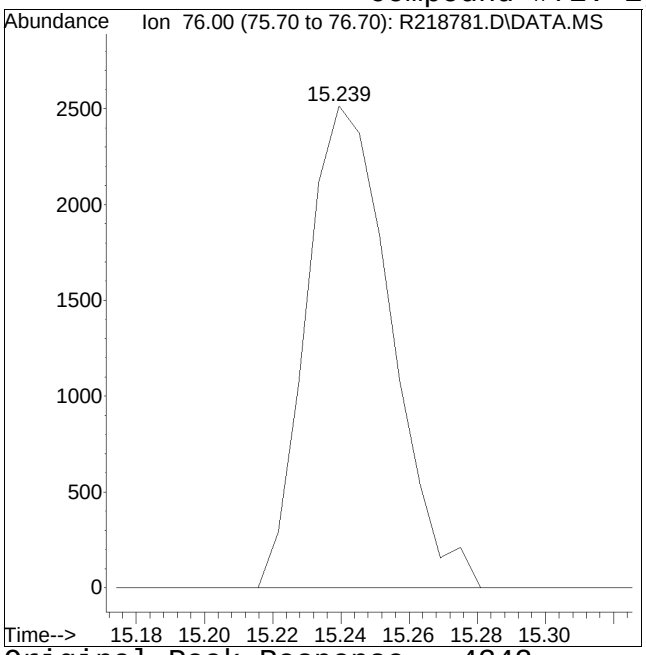
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

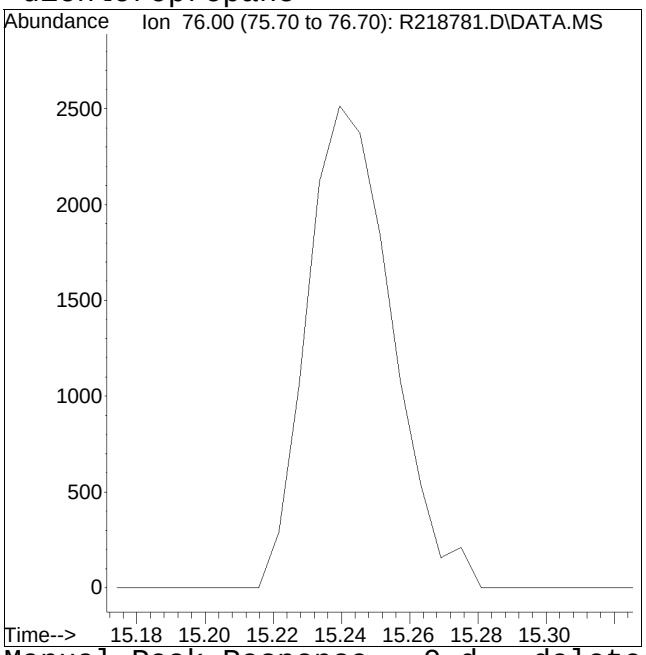
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 4342



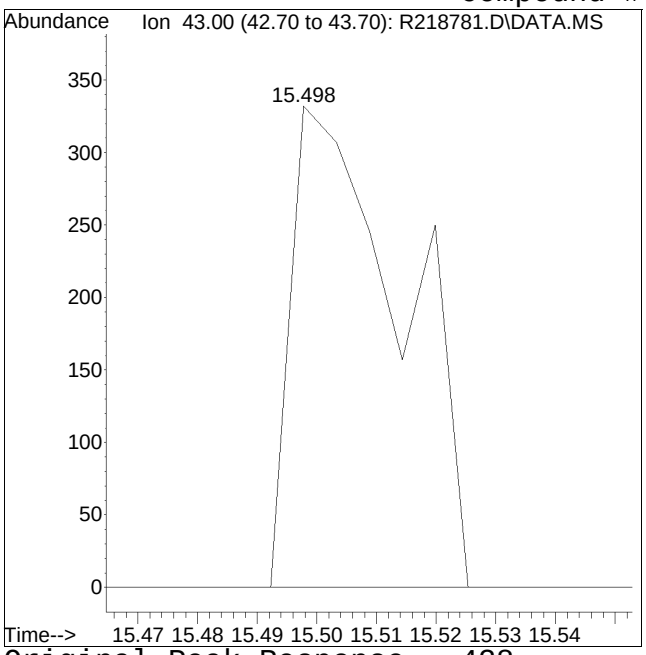
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

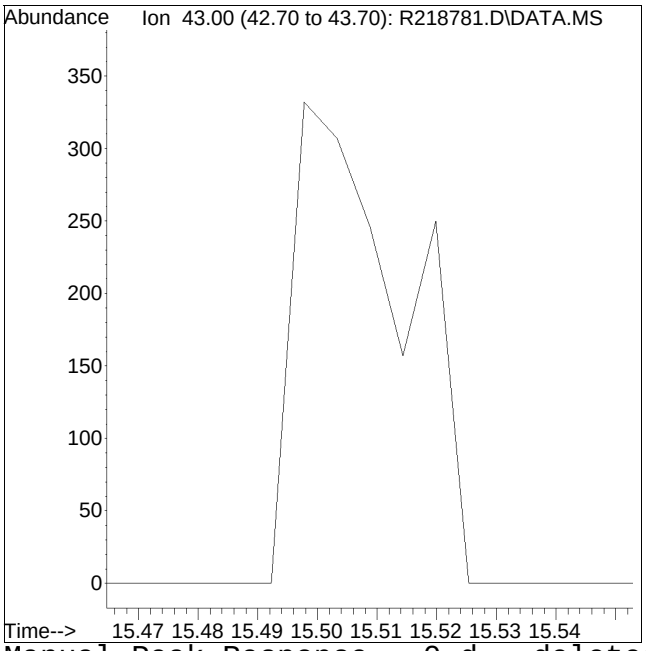
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #73: 2-hexanone



Original Peak Response = 428



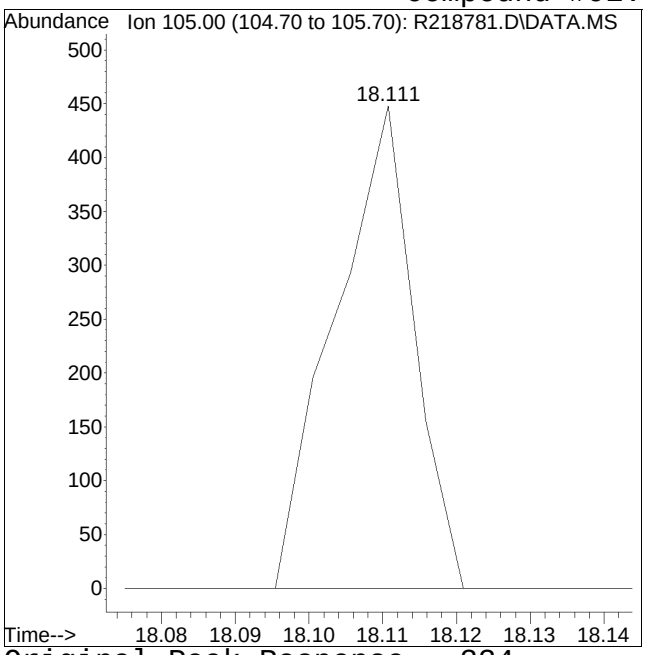
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

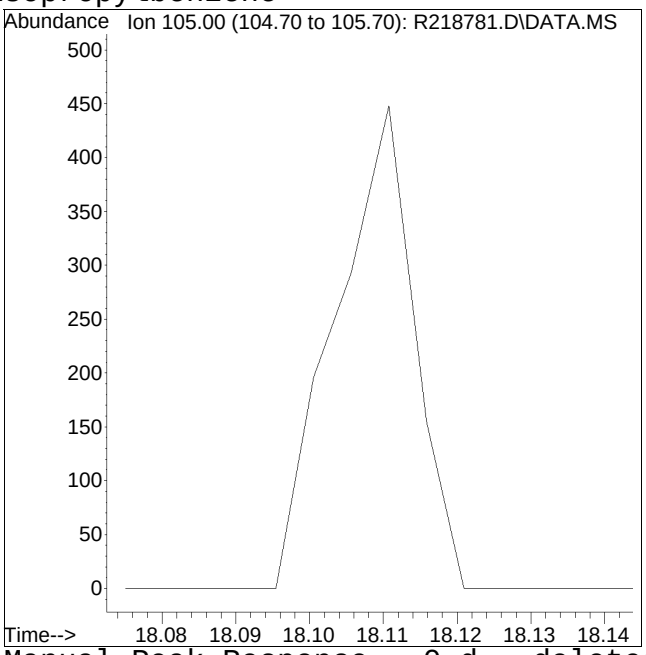
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #92: isopropylbenzene



Original Peak Response = 334



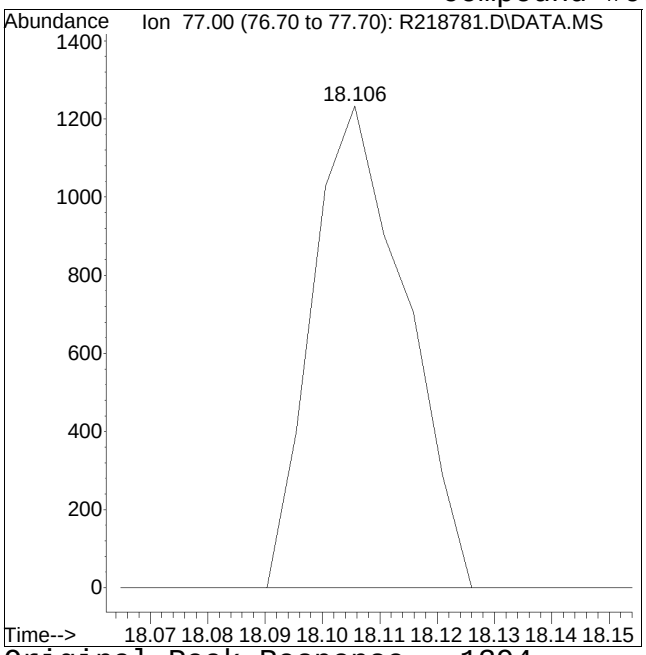
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

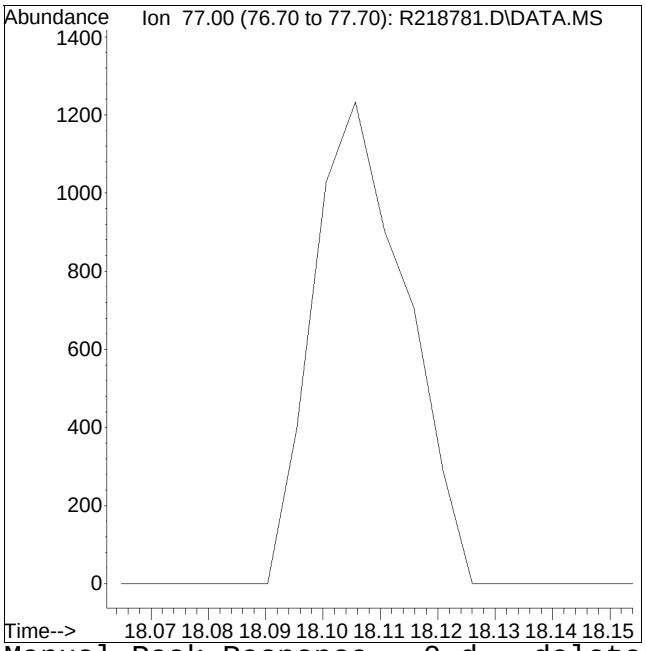
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #93: bromobenzene



Original Peak Response = 1394



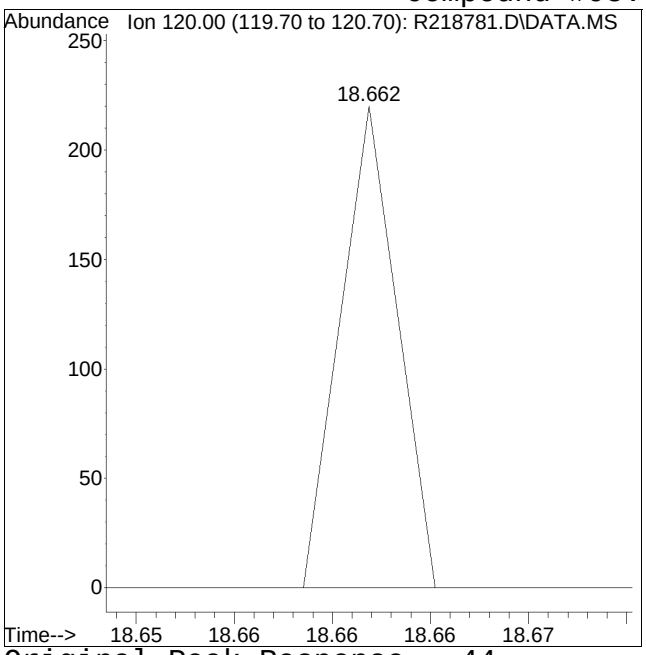
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

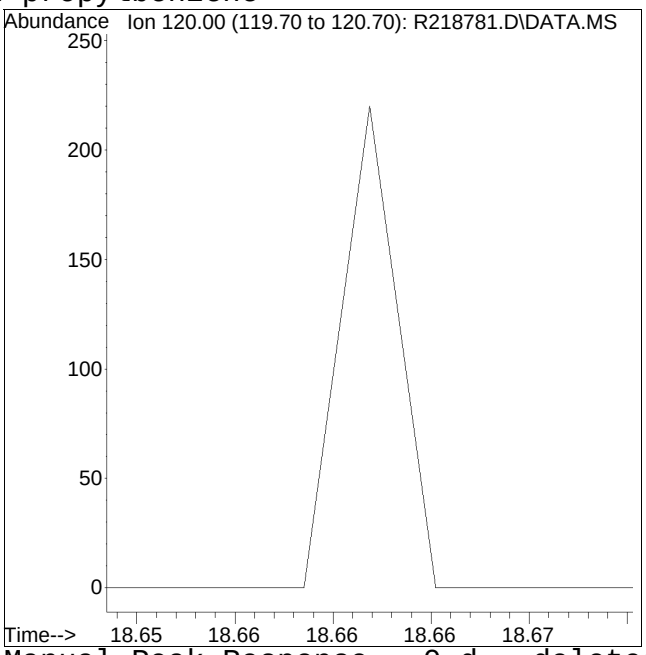
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #95: n-propylbenzene



Original Peak Response = 44



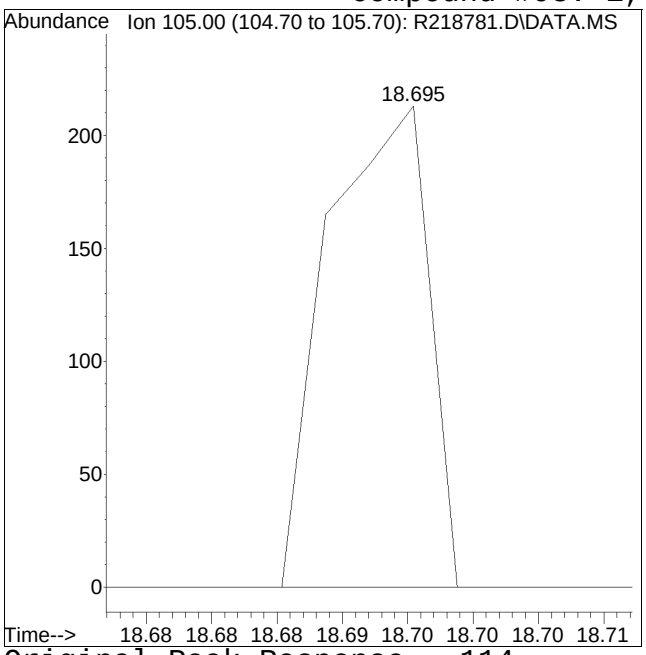
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

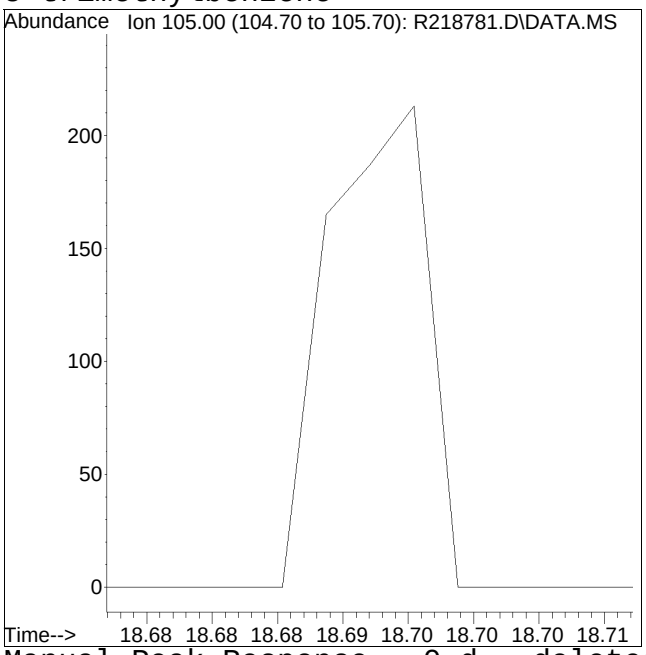
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #98: 1,3,5-trimethylbenzene



Original Peak Response = 114



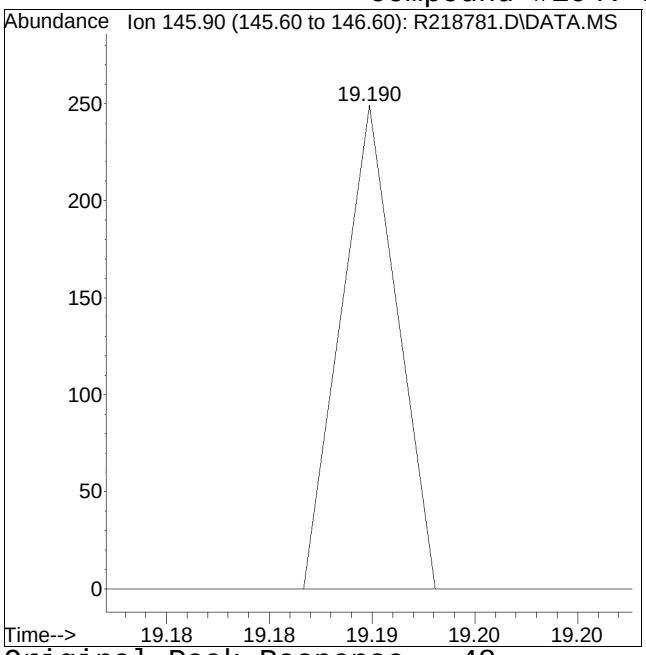
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

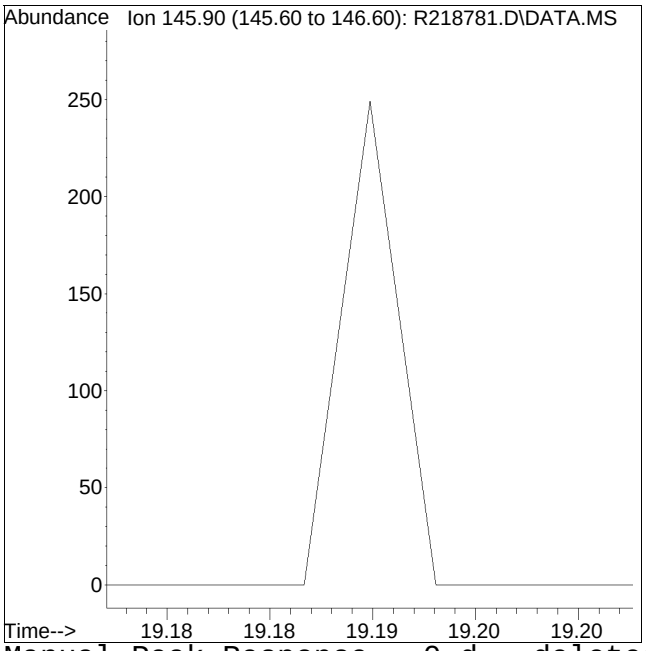
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #104: 1,4-dichlorobenzene



Original Peak Response = 48



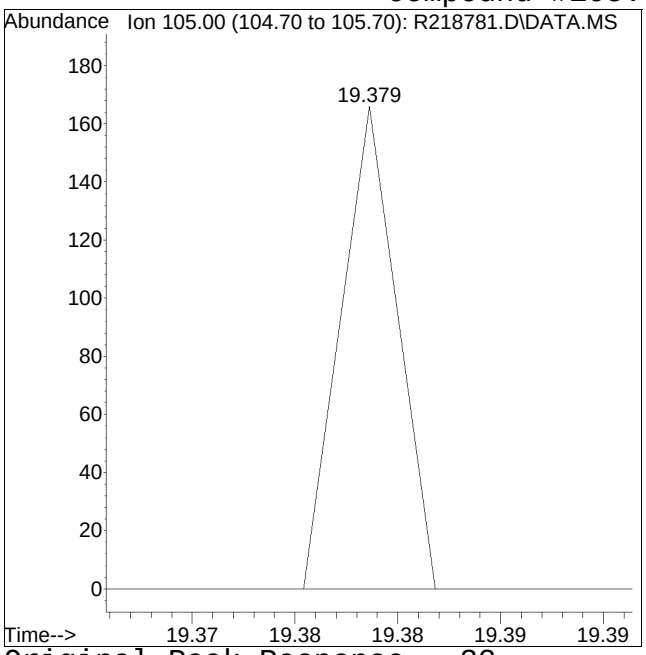
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

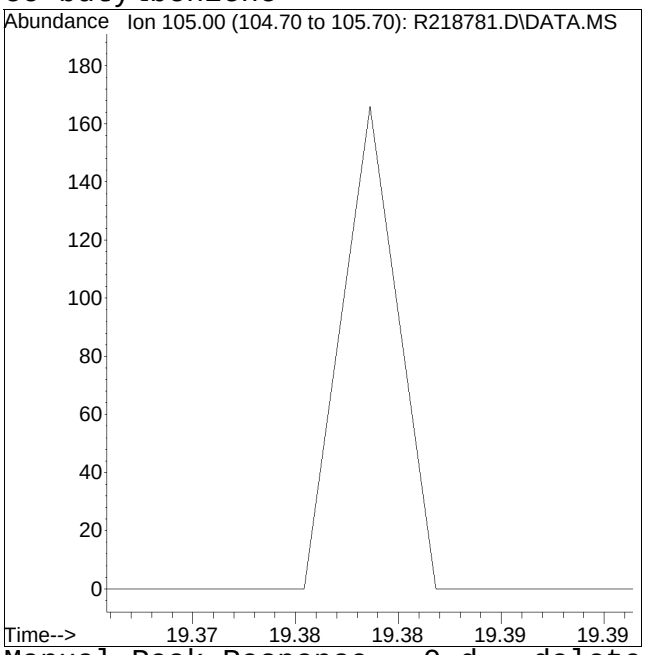
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218781.D
Date Inj'd : 1/6/2012 1:39
Sample : L1200006-02,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:03 am

Compound #105: sec-butylbenzene



Original Peak Response = 32



Manual Peak Response = 0 d - deleted

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218782.D
Acq On : 6 Jan 2012 2:15
Operator : AIRPIANO2:MB
Sample : L1200006-03,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 16 12:07:53 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	136252	10.000	ppbV	0.00
Standard Area = 151117			Recovery	=	90.16%	
43) 1,4-difluorobenzene	12.549	114	406579	10.000	ppbV	0.00
Standard Area = 485506			Recovery	=	83.74%	
68) chlorobenzene-D5	16.908	54	80095	10.000	ppbV	0.00
Standard Area = 90670			Recovery	=	88.34%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.340	85	12453M2	0.370	ppbV	
6) chloromethane	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.	d	
14) chloroethane	0.000		0	N.D.	d	
19) acetone	6.598	43	41177M4	2.926	ppbV	
21) trichlorofluoromethane	6.790	101	8736	0.253	ppbV	99
25) ethyl ether	0.000		0	N.D.	d	
26) 1,1-dichloroethene	7.618		0	N.D.		
28) methylene chloride	7.791		0	N.D.		
30) carbon disulfide	8.128		0	N.D.		
32) trans-1,2-dichloroethene	8.930		0	N.D.		
33) 1,1-dichloroethane	9.182		0	N.D.		
34) MTBE	9.308	73	14729	0.608	ppbV #	97
36) 2-butanone	9.699	43	6519	0.372	ppbV	97
37) cis-1,2-dichloroethene	0.000		0	N.D.	d	
40) Tetrahydrofuran	0.000		0	N.D.	d	
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	11.345		0	N.D.		
45) diisopropyl ether	0.000		0	N.D.	d	
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.318		0	N.D.		
54) tert-amyl methyl ether	12.867	73	842	0.037	ppbV #	80
55) dibromomethane	0.000		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	13.289		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218782.D
Acq On : 6 Jan 2012 2:15
Operator : AIRPIANO2:MB
Sample : L1200006-03,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 16 12:07:53 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

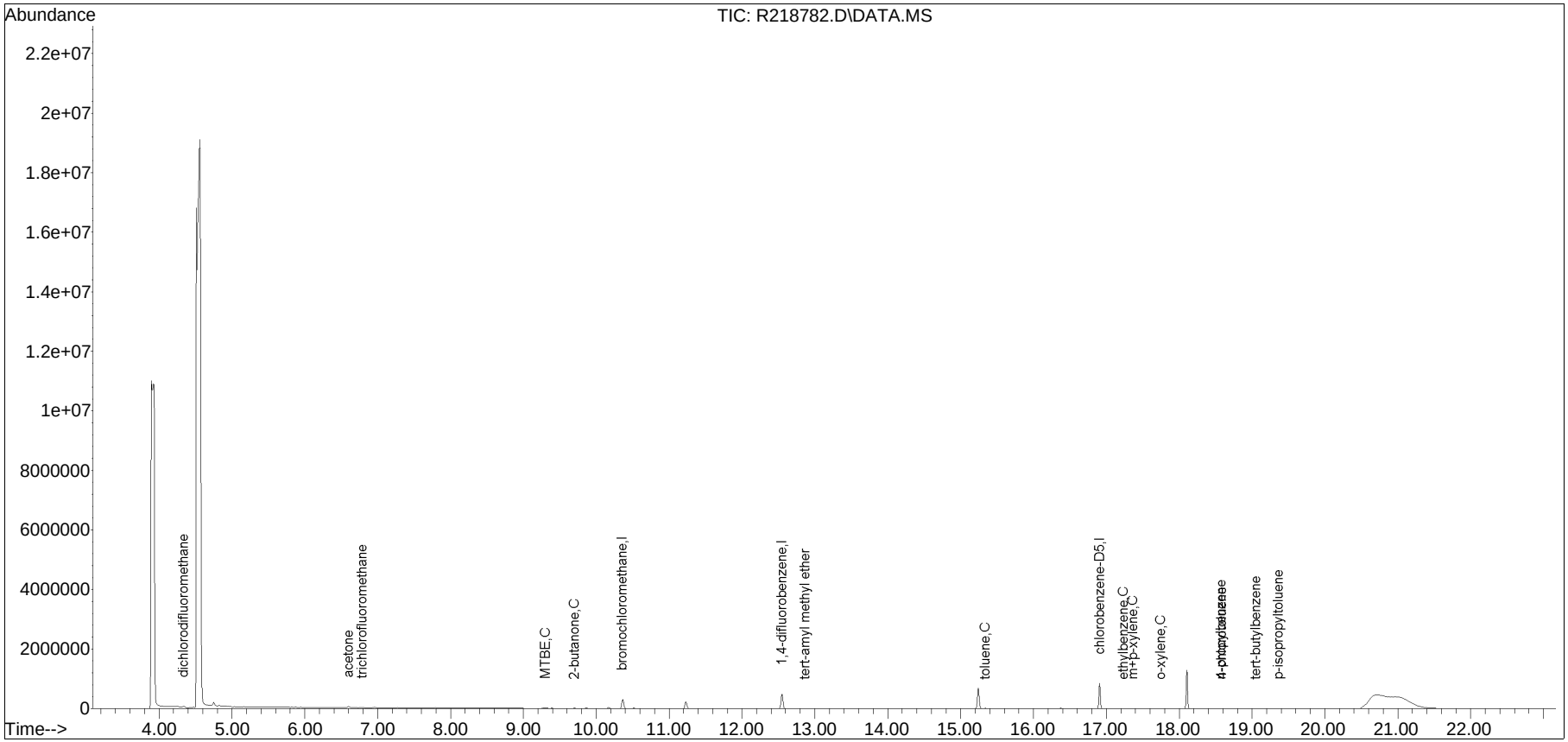
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 4-methyl-2-pentanone	0.000		0	N.D.	d	
66) trans-1,3-dichloropropene	0.000		0	N.D.		
67) 1,1,2-trichloroethane	0.000		0	N.D.		
69) toluene	15.341	91	6050	0.187	ppbV	95
72) 1,3-dichloropropane	0.000		0	N.D.	d	
73) 2-hexanone	0.000		0	N.D.	d	
75) dibromochloromethane	0.000		0	N.D.		
76) 1,2-dibromoethane	0.000		0	N.D.		
80) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81) chlorobenzene	0.000		0	N.D.		
82) ethylbenzene	17.238	91	2419	0.067	ppbV #	86
84) m+p-xylene	17.365	91	4272	0.150	ppbV	87
85) bromoform	0.000		0	N.D.		
86) styrene	17.670		0	N.D.		
87) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88) o-xylene	17.751	91	3564	0.117	ppbV	86
89) 1,2,3-trichloropropane	0.000		0	N.D.		
92) isopropylbenzene	18.200		0	N.D.		
93) bromobenzene	0.000		0	N.D.	d	
94) 2-chlorotoluene	0.000		0	N.D.		
95) n-propylbenzene	18.579	120	38	0.003	ppbV #	1
96) 4-chlorotoluene	18.582	91	519	0.017	ppbV #	40
98) 1,3,5-trimethylbenzene	18.750		0	N.D.		
99) tert-butylbenzene	19.053	119	72	0.002	ppbV #	54
100) 1,2,4-trimethylbenzene	19.056		0	N.D.		
103) 1,3-dichlorobenzene	19.187		0	N.D.		
104) 1,4-dichlorobenzene	0.000		0	N.D.	d	
105) sec-butylbenzene	0.000		0	N.D.	d	
107) p-isopropyltoluene	19.360	119	37	0.001	ppbV #	49
108) 1,2-dichlorobenzene	0.000		0	N.D.		
109) n-butylbenzene	0.000		0	N.D.		
112) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116) 1,2,4-trichlorobenzene	0.000		0	N.D.		
117) naphthalene	21.080		0	N.D.		
118) 1,2,3-trichlorobenzene	0.000		0	N.D.		
120) hexachlorobutadiene	0.000		0	N.D.		

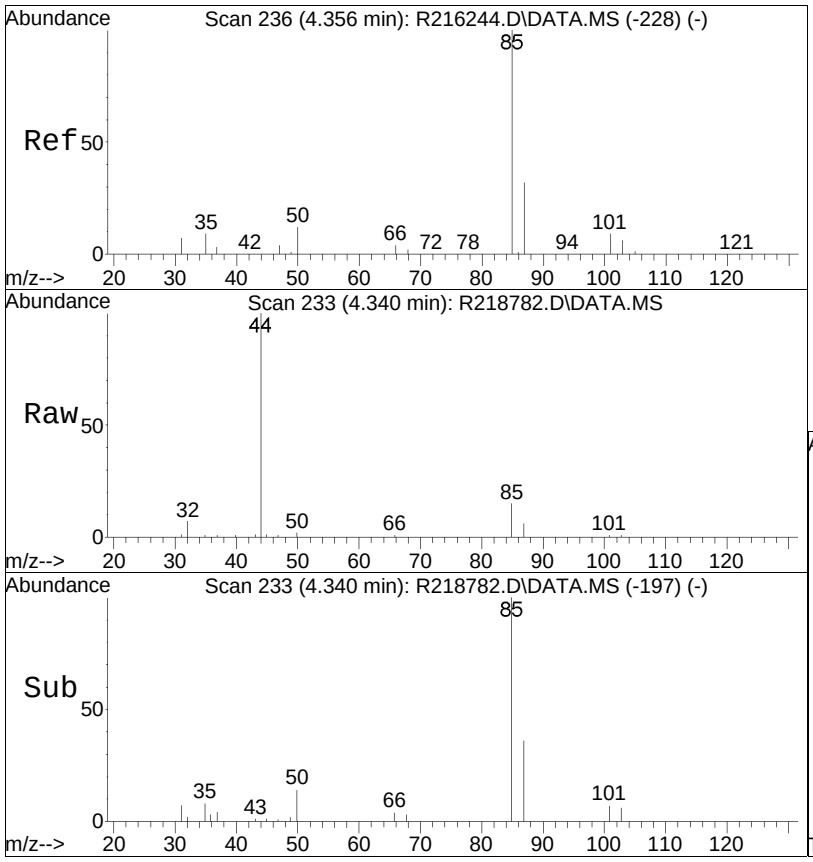
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218782.D
Acq On : 6 Jan 2012 2:15
Operator : AIRPIANO2:MB
Sample : L1200006-03,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 16 12:07:53 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

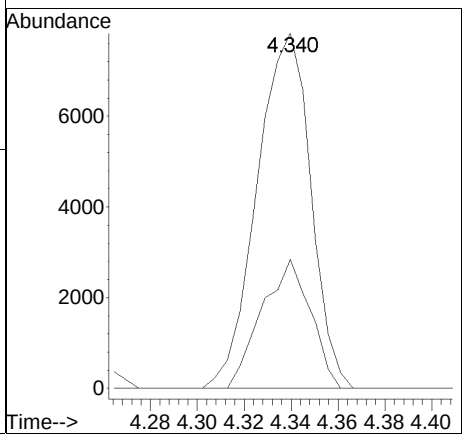


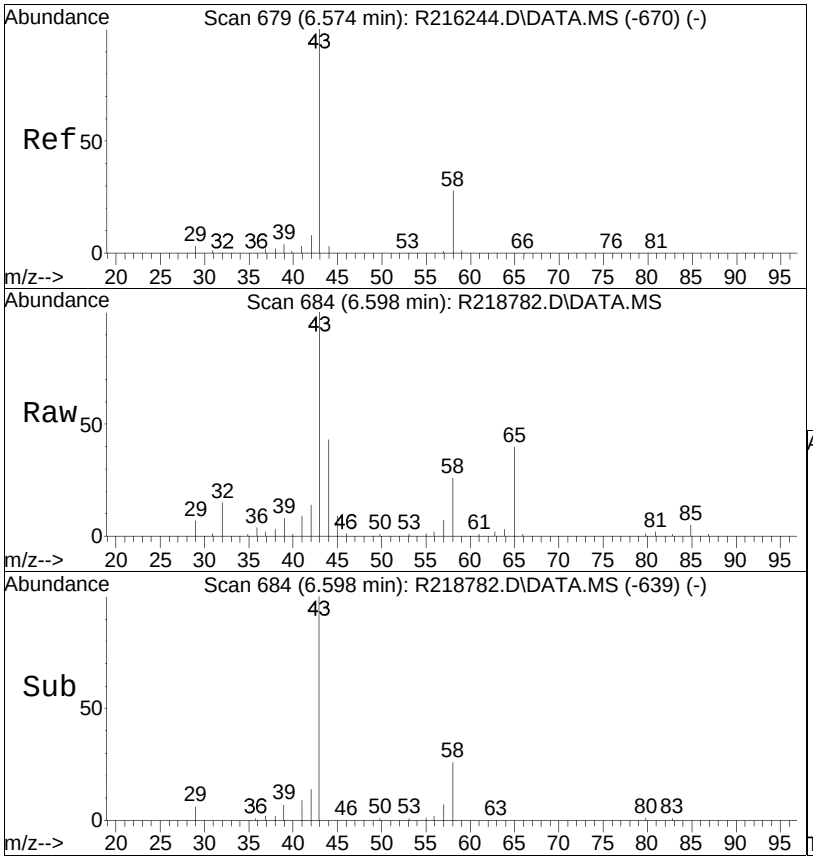


#5
dichlorodifluoromethane
Concen: 0.37 ppbV m
RT: 4.340 min Scan# 233
Delta R.T. -0.005 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion: 85 Resp: 12453

Ion	Ratio	Lower	Upper
85	100		
87	36.3	26.4	39.6

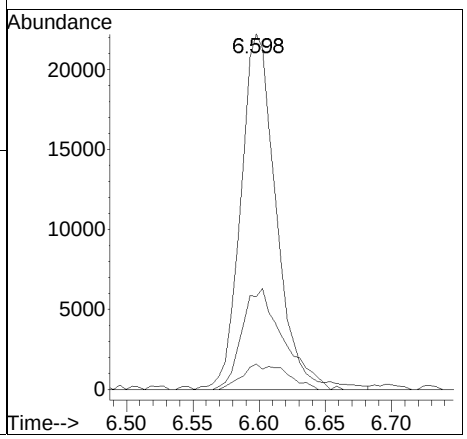


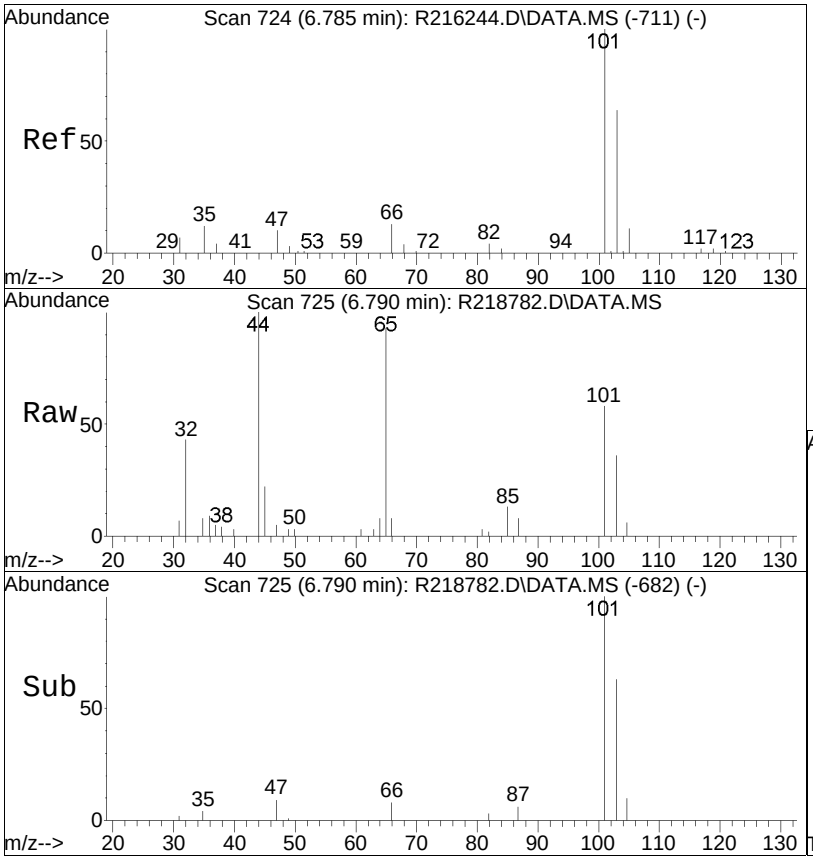


#19
acetone
Concen: 2.93 ppbV m
RT: 6.598 min Scan# 684
Delta R.T. 0.024 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion: 43 Resp: 41177

Ion	Ratio	Lower	Upper
43	100		
58	26.1	22.2	33.2
57	7.1	0.9	1.3#

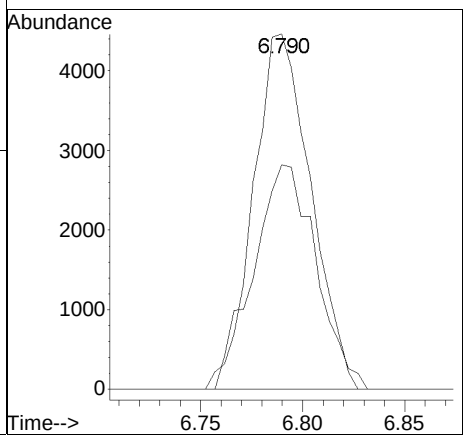


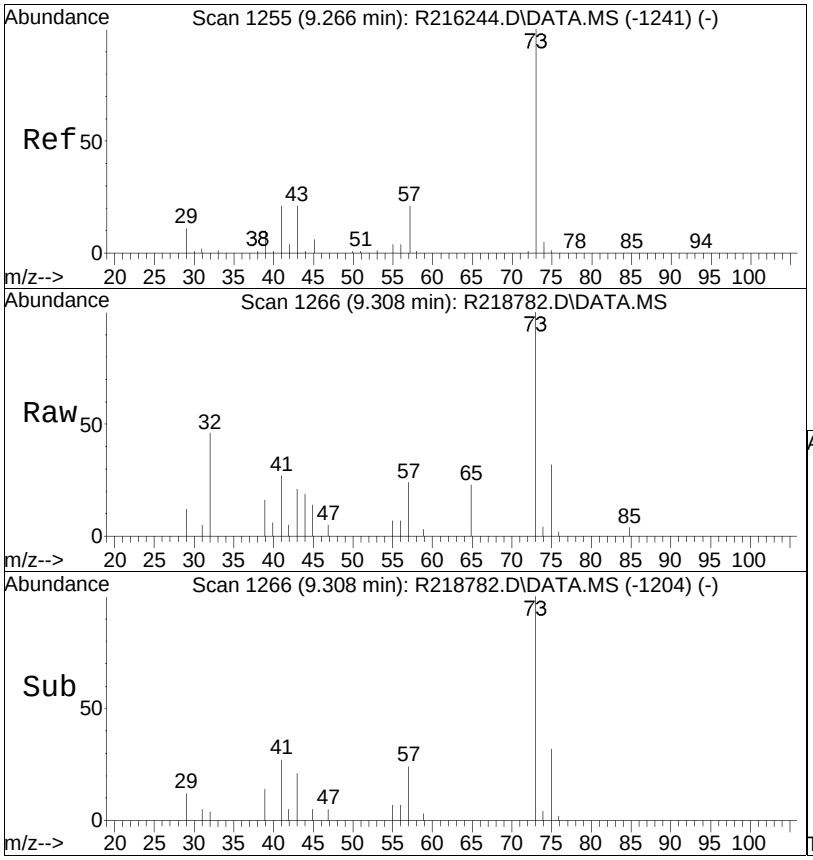


#21
trichlorofluoromethane
Concen: 0.25 ppbV
RT: 6.790 min Scan# 725
Delta R.T. 0.000 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion:101 Resp: 8736

Ion	Ratio	Lower	Upper
101	100		
103	63.2	50.2	75.2

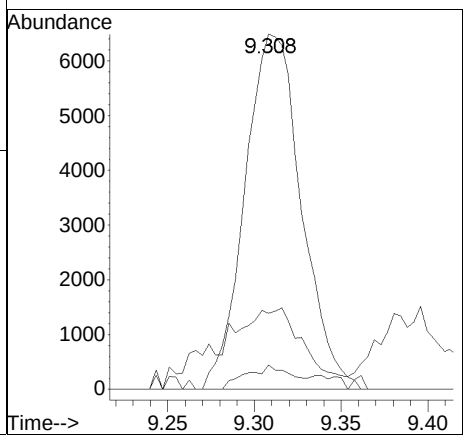


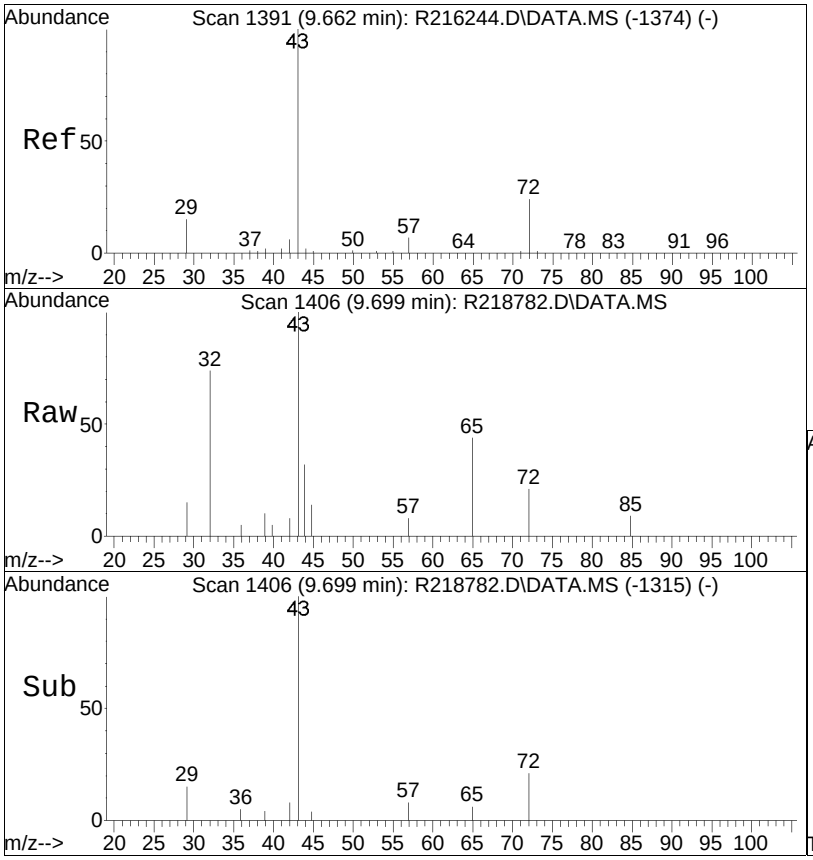


#34
MTBE
Concen: 0.61 ppbV
RT: 9.308 min Scan# 1266
Delta R.T. 0.034 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion: 73 Resp: 14729

Ion	Ratio	Lower	Upper
73	100		
55	6.9	4.3	6.5#
43	21.4	17.9	26.9

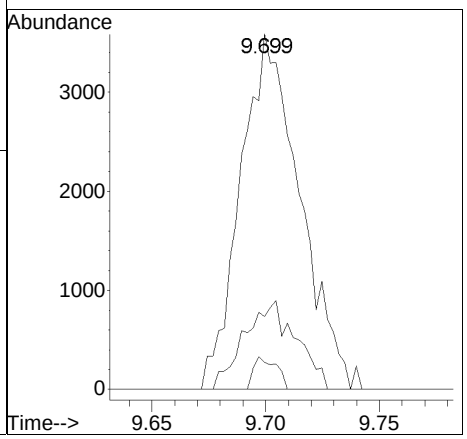


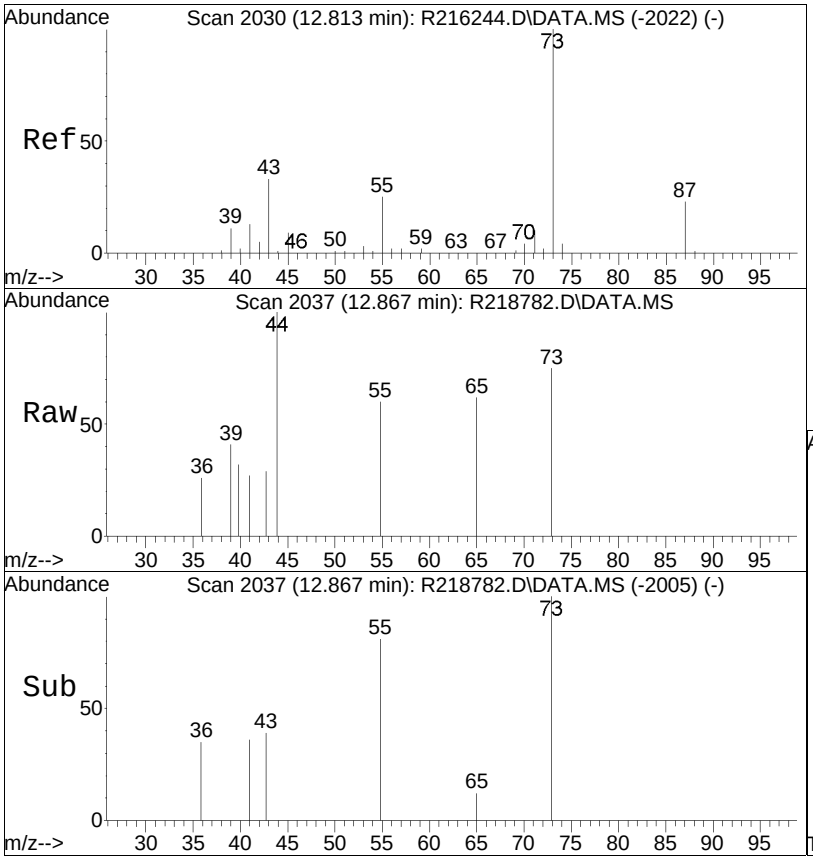


#36
2-butanone
Concen: 0.37 ppbV
RT: 9.699 min Scan# 1406
Delta R.T. 0.030 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion: 43 Resp: 6519

Ion	Ratio	Lower	Upper
43	100		
72	20.5	17.6	26.4
57	7.6	5.6	8.4

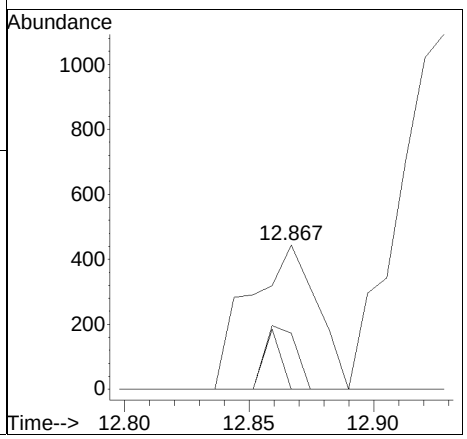


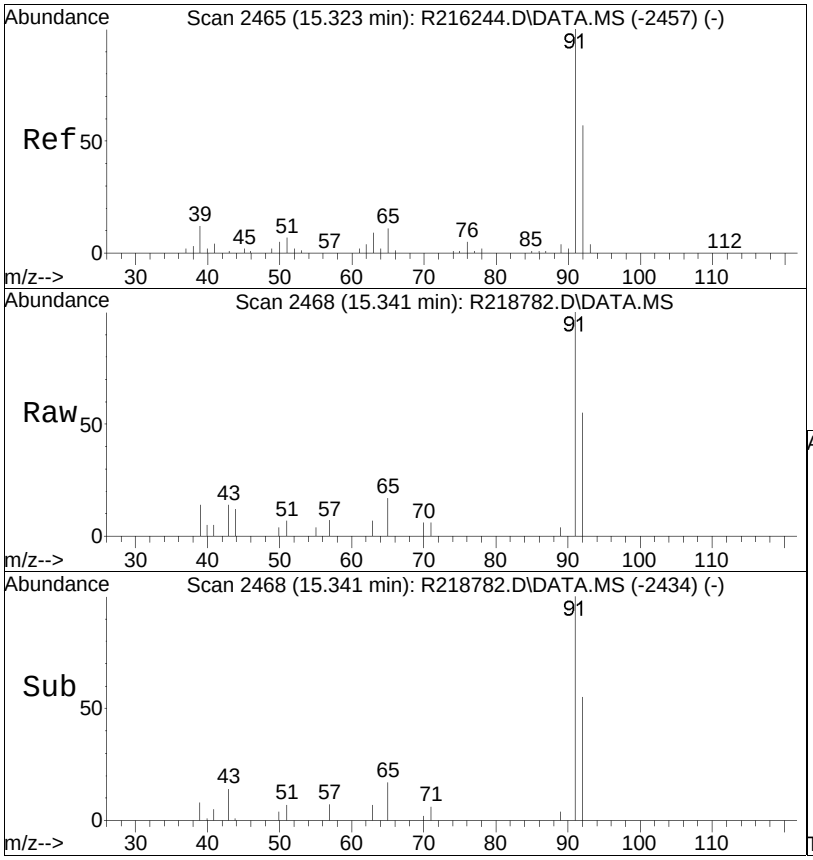


#54
tert-amyl methyl ether
Concen: 0.04 ppbV
RT: 12.867 min Scan# 2037
Delta R.T. 0.046 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion: 73 Resp: 842

Ion	Ratio	Lower	Upper
73	100		
43	39.0	30.5	45.7
87	0.0	19.8	29.6#

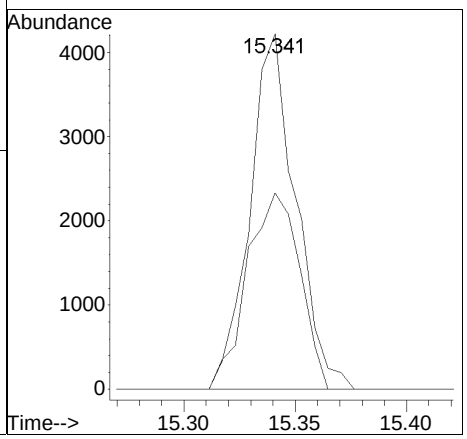


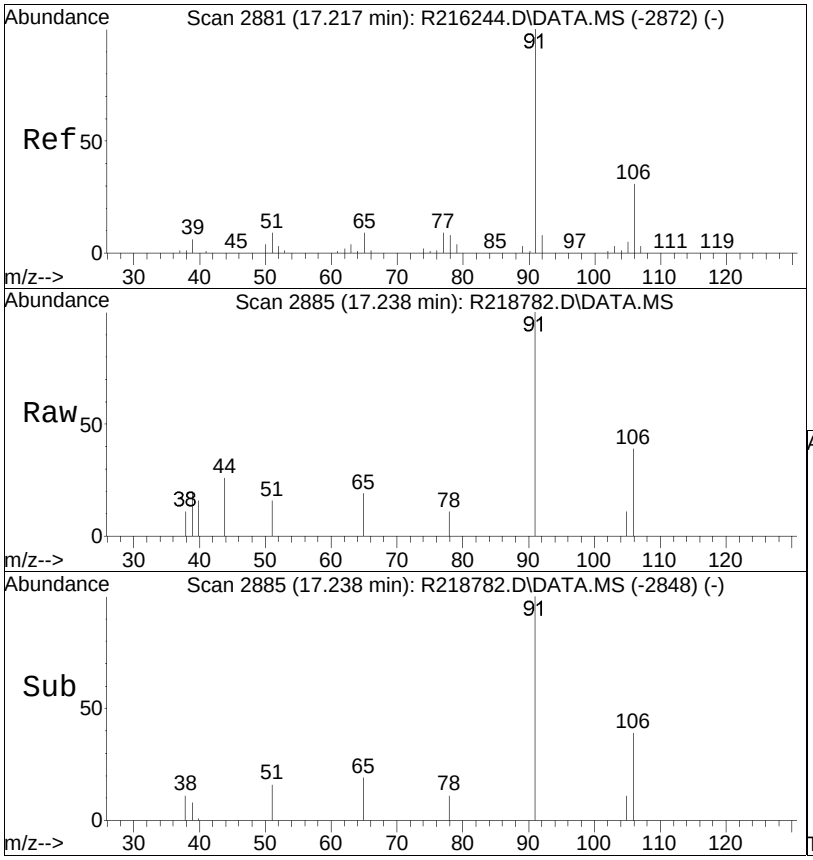


#69
toluene
Concen: 0.19 ppbV
RT: 15.341 min Scan# 2468
Delta R.T. 0.000 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion: 91 Resp: 6050

Ion	Ratio	Lower	Upper
91	100		
92	55.3	47.0	70.4

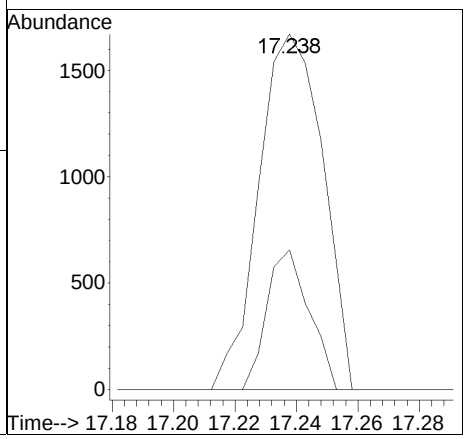


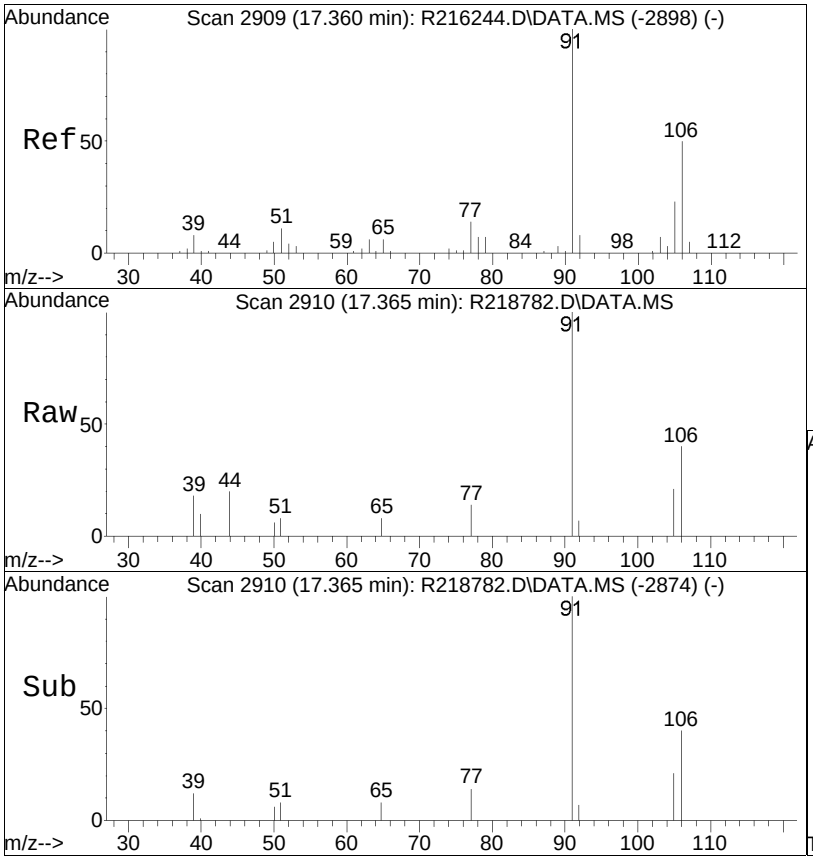


#82
ethylbenzene
Concen: 0.07 ppbV
RT: 17.238 min Scan# 2885
Delta R.T. 0.000 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion: 91 Resp: 2419

Ion	Ratio	Lower	Upper
91	100		
106	39.3	25.1	37.7#

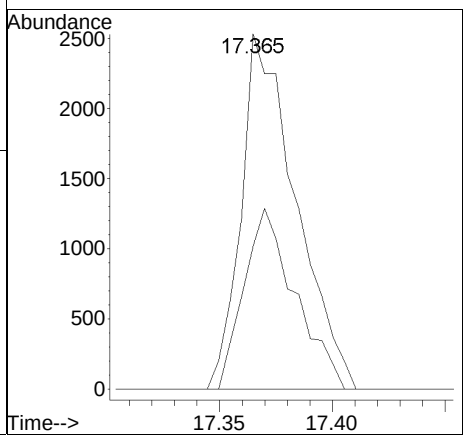


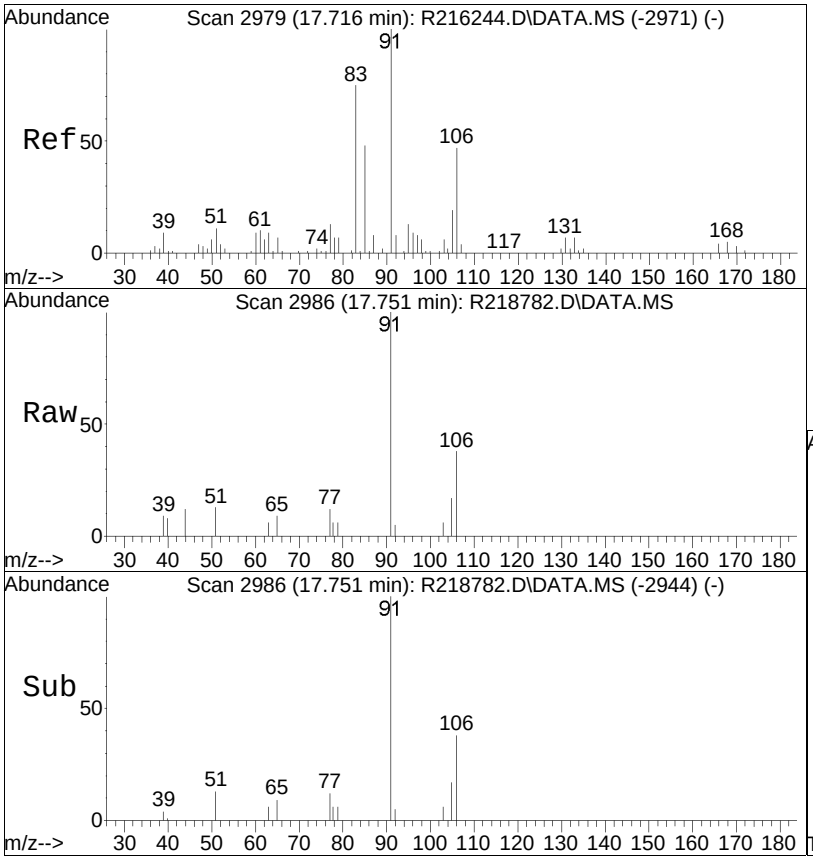


#84
m+p-xylene
Concen: 0.15 ppbV
RT: 17.365 min Scan# 2910
Delta R.T. -0.015 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion: 91 Resp: 4272

Ion	Ratio	Lower	Upper
91	100		
106	40.2	39.5	59.3

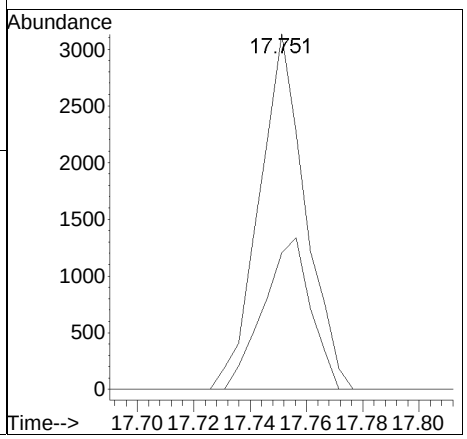


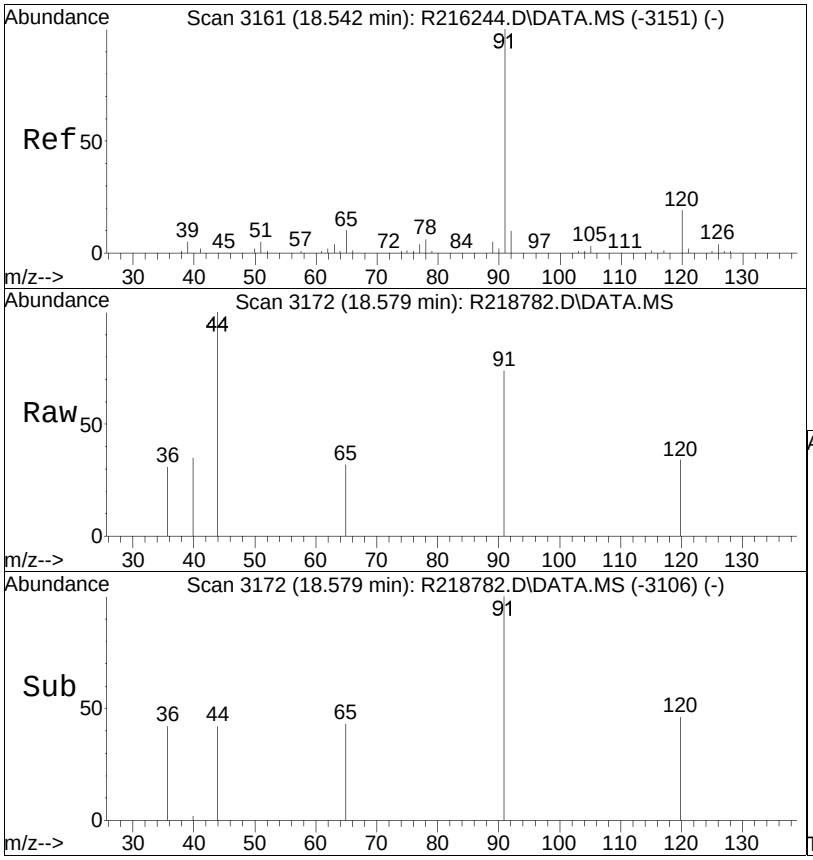


#88
o-xylene
Concen: 0.12 ppbV
RT: 17.751 min Scan# 2986
Delta R.T. 0.015 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion: 91 Resp: 3564

Ion	Ratio	Lower	Upper
91	100		
106	38.4	38.1	57.1

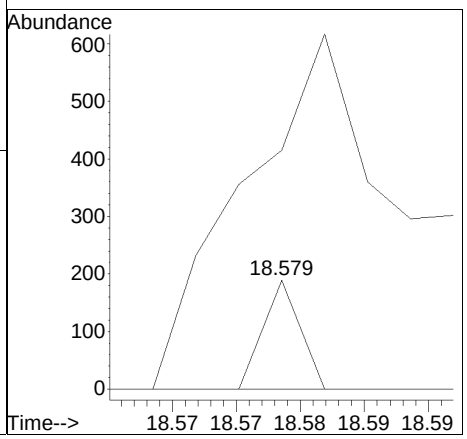


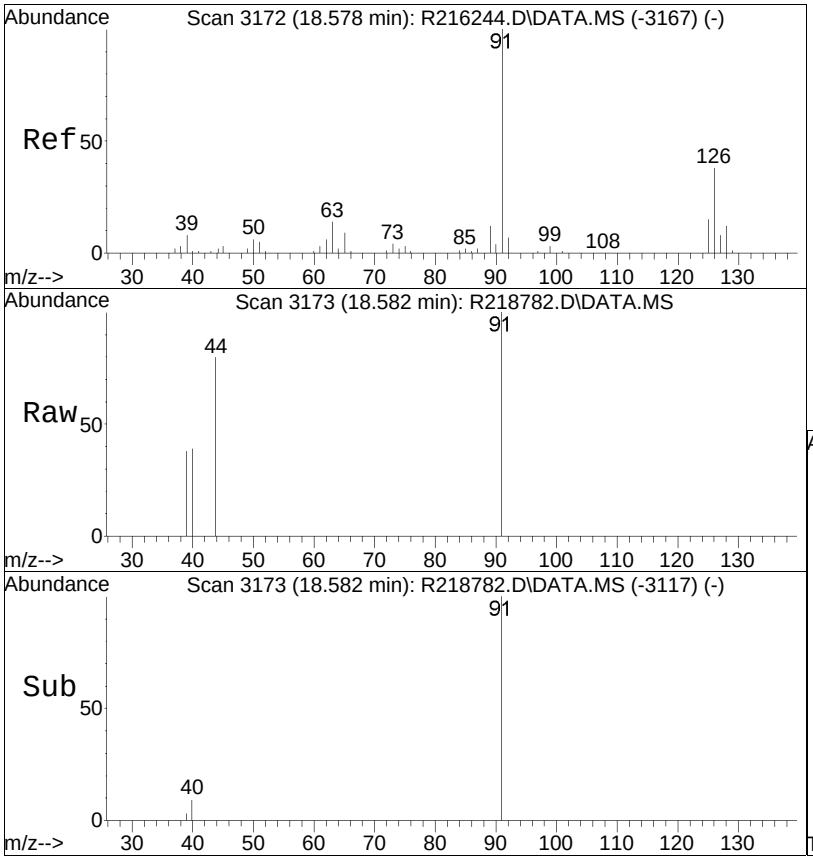


#95
n-propylbenzene
Concen: 0.00 ppbV
RT: 18.579 min Scan# 3172
Delta R.T. 0.020 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion:120 Resp: 38

Ion	Ratio	Lower	Upper
120	100		
91	219.6	424.8	637.2#

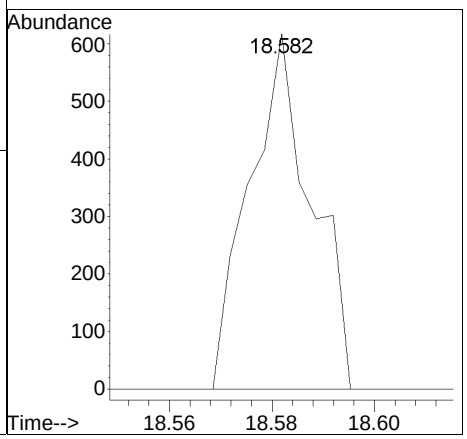


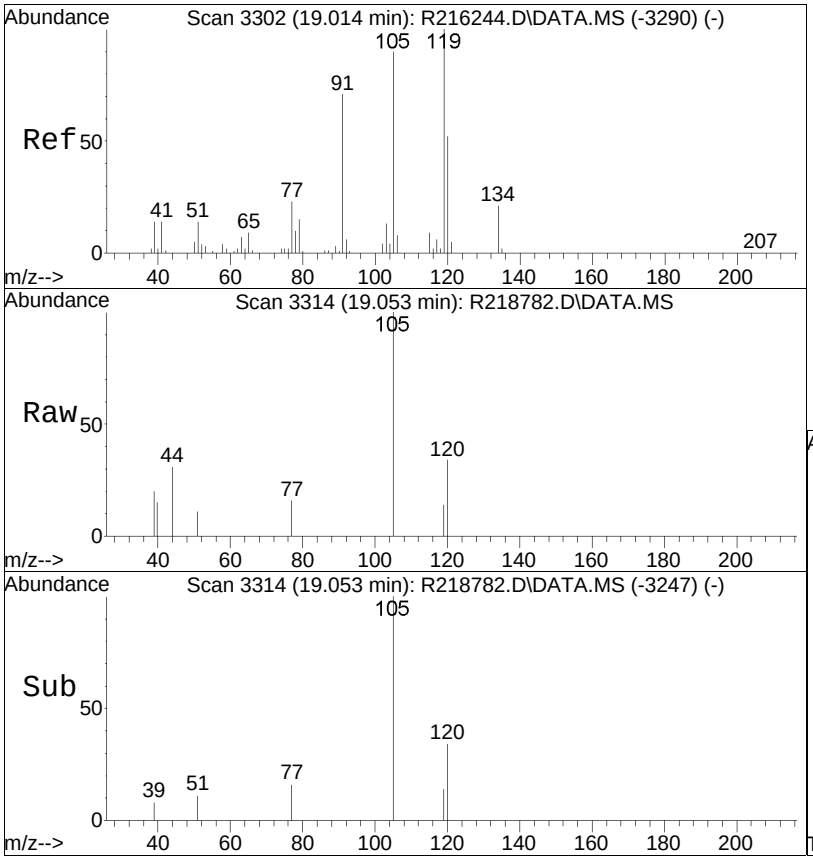


#96
4-chlorotoluene
Concen: 0.02 ppbV
RT: 18.582 min Scan# 3173
Delta R.T. -0.013 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion: 91 Resp: 519

Ion	Ratio	Lower	Upper
91	100		
126	0.0	28.2	42.2#

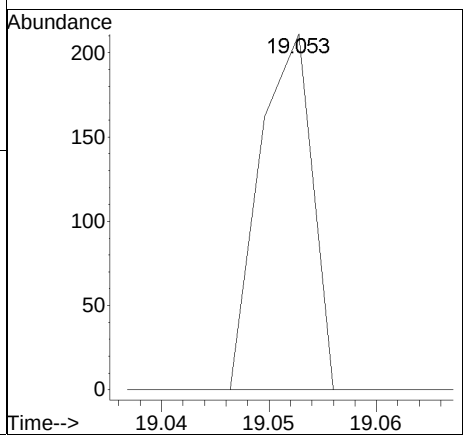


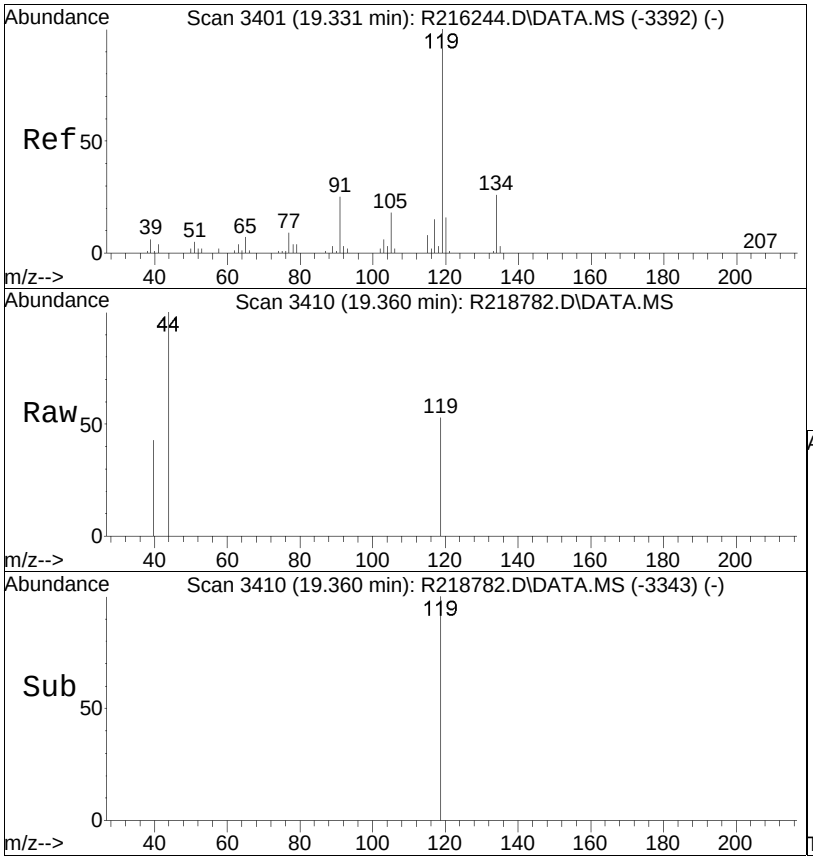


#99
tert-butylbenzene
Concen: 0.00 ppbV
RT: 19.053 min Scan# 3314
Delta R.T. 0.023 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion:119 Resp: 72

Ion	Ratio	Lower	Upper
119	100		
134	0.0	17.2	25.8#

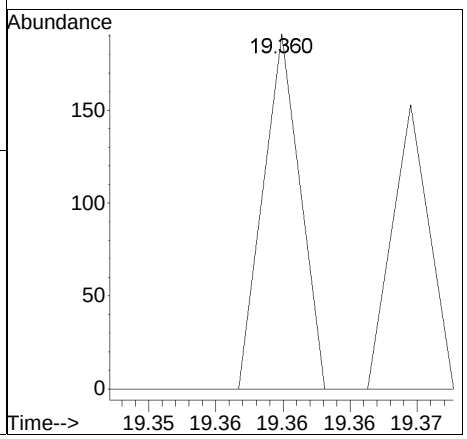




#107
p-isopropyltoluene
Concen: 0.00 ppbV
RT: 19.360 min Scan# 3410
Delta R.T. 0.013 min
Lab File: R218782.D
Acq: 6 Jan 2012 2:15

Tgt Ion:119 Resp: 37

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

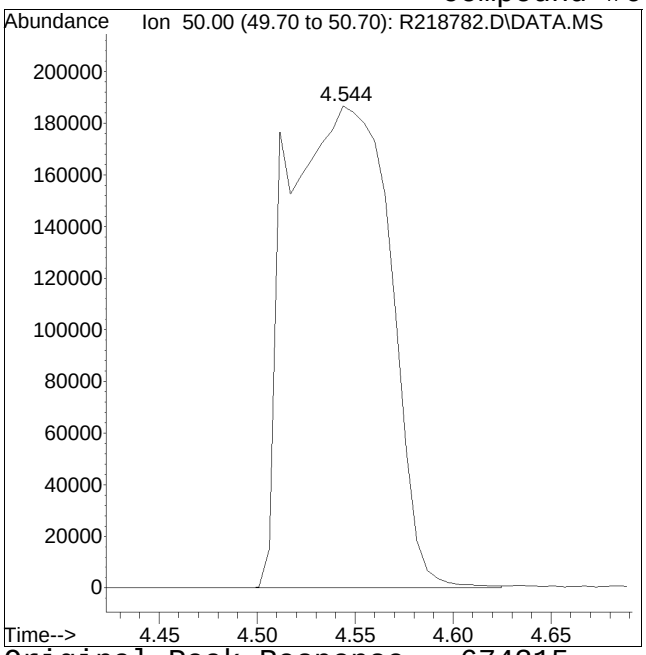


Manual Integration/Negative Proof Report

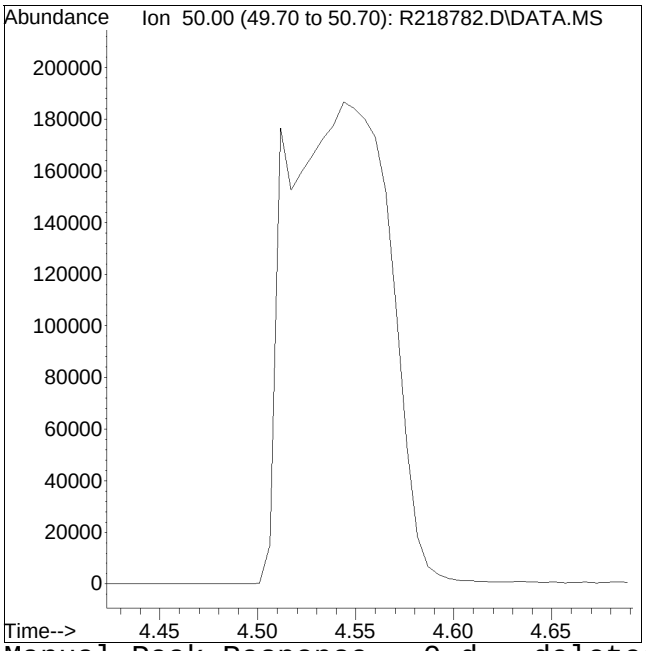
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #6: chloromethane



Original Peak Response = 674315



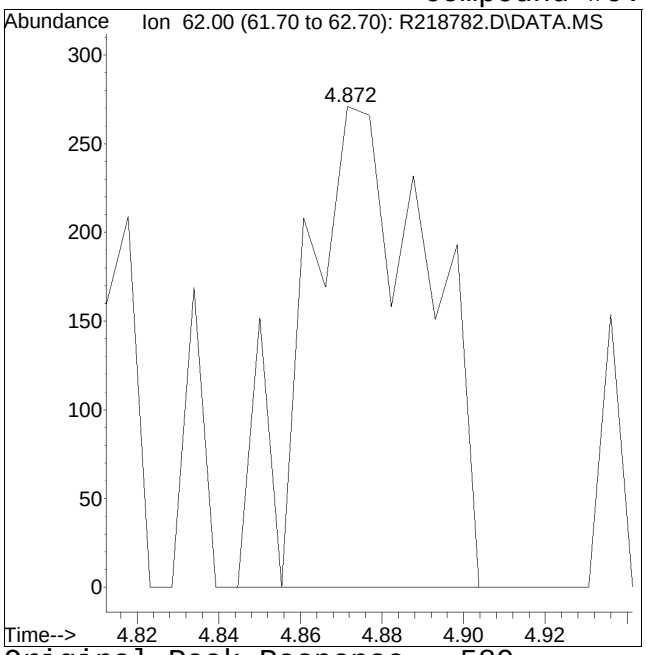
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

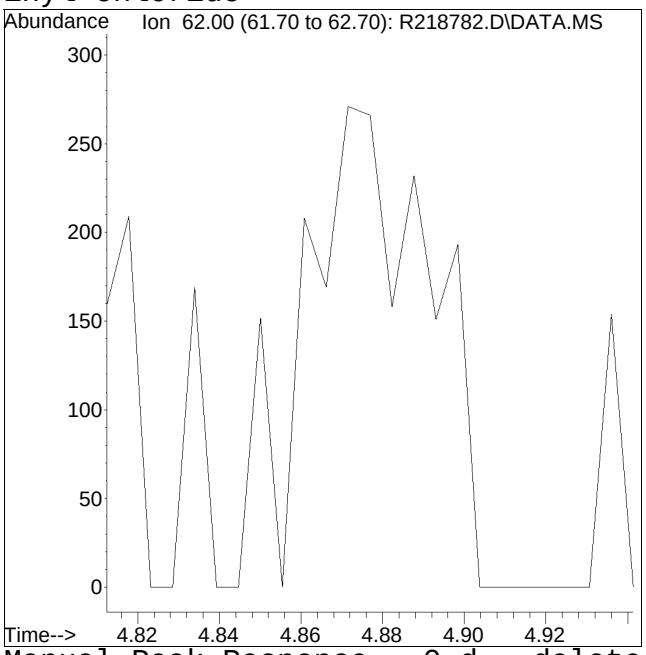
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #9: vinyl chloride



Original Peak Response = 580



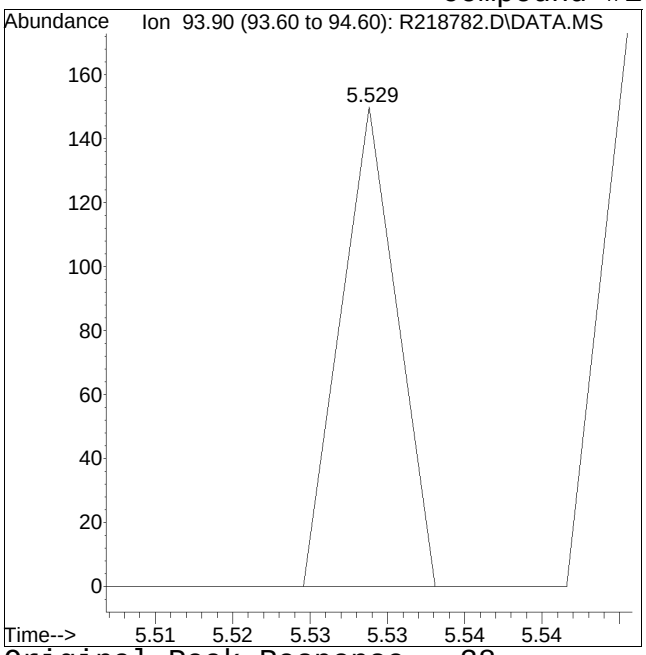
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

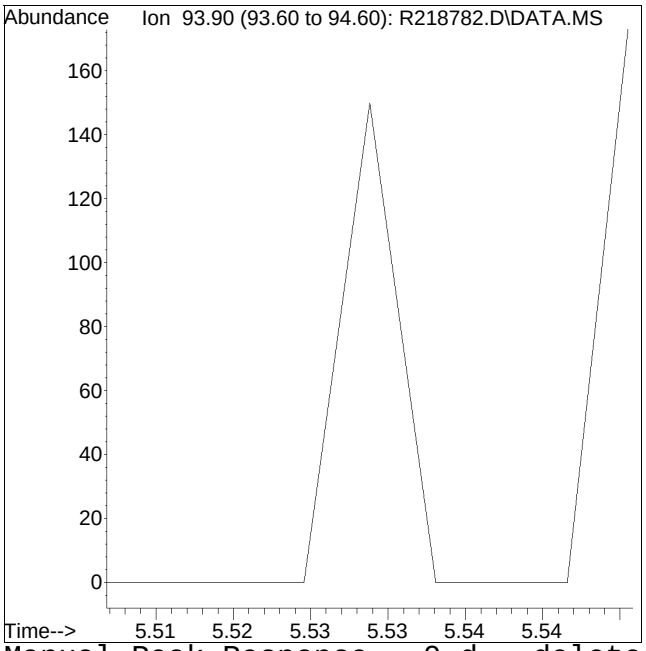
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #13: bromomethane



Original Peak Response = 38



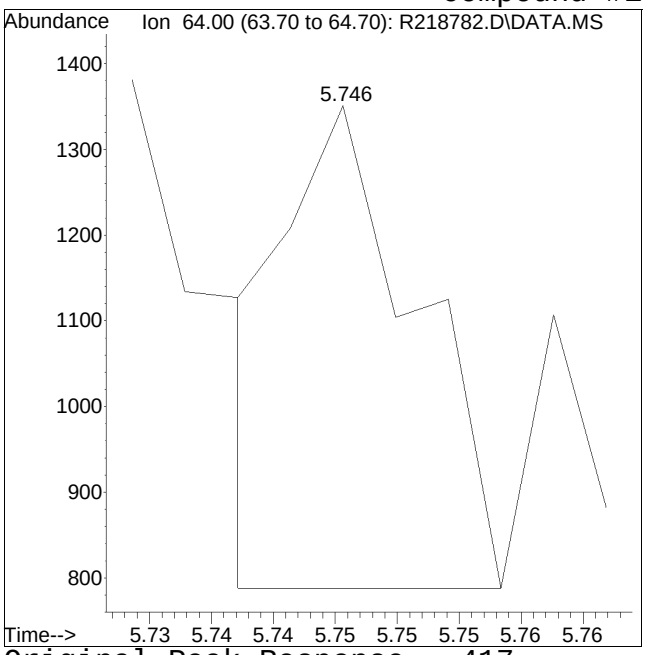
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

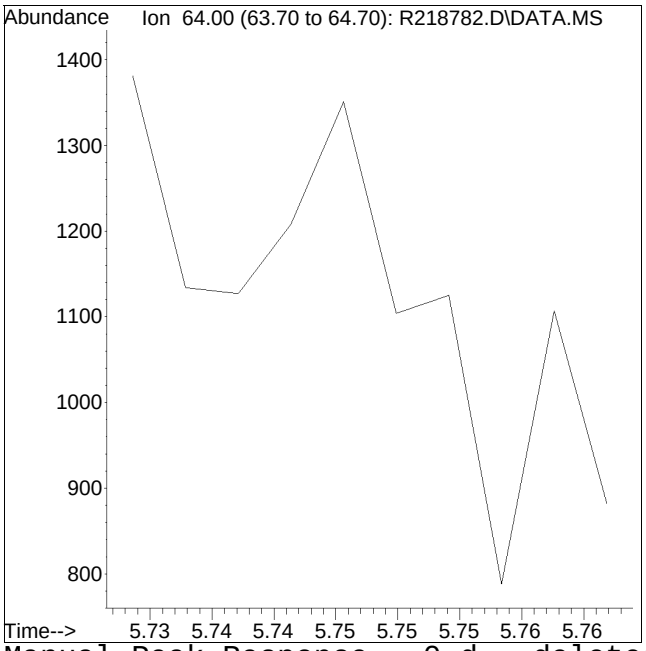
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #14: chloroethane



Original Peak Response = 417



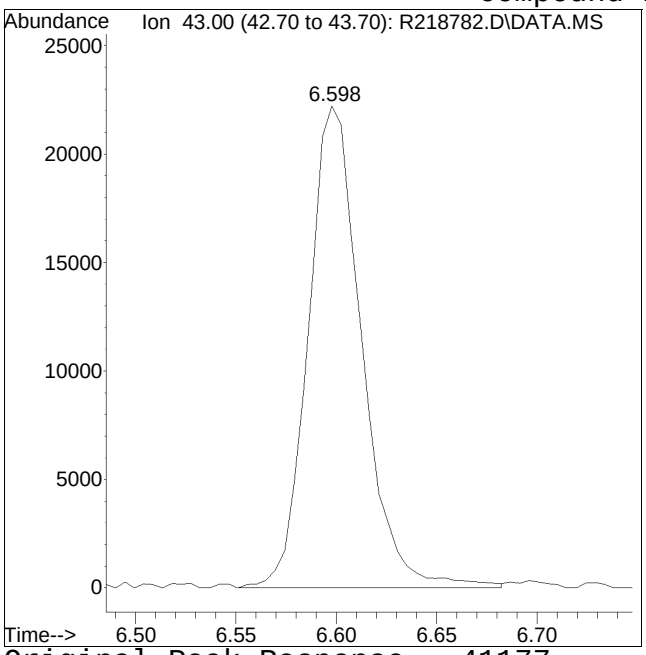
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

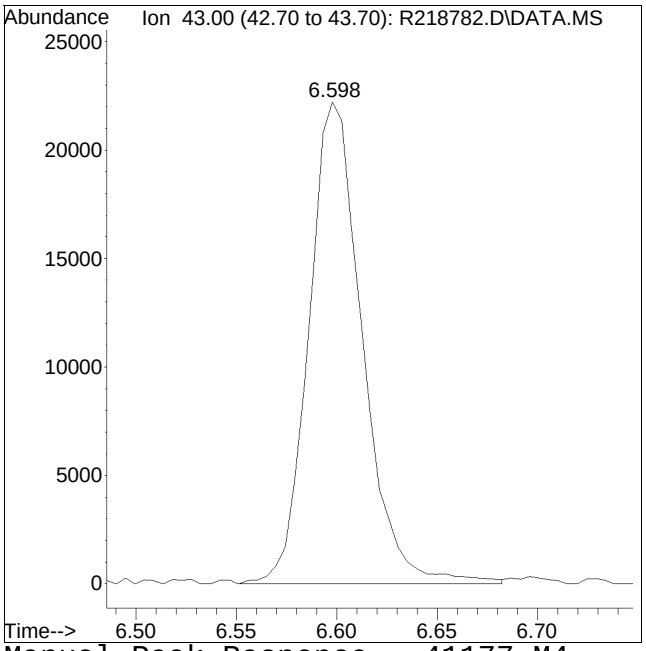
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #19: acetone



Original Peak Response = 41177



Manual Peak Response = 41177 M4

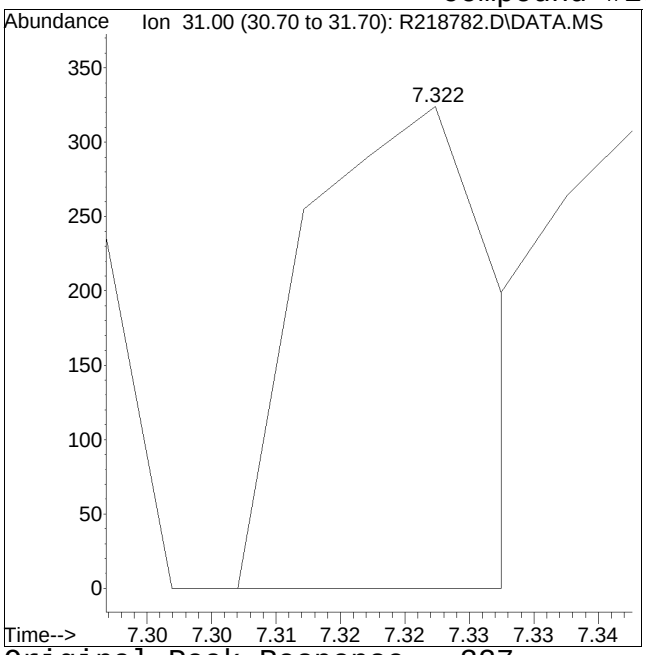
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

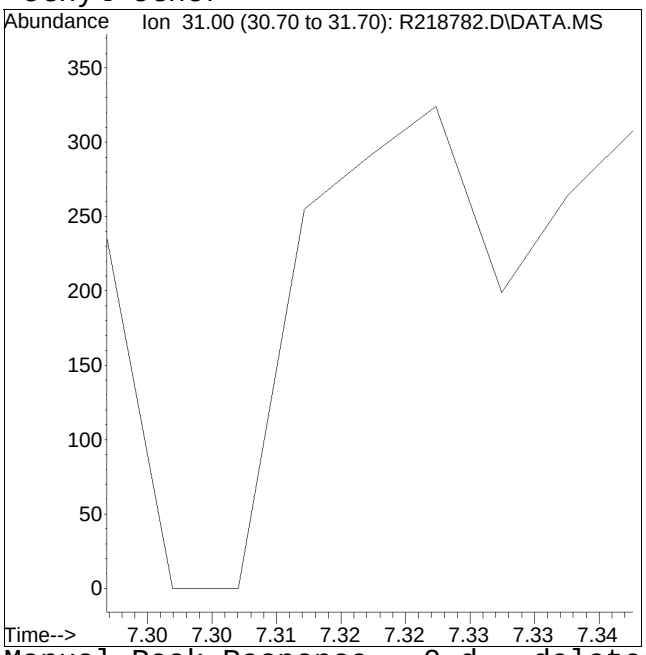
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #25: ethyl ether



Original Peak Response = 327



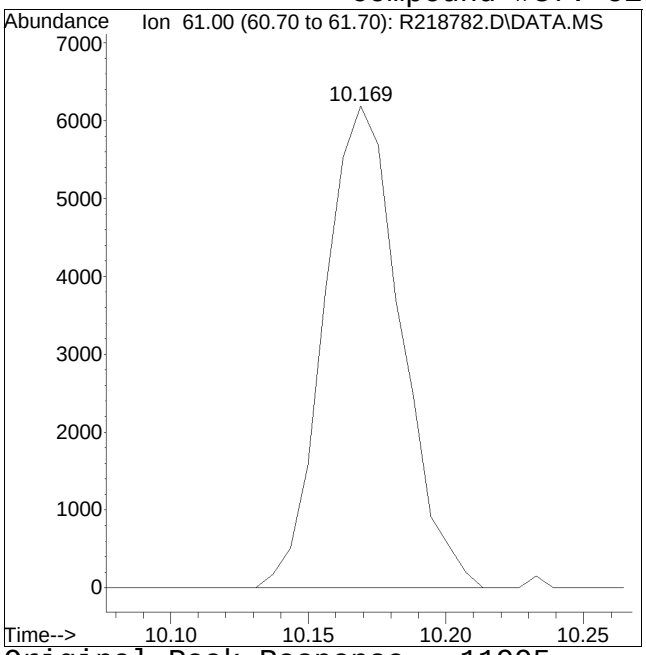
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

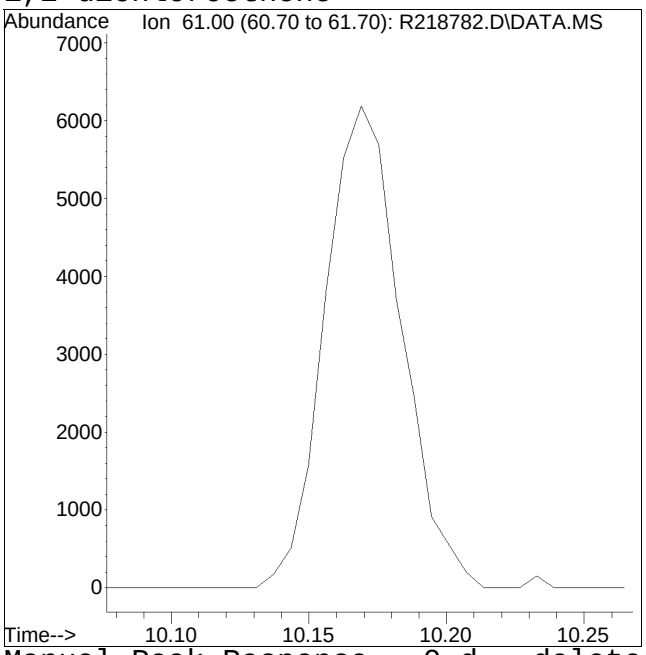
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #37: cis-1,2-dichloroethene



Original Peak Response = 11995



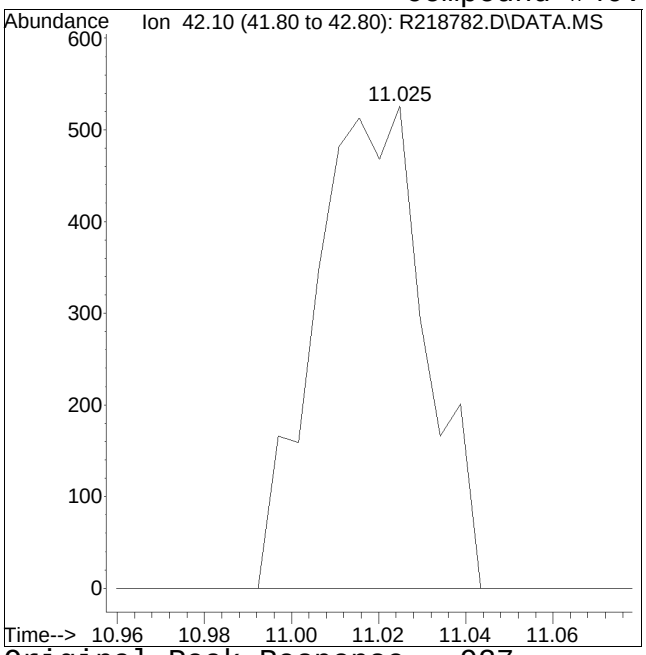
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

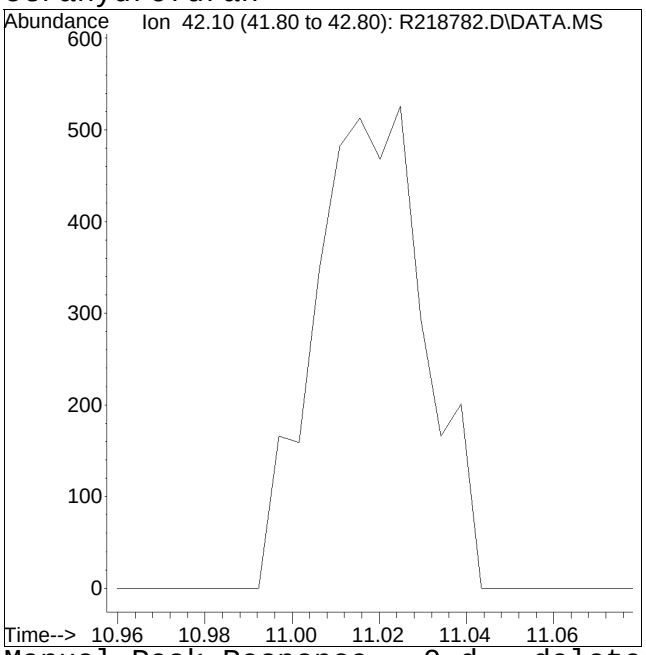
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #40: Tetrahydrofuran



Original Peak Response = 927



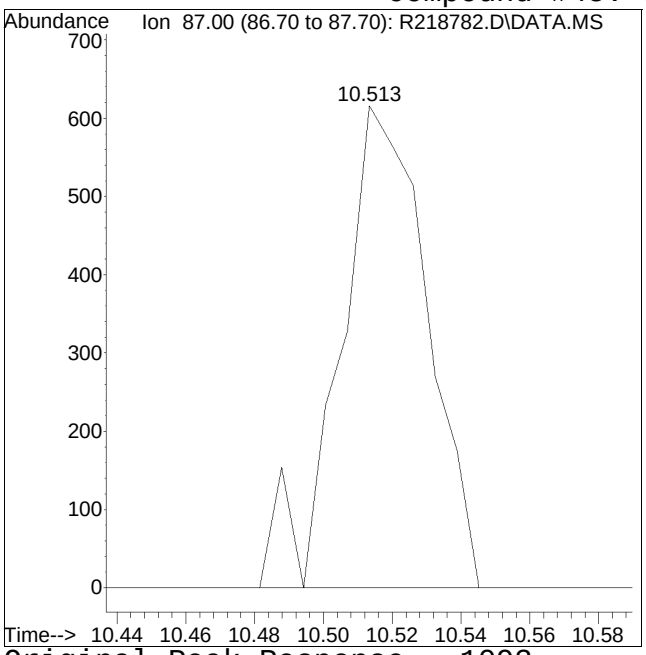
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

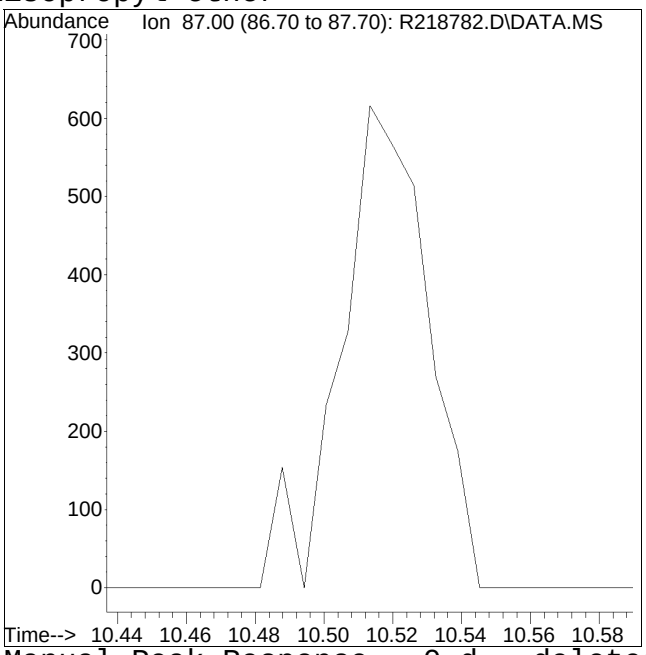
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #45: diisopropyl ether



Original Peak Response = 1093



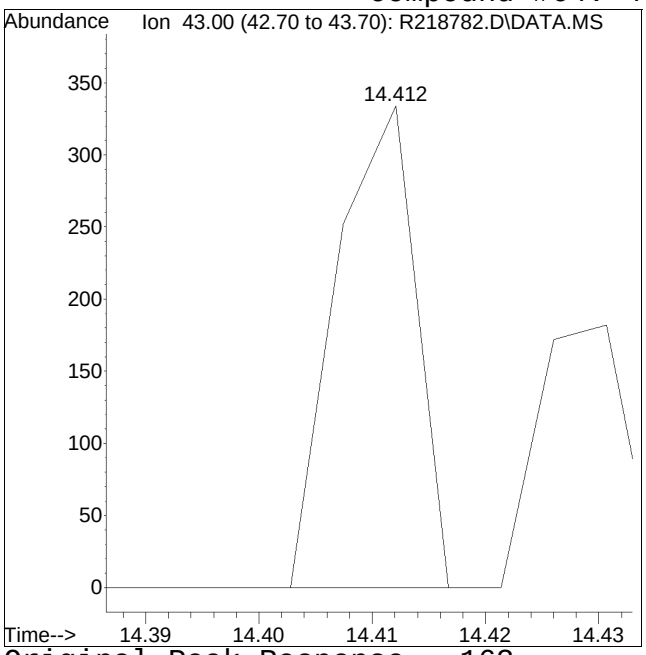
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

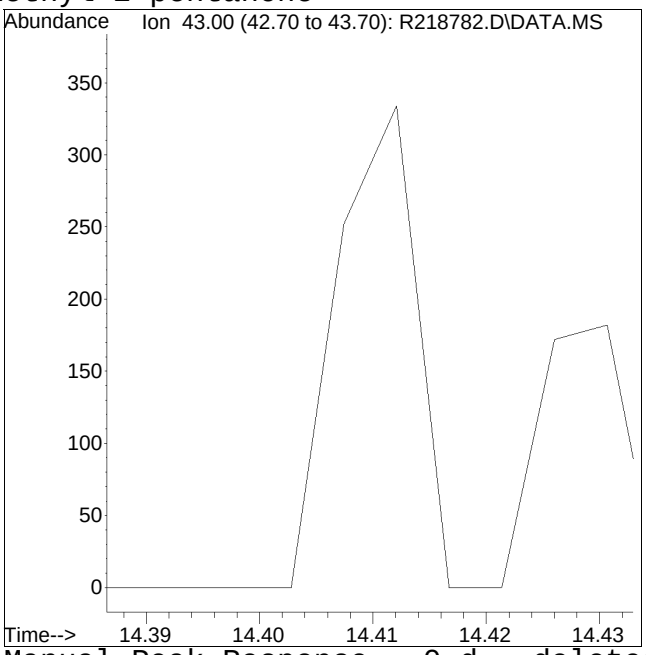
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 163



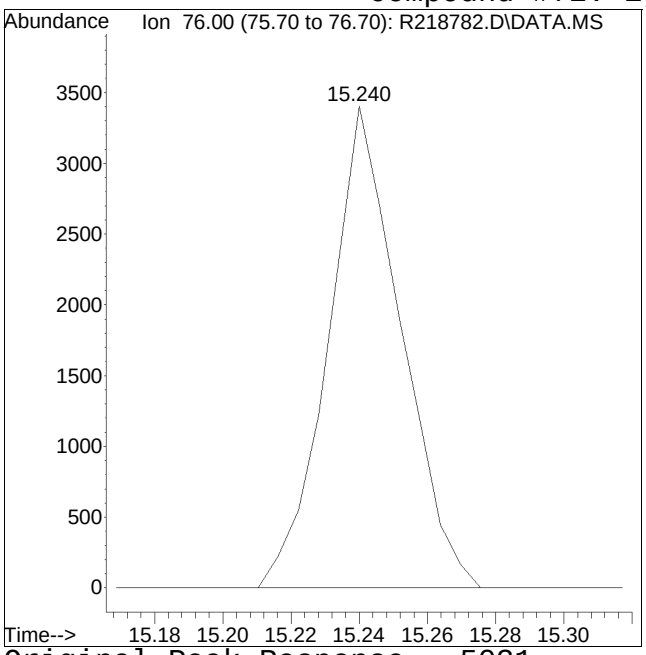
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

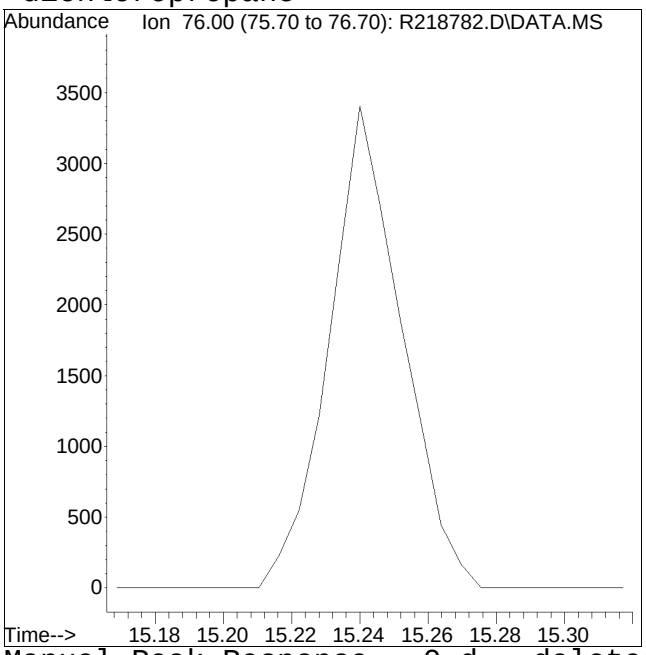
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 5031



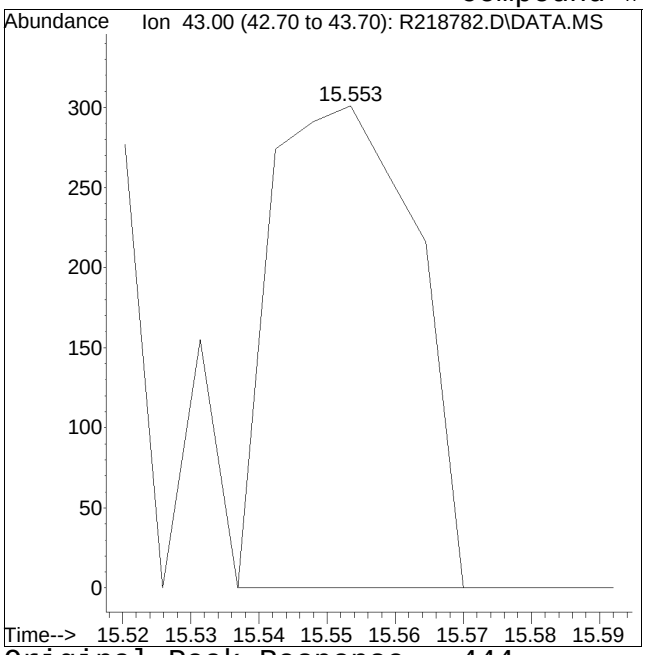
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

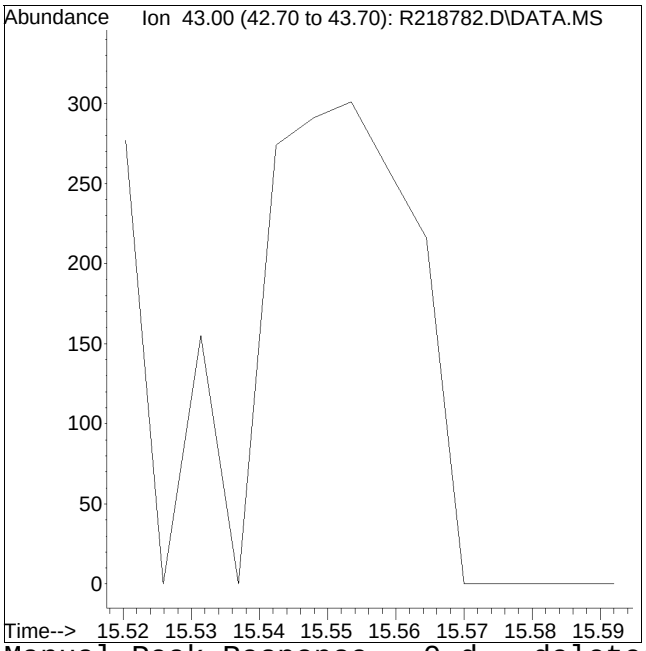
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #73: 2-hexanone



Original Peak Response = 444



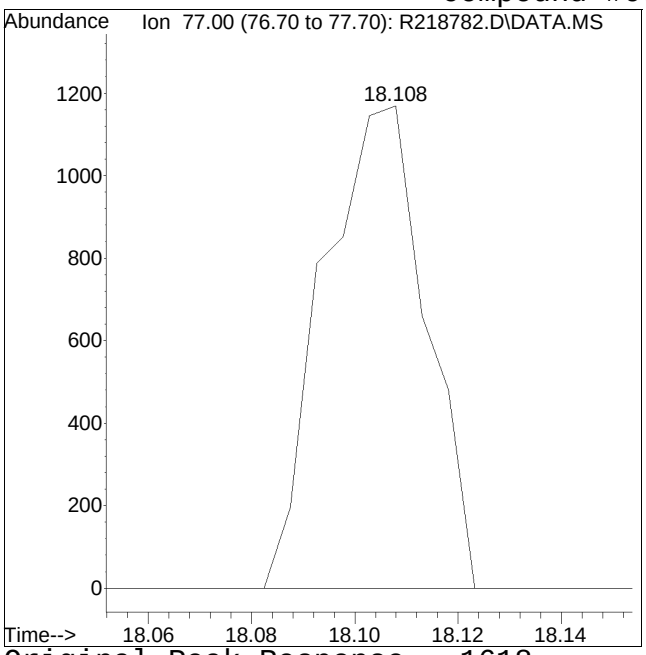
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

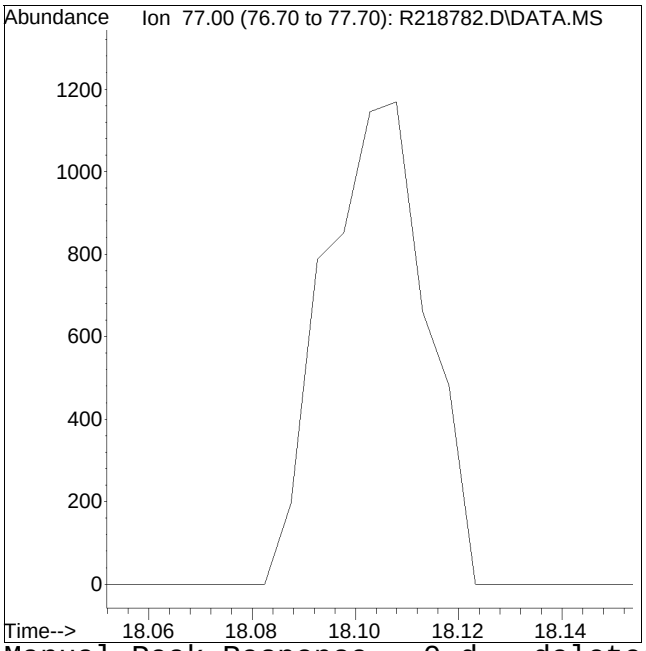
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #93: bromobenzene



Original Peak Response = 1618



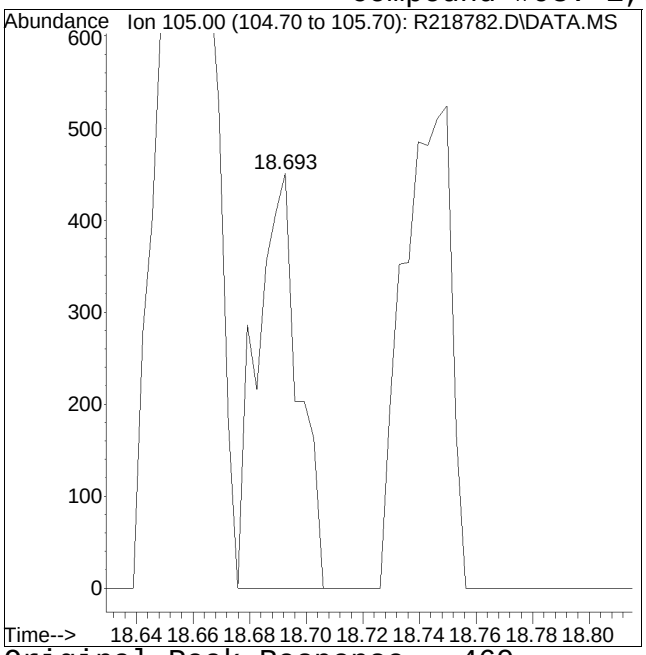
Manual Peak Response = 0 d - deleted

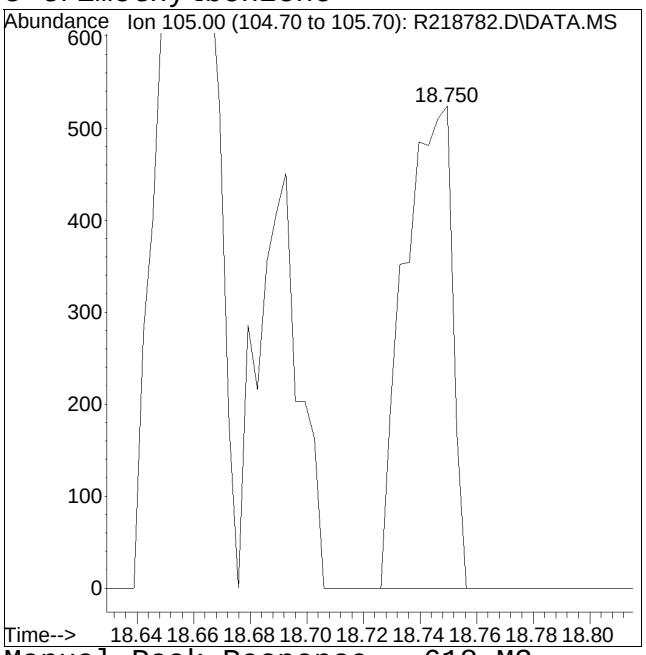
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #98: 1,3,5-trimethylbenzene





Original Peak Response = 460 Manual Peak Response = 618 M3

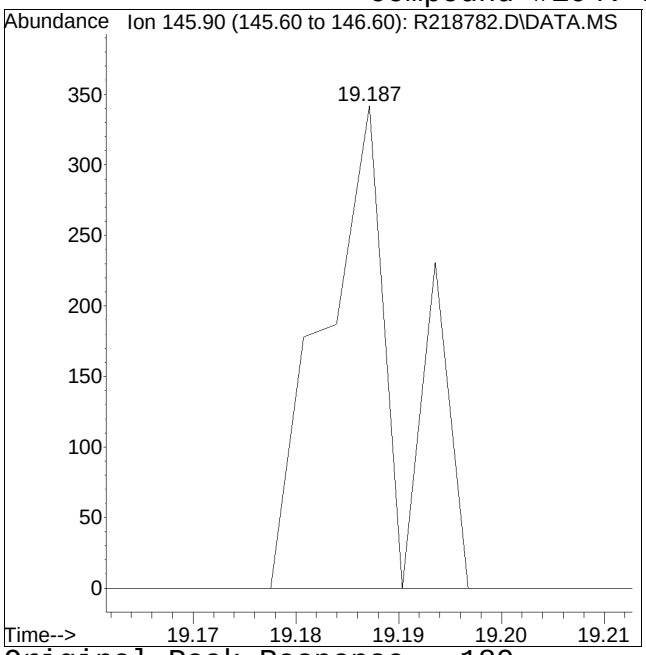
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

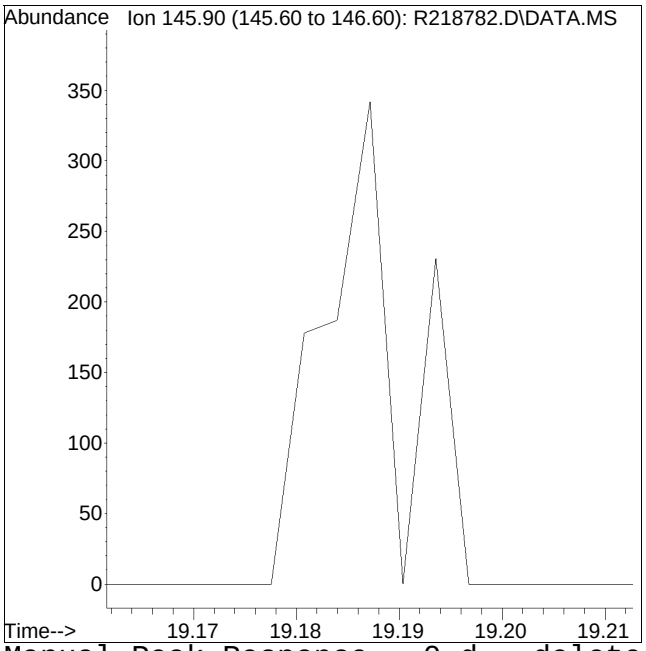
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #104: 1,4-dichlorobenzene



Original Peak Response = 180



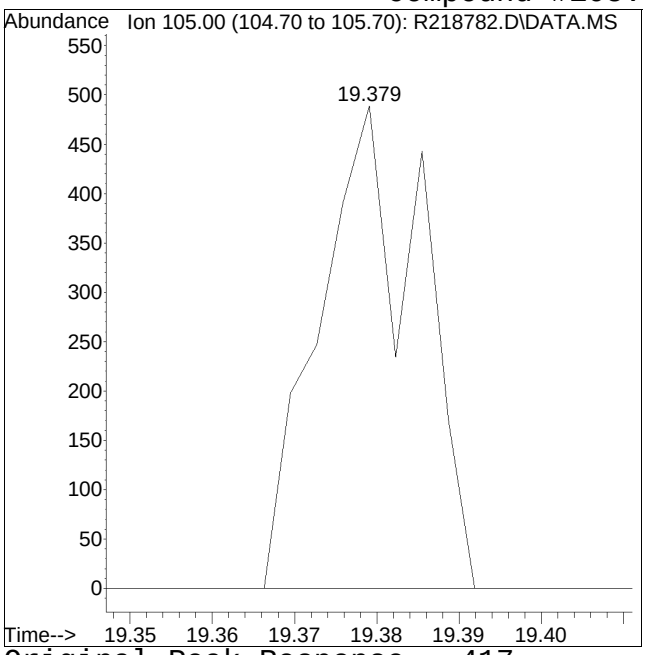
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

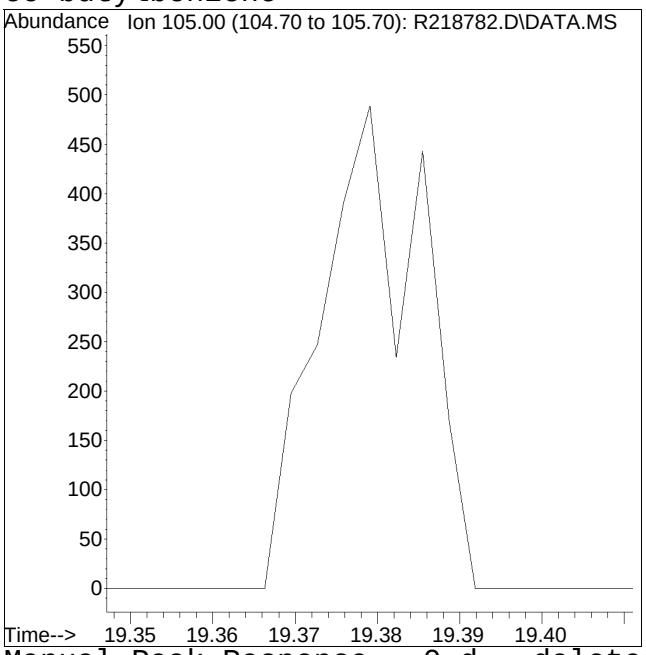
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218782.D
Date Inj'd : 1/6/2012 2:15
Sample : L1200006-03,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #105: sec-butylbenzene



Original Peak Response = 417



Manual Peak Response = 0 d - deleted

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218783.D
Acq On : 6 Jan 2012 2:51
Operator : AIRPIANO2:MB
Sample : L1200006-04,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 06 10:34:30 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	141326	10.000	ppbV	0.00
Standard Area = 151117			Recovery =		93.52%	
43) 1,4-difluorobenzene	12.549	114	423402	10.000	ppbV	0.00
Standard Area = 485506			Recovery =		87.21%	
68) chlorobenzene-D5	16.908	54	82493	10.000	ppbV	0.00
Standard Area = 90670			Recovery =		90.98%	

System Monitoring Compounds

Target Compounds						Qvalue
5) dichlorodifluoromethane	4.339	85	14129M2	0.405	ppbV	
6) chloromethane	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.	d	
14) chloroethane	0.000		0	N.D.	d	
19) acetone	6.602	43	40245	2.757	ppbV #	94
21) trichlorofluoromethane	6.799	101	12121	0.339	ppbV	98
25) ethyl ether	0.000		0	N.D.	d	
26) 1,1-dichloroethene	0.000		0	N.D.	d	
28) methylene chloride	7.791	49	5829M4	0.394	ppbV	
30) carbon disulfide	8.118	76	2321M4	0.067	ppbV	
32) trans-1,2-dichloroethene	0.000		0	N.D.	d	
33) 1,1-dichloroethane	0.000		0	N.D.	d	
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.694	43	13971	0.769	ppbV #	99
37) cis-1,2-dichloroethene	0.000		0	N.D.	d	
40) Tetrahydrofuran	11.001	42	7956	0.875	ppbV #	86
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.	d	
45) diisopropyl ether	0.000		0	N.D.	d	
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	11.642		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.331	117	1436	0.055	ppbV	89
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	13.043	93	77	0.005	ppbV #	49
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	13.296		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218783.D
Acq On : 6 Jan 2012 2:51
Operator : AIRPIANO2:MB
Sample : L1200006-04,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 06 10:34:30 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

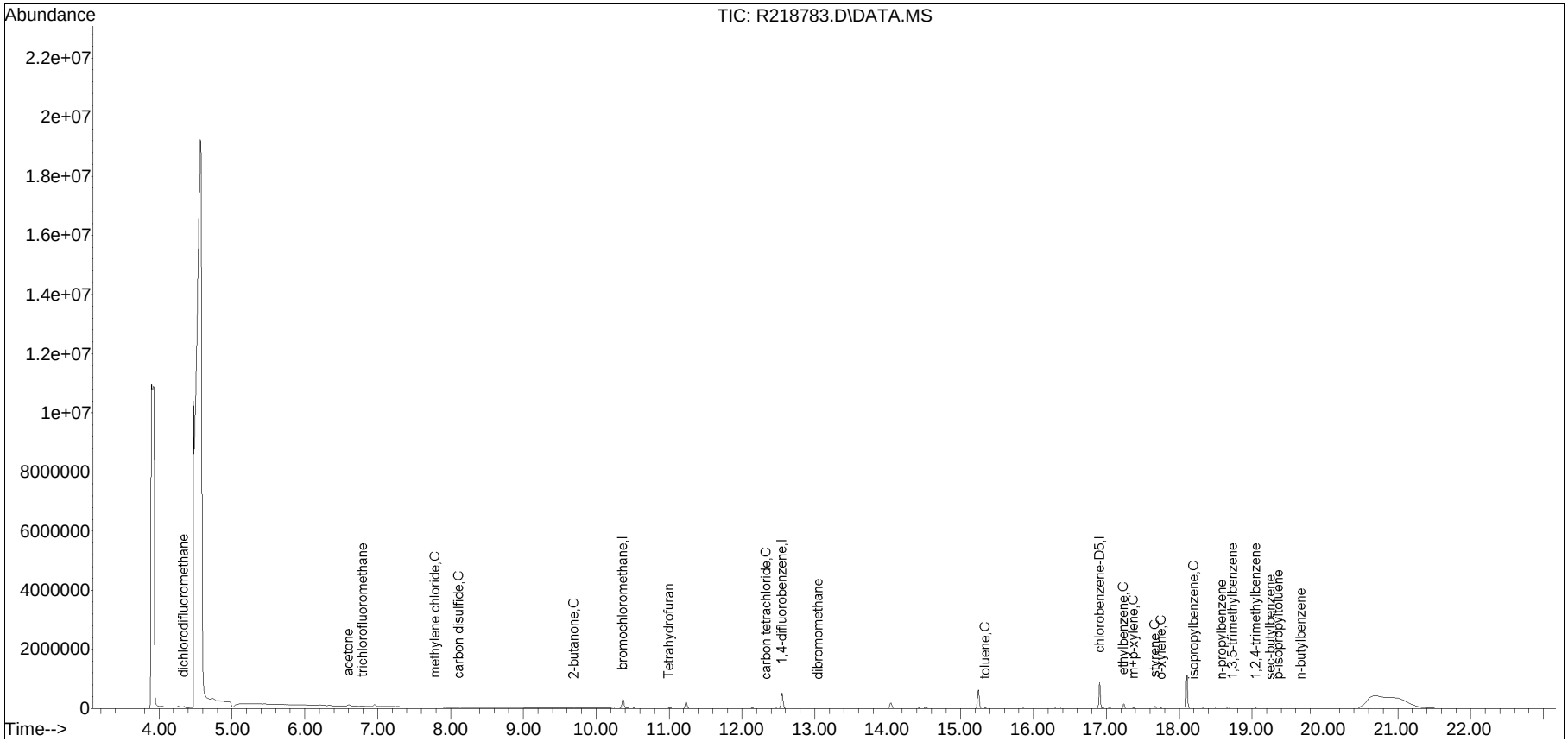
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 4-methyl-2-pentanone	14.426		0	N.D.		
66) trans-1,3-dichloropropene	0.000		0	N.D.		
67) 1,1,2-trichloroethane	0.000		0	N.D.		
69) toluene	15.341	91	16582	0.497	ppbV	95
72) 1,3-dichloropropane	0.000		0	N.D.	d	
73) 2-hexanone	0.000		0	N.D.	d	
75) dibromochloromethane	0.000		0	N.D.		
76) 1,2-dibromoethane	0.000		0	N.D.		
80) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81) chlorobenzene	0.000		0	N.D.	d	
82) ethylbenzene	17.238	91	97407	2.609	ppbV	98
84) m+p-xylene	17.370	91	13757	0.468	ppbV	97
85) bromoform	0.000		0	N.D.		
86) styrene	17.670	104	26589	1.236	ppbV	98
87) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d	
88) o-xylene	17.756	91	5827	0.185	ppbV	100
89) 1,2,3-trichloropropane	0.000		0	N.D.	d	
92) isopropylbenzene	18.200	105	3334	0.078	ppbV	94
93) bromobenzene	0.000		0	N.D.	d	
94) 2-chlorotoluene	0.000		0	N.D.	d	
95) n-propylbenzene	18.582	120	793	0.068	ppbV #	24
96) 4-chlorotoluene	0.000		0	N.D.	d	
98) 1,3,5-trimethylbenzene	18.736	105	2121	0.065	ppbV #	92
99) tert-butylbenzene	0.000		0	N.D.	d	
100) 1,2,4-trimethylbenzene	19.053	105	4515	0.145	ppbV #	57
103) 1,3-dichlorobenzene	0.000		0	N.D.		
104) 1,4-dichlorobenzene	0.000		0	N.D.		
105) sec-butylbenzene	19.251	105	159	0.003	ppbV #	58
107) p-isopropyltoluene	19.363	119	388	0.009	ppbV #	49
108) 1,2-dichlorobenzene	0.000		0	N.D.		
109) n-butylbenzene	19.670	91	110	0.003	ppbV #	49
112) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116) 1,2,4-trichlorobenzene	0.000		0	N.D.		
117) naphthalene	21.080		0	N.D.		
118) 1,2,3-trichlorobenzene	0.000		0	N.D.		
120) hexachlorobutadiene	0.000		0	N.D.		

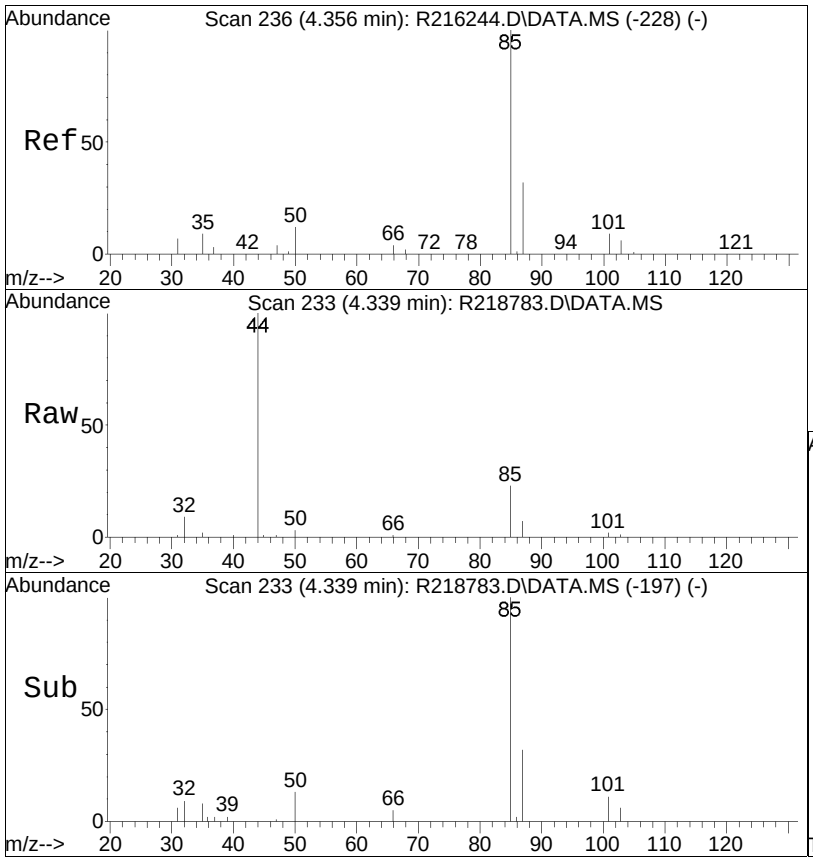
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218783.D
Acq On : 6 Jan 2012 2:51
Operator : AIRPIANO2:MB
Sample : L1200006-04,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 06 10:34:30 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

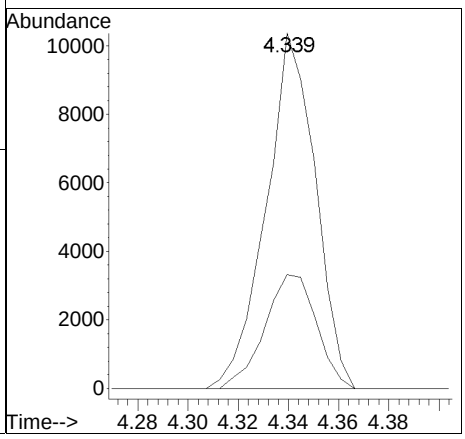


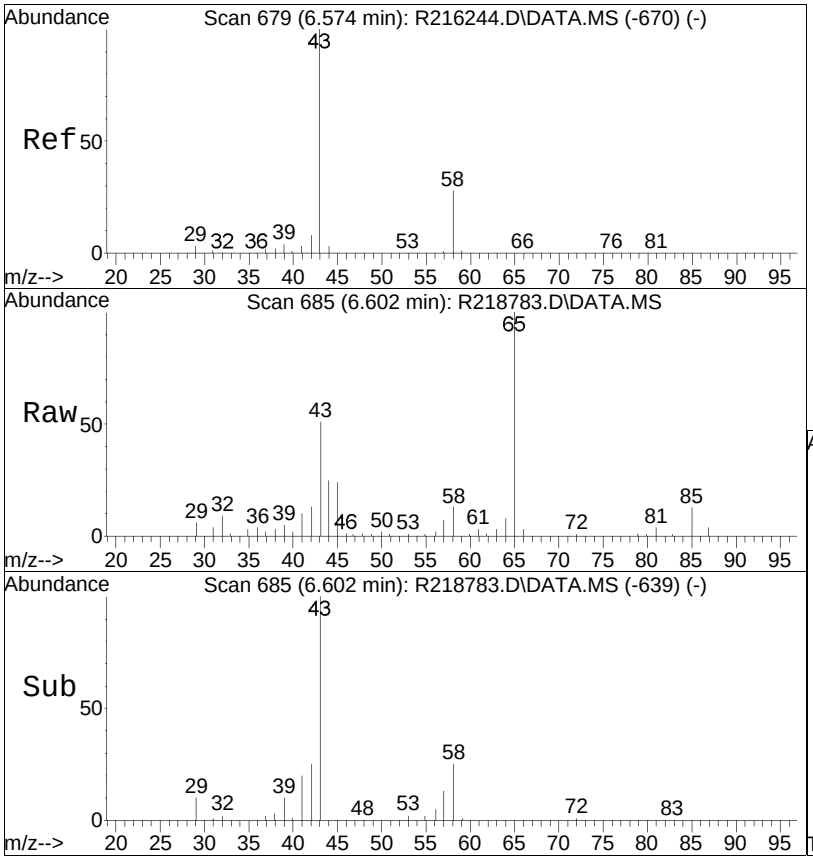


#5
dichlorodifluoromethane
Concen: 0.41 ppbV m
RT: 4.339 min Scan# 233
Delta R.T. -0.005 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 85 Resp: 14129

Ion	Ratio	Lower	Upper
85	100		
87	32.0	26.4	39.6

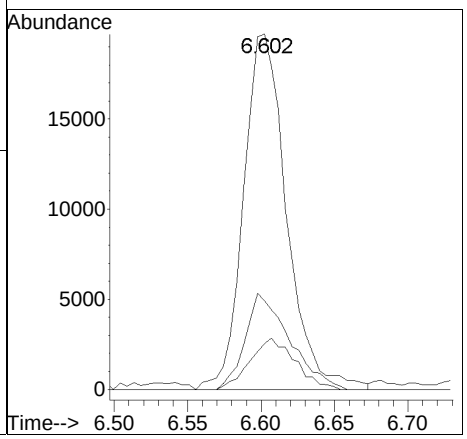


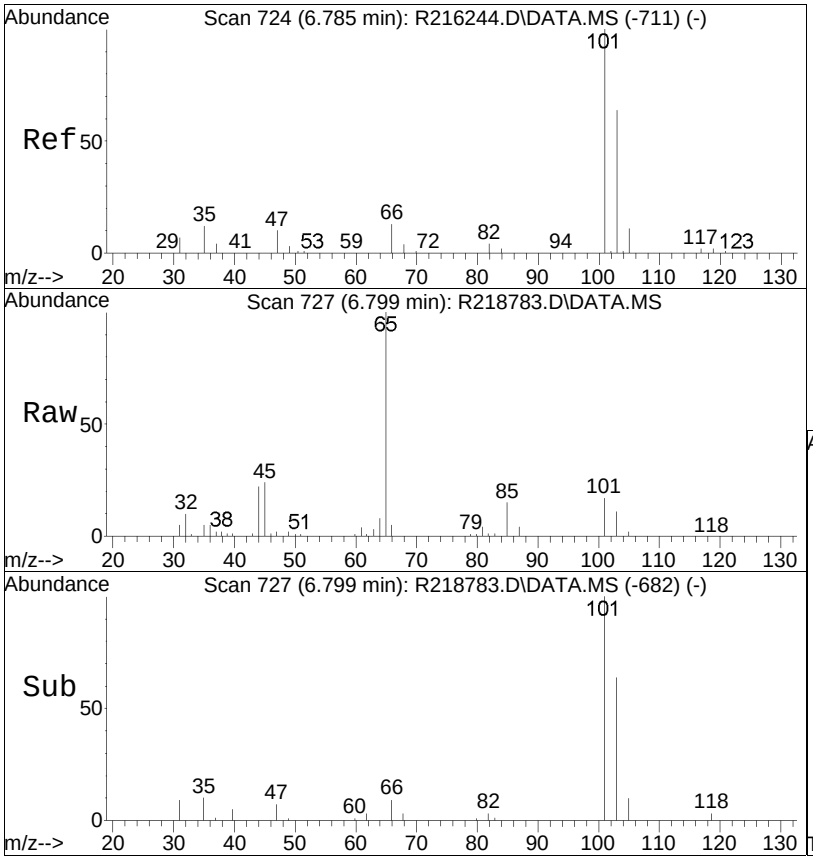


#19
acetone
Concen: 2.76 ppbV
RT: 6.602 min Scan# 685
Delta R.T. 0.028 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 43 Resp: 40245

Ion	Ratio	Lower	Upper
43	100		
58	24.9	22.2	33.2
57	12.9	0.9	1.3#

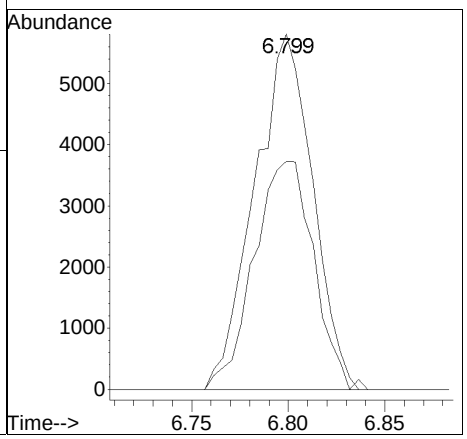


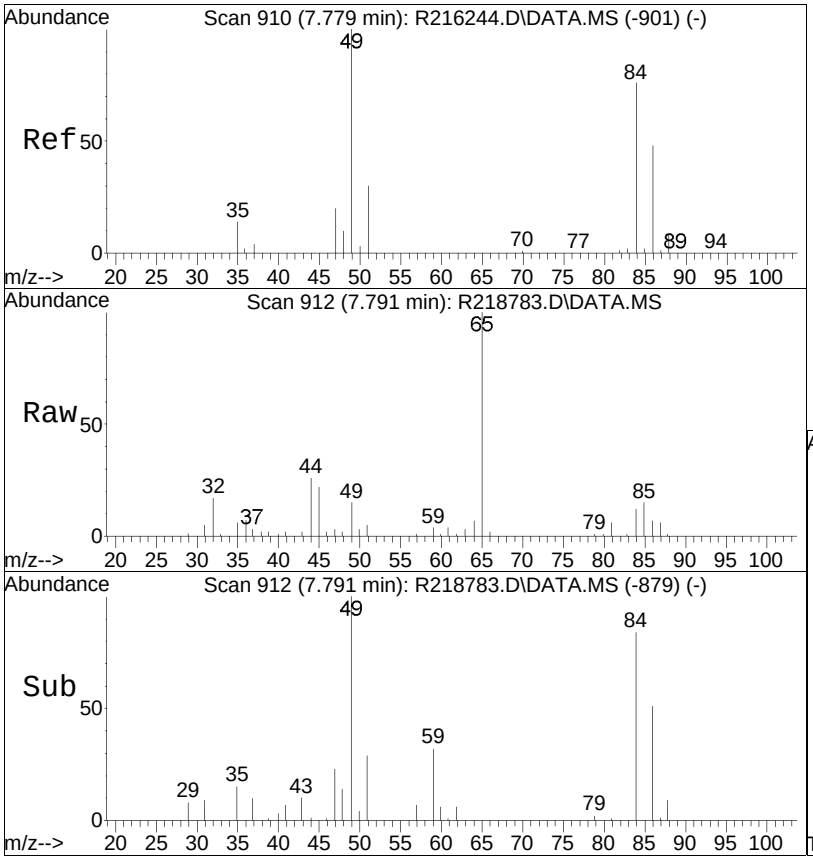


#21
trichlorofluoromethane
Concen: 0.34 ppbV
RT: 6.799 min Scan# 727
Delta R.T. 0.009 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion:101 Resp: 12121

Ion	Ratio	Lower	Upper
101	100		
103	64.2	50.2	75.2

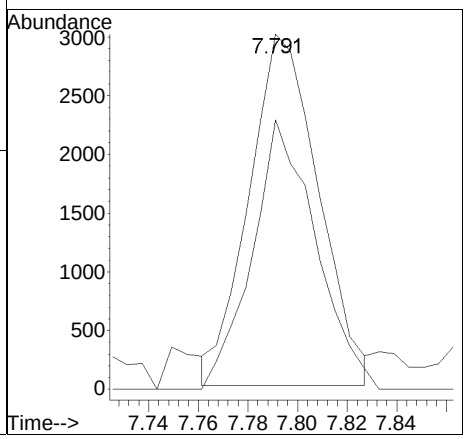


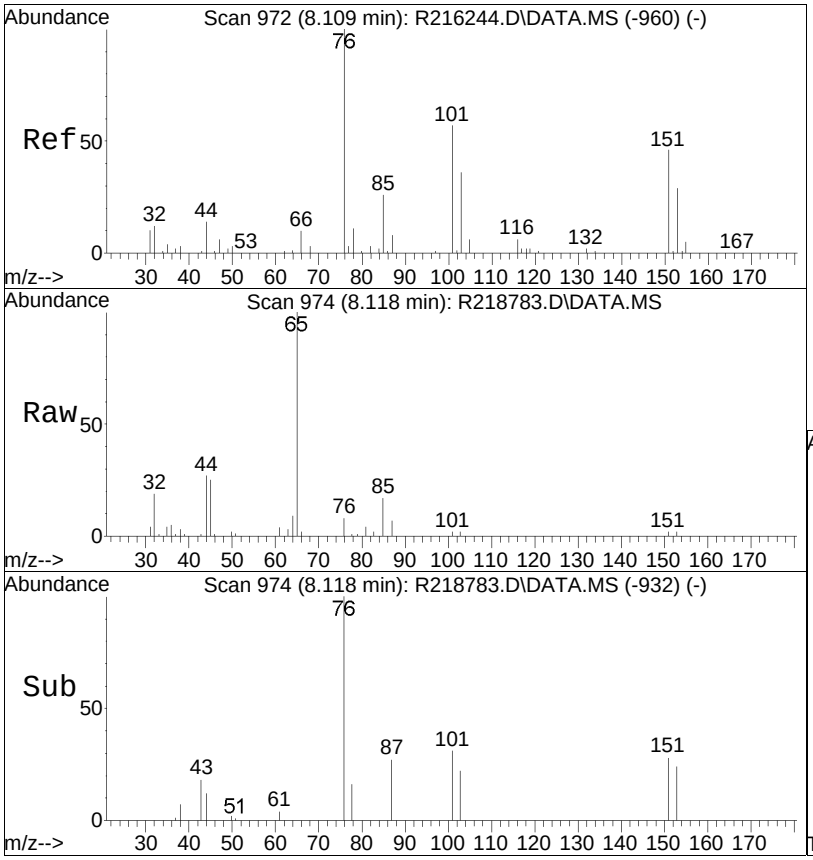


#28
methylene chloride
Concen: 0.39 ppbV m
RT: 7.791 min Scan# 912
Delta R.T. 0.000 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 49 Resp: 5829

Ion	Ratio	Lower	Upper
49	100		
84	75.9	56.6	84.8

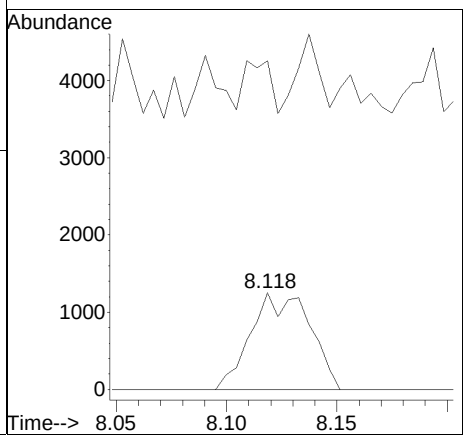


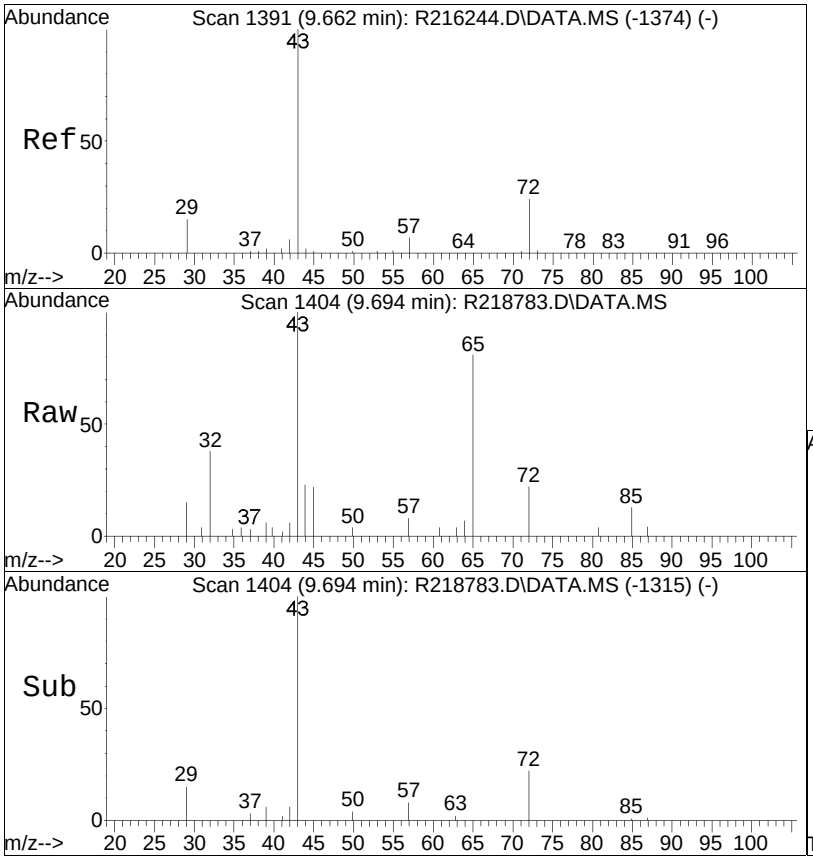


#30
carbon disulfide
Concen: 0.07 ppbV m
RT: 8.118 min Scan# 974
Delta R.T. 0.000 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 76 Resp: 2321

Ion	Ratio	Lower	Upper
76	100		
44	340.1	12.2	18.4#

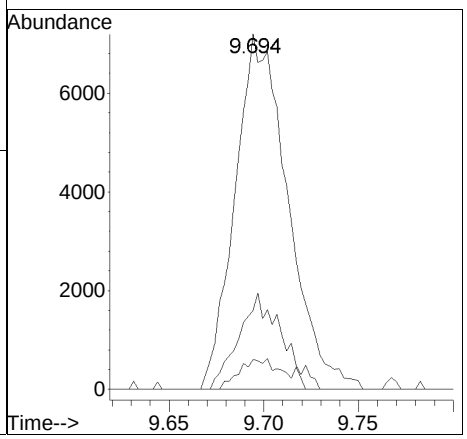


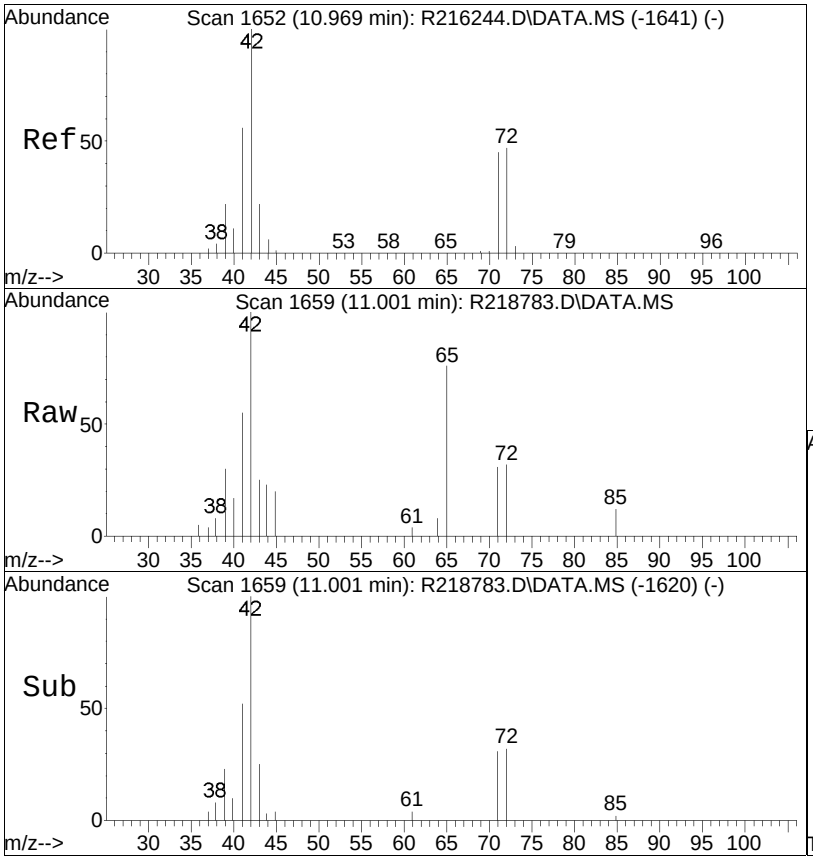


#36
2-butanone
Concen: 0.77 ppbV
RT: 9.694 min Scan# 1404
Delta R.T. 0.025 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 43 Resp: 13971

Ion	Ratio	Lower	Upper
43	100		
72	22.2	17.6	26.4
57	8.4	5.6	8.4#

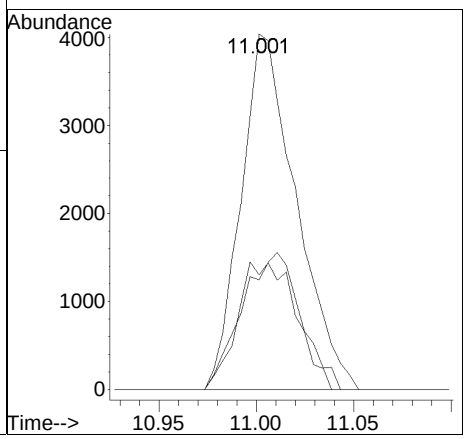


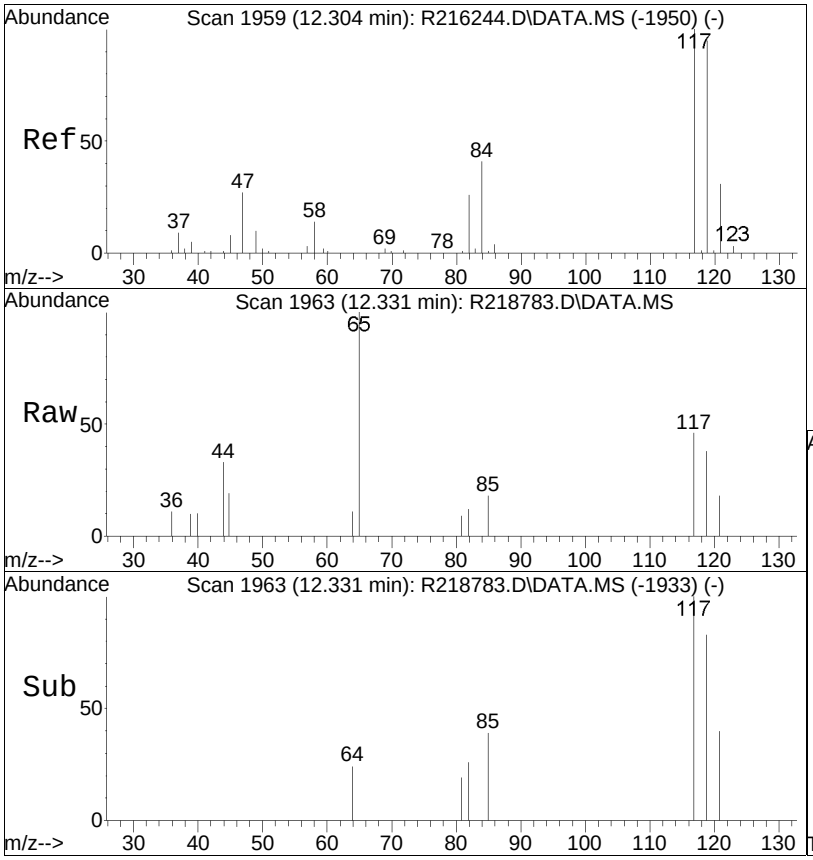


#40
Tetrahydrofuran
Concen: 0.88 ppbV
RT: 11.001 min Scan# 1659
Delta R.T. 0.028 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 42 Resp: 7956

Ion	Ratio	Lower	Upper
42	100		
71	30.9	31.9	47.9#
72	32.2	32.6	48.8#

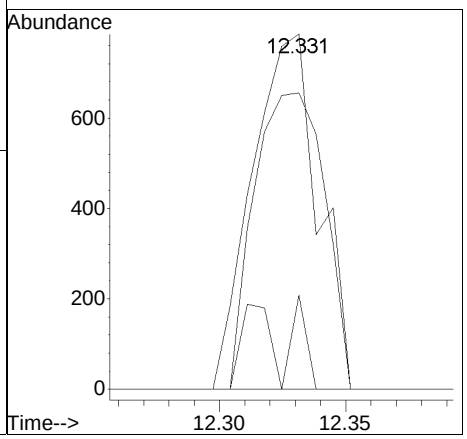


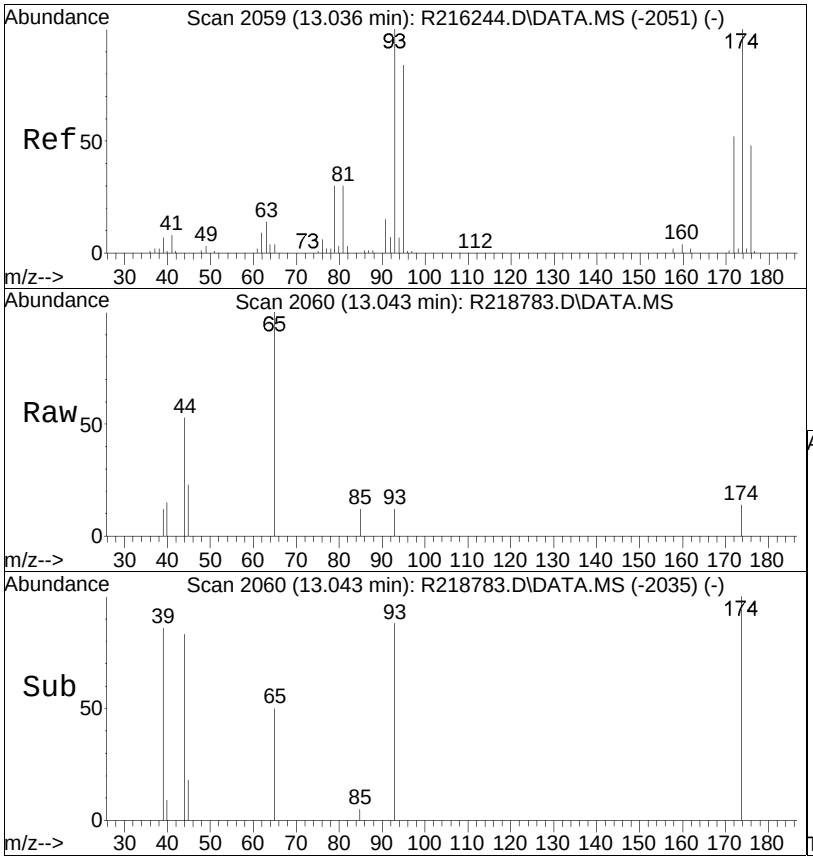


#52
carbon tetrachloride
Concen: 0.06 ppbV
RT: 12.331 min Scan# 1963
Delta R.T. 0.007 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion:117 Resp: 1436

Ion	Ratio	Lower	Upper
117	100		
119	83.5	76.8	115.2
82	26.5	19.4	29.0

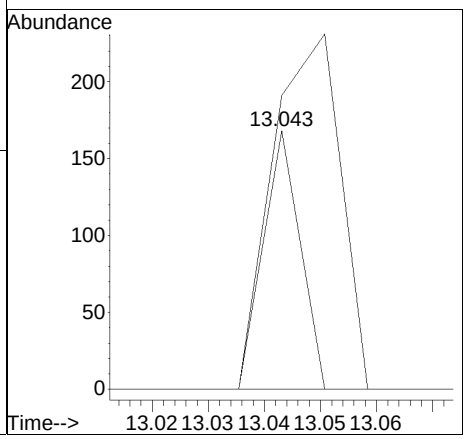


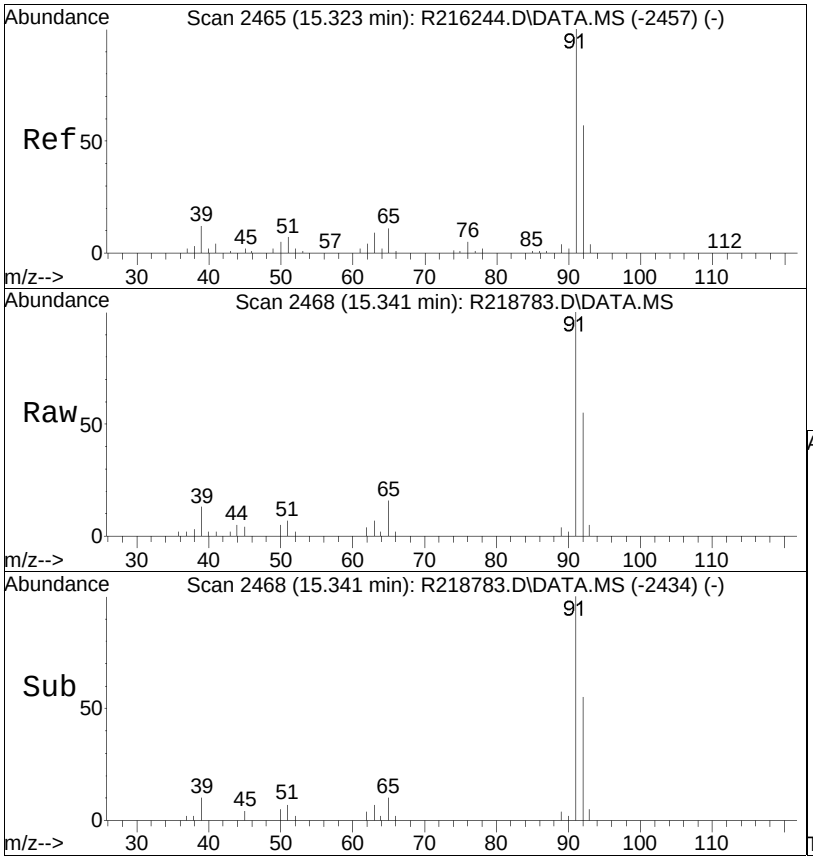


#55
dibromomethane
Concen: 0.01 ppbV
RT: 13.043 min Scan# 2060
Delta R.T. -0.008 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 93 Resp: 77

Ion	Ratio	Lower	Upper
93	100		
174	113.7	79.0	118.4
95	0.0	68.4	102.6#

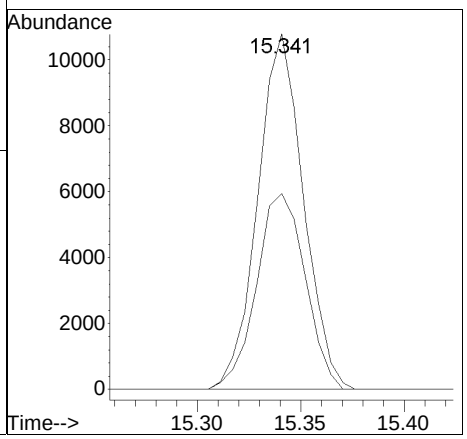


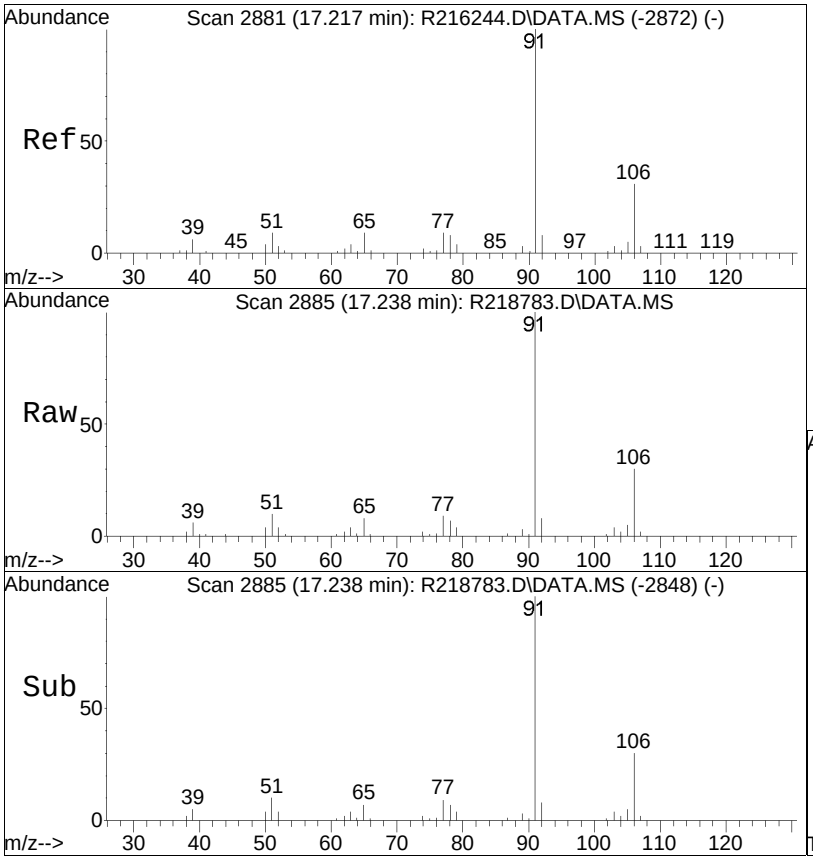


#69
toluene
Concen: 0.50 ppbV
RT: 15.341 min Scan# 2468
Delta R.T. 0.000 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 91 Resp: 16582

Ion	Ratio	Lower	Upper
91	100		
92	55.1	47.0	70.4

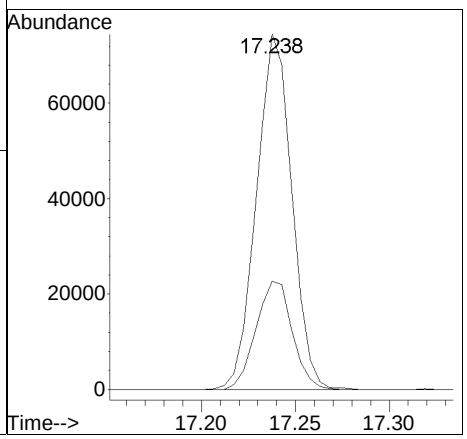


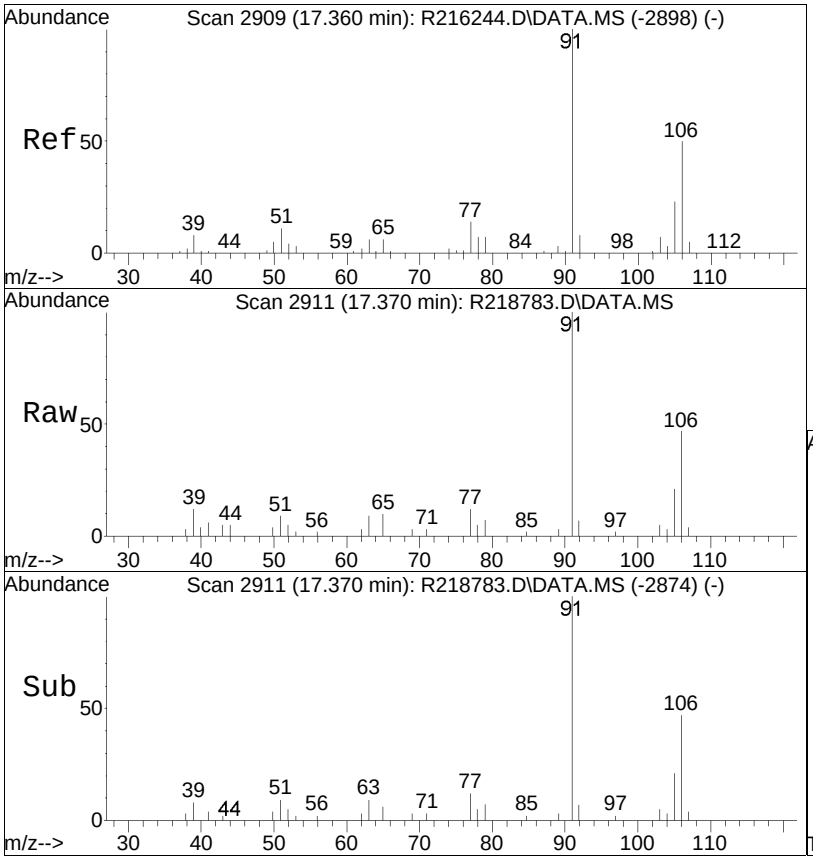


#82
ethylbenzene
Concen: 2.61 ppbV
RT: 17.238 min Scan# 2885
Delta R.T. 0.000 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 91 Resp: 97407

Ion	Ratio	Lower	Upper
91	100		
106	30.4	25.1	37.7

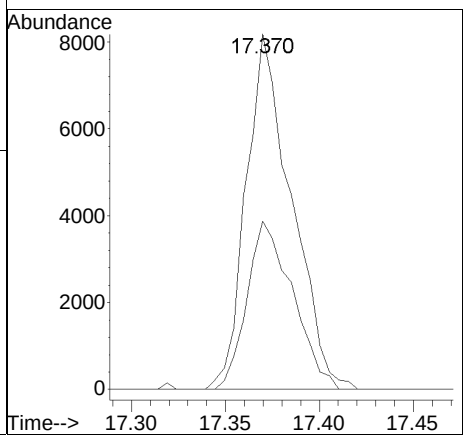


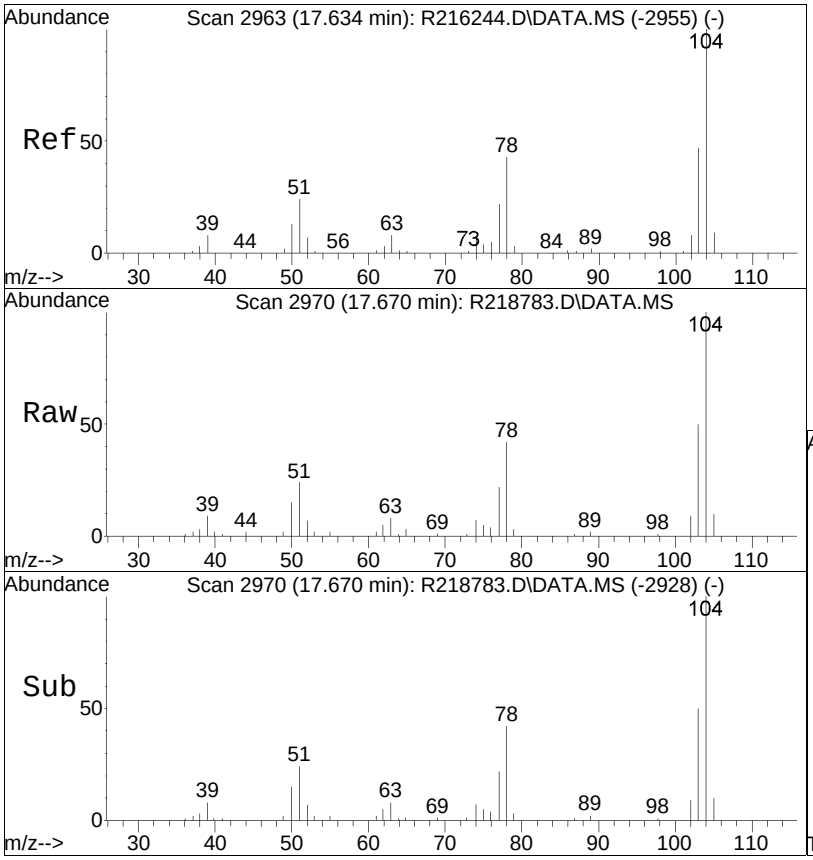


#84
m+p-xylene
Concen: 0.47 ppbV
RT: 17.370 min Scan# 2911
Delta R.T. -0.010 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 91 Resp: 13757

Ion	Ratio	Lower	Upper
91	100		
106	47.4	39.5	59.3

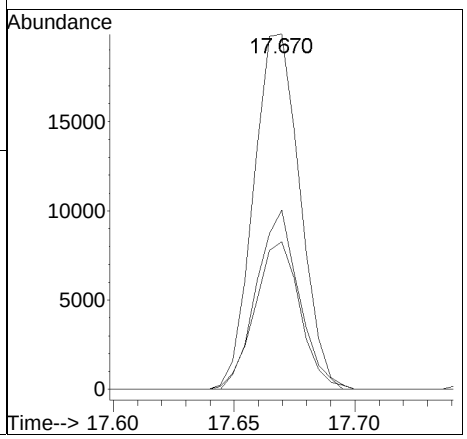


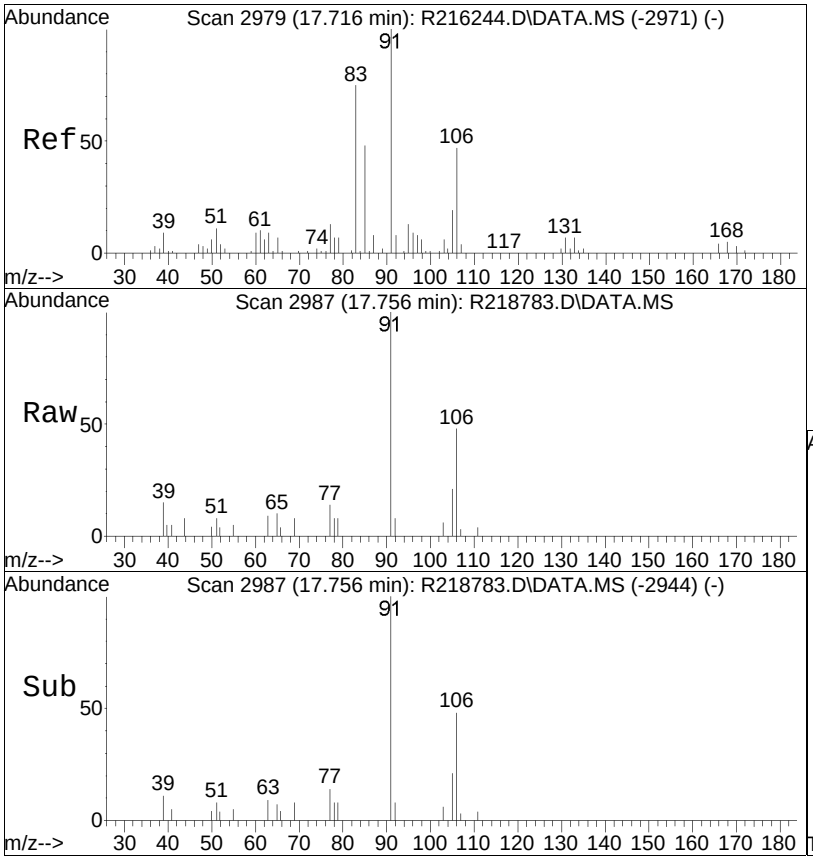


#86
styrene
Concen: 1.24 ppbV
RT: 17.670 min Scan# 2970
Delta R.T. 0.015 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion:104 Resp: 26589

Ion	Ratio	Lower	Upper
104	100		
103	50.4	38.9	58.3
78	41.6	33.4	50.2

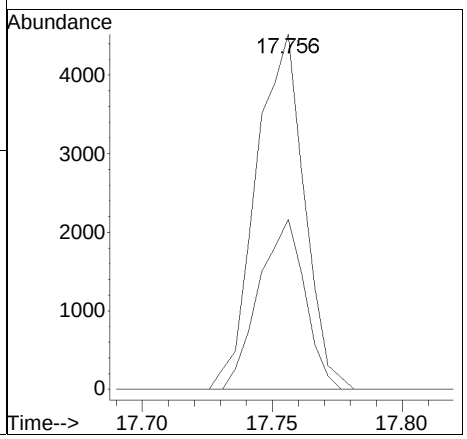


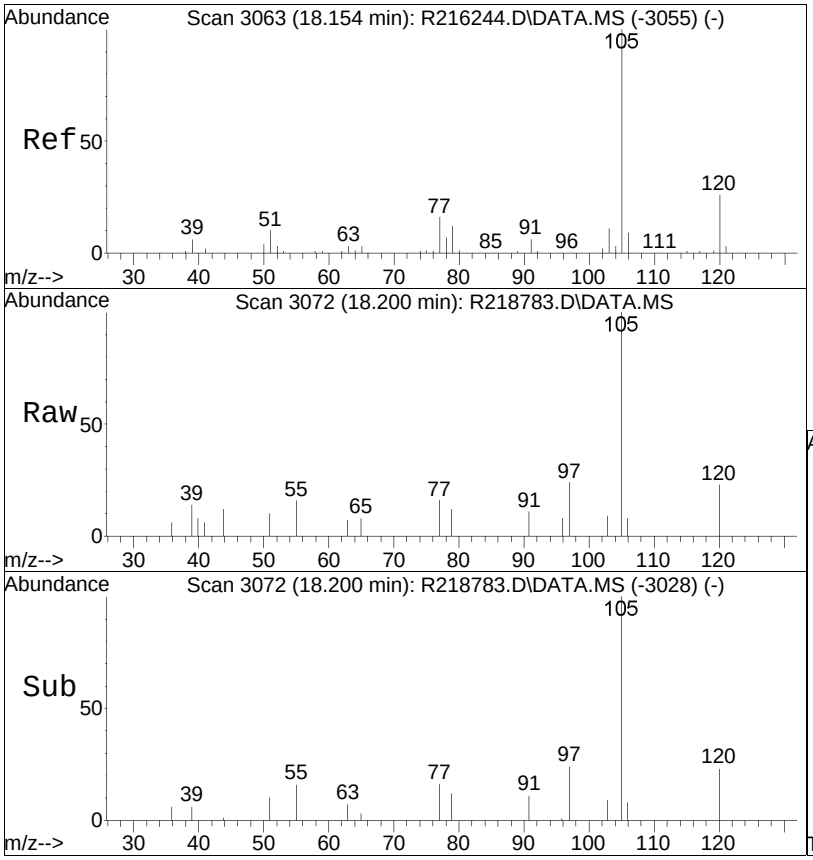


#88
o-xylene
Concen: 0.19 ppbV
RT: 17.756 min Scan# 2987
Delta R.T. 0.020 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 91 Resp: 5827

Ion	Ratio	Lower	Upper
91	100		
106	47.9	38.1	57.1

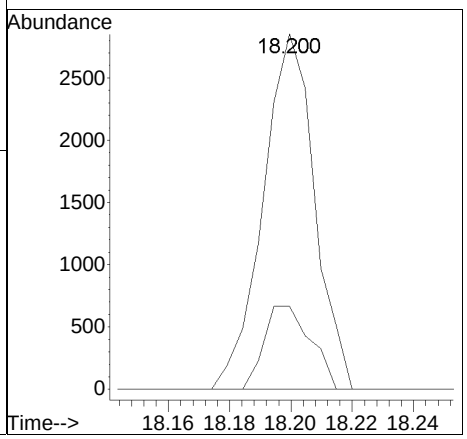


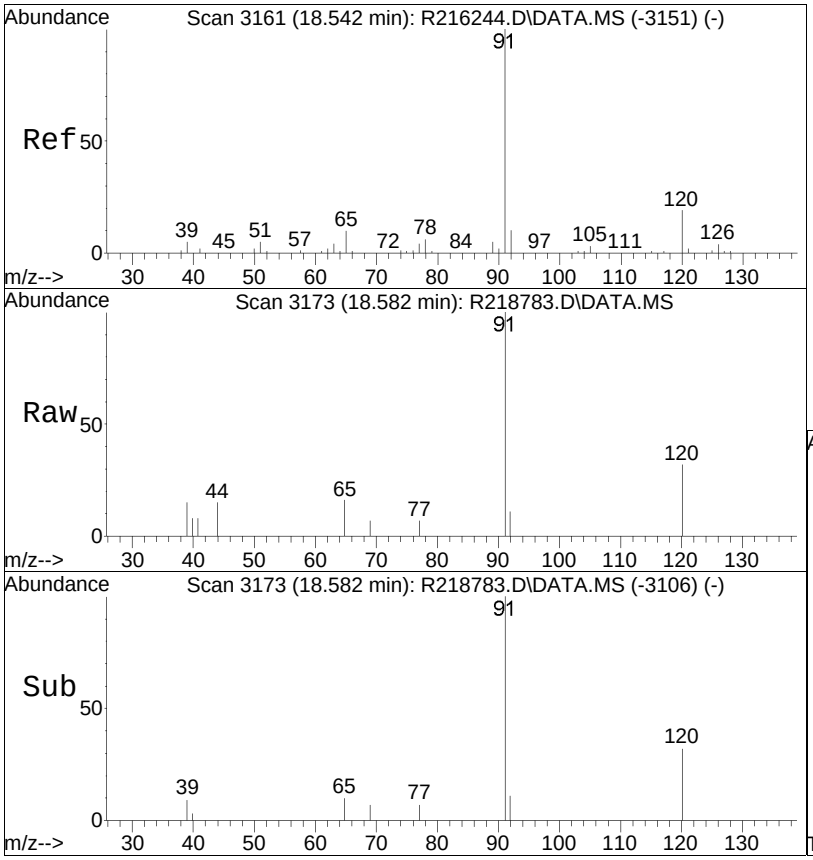


#92
isopropylbenzene
Concen: 0.08 ppbV
RT: 18.200 min Scan# 3072
Delta R.T. 0.025 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion:105 Resp: 3334

Ion	Ratio	Lower	Upper
105	100		
120	23.4	21.2	31.8

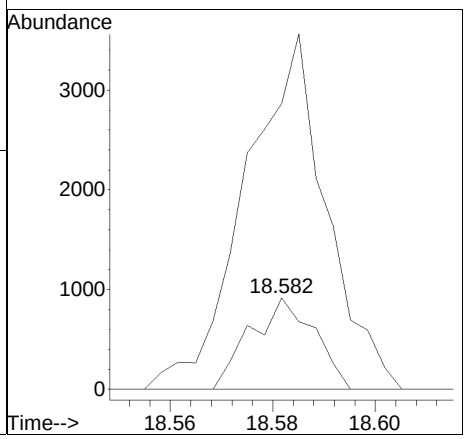


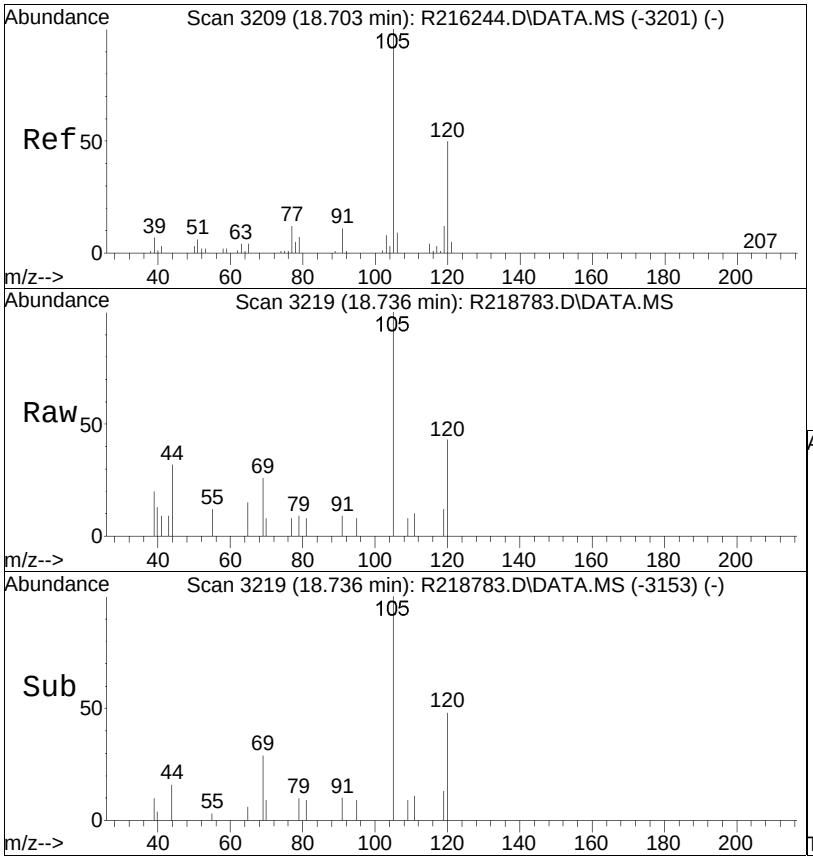


#95
n-propylbenzene
Concen: 0.07 ppbV
RT: 18.582 min Scan# 3173
Delta R.T. 0.023 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion:120 Resp: 793

Ion	Ratio	Lower	Upper
120	100		
91	312.9	424.8	637.2#

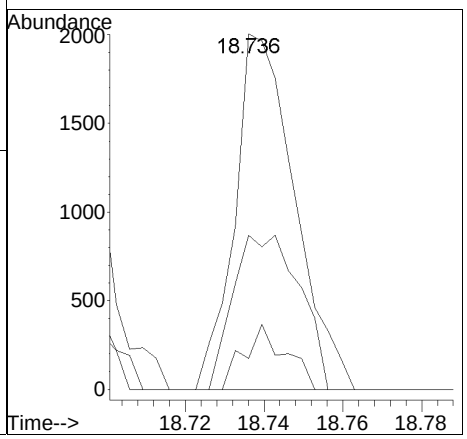


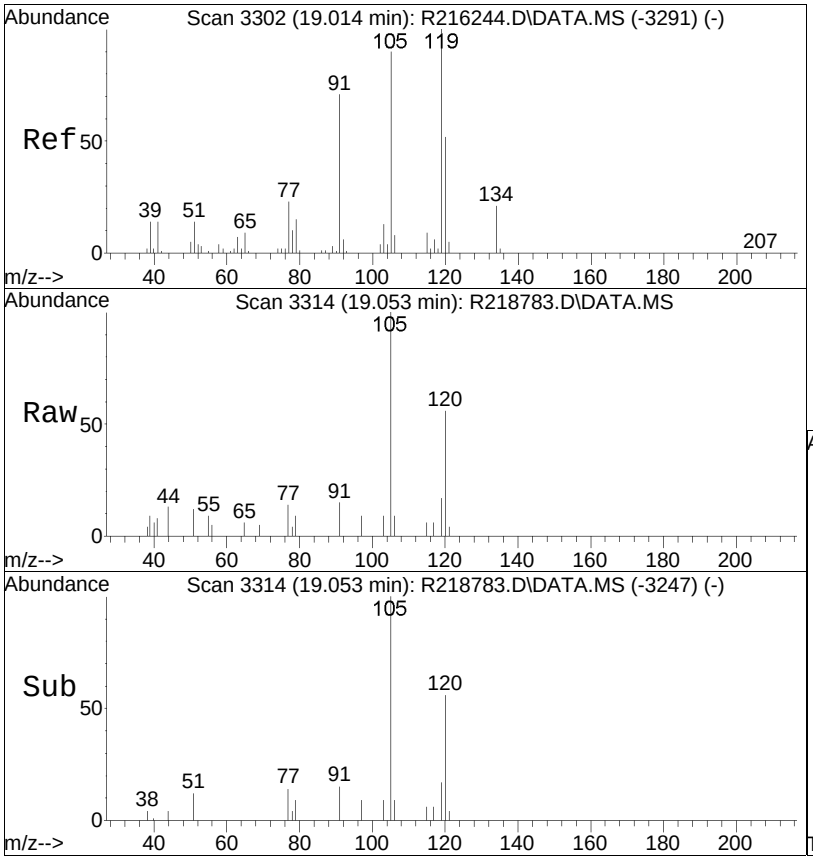


#98
1,3,5-trimethylbenzene
Concen: 0.07 ppbV
RT: 18.736 min Scan# 3219
Delta R.T. 0.020 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion:105 Resp: 2121

Ion	Ratio	Lower	Upper
105	100		
120	43.4	39.4	59.0
91	8.7	8.8	13.2#

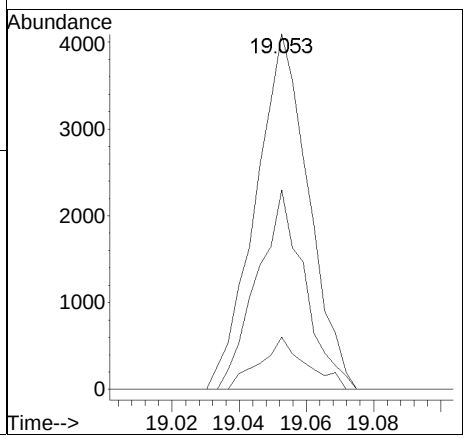


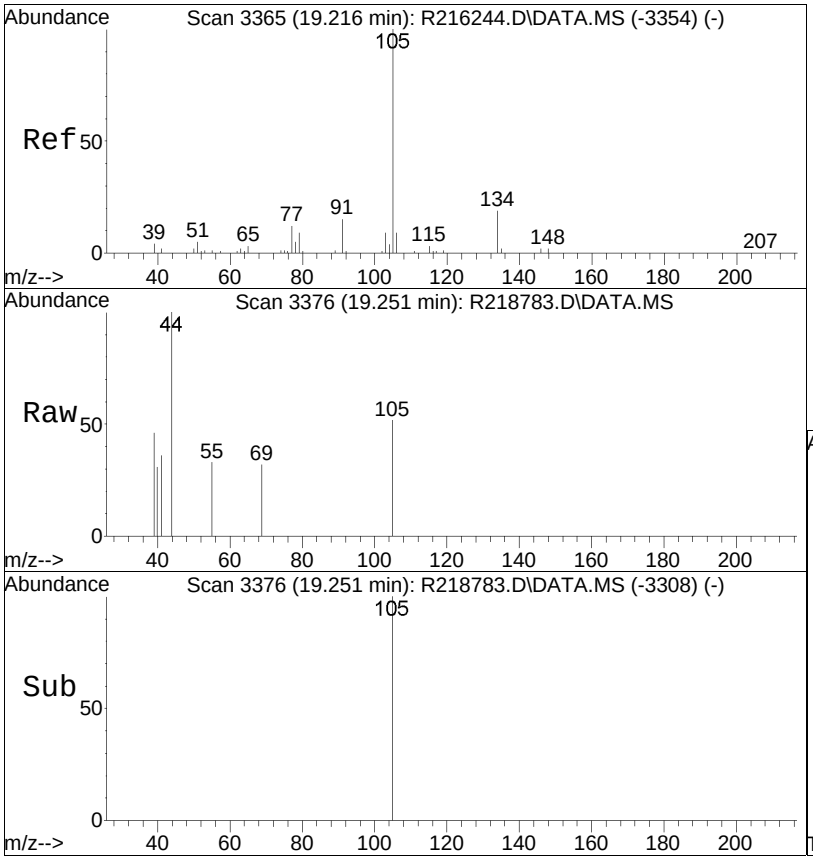


#100
1,2,4-trimethylbenzene
Concen: 0.15 ppbV
RT: 19.053 min Scan# 3314
Delta R.T. 0.022 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion:105 Resp: 4515

Ion	Ratio	Lower	Upper
105	100		
120	56.1	44.1	66.1
91	14.7	61.6	92.4#

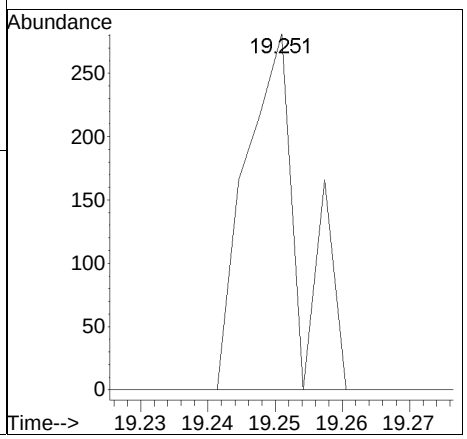


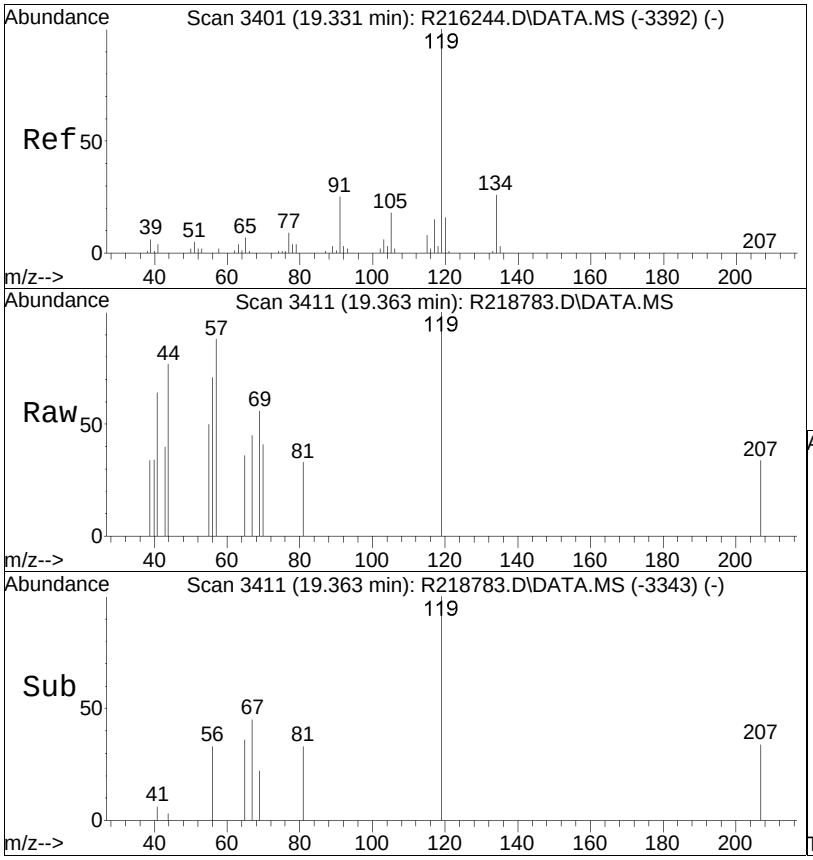


#105
sec-butylbenzene
Concen: 0.00 ppbV
RT: 19.251 min Scan# 3376
Delta R.T. 0.016 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion:105 Resp: 159

Ion	Ratio	Lower	Upper
105	100		
134	0.0	15.1	22.7#

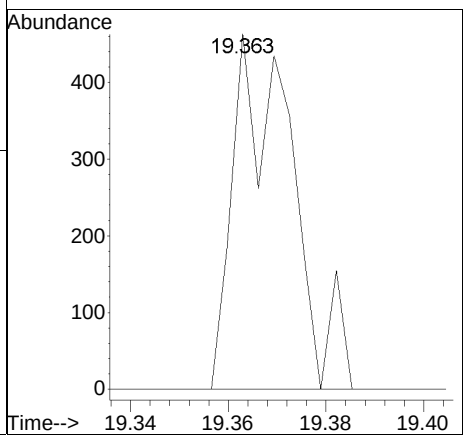


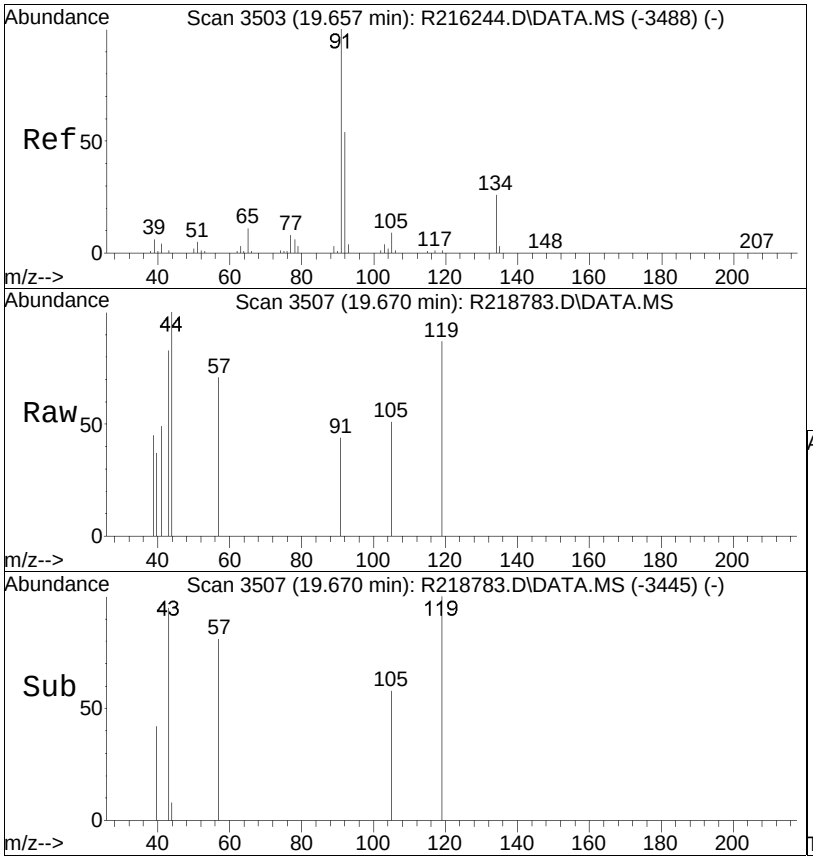


#107
p-isopropyltoluene
Concen: 0.01 ppbV
RT: 19.363 min Scan# 3411
Delta R.T. 0.016 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion:119 Resp: 388

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

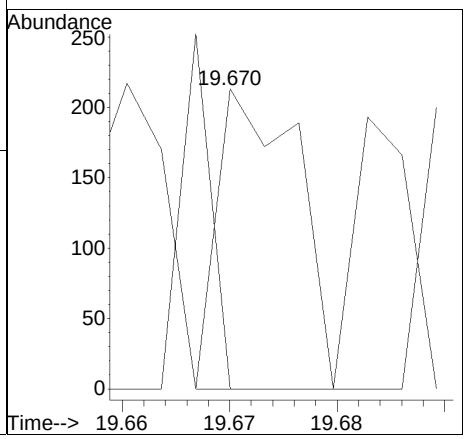




#109
n-butylbenzene
Concen: 0.00 ppbV
RT: 19.670 min Scan# 3507
Delta R.T. -0.003 min
Lab File: R218783.D
Acq: 6 Jan 2012 2:51

Tgt Ion: 91 Resp: 110

Ion	Ratio	Lower	Upper
91	100		
134	0.0	20.9	31.3#

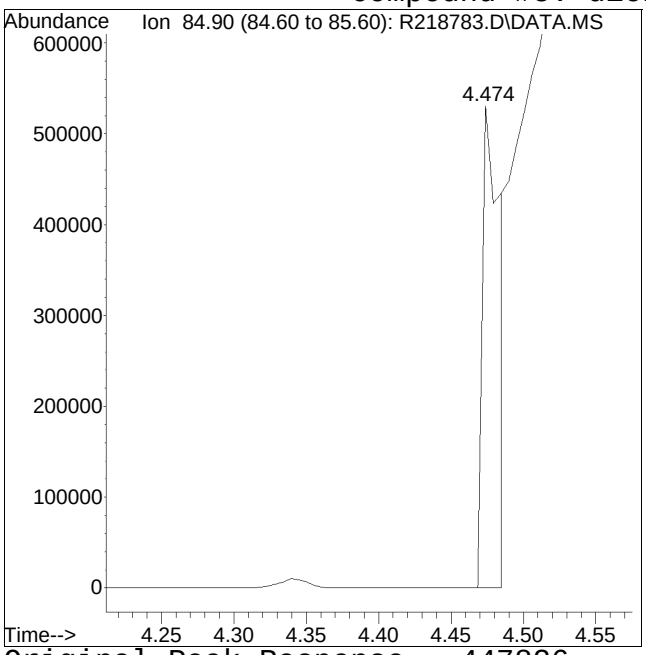


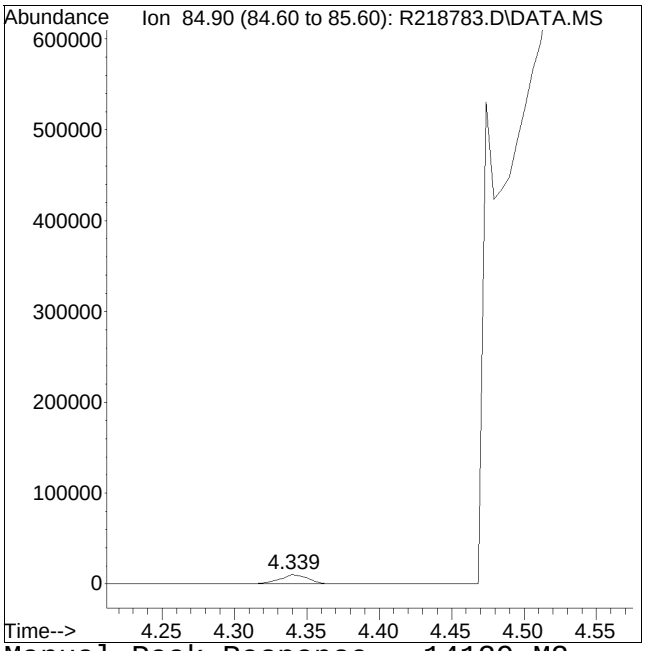
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #5: dichlorodifluoromethane





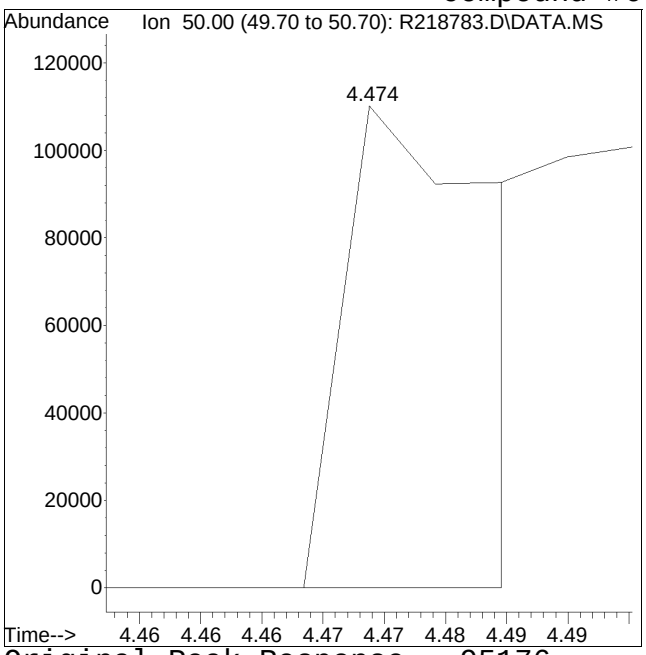
Original Peak Response = 447826 Manual Peak Response = 14129 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

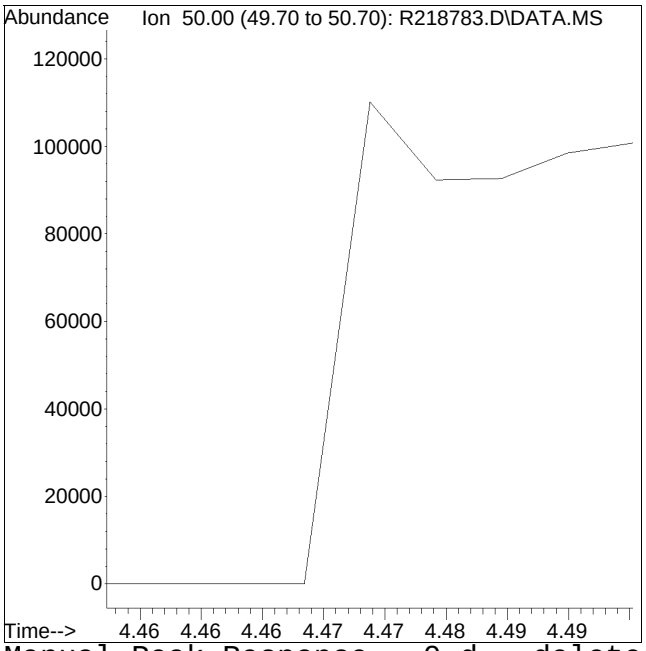
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #6: chloromethane



Original Peak Response = 95176



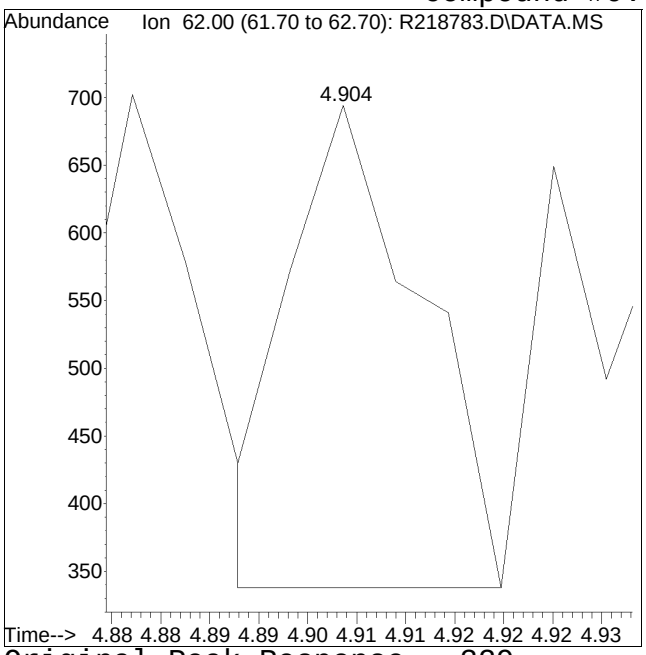
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

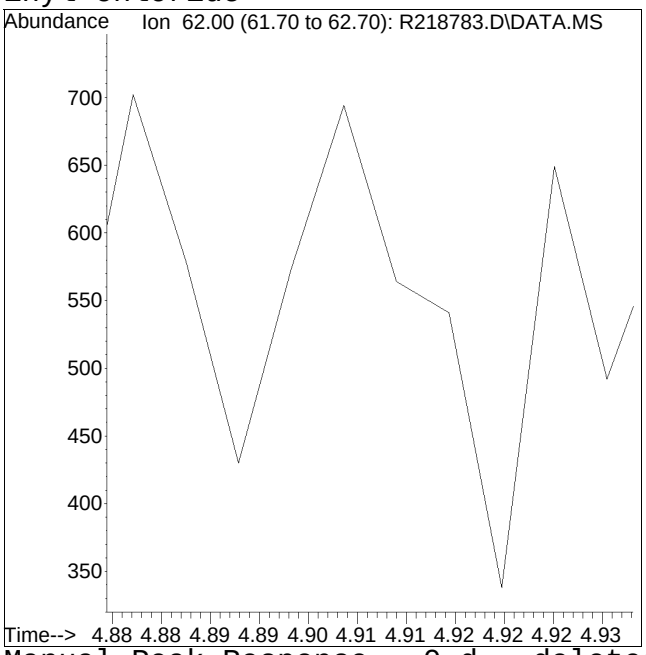
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #9: vinyl chloride



Original Peak Response = 329



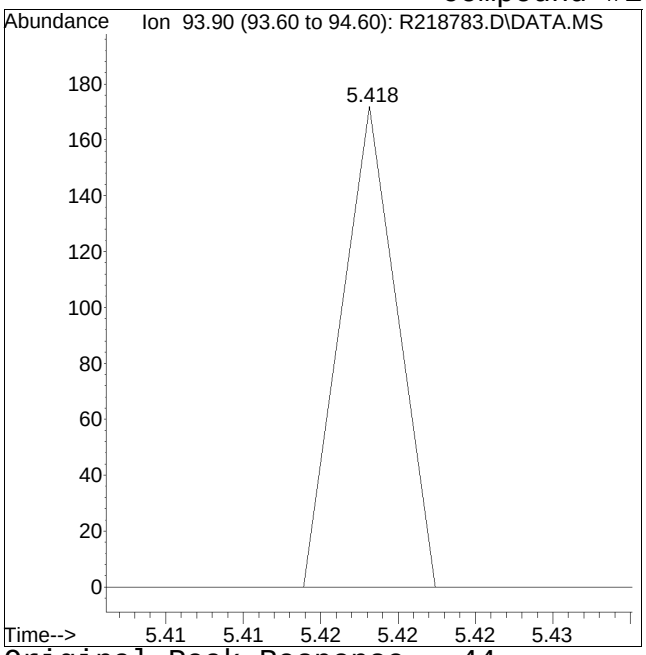
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

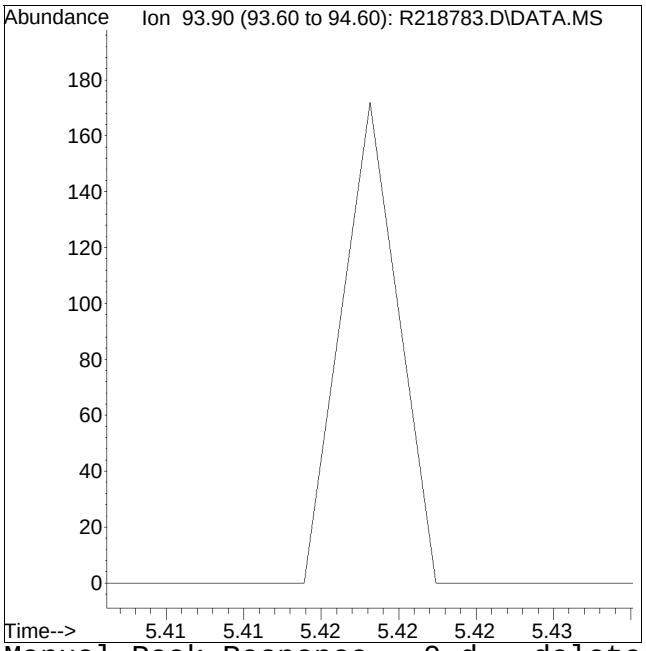
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #13: bromomethane



Original Peak Response = 44



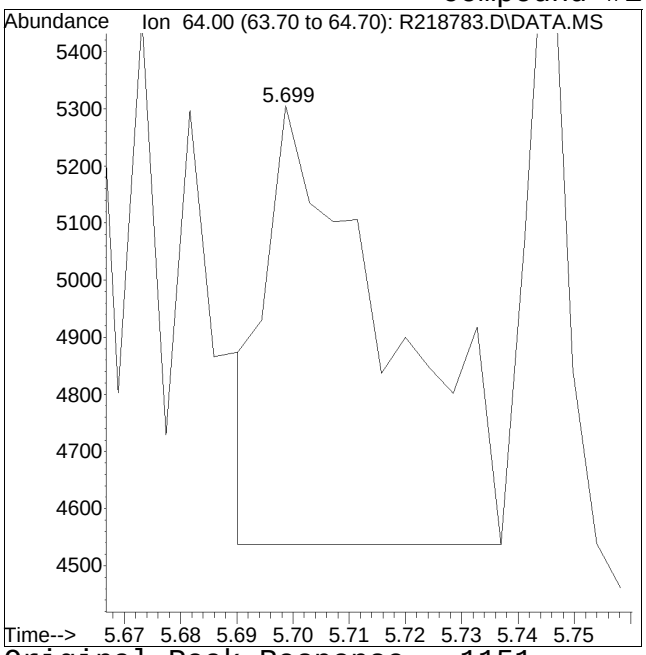
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

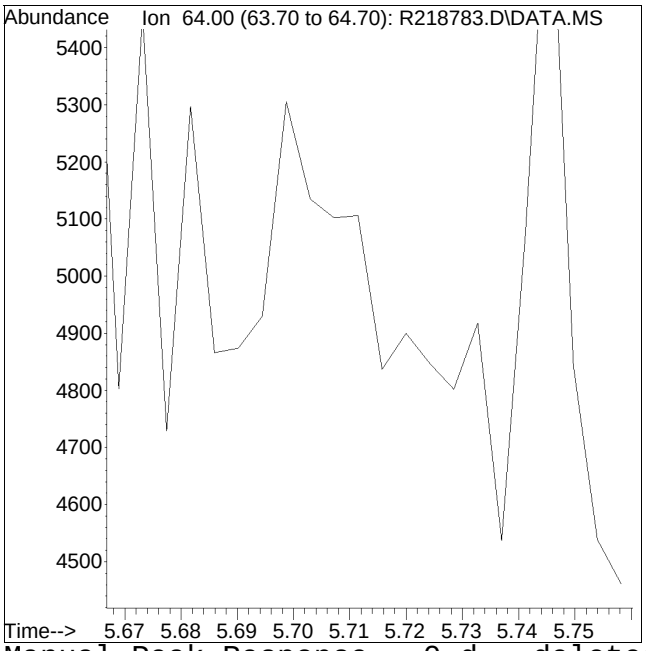
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #14: chloroethane



Original Peak Response = 1151



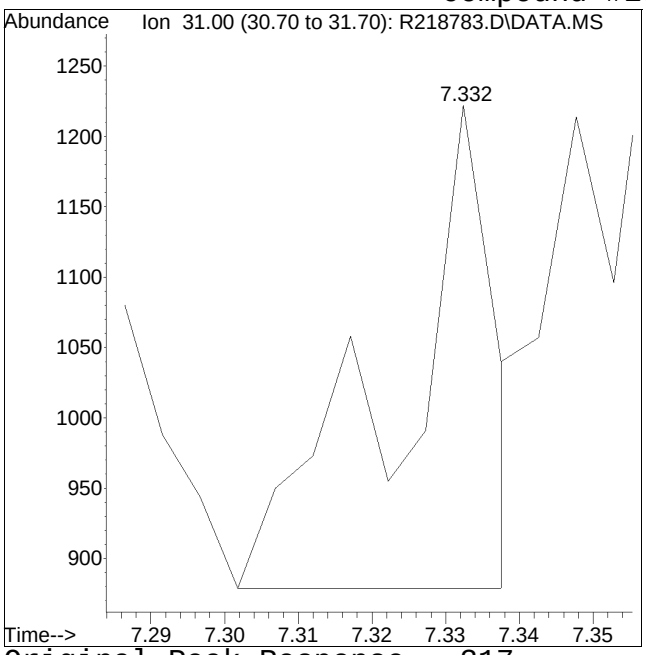
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

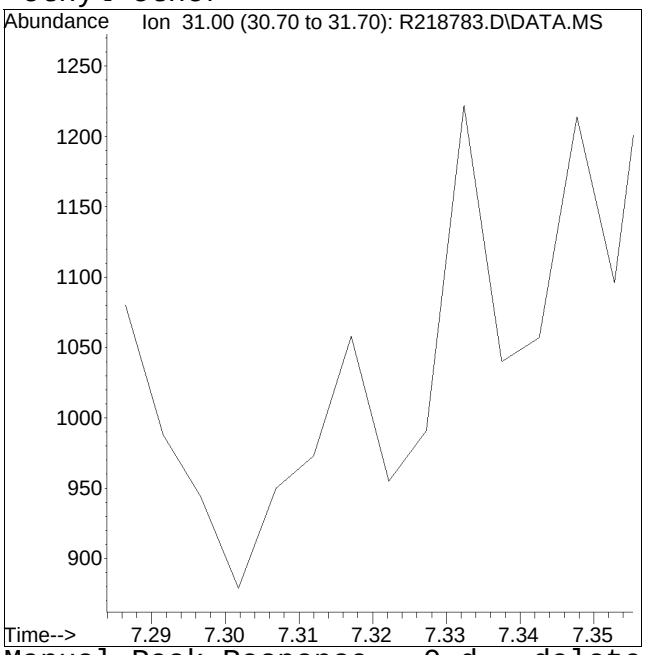
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #25: ethyl ether



Original Peak Response = 317



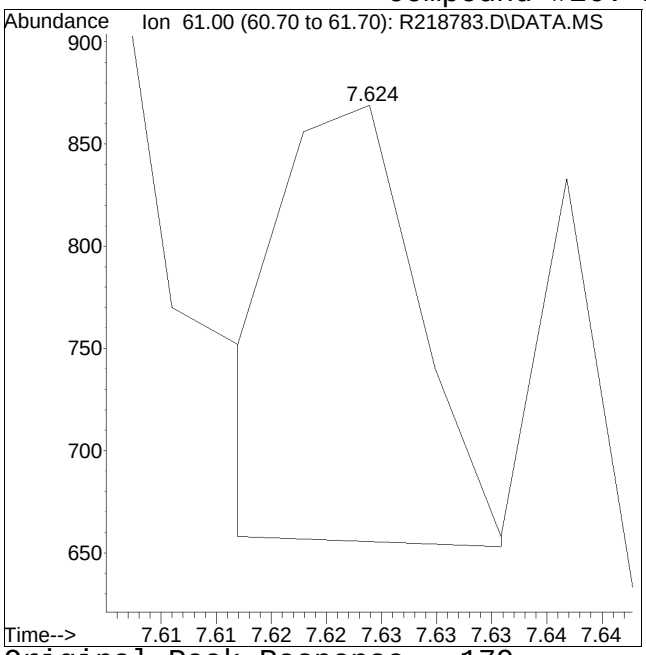
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

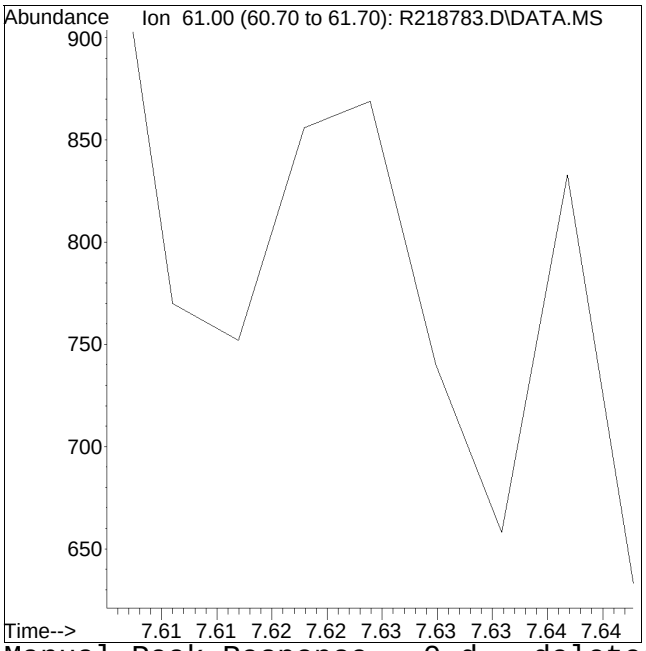
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #26: 1,1-dichloroethene



Original Peak Response = 179



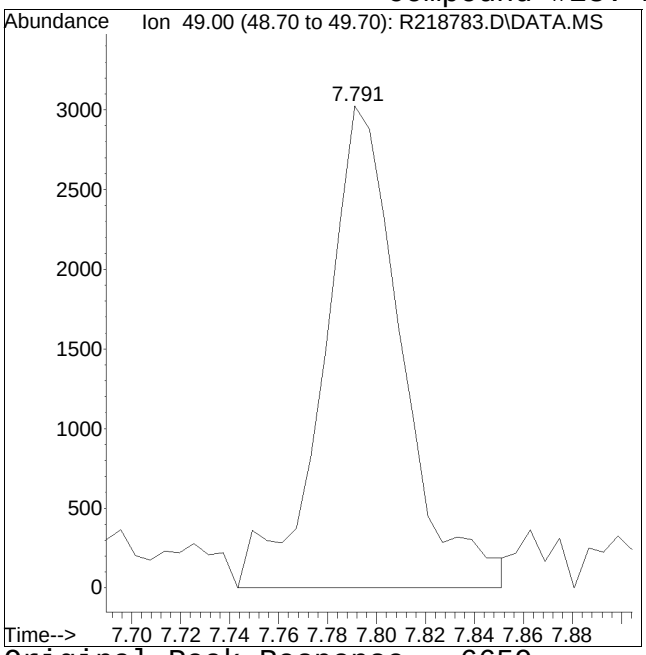
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

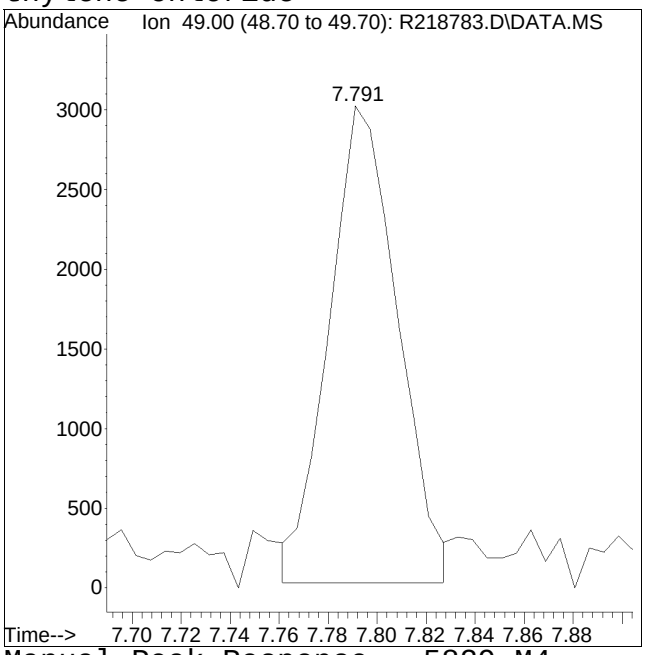
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #28: methylene chloride



Original Peak Response = 6659



Manual Peak Response = 5829 M4

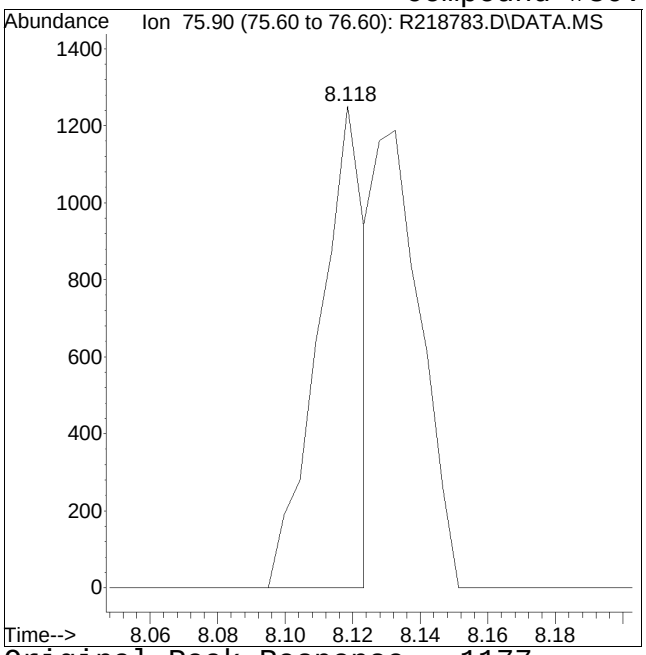
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

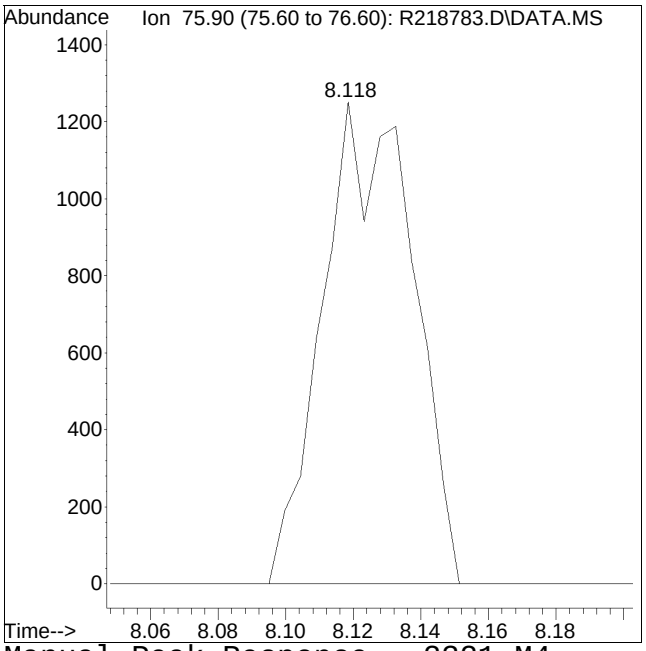
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #30: carbon disulfide



Original Peak Response = 1177



Manual Peak Response = 2321 M4

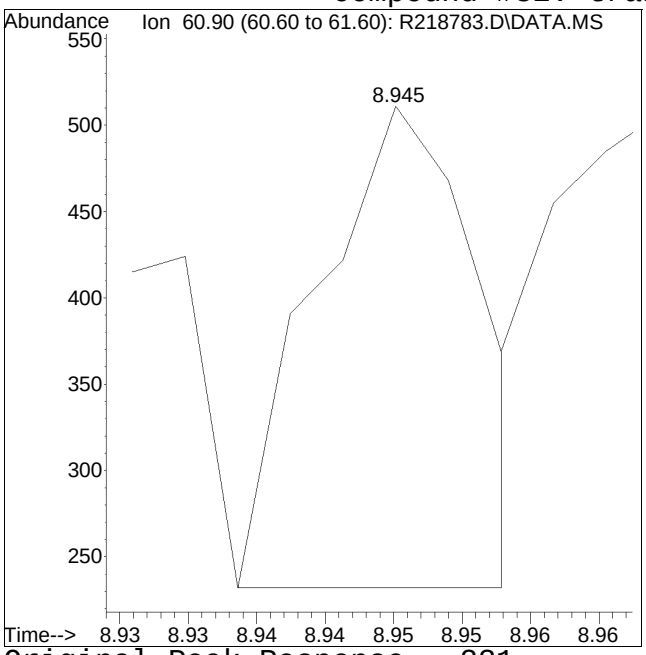
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

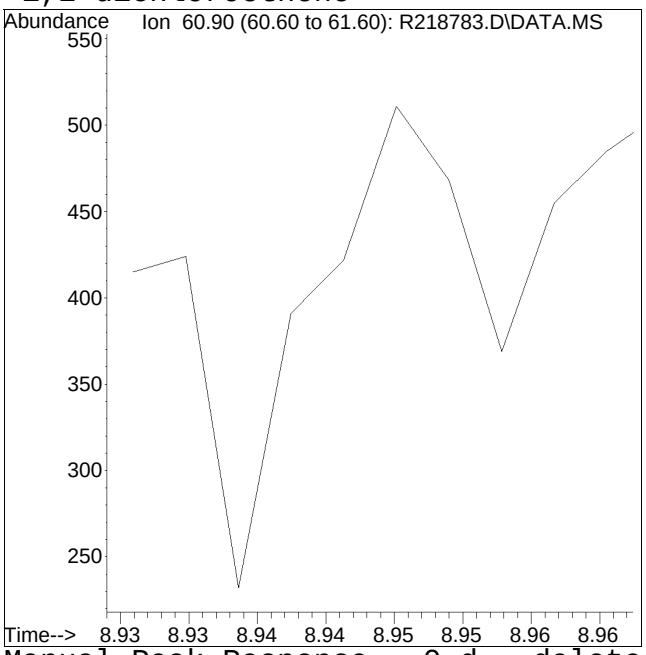
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #32: trans-1,2-dichloroethene



Original Peak Response = 231



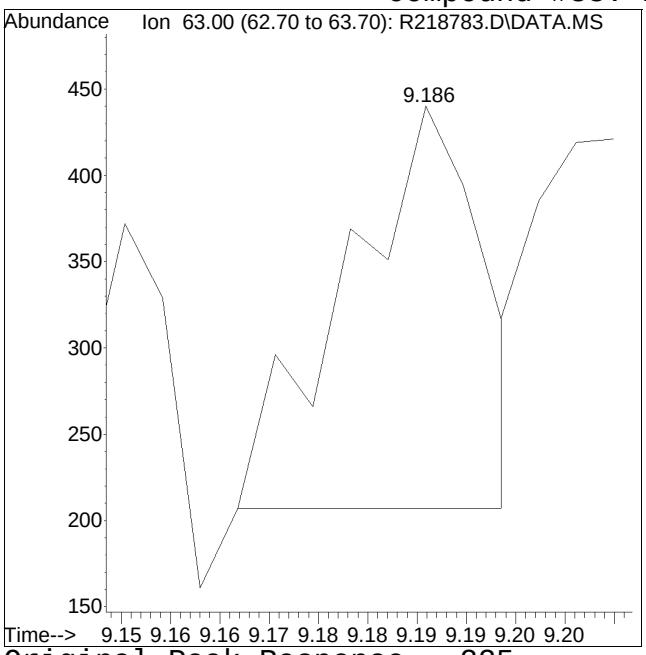
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

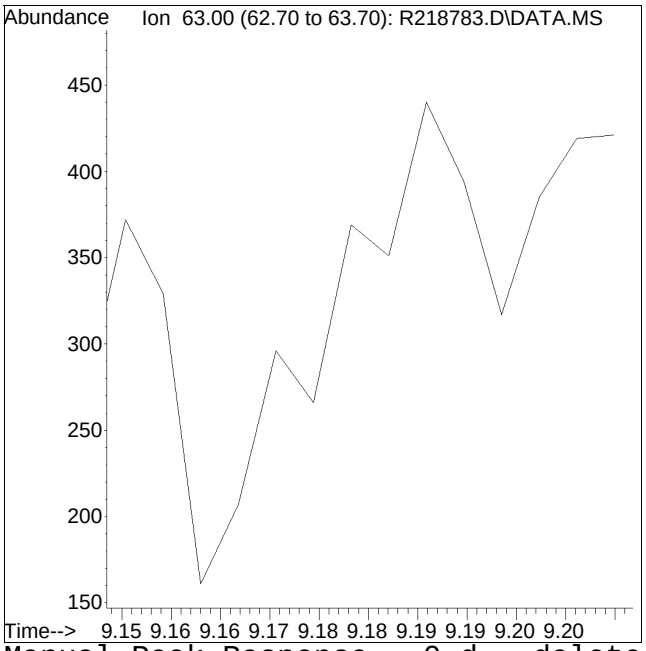
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #33: 1,1-dichloroethane



Original Peak Response = 225



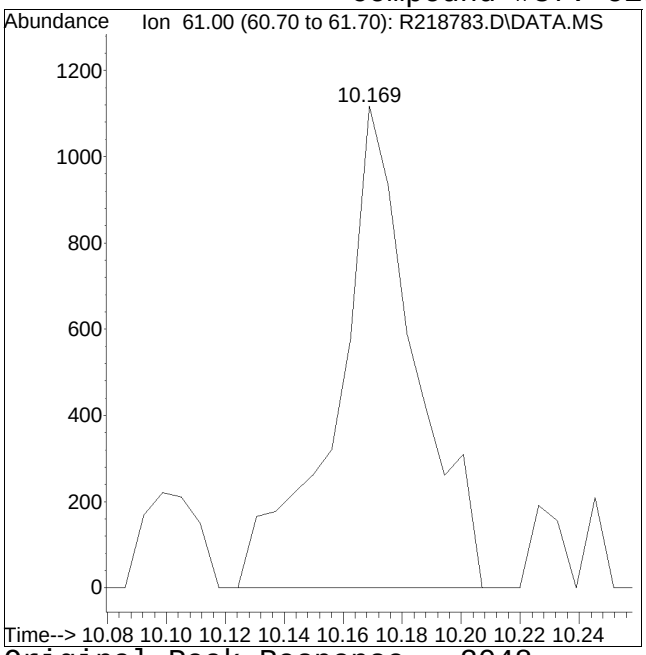
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

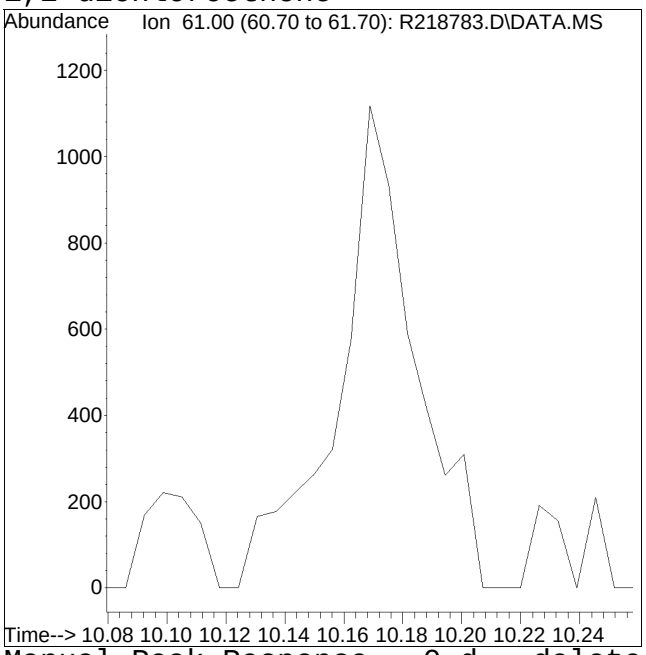
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #37: cis-1,2-dichloroethene



Original Peak Response = 2048



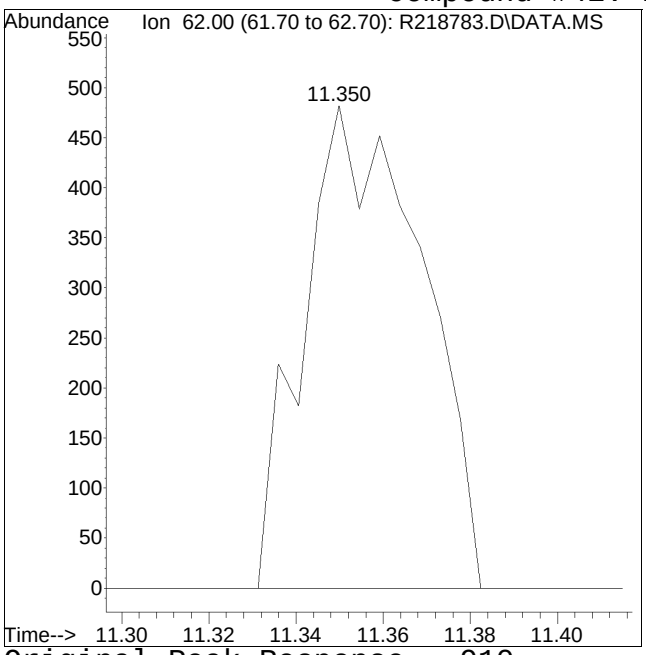
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

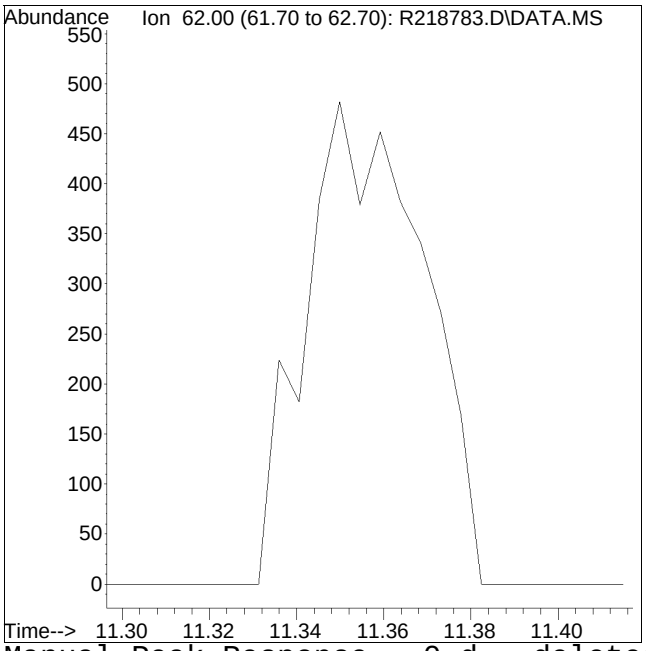
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #42: 1,2-dichloroethane



Original Peak Response = 910



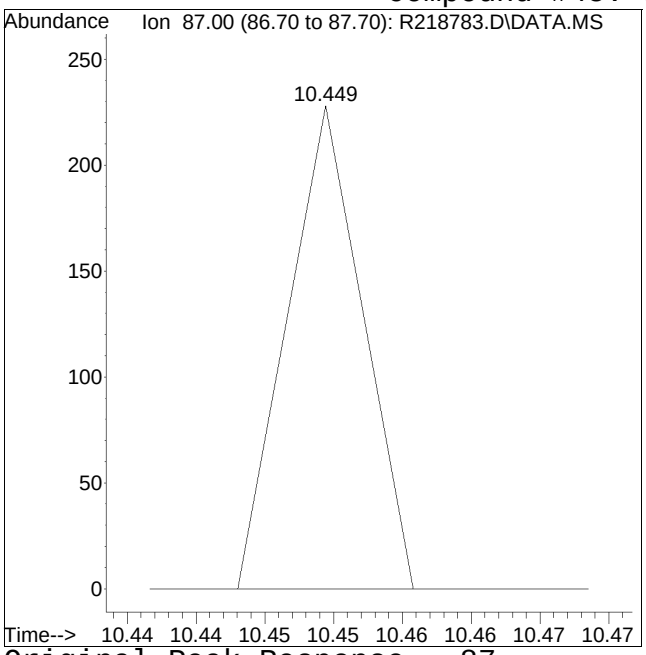
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

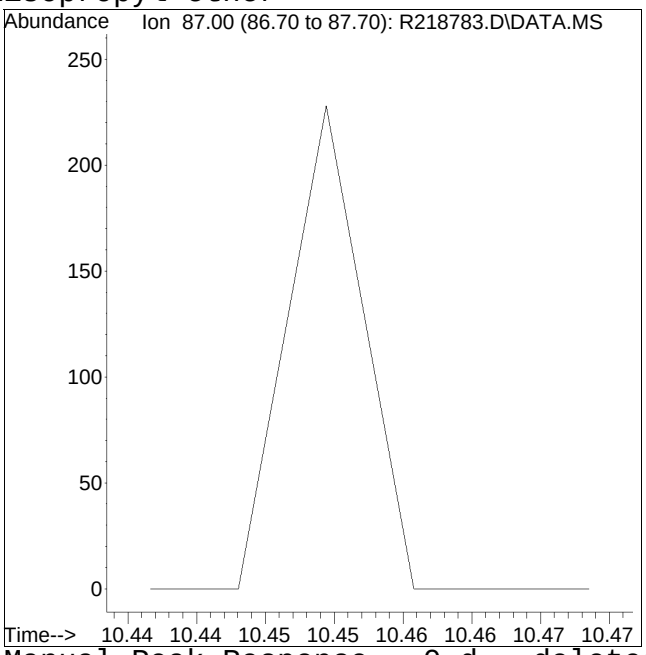
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #45: diisopropyl ether



Original Peak Response = 87



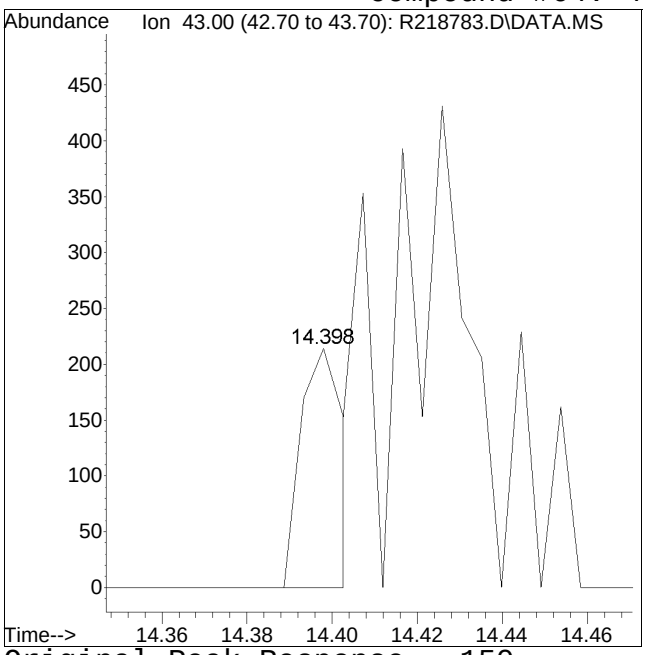
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

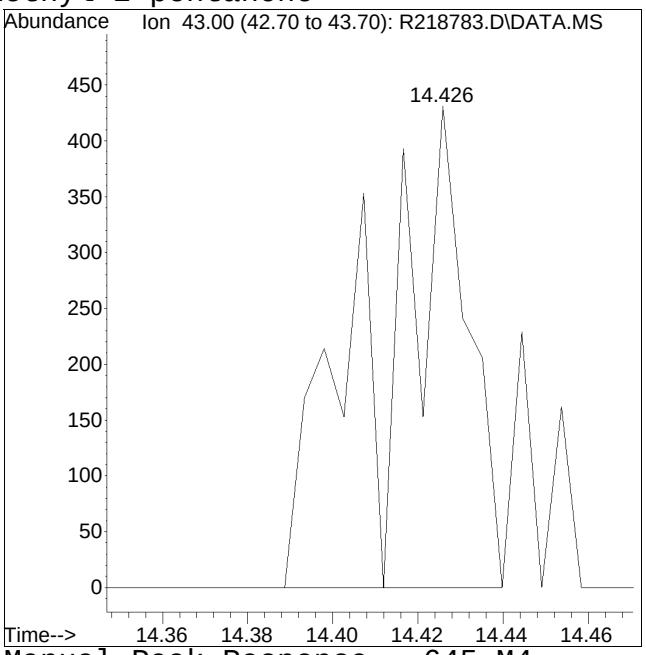
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 150



Manual Peak Response = 645 M4

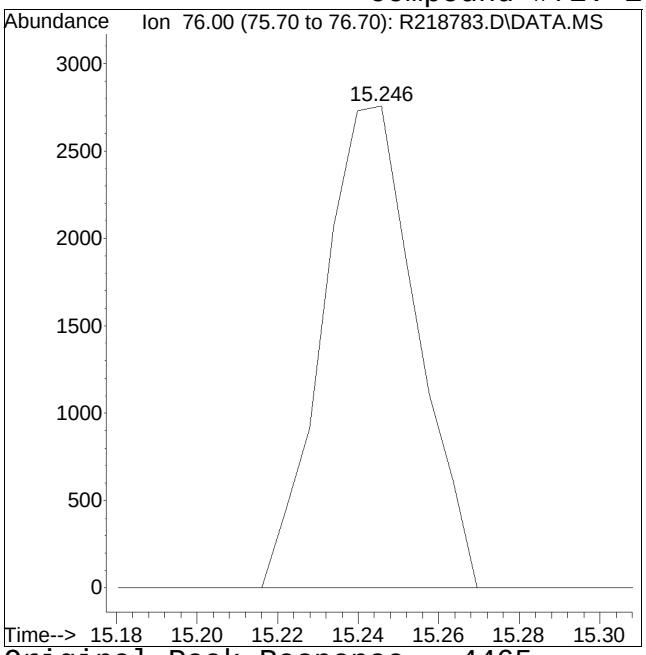
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

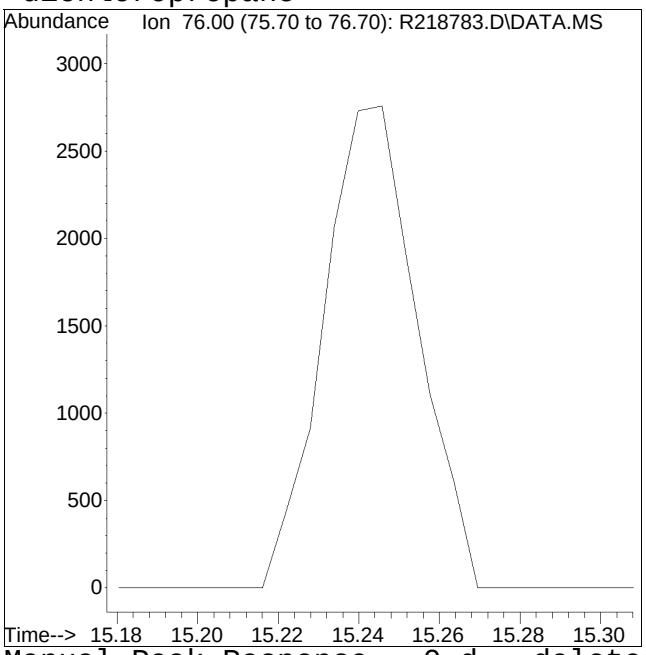
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 4465



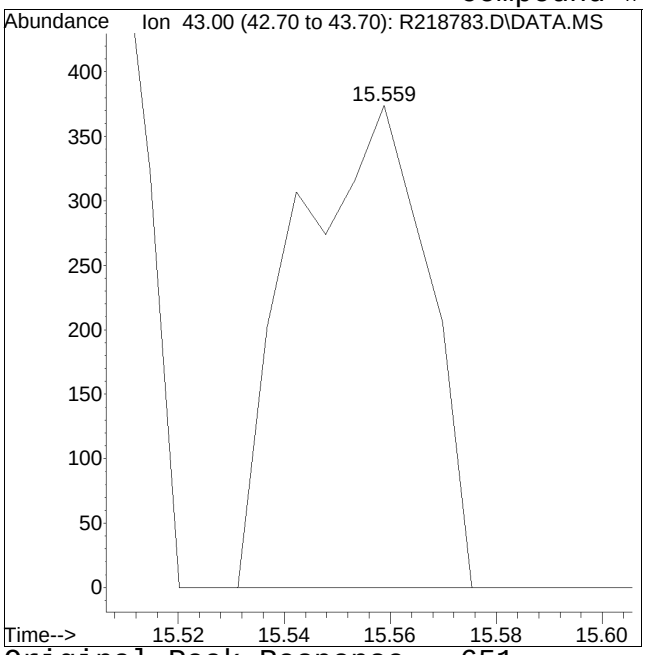
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

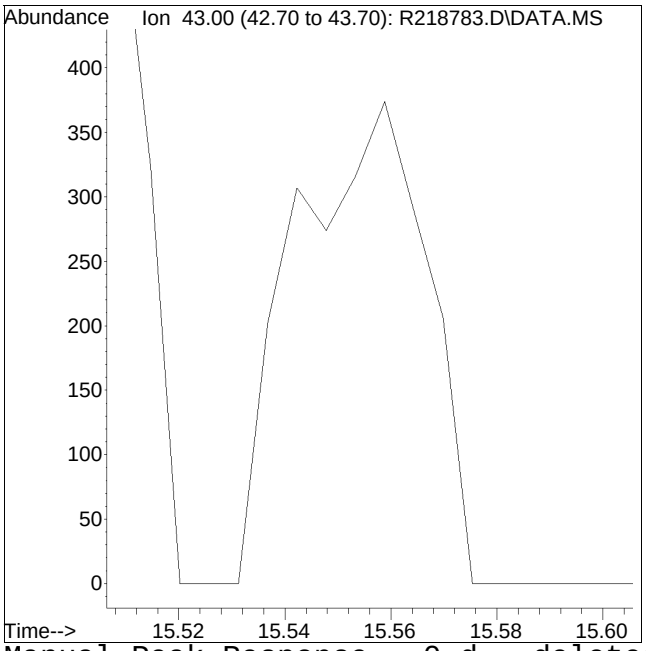
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #73: 2-hexanone



Original Peak Response = 651



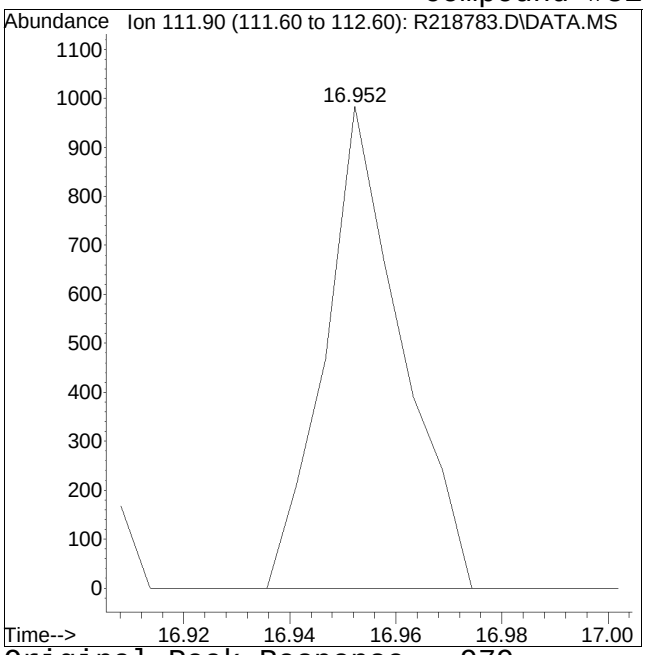
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

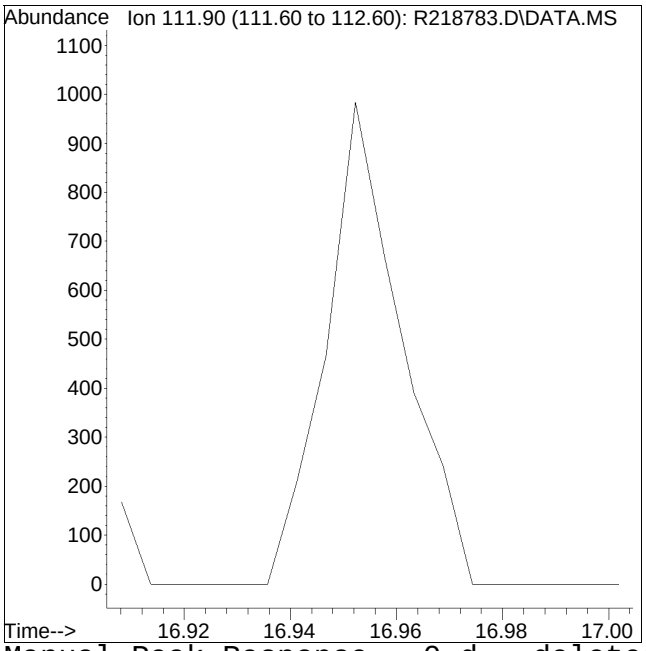
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #81: chlorobenzene



Original Peak Response = 979



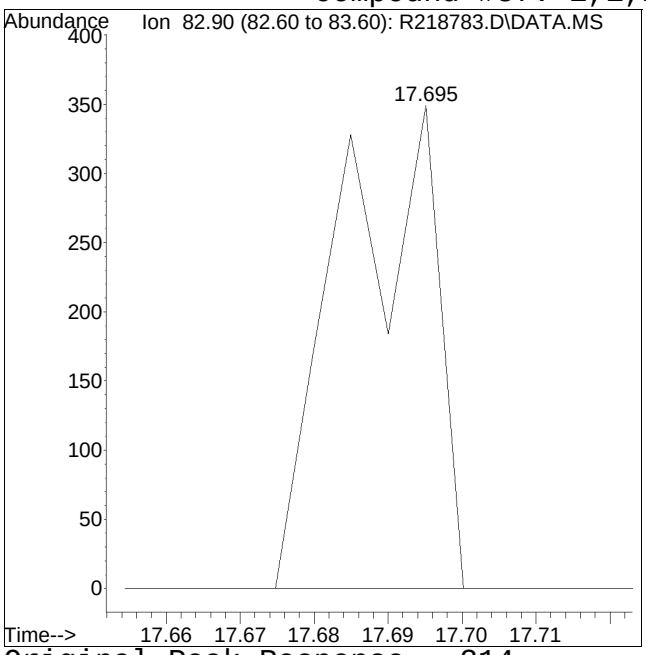
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

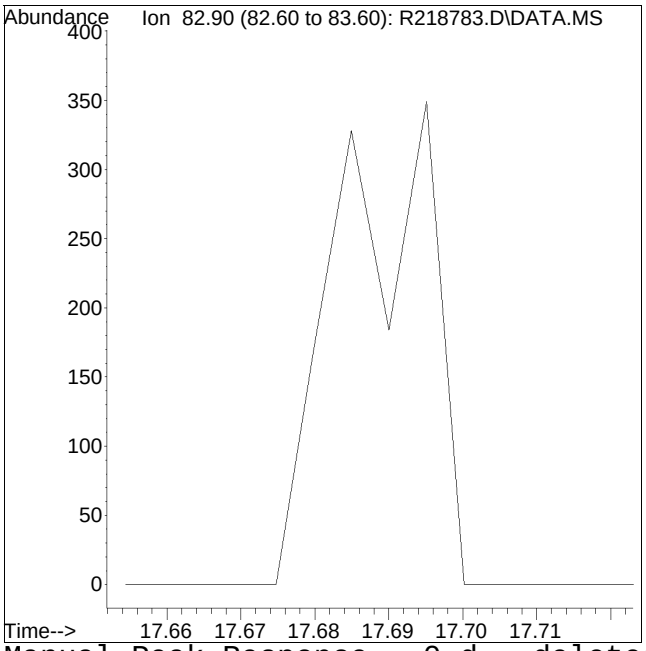
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #87: 1,1,2,2-tetrachloroethane



Original Peak Response = 314



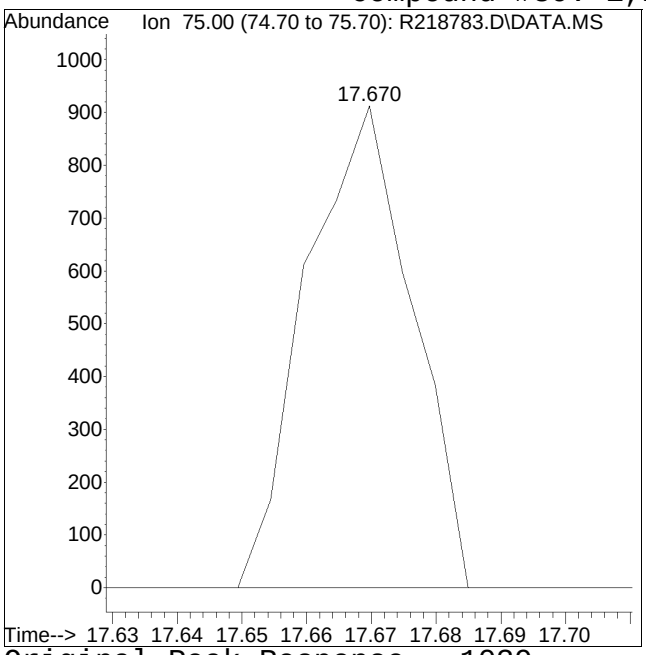
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

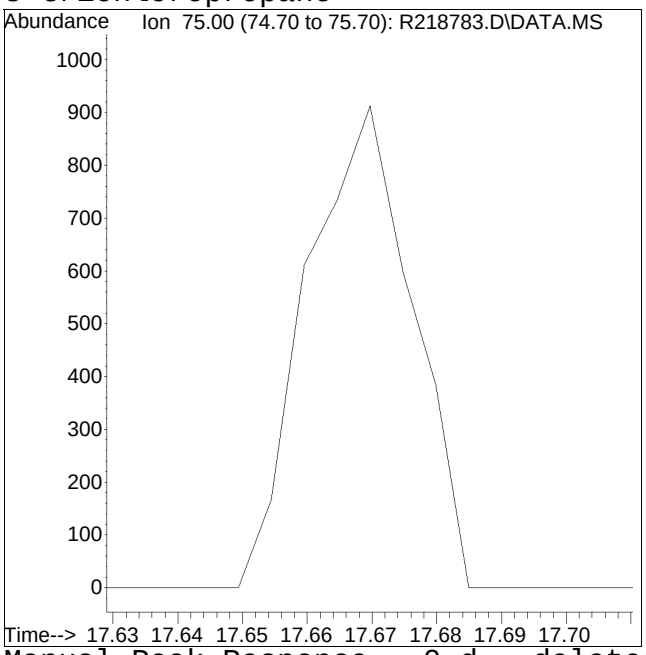
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #89: 1,2,3-trichloropropane



Original Peak Response = 1039



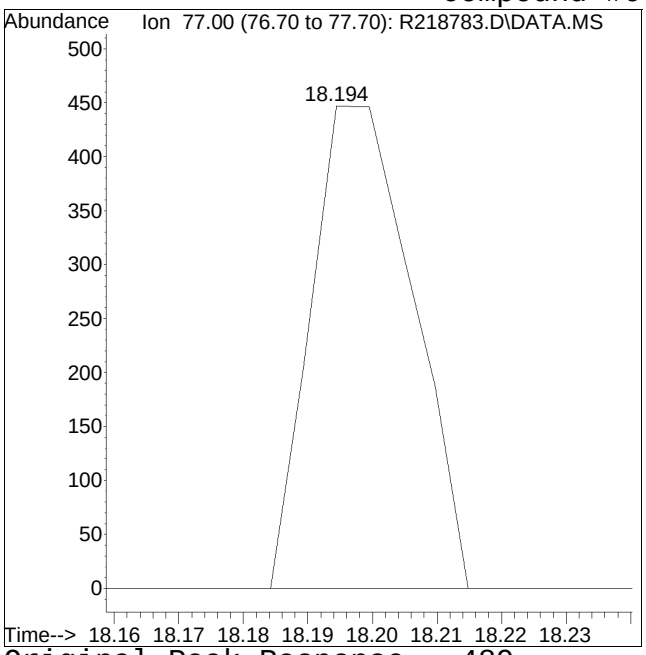
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

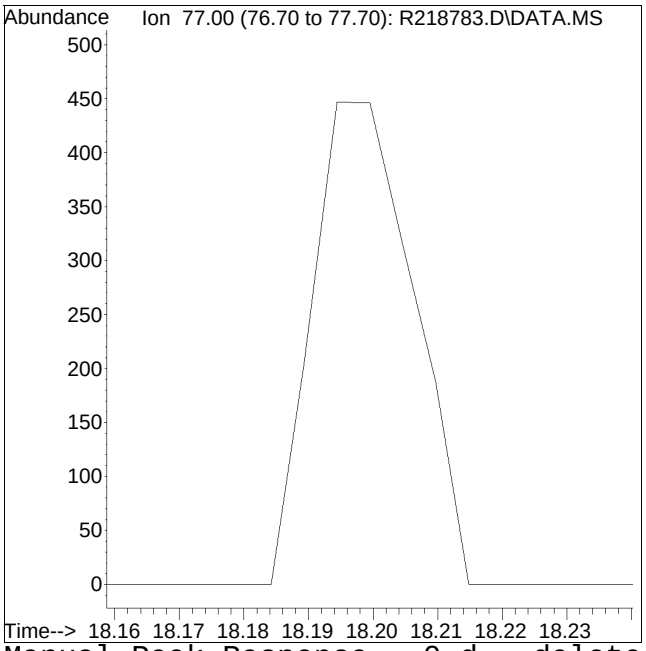
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #93: bromobenzene



Original Peak Response = 489



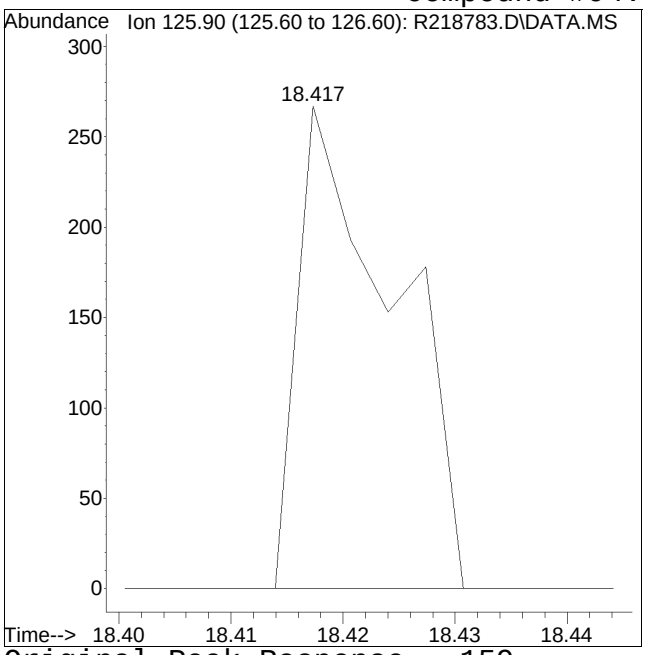
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

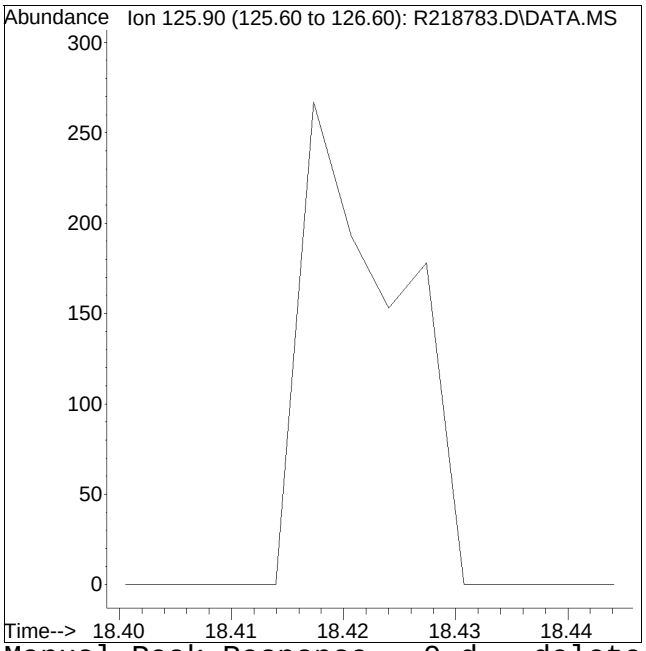
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #94: 2-chlorotoluene



Original Peak Response = 159



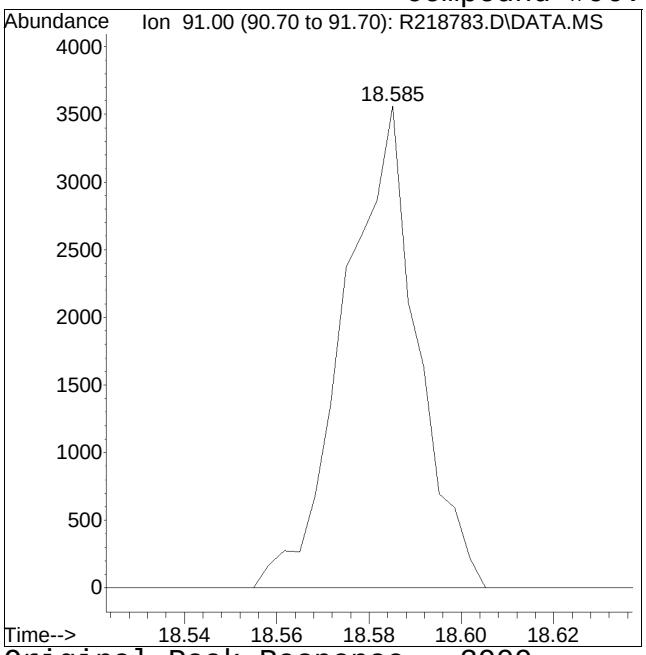
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

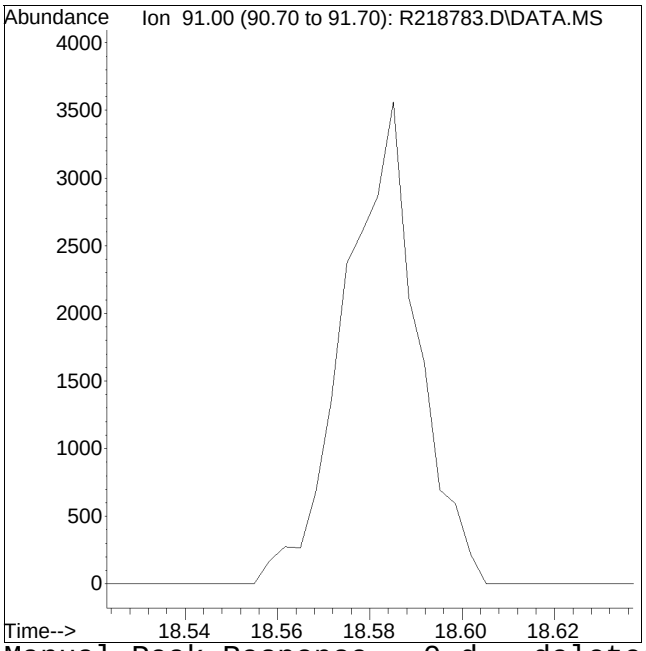
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #96: 4-chlorotoluene



Original Peak Response = 3909



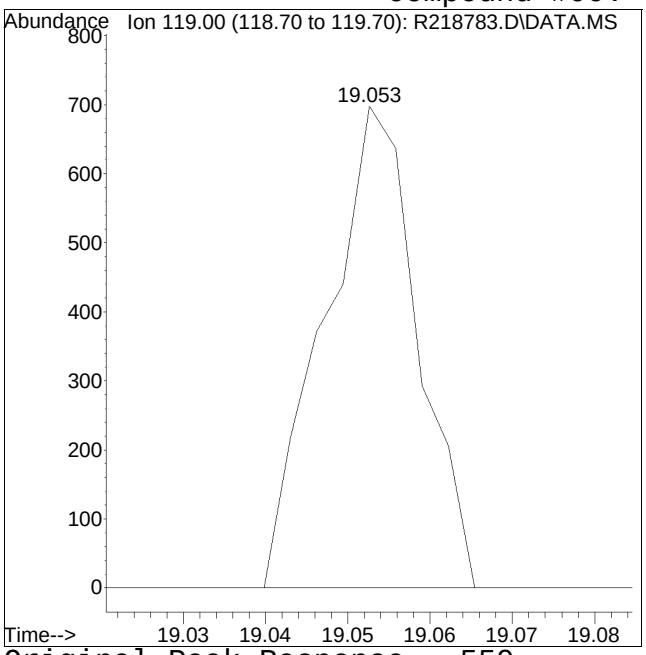
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

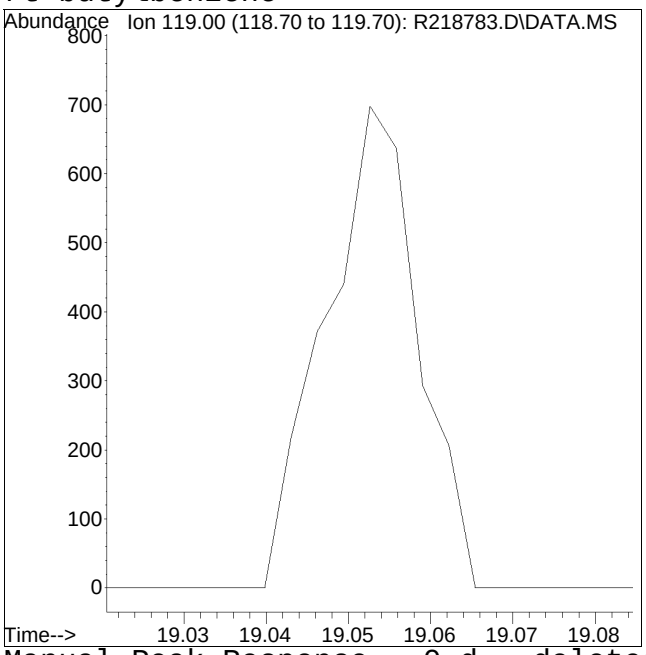
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218783.D
Date Inj'd : 1/6/2012 2:51
Sample : L1200006-04,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:04 am

Compound #99: tert-butylbenzene



Original Peak Response = 550



Manual Peak Response = 0 d - deleted

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218784.D
Acq On : 6 Jan 2012 3:26
Operator : AIRPIANO2:MB
Sample : L1200006-05,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 16 12:08:28 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.367	49	141863	10.000	ppbV	0.00
Standard Area = 151117			Recovery =	93.88%		
43) 1,4-difluorobenzene	12.550	114	424561	10.000	ppbV	0.00
Standard Area = 485506			Recovery =	87.45%		
68) chlorobenzene-D5	16.906	54	81732	10.000	ppbV	0.00
Standard Area = 90670			Recovery =	90.14%		

System Monitoring Compounds

Target Compounds						Qvalue
5) dichlorodifluoromethane	4.345	85	14149M2	0.404	ppbV	
6) chloromethane	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.	d	
19) acetone	6.598	43	44265M4	3.021	ppbV	
21) trichlorofluoromethane	6.795	101	13006	0.362	ppbV	97
25) ethyl ether	0.000		0	N.D.	d	
26) 1,1-dichloroethene	0.000		0	N.D.	d	
28) methylene chloride	7.792	49	12530M4	0.845	ppbV	
30) carbon disulfide	8.124	76	2121	0.061	ppbV #	1
32) trans-1,2-dichloroethene	0.000		0	N.D.	d	
33) 1,1-dichloroethane	0.000		0	N.D.	d	
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.695	43	26294	1.442	ppbV	93
37) cis-1,2-dichloroethene	0.000		0	N.D.	d	
40) Tetrahydrofuran	11.007	42	5581	0.612	ppbV	89
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.	d	
45) diisopropyl ether	0.000		0	N.D.	d	
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	11.631		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.332	117	1676	0.064	ppbV	90
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	13.043	93	75	0.005	ppbV #	56
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.	d	
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218784.D
Acq On : 6 Jan 2012 3:26
Operator : AIRPIANO2:MB
Sample : L1200006-05,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 16 12:08:28 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

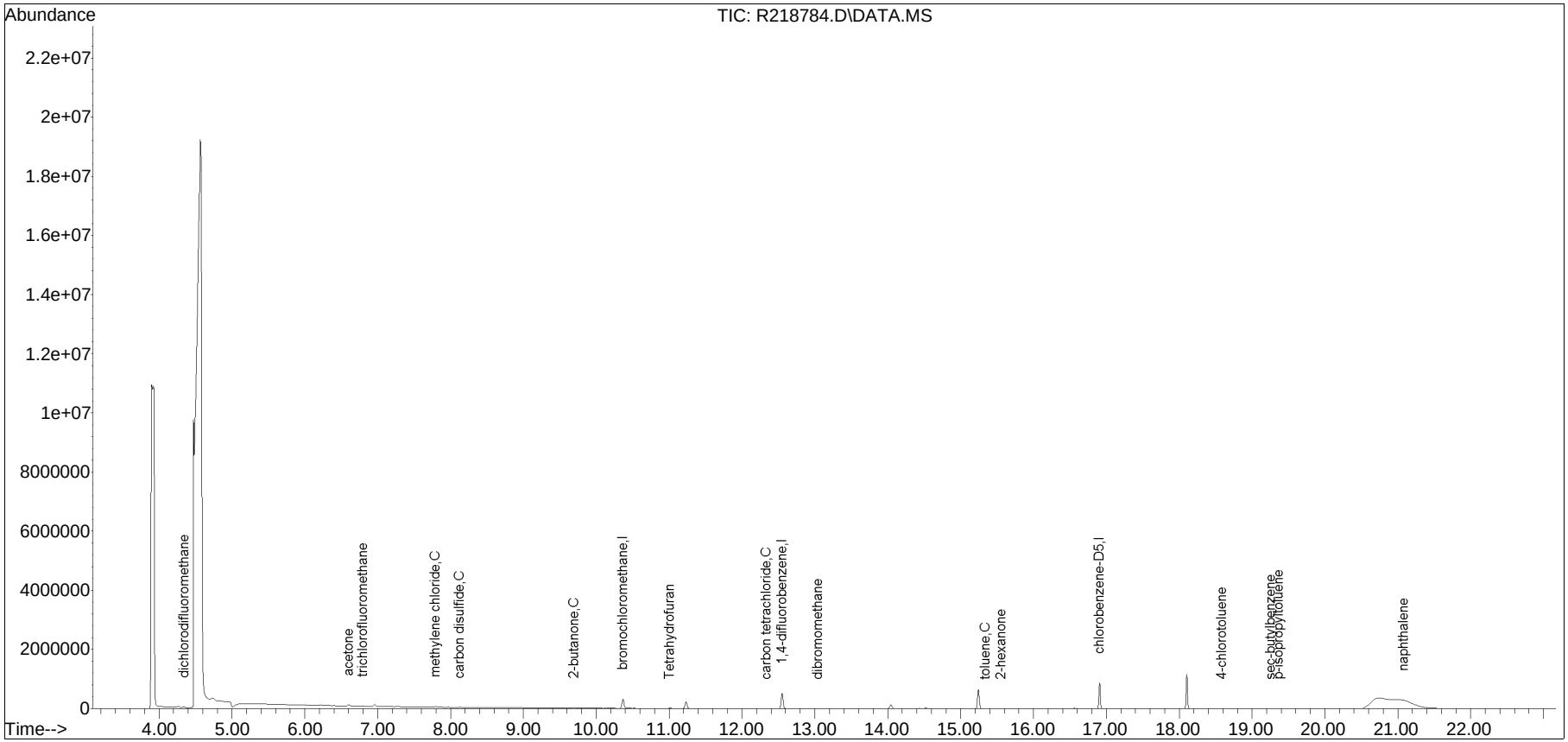
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 4-methyl-2-pentanone	14.388		0	N.D.		
66) trans-1,3-dichloropropene	0.000		0	N.D.		
67) 1,1,2-trichloroethane	0.000		0	N.D.		
69) toluene	15.340	91	5277	0.160	ppbV	97
72) 1,3-dichloropropane	0.000		0	N.D.	d	
73) 2-hexanone	15.553	43	3355M6	0.206	ppbV	
75) dibromochloromethane	0.000		0	N.D.		
76) 1,2-dibromoethane	0.000		0	N.D.		
80) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81) chlorobenzene	16.955		0	N.D.		
82) ethylbenzene	17.235		0	N.D.		
84) m+p-xylene	17.373		0	N.D.		
85) bromoform	0.000		0	N.D.		
86) styrene	17.668		0	N.D.		
87) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88) o-xylene	17.754		0	N.D.		
89) 1,2,3-trichloropropane	0.000		0	N.D.		
92) isopropylbenzene	18.197		0	N.D.		
93) bromobenzene	0.000		0	N.D.	d	
94) 2-chlorotoluene	0.000		0	N.D.		
95) n-propylbenzene	0.000		0	N.D.		
96) 4-chlorotoluene	18.585	91	270	0.009	ppbV #	40
98) 1,3,5-trimethylbenzene	18.746		0	N.D.		
99) tert-butylbenzene	0.000		0	N.D.		
100) 1,2,4-trimethylbenzene	19.052		0	N.D.		
103) 1,3-dichlorobenzene	0.000		0	N.D.		
104) 1,4-dichlorobenzene	0.000		0	N.D.		
105) sec-butylbenzene	19.254	105	75	0.002	ppbV #	58
107) p-isopropyltoluene	19.363	119	30	0.001	ppbV #	49
108) 1,2-dichlorobenzene	0.000		0	N.D.		
109) n-butylbenzene	0.000		0	N.D.		
112) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116) 1,2,4-trichlorobenzene	0.000		0	N.D.		
117) naphthalene	21.080	128	2647	0.071	ppbV	96
118) 1,2,3-trichlorobenzene	0.000		0	N.D.		
120) hexachlorobutadiene	0.000		0	N.D.		

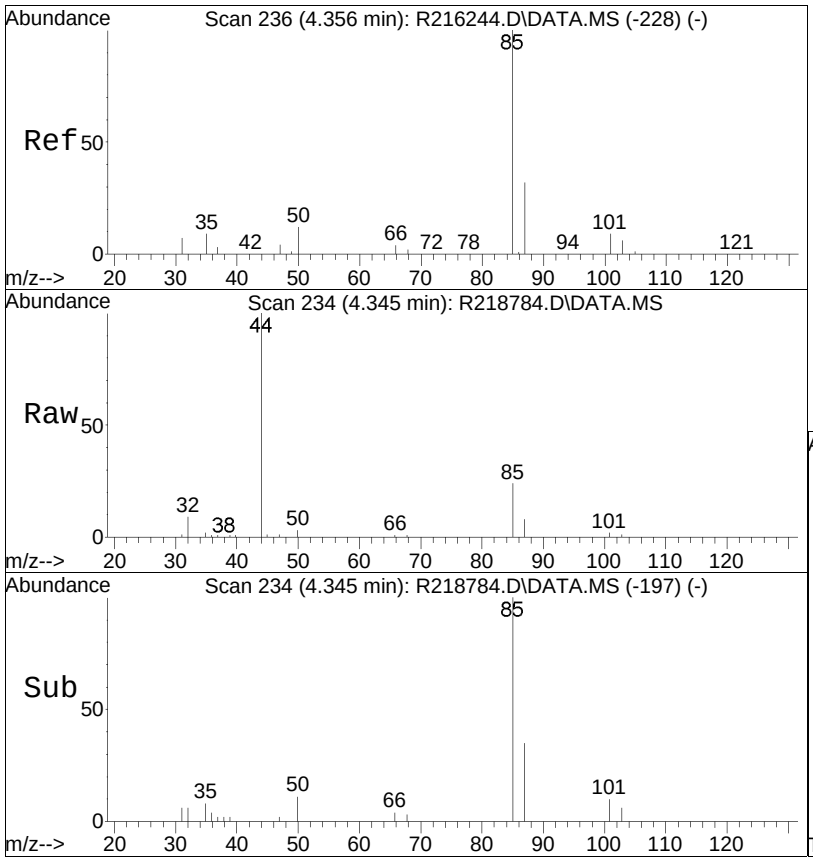
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218784.D
Acq On : 6 Jan 2012 3:26
Operator : AIRPIANO2:MB
Sample : L1200006-05,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 16 12:08:28 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

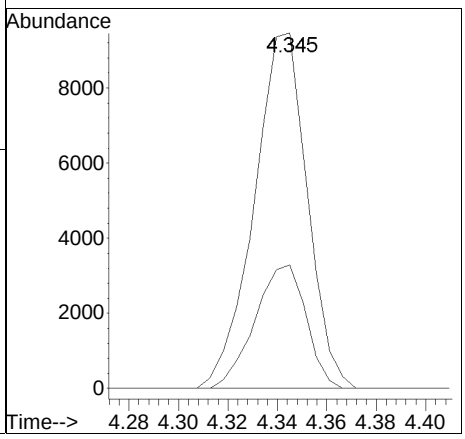


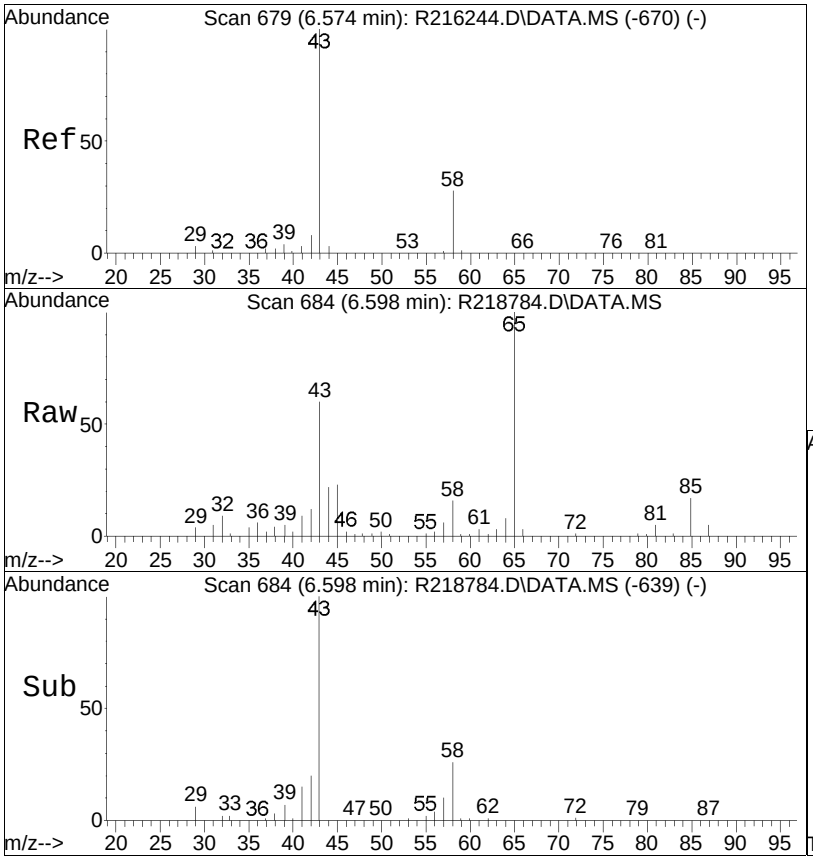


#5
dichlorodifluoromethane
Concen: 0.40 ppbV m
RT: 4.345 min Scan# 234
Delta R.T. 0.000 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion: 85 Resp: 14149

Ion	Ratio	Lower	Upper
85	100		
87	34.7	26.4	39.6

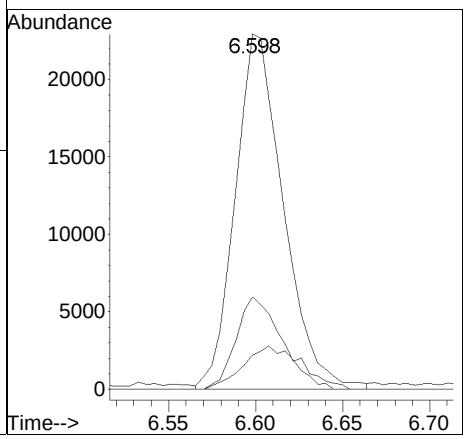


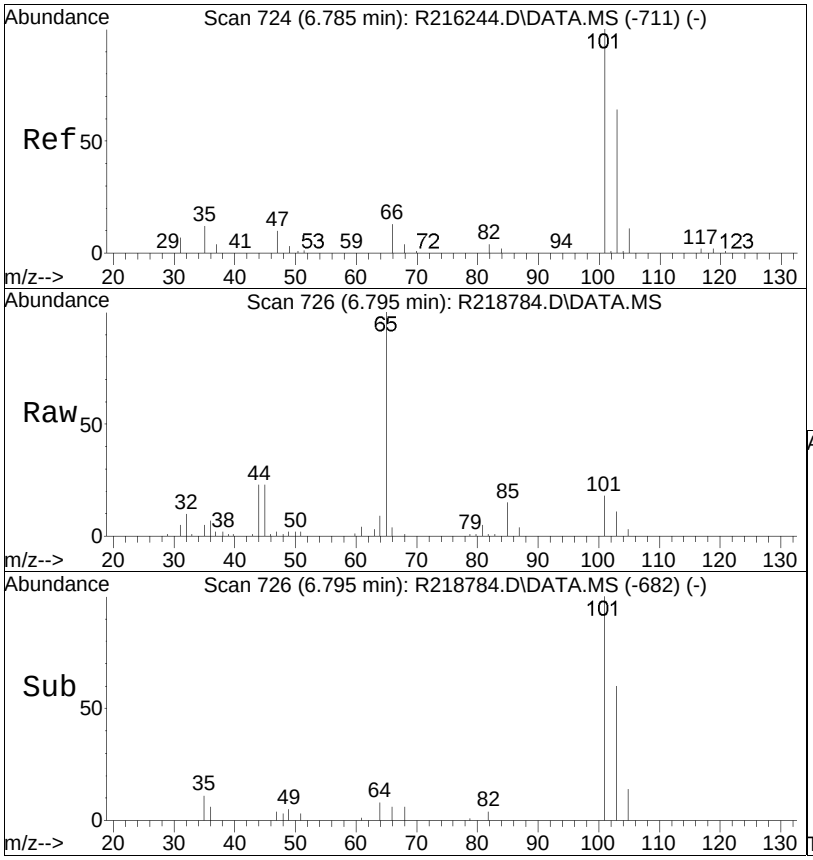


#19
acetone
Concen: 3.02 ppbV m
RT: 6.598 min Scan# 684
Delta R.T. 0.024 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion: 43 Resp: 44265

Ion	Ratio	Lower	Upper
43	100		
58	26.0	22.2	33.2
57	9.7	0.9	1.3#

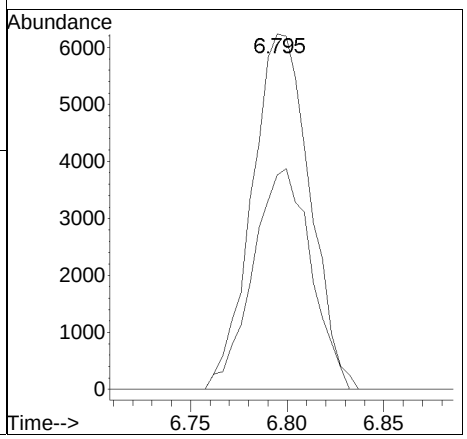


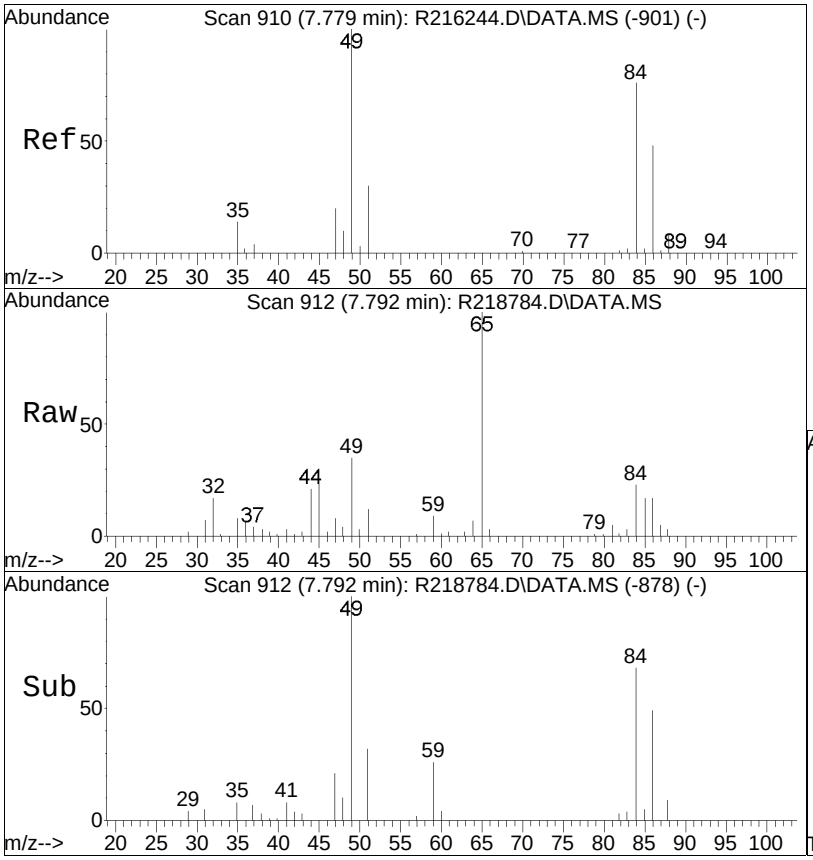


#21
trichlorofluoromethane
Concen: 0.36 ppbV
RT: 6.795 min Scan# 726
Delta R.T. 0.005 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion:101 Resp: 13006

Ion	Ratio	Lower	Upper
101	100		
103	60.4	50.2	75.2

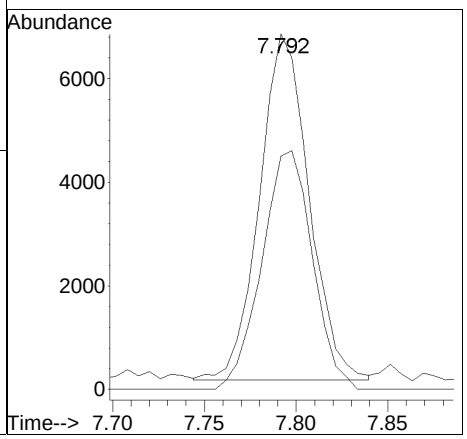


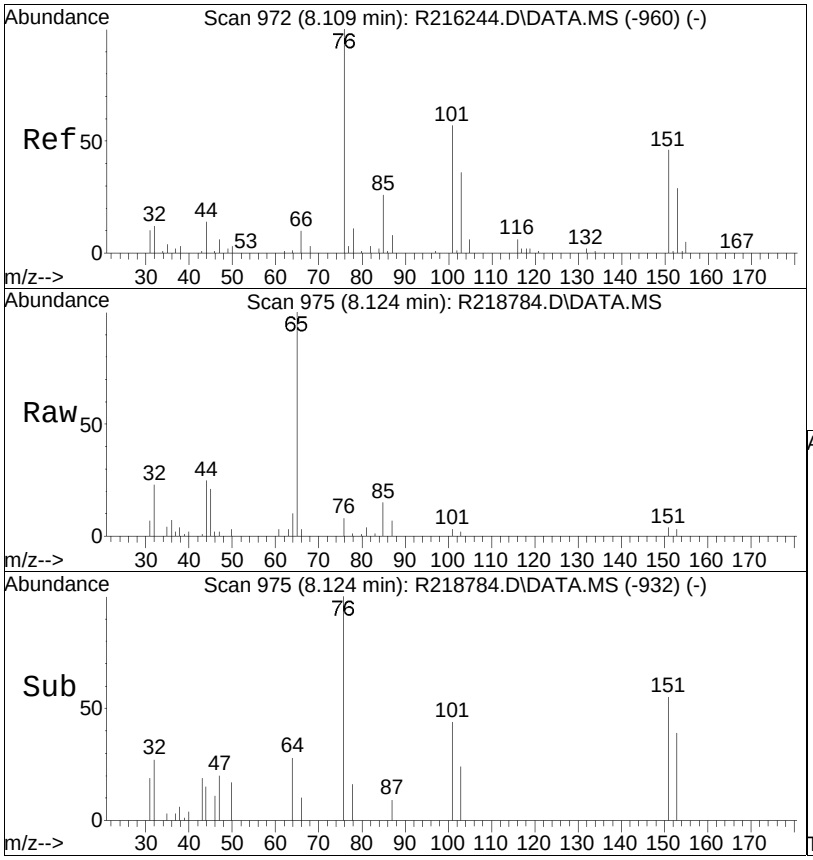


#28
methylene chloride
Concen: 0.84 ppbV m
RT: 7.792 min Scan# 912
Delta R.T. 0.001 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion: 49 Resp: 12530

Ion	Ratio	Lower	Upper
49	100		
84	65.7	56.6	84.8

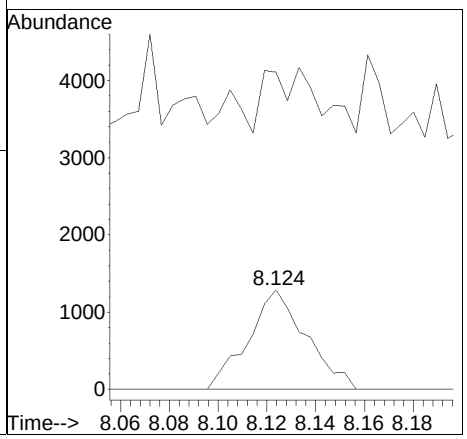


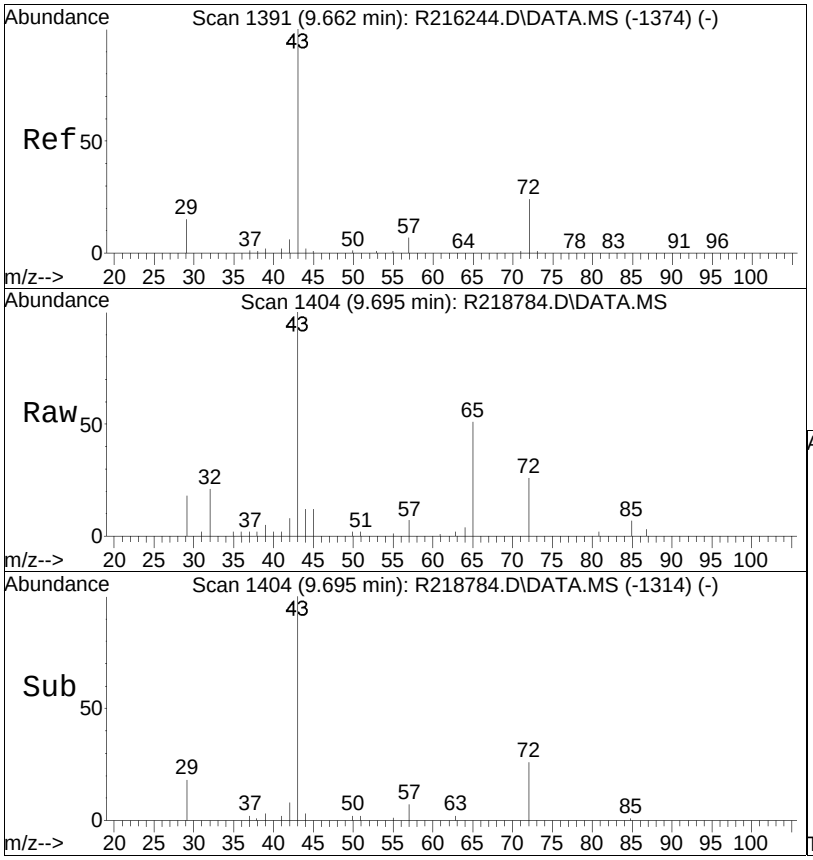


#30
carbon disulfide
Concen: 0.06 ppbV
RT: 8.124 min Scan# 975
Delta R.T. 0.005 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion: 76 Resp: 2121

Ion	Ratio	Lower	Upper
76	100		
44	318.9	12.2	18.4#

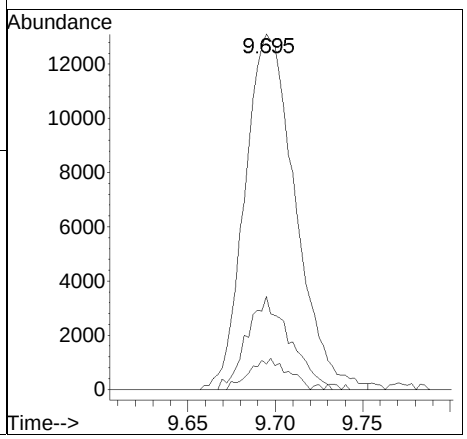


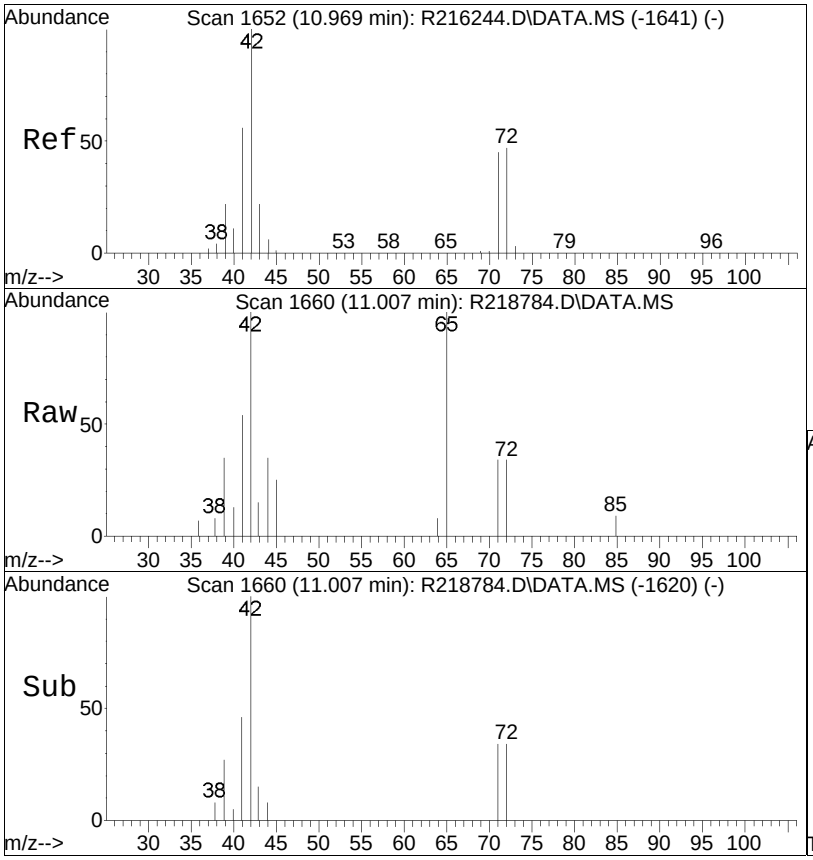


#36
2-butanone
Concen: 1.44 ppbV
RT: 9.695 min Scan# 1404
Delta R.T. 0.026 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion: 43 Resp: 26294

Ion	Ratio	Lower	Upper
43	100		
72	26.2	17.6	26.4
57	7.2	5.6	8.4

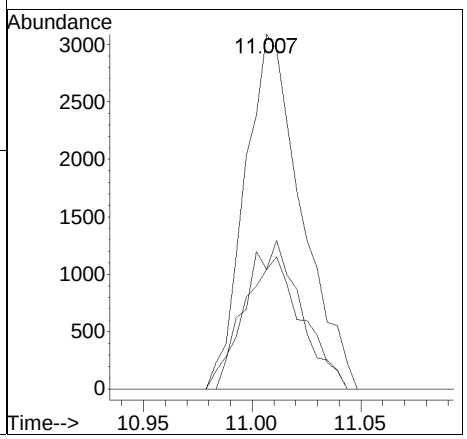


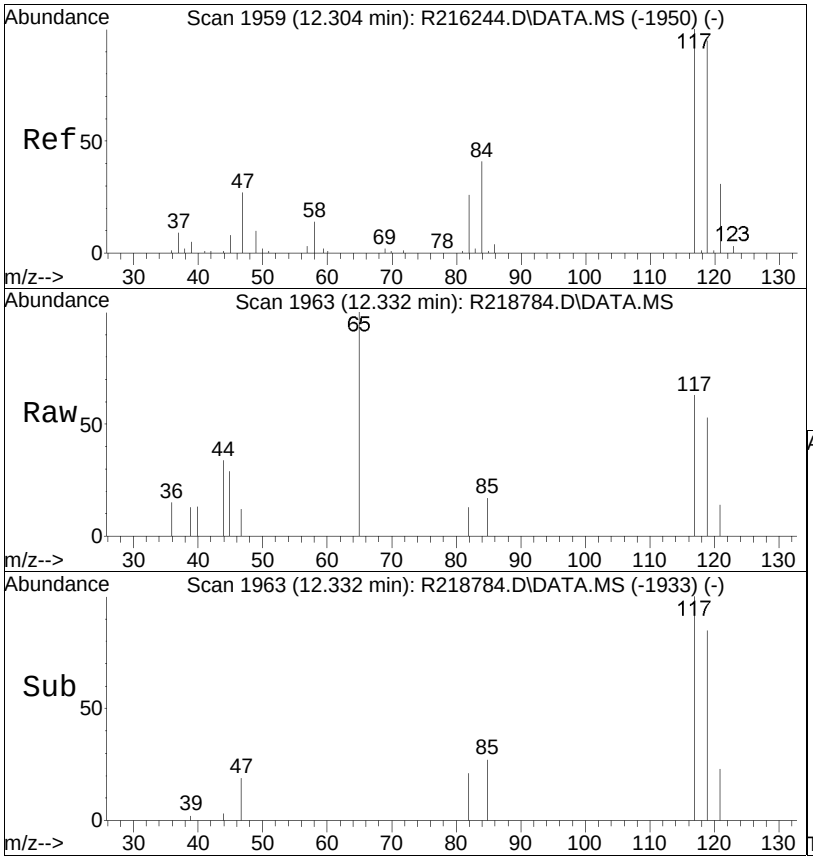


#40
Tetrahydrofuran
Concen: 0.61 ppbV
RT: 11.007 min Scan# 1660
Delta R.T. 0.033 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion: 42 Resp: 5581

Ion	Ratio	Lower	Upper
42	100		
71	33.7	31.9	47.9
72	33.8	32.6	48.8

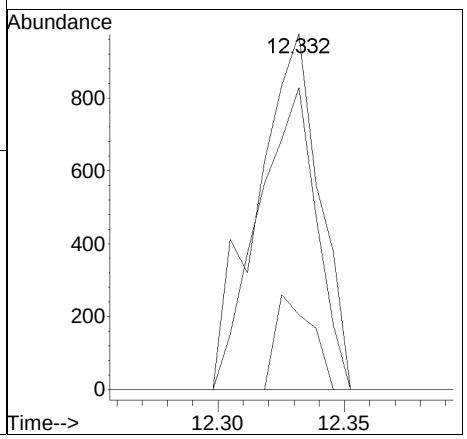


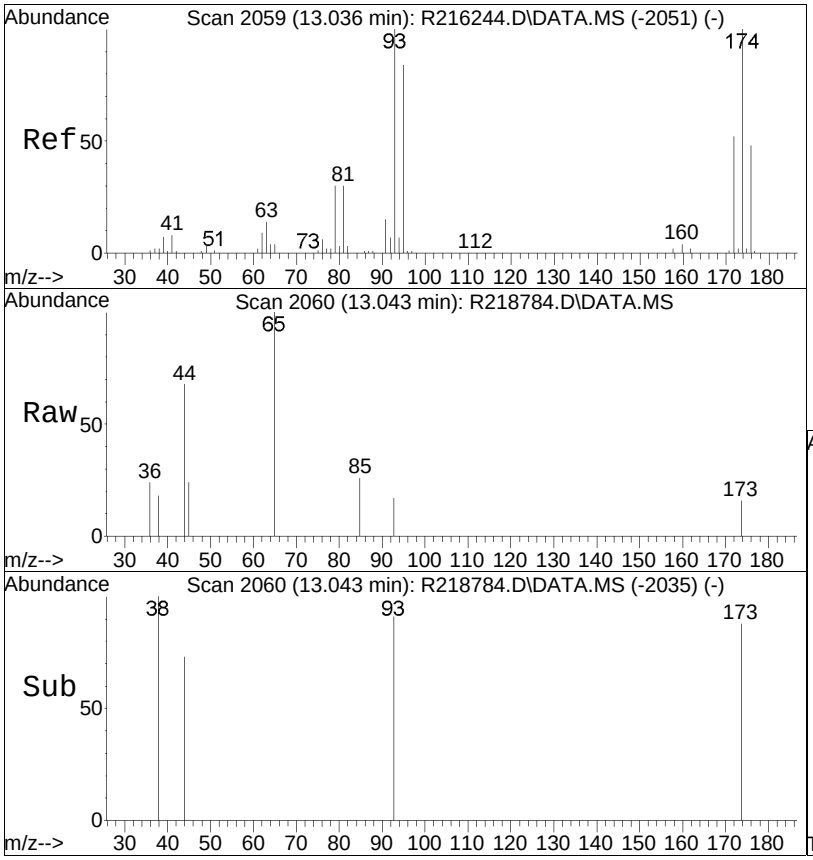


#52
carbon tetrachloride
Concen: 0.06 ppbV
RT: 12.332 min Scan# 1963
Delta R.T. 0.007 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion:117 Resp: 1676

Ion	Ratio	Lower	Upper
117	100		
119	85.0	76.8	115.2
82	21.0	19.4	29.0

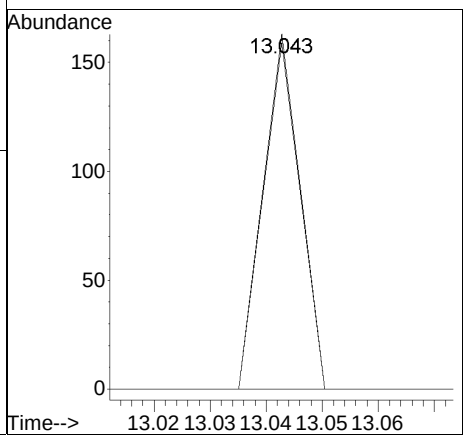


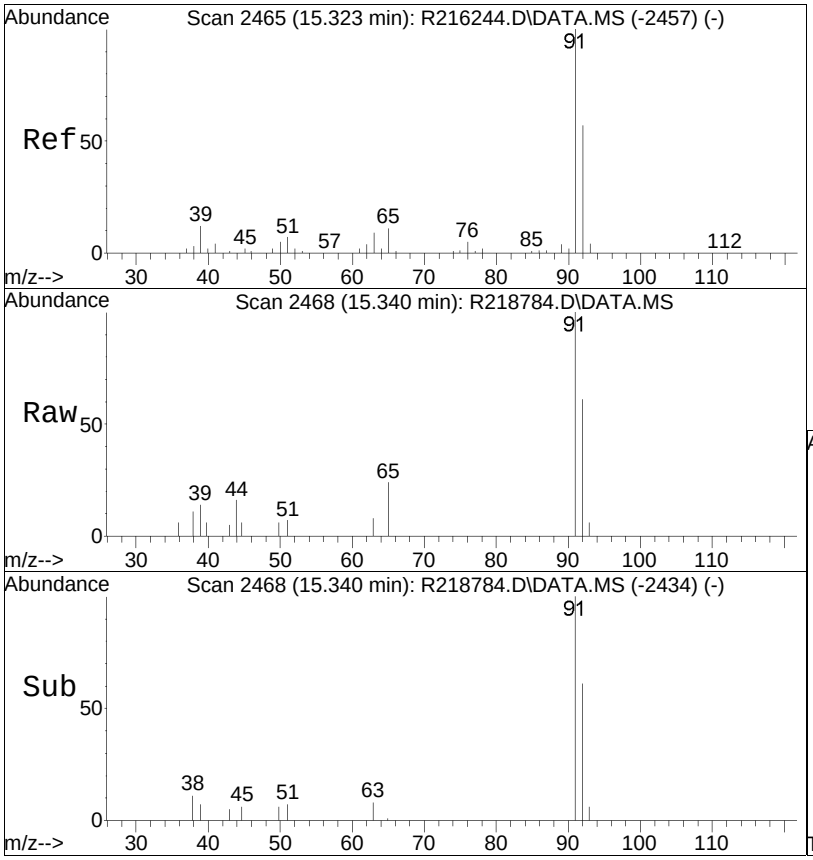


#55
dibromomethane
Concen: 0.01 ppbV
RT: 13.043 min Scan# 2060
Delta R.T. -0.008 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion: 93 Resp: 75

Ion	Ratio	Lower	Upper
93	100		
174	97.5	79.0	118.4
95	0.0	68.4	102.6#

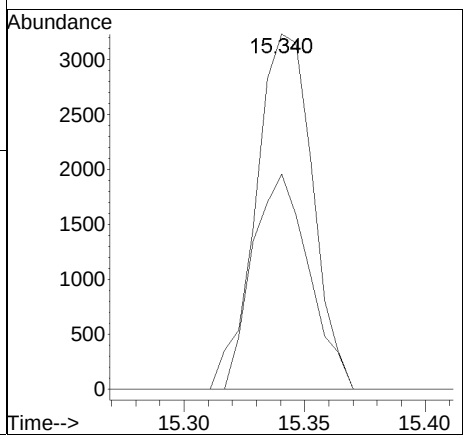


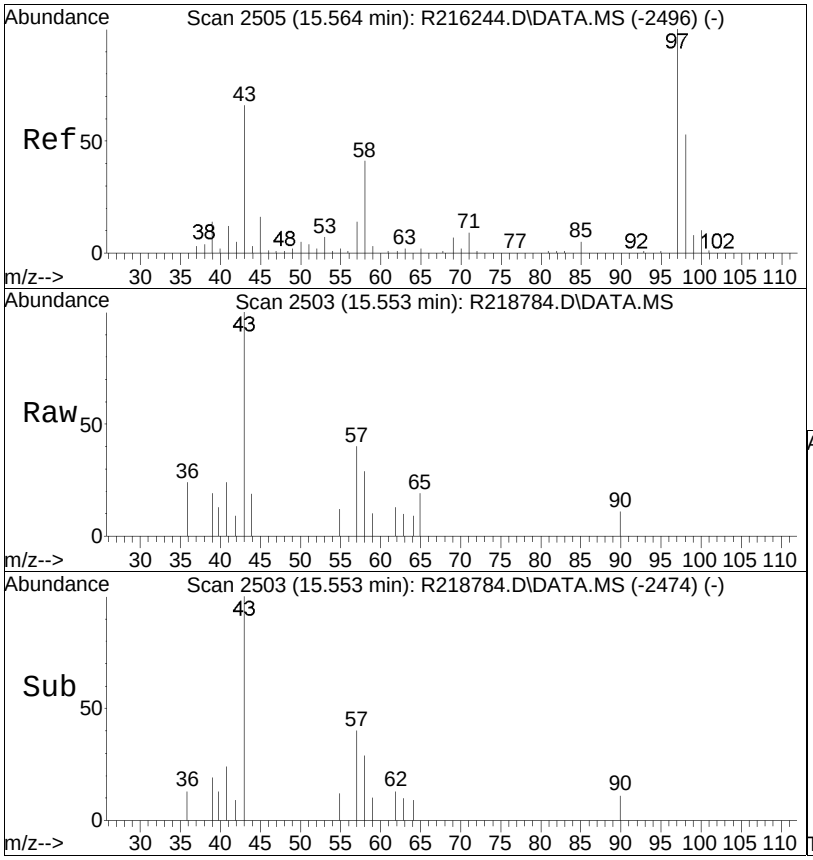


#69
toluene
Concen: 0.16 ppbV
RT: 15.340 min Scan# 2468
Delta R.T. -0.000 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion: 91 Resp: 5277

Ion	Ratio	Lower	Upper
91	100		
92	60.6	47.0	70.4

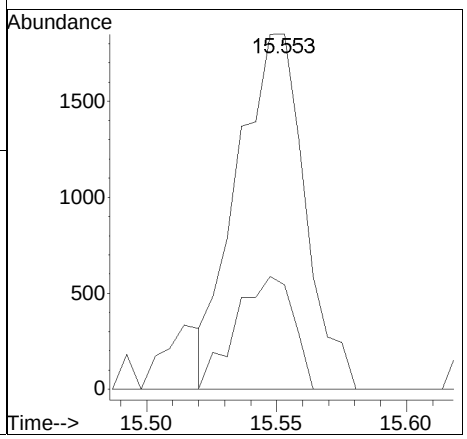


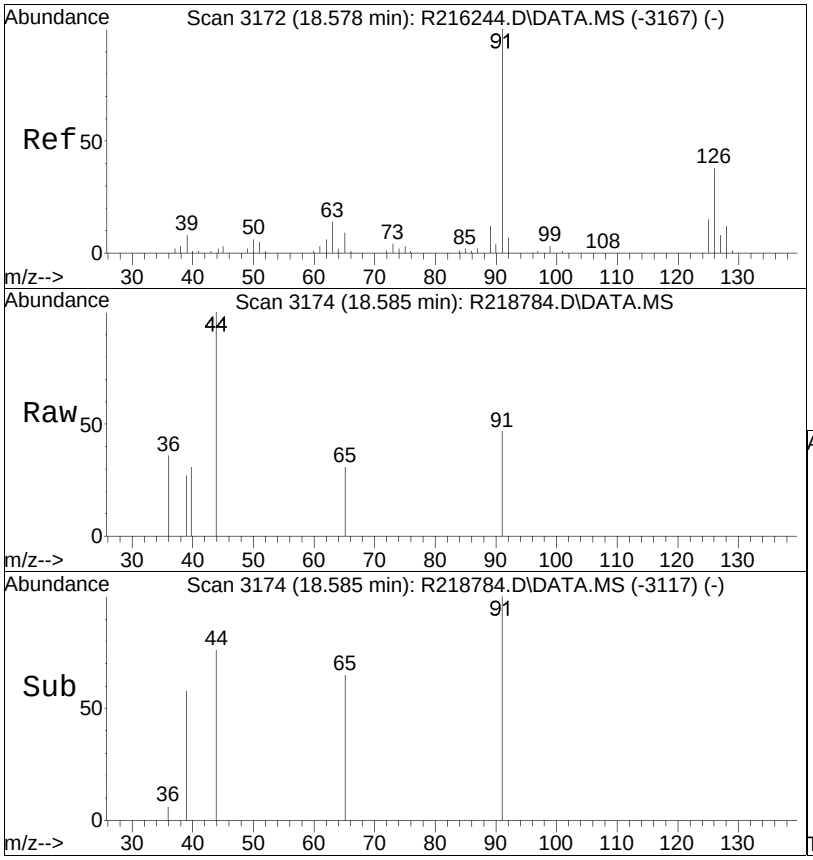


#73
2-hexanone
Concen: 0.21 ppbV m
RT: 15.553 min Scan# 2503
Delta R.T. -0.022 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion: 43 Resp: 3355

Ion	Ratio	Lower	Upper
43	100		
58	29.4	43.5	65.3#
100	0.0	8.5	12.7#

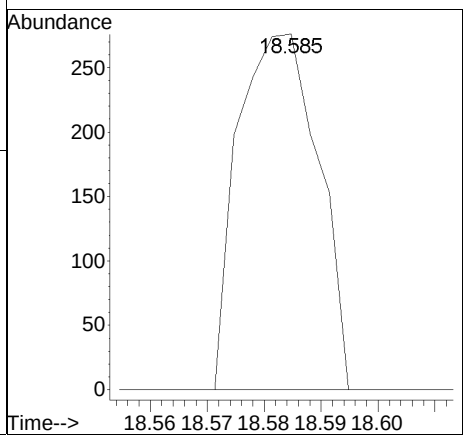


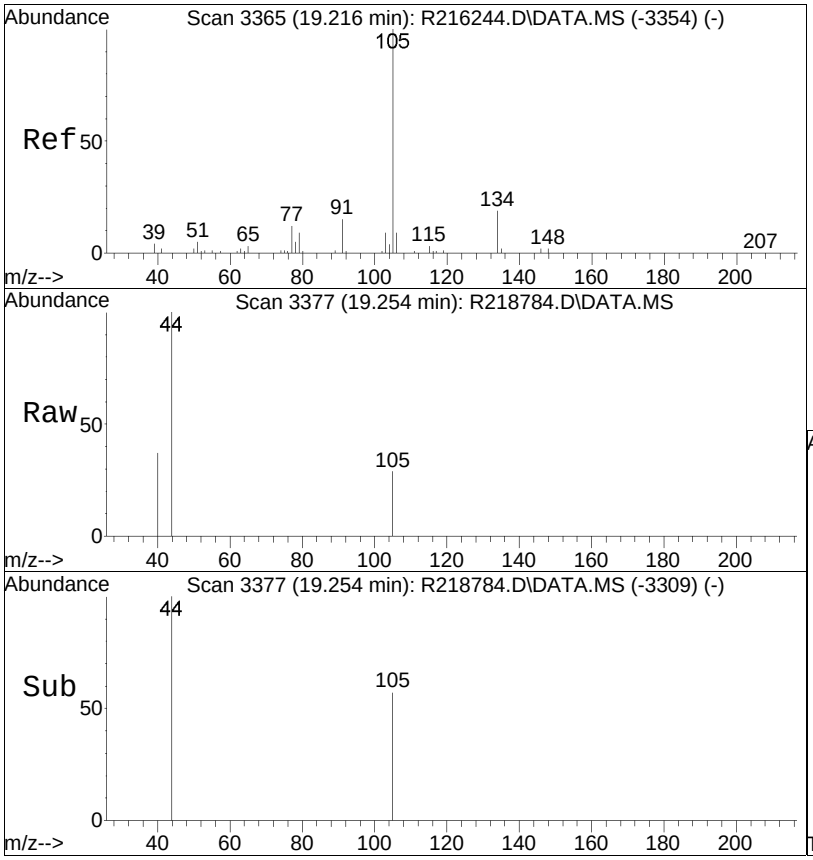


#96
4-chlorotoluene
Concen: 0.01 ppbV
RT: 18.585 min Scan# 3174
Delta R.T. -0.010 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion: 91 Resp: 270

Ion	Ratio	Lower	Upper
91	100		
126	0.0	28.2	42.2#

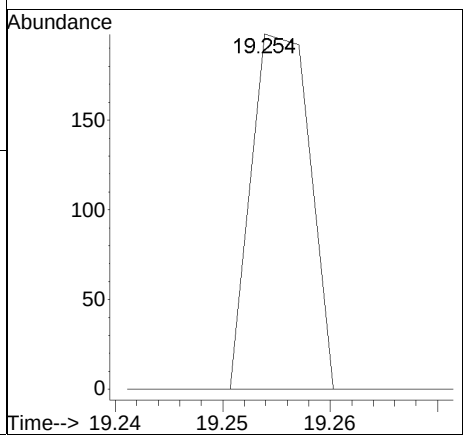


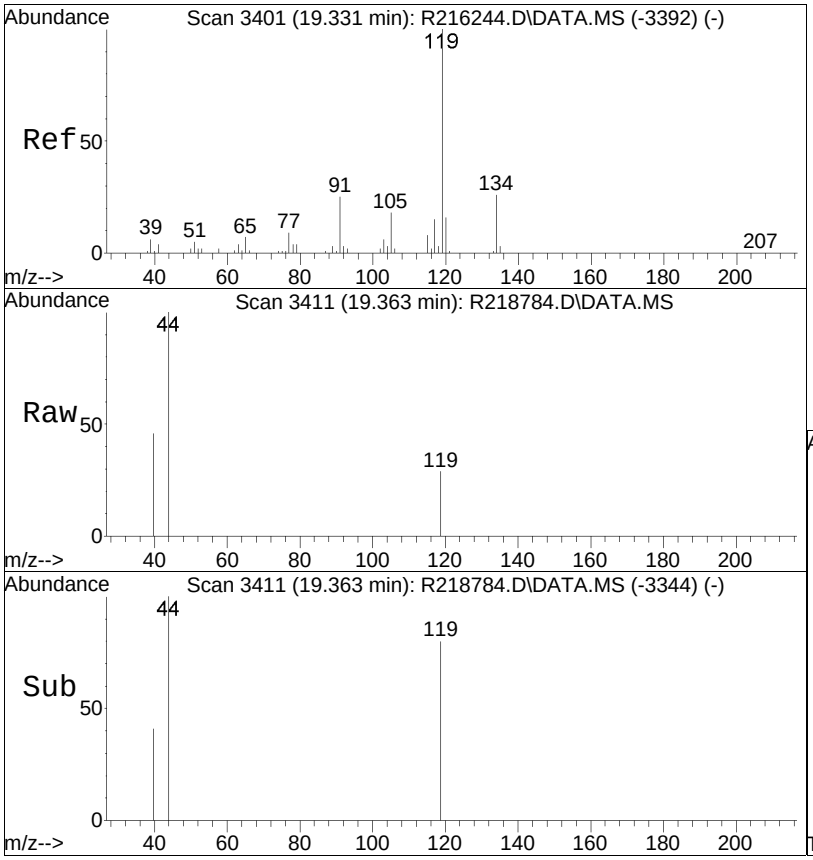


#105
sec-butylbenzene
Concen: 0.00 ppbV
RT: 19.254 min Scan# 3377
Delta R.T. 0.019 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion:105 Resp: 75

Ion	Ratio	Lower	Upper
105	100		
134	0.0	15.1	22.7#

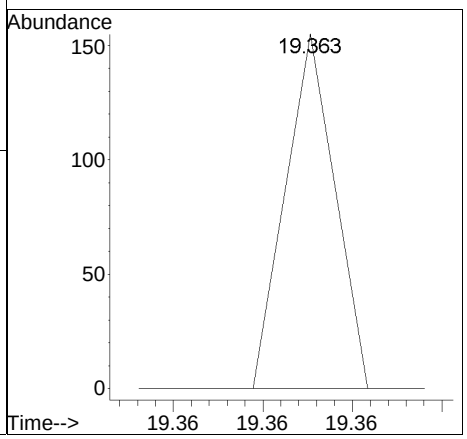


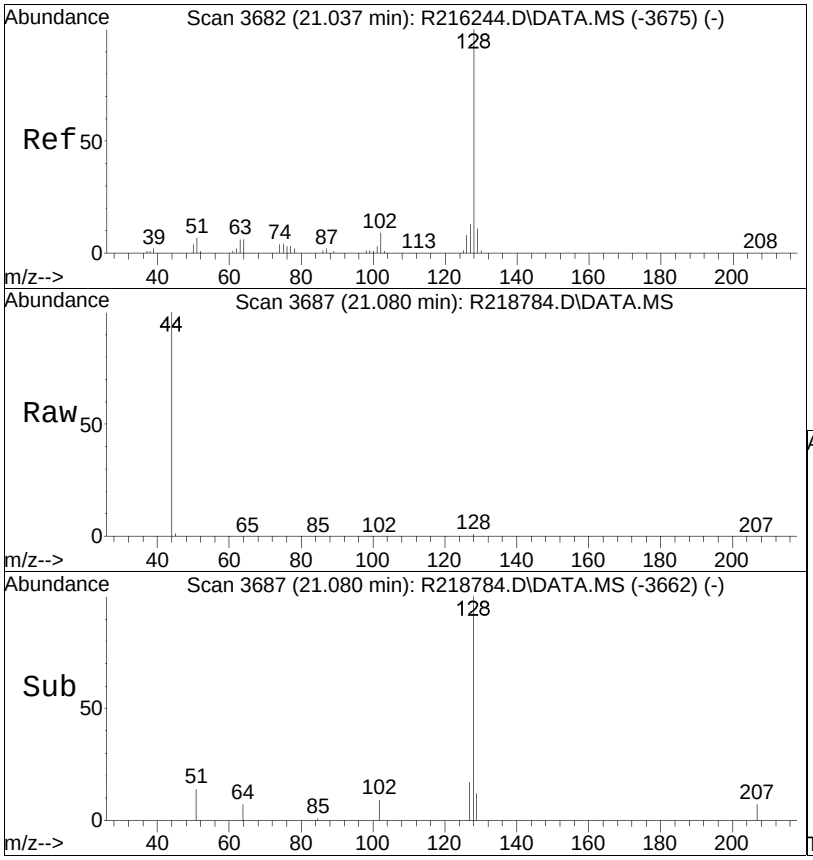


#107
p-isopropyltoluene
Concen: 0.00 ppbV
RT: 19.363 min Scan# 3411
Delta R.T. 0.016 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion:119 Resp: 30

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

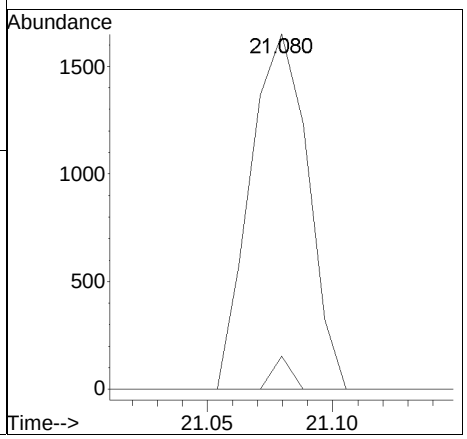




#117
naphthalene
Concen: 0.07 ppbV
RT: 21.080 min Scan# 3687
Delta R.T. 0.017 min
Lab File: R218784.D
Acq: 6 Jan 2012 3:26

Tgt Ion:128 Resp: 2647

Ion	Ratio	Lower	Upper
128	100		
102	9.3	6.4	9.6

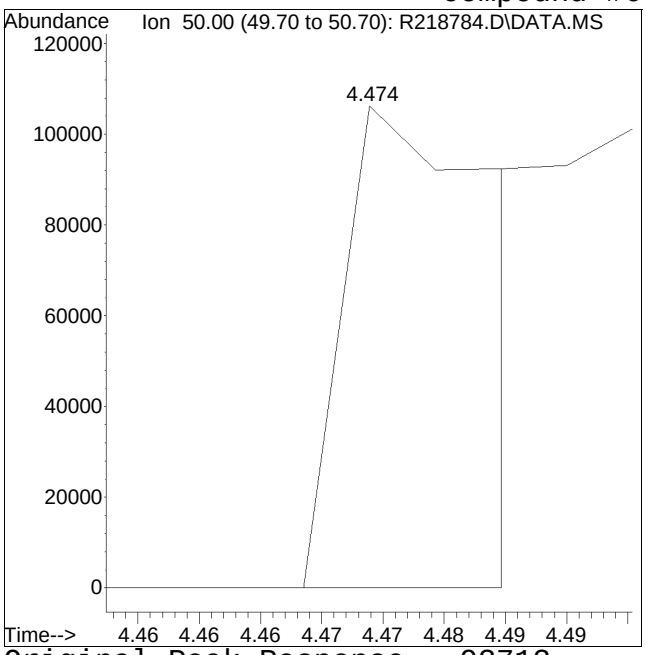


Manual Integration/Negative Proof Report

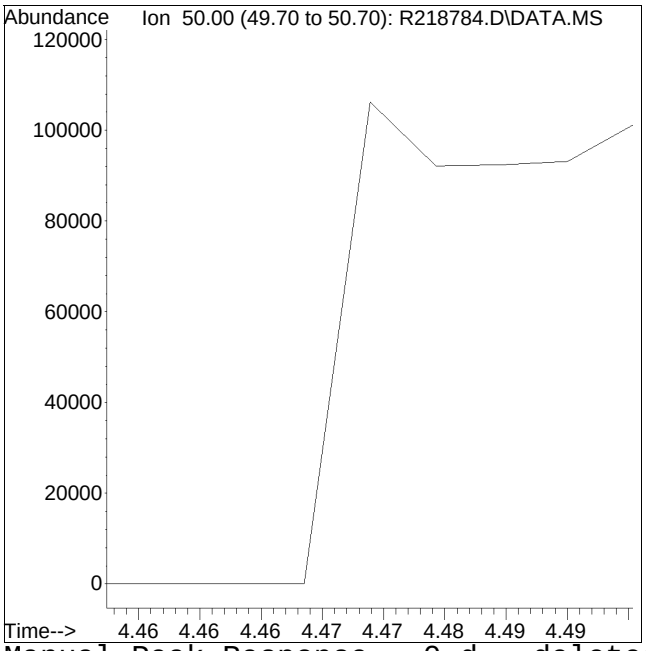
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #6: chloromethane



Original Peak Response = 93713



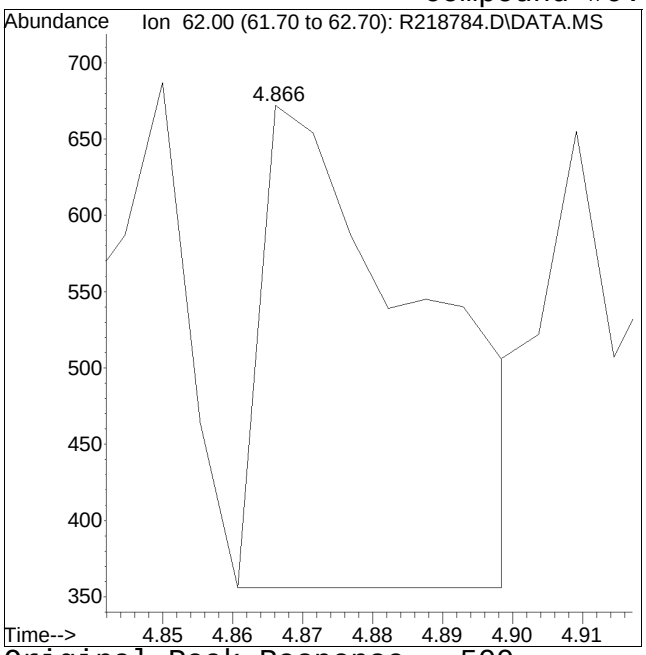
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

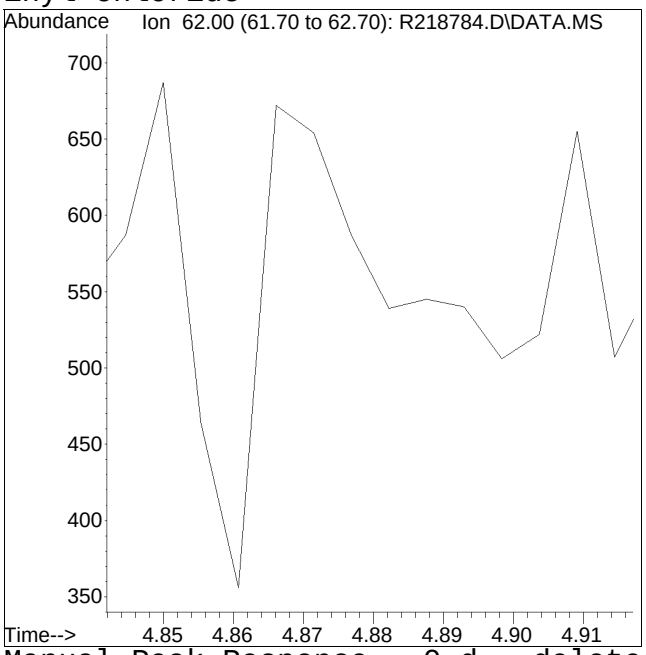
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #9: vinyl chloride



Original Peak Response = 500



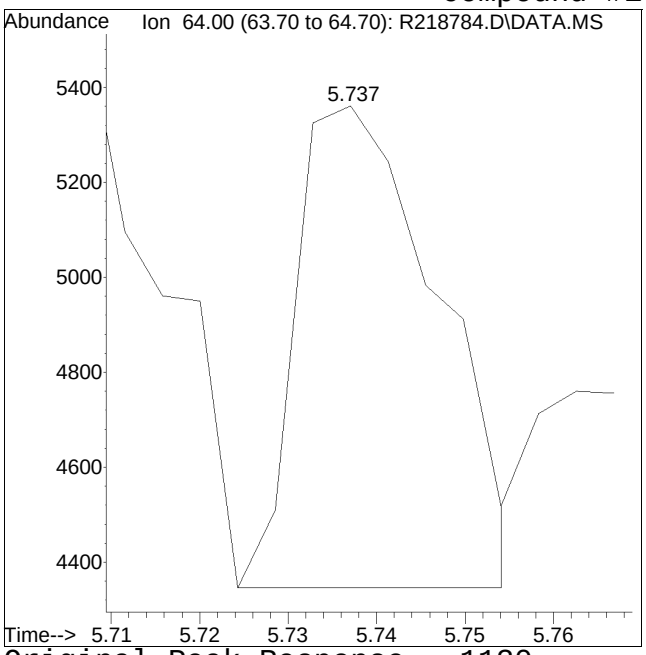
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

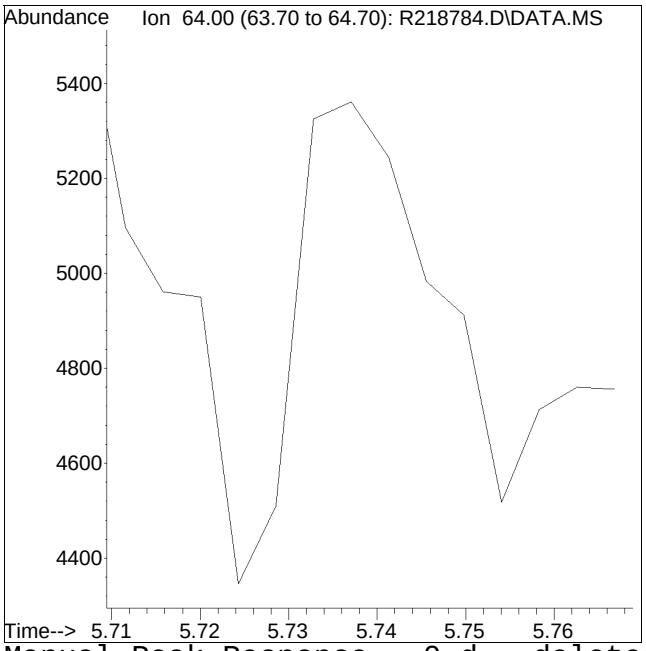
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #14: chloroethane



Original Peak Response = 1130



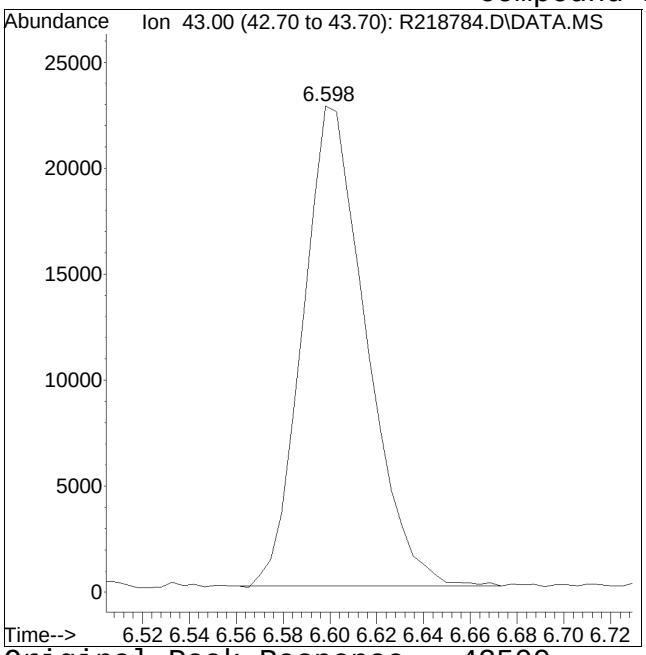
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

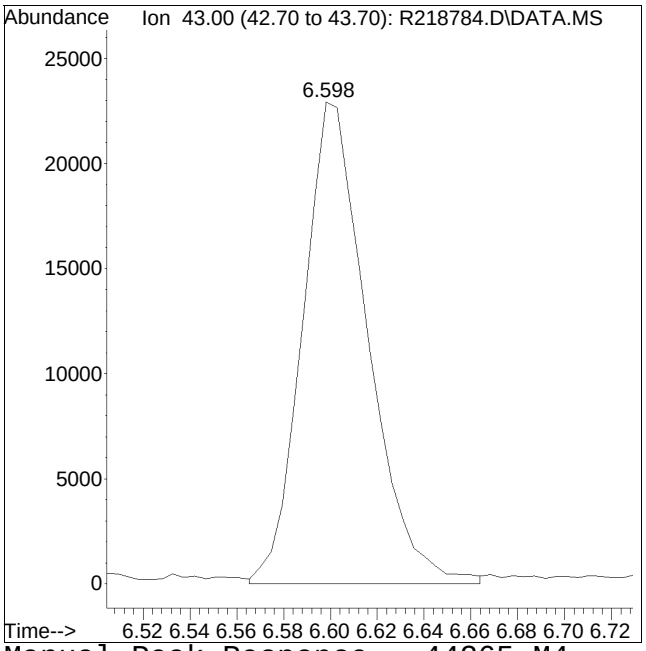
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #19: acetone



Original Peak Response = 42500



Manual Peak Response = 44265 M4

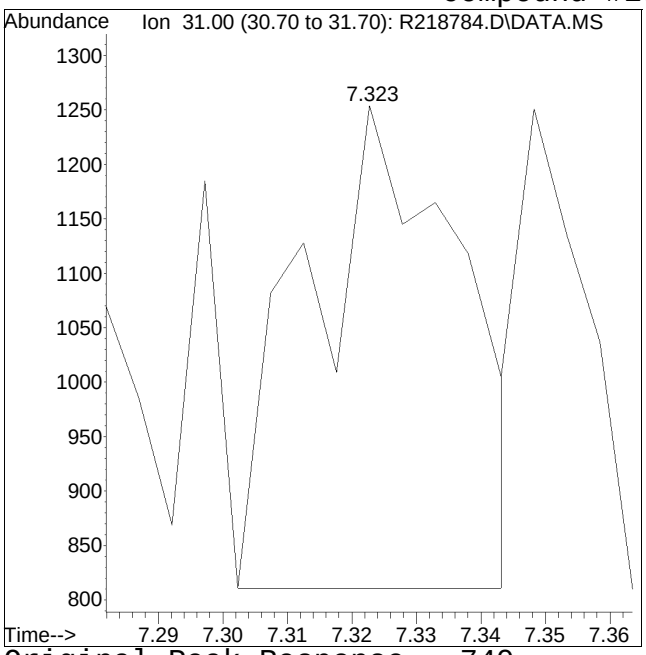
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

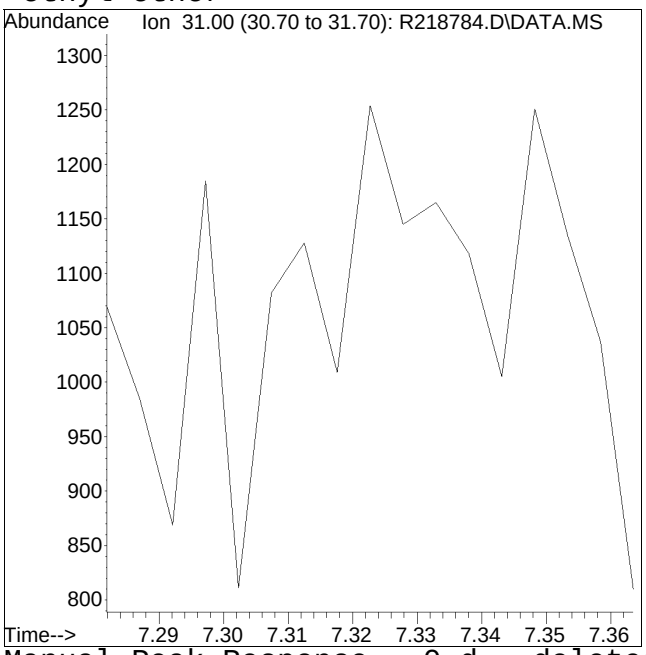
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #25: ethyl ether



Original Peak Response = 740



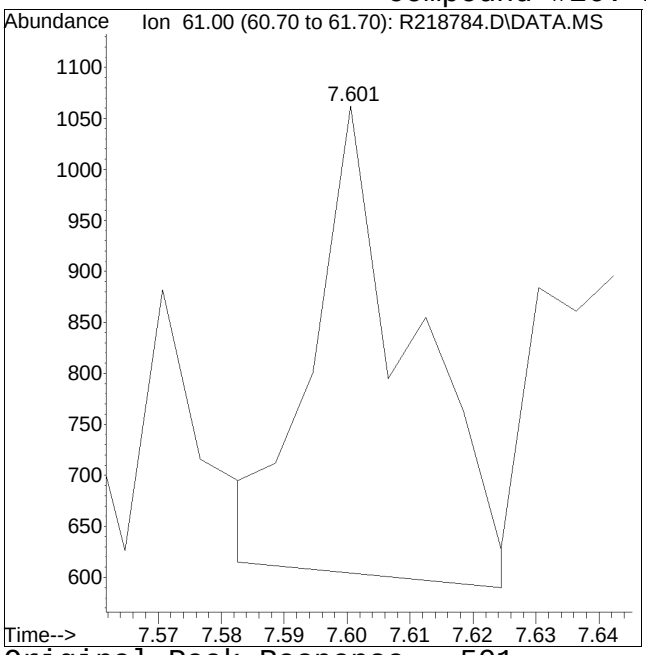
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

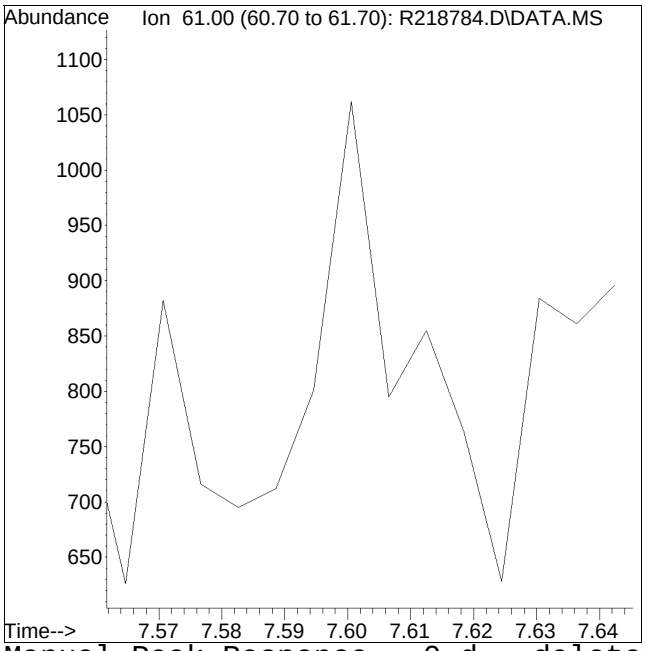
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #26: 1,1-dichloroethene



Original Peak Response = 501



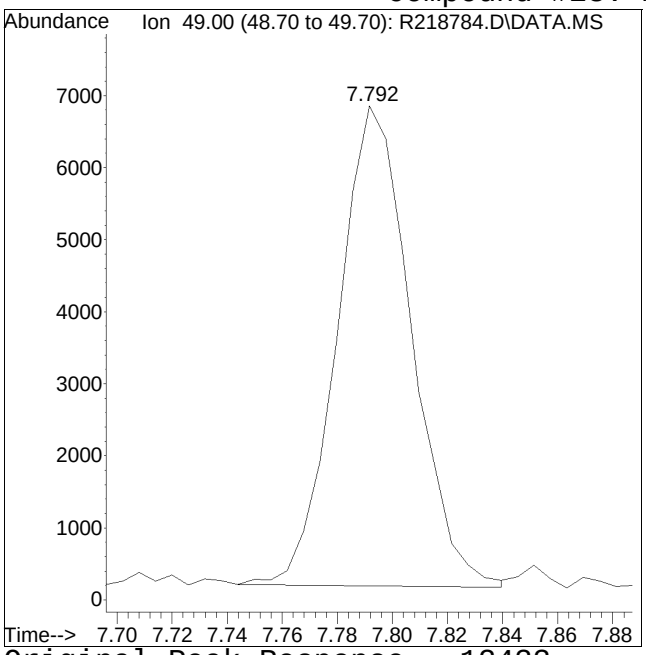
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

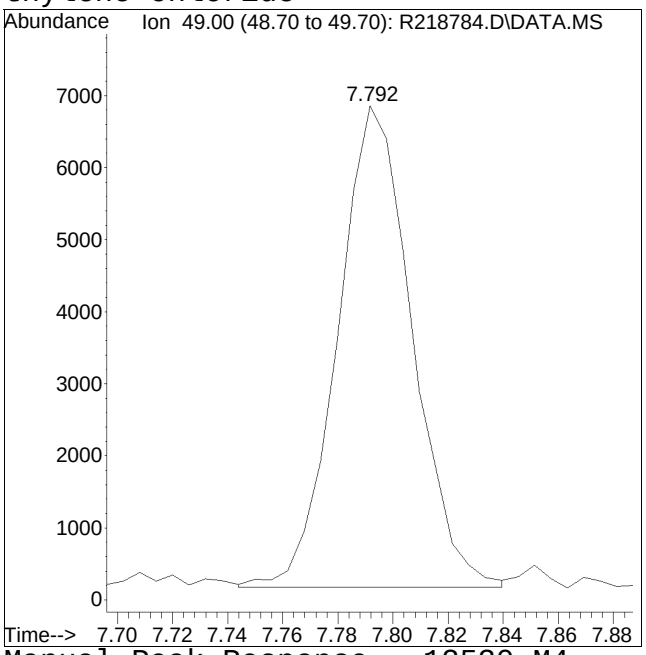
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #28: methylene chloride



Original Peak Response = 12433



Manual Peak Response = 12530 M4

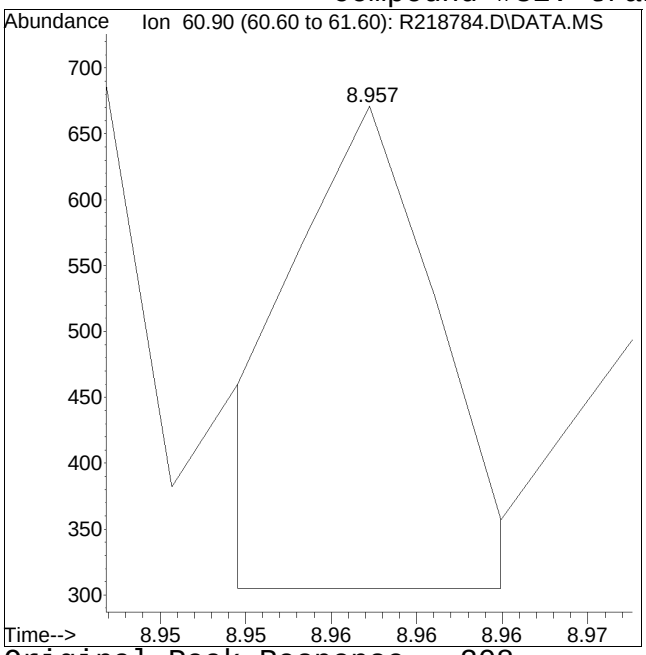
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

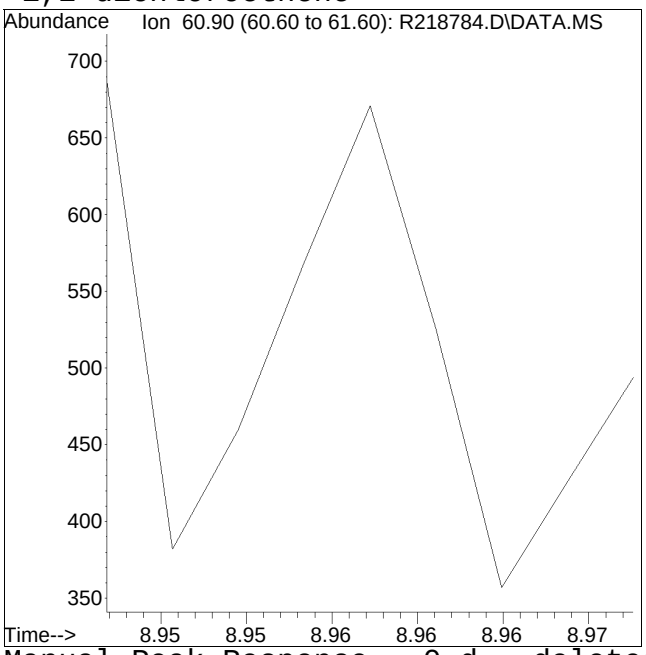
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #32: trans-1,2-dichloroethene



Original Peak Response = 208



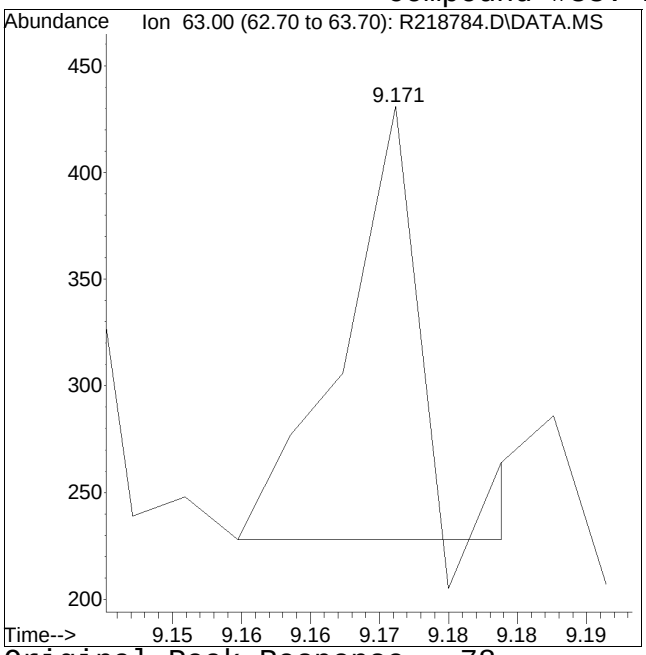
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

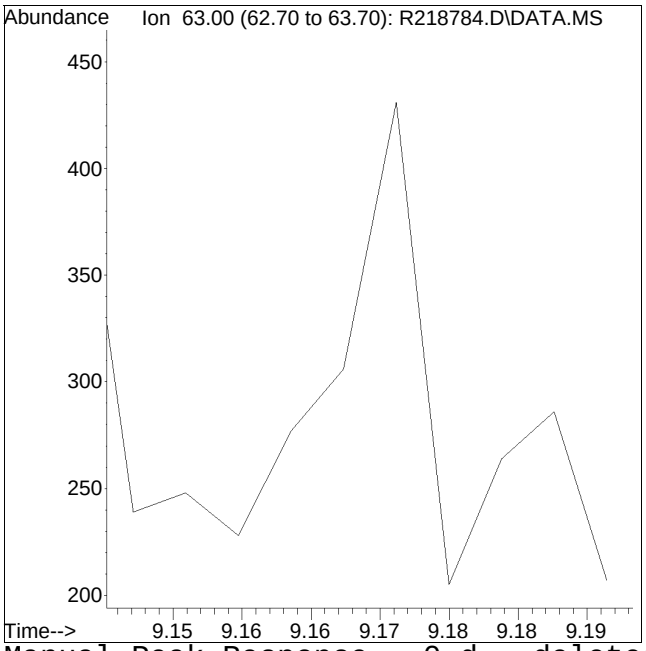
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #33: 1,1-dichloroethane



Original Peak Response = 78



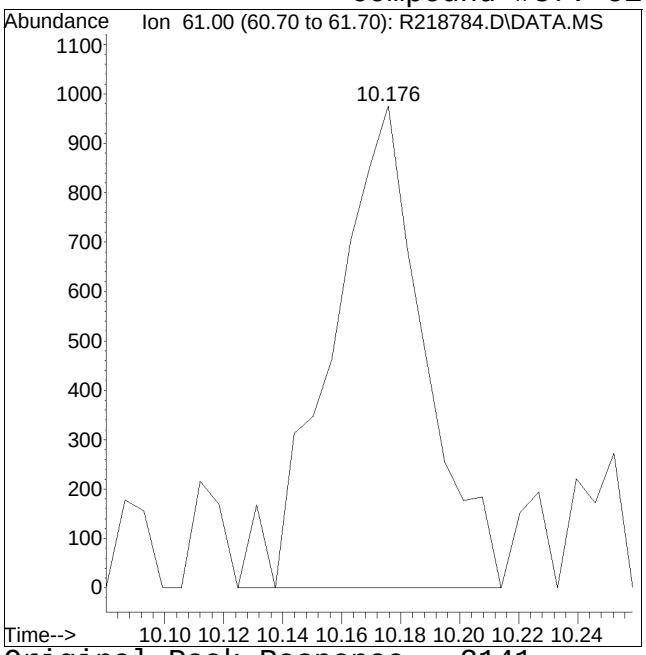
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

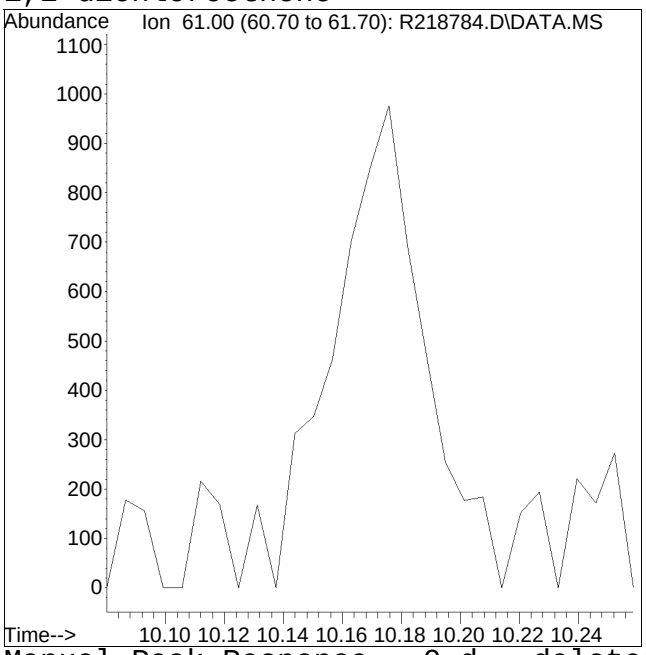
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #37: cis-1,2-dichloroethene



Original Peak Response = 2141



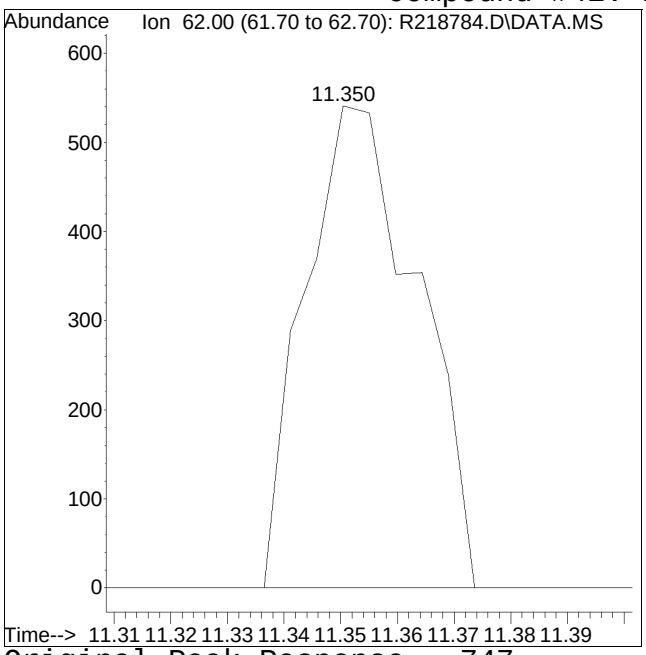
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

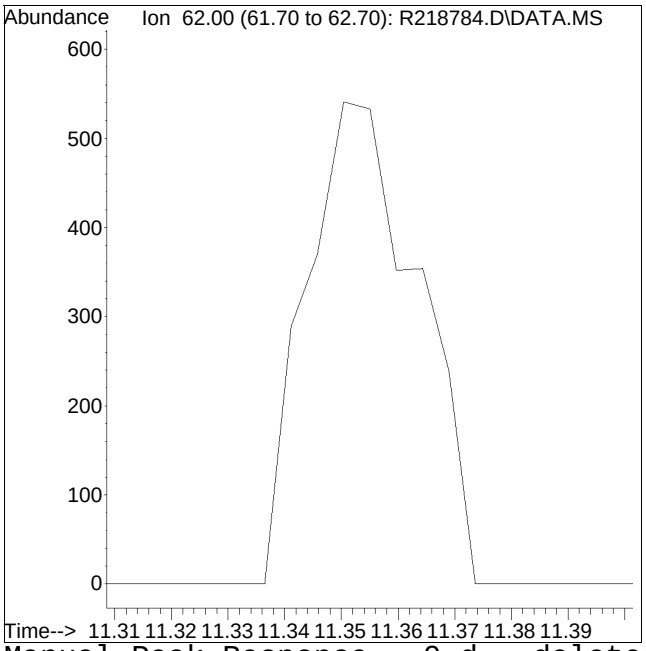
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #42: 1,2-dichloroethane



Original Peak Response = 747



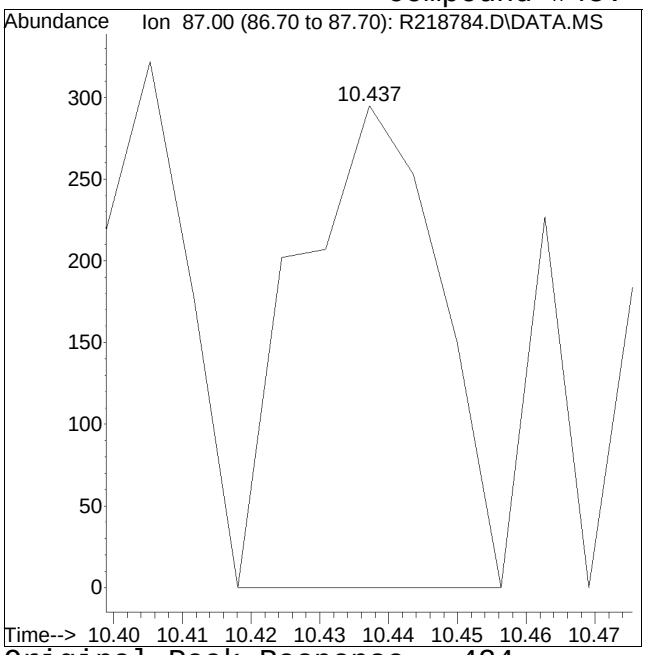
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

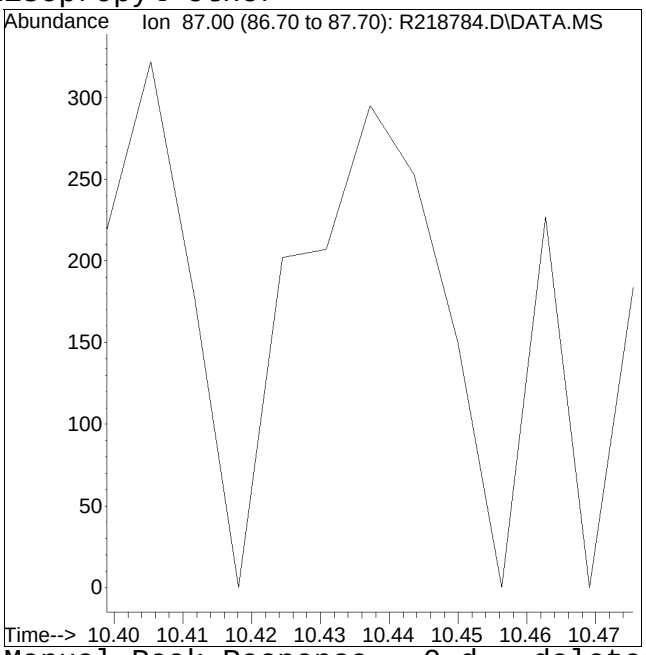
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #45: diisopropyl ether



Original Peak Response = 424



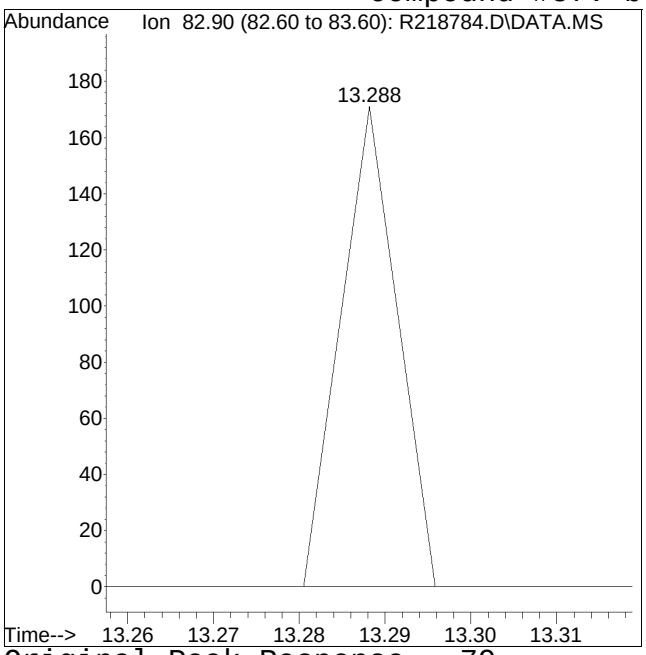
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

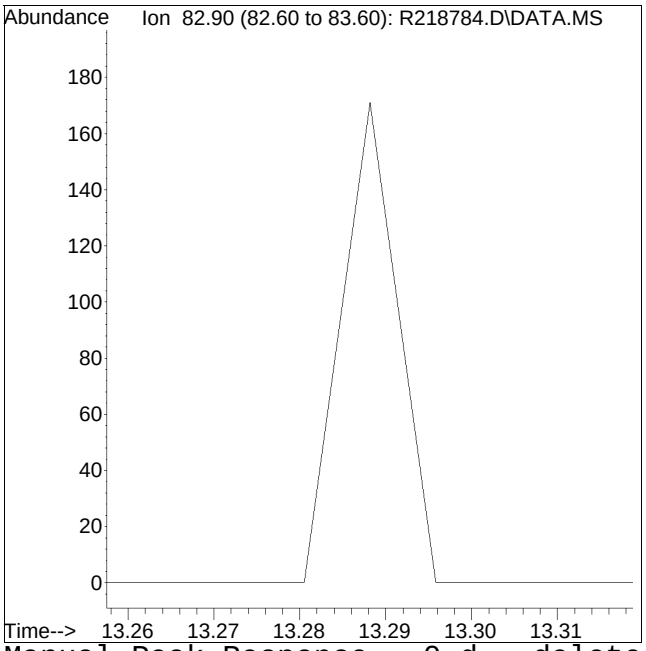
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #57: bromodichloromethane



Original Peak Response = 79



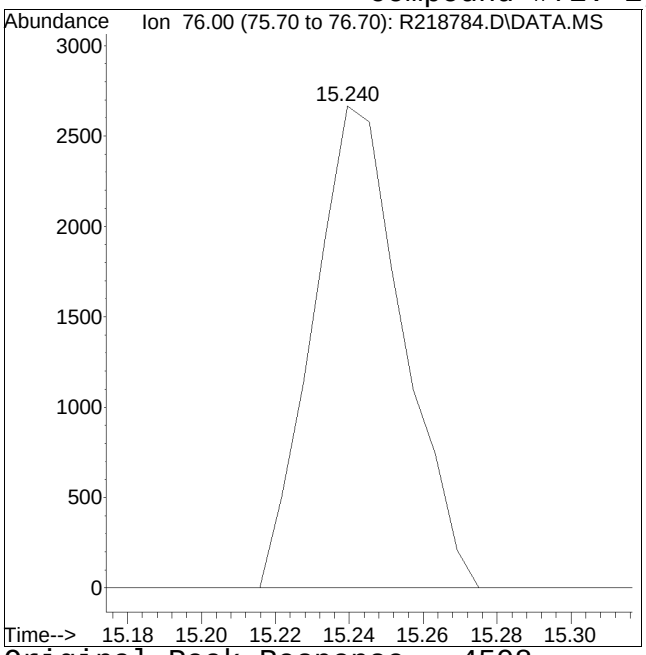
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

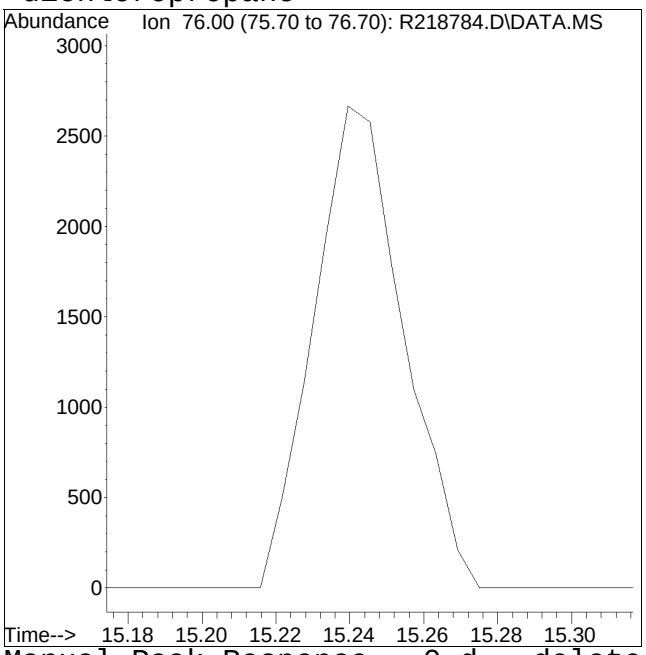
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 4508



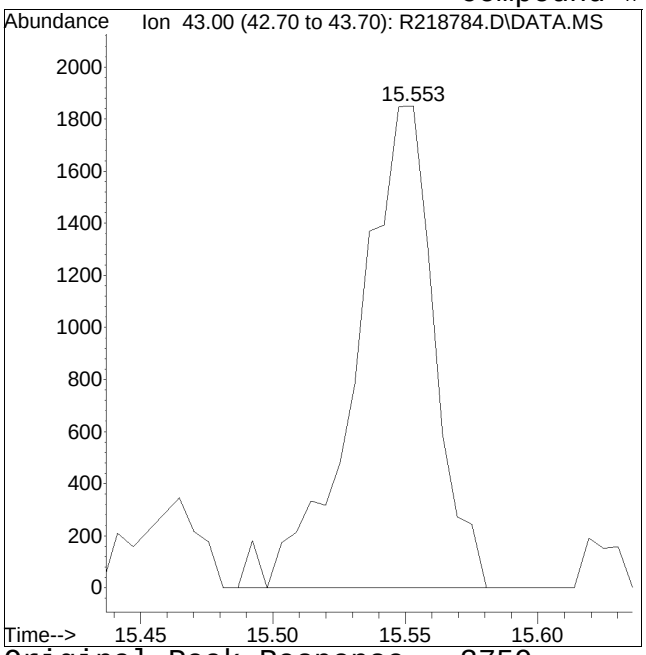
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

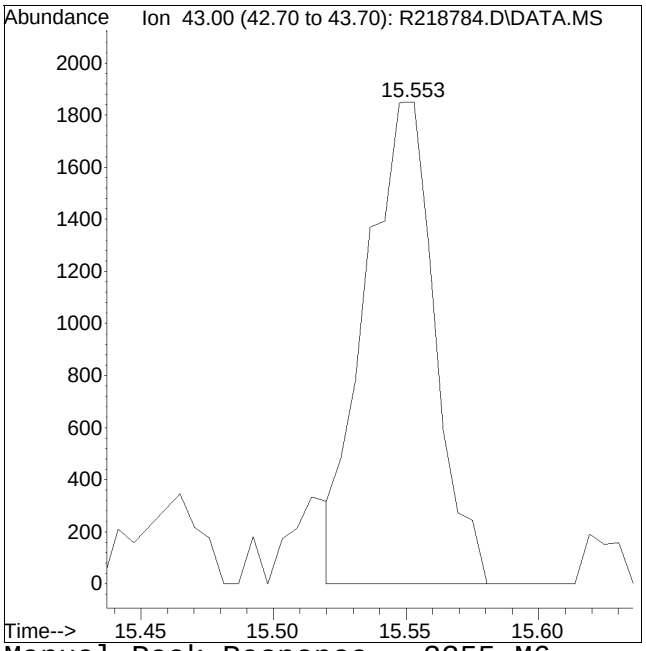
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #73: 2-hexanone



Original Peak Response = 3759



Manual Peak Response = 3355 M6

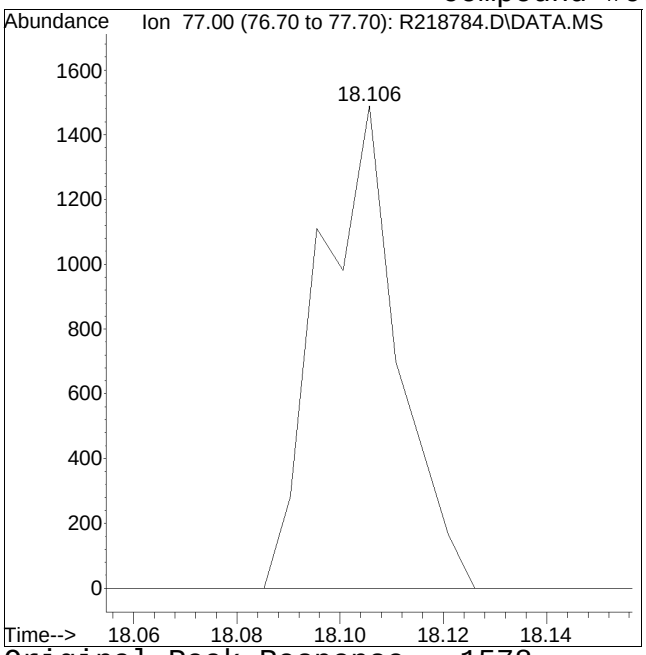
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

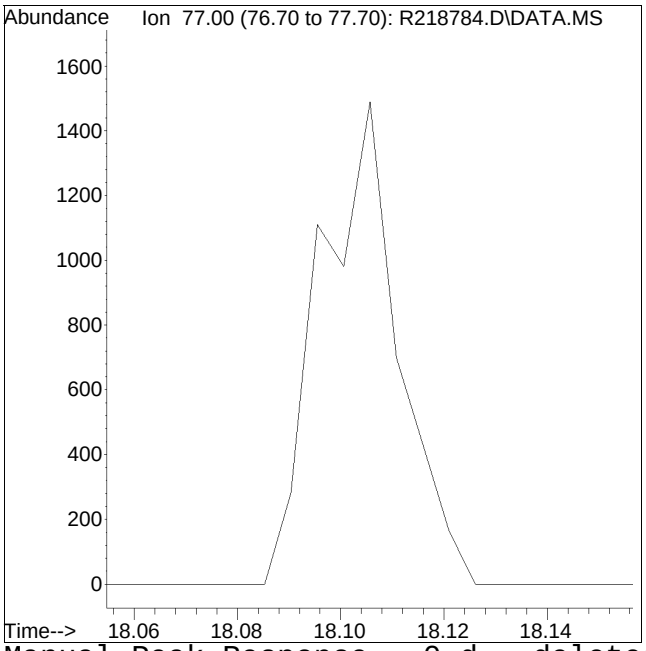
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218784.D
Date Inj'd : 1/6/2012 3:26
Sample : L1200006-05,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #93: bromobenzene



Original Peak Response = 1578



Manual Peak Response = 0 d - deleted

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218785.D
Acq On : 6 Jan 2012 4:02
Operator : AIRPIANO2:MB
Sample : L1200006-06,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 16 12:09:09 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	135711	10.000	ppbV	0.00
Standard Area = 151117			Recovery =		89.81%	
43) 1,4-difluorobenzene	12.549	114	412859	10.000	ppbV	0.00
Standard Area = 485506			Recovery =		85.04%	
68) chlorobenzene-D5	16.908	54	77857	10.000	ppbV	0.00
Standard Area = 90670			Recovery =		85.87%	

System Monitoring Compounds

Target Compounds						Qvalue
5) dichlorodifluoromethane	4.329	85	16349M2	0.488	ppbV	
6) chloromethane	4.565	50	1377M6	0.132	ppbV	
9) vinyl chloride	0.000		0	N.D.		
13) bromomethane	5.486		0	N.D.		
14) chloroethane	0.000		0	N.D.		
19) acetone	6.607	43	18206M4	1.299	ppbV	
21) trichlorofluoromethane	6.780	101	6845	0.199	ppbV #	80
25) ethyl ether	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	7.779		0	N.D.		
30) carbon disulfide	8.114		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.702	43	1494M4	0.086	ppbV	
37) cis-1,2-dichloroethene	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
45) diisopropyl ether	0.000		0	N.D.		
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.318	117	1716	0.068	ppbV #	74
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	13.043	93	72	0.005	ppbV #	3
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218785.D
Acq On : 6 Jan 2012 4:02
Operator : AIRPIANO2:MB
Sample : L1200006-06,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 16 12:09:09 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

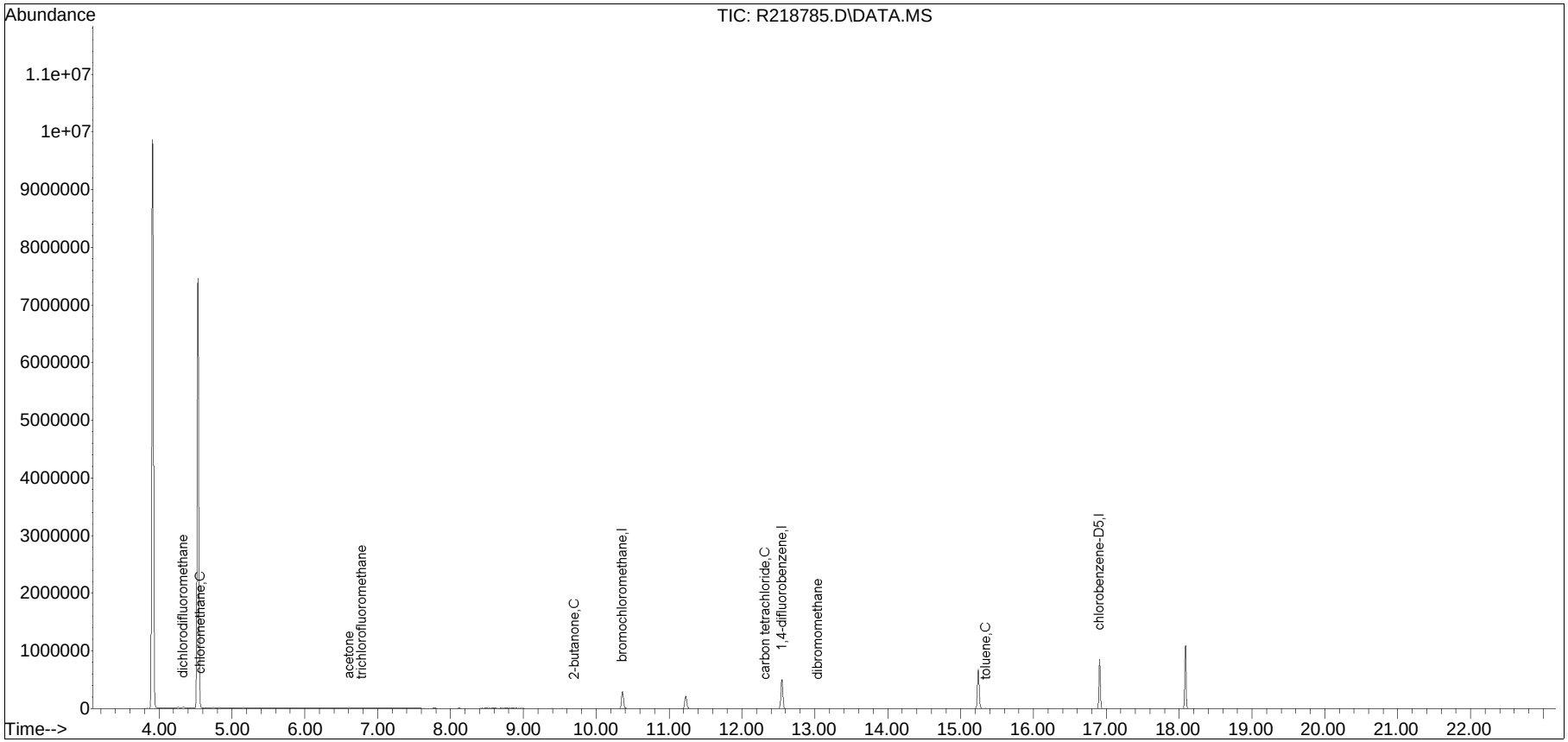
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 4-methyl-2-pentanone	14.412		0	N.D.		
66) trans-1,3-dichloropropene	0.000		0	N.D.		
67) 1,1,2-trichloroethane	0.000		0	N.D.		
69) toluene	15.347	91	3143	0.100	ppbV	99
72) 1,3-dichloropropane	0.000		0	N.D.	d	
73) 2-hexanone	15.630		0	N.D.		
75) dibromochloromethane	0.000		0	N.D.		
76) 1,2-dibromoethane	0.000		0	N.D.		
80) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81) chlorobenzene	0.000		0	N.D.		
82) ethylbenzene	17.243		0	N.D.		
84) m+p-xylene	17.365		0	N.D.		
85) bromoform	0.000		0	N.D.		
86) styrene	0.000		0	N.D.		
87) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88) o-xylene	17.741		0	N.D.		
89) 1,2,3-trichloropropane	0.000		0	N.D.		
92) isopropylbenzene	0.000		0	N.D.	d	
93) bromobenzene	0.000		0	N.D.		
94) 2-chlorotoluene	0.000		0	N.D.		
95) n-propylbenzene	0.000		0	N.D.		
96) 4-chlorotoluene	0.000		0	N.D.		
98) 1,3,5-trimethylbenzene	0.000		0	N.D.	d	
99) tert-butylbenzene	0.000		0	N.D.		
100) 1,2,4-trimethylbenzene	19.019		0	N.D.		
103) 1,3-dichlorobenzene	0.000		0	N.D.		
104) 1,4-dichlorobenzene	0.000		0	N.D.		
105) sec-butylbenzene	0.000		0	N.D.		
107) p-isopropyltoluene	0.000		0	N.D.		
108) 1,2-dichlorobenzene	0.000		0	N.D.		
109) n-butylbenzene	0.000		0	N.D.		
112) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116) 1,2,4-trichlorobenzene	0.000		0	N.D.		
117) naphthalene	21.035		0	N.D.		
118) 1,2,3-trichlorobenzene	0.000		0	N.D.		
120) hexachlorobutadiene	0.000		0	N.D.		

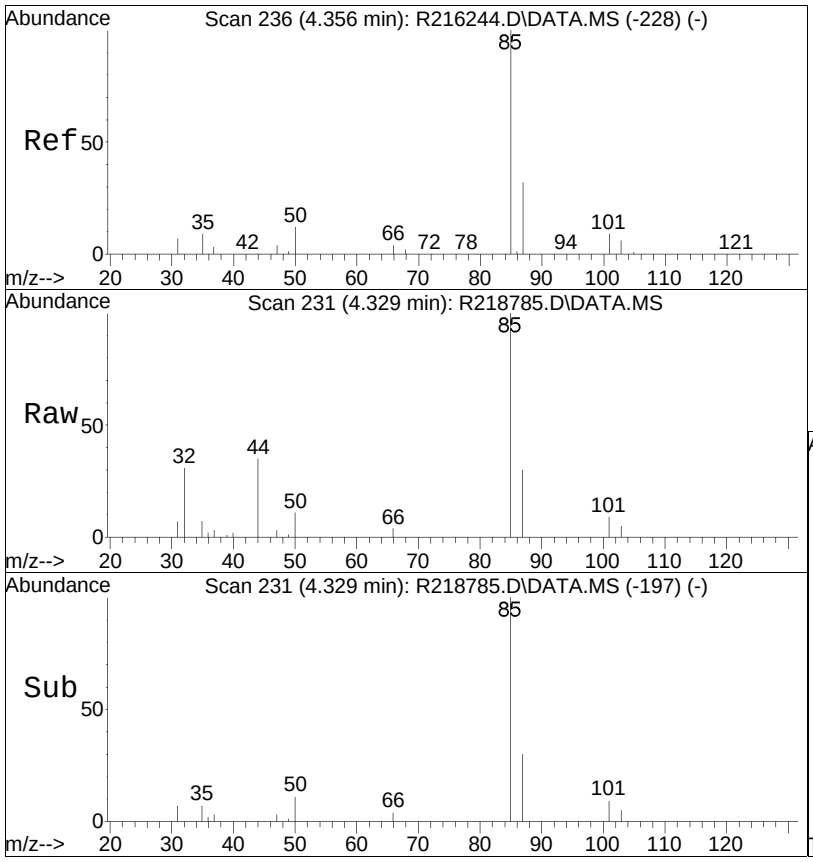
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218785.D
Acq On : 6 Jan 2012 4:02
Operator : AIRPIANO2:MB
Sample : L1200006-06,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 16 12:09:09 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

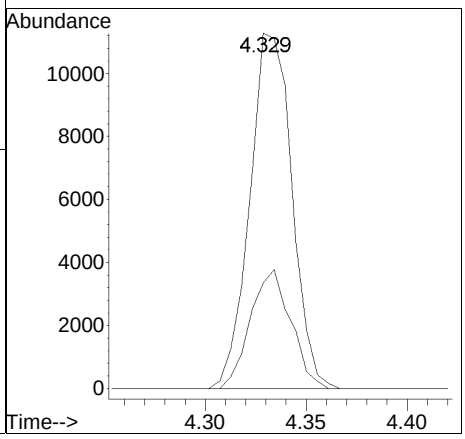


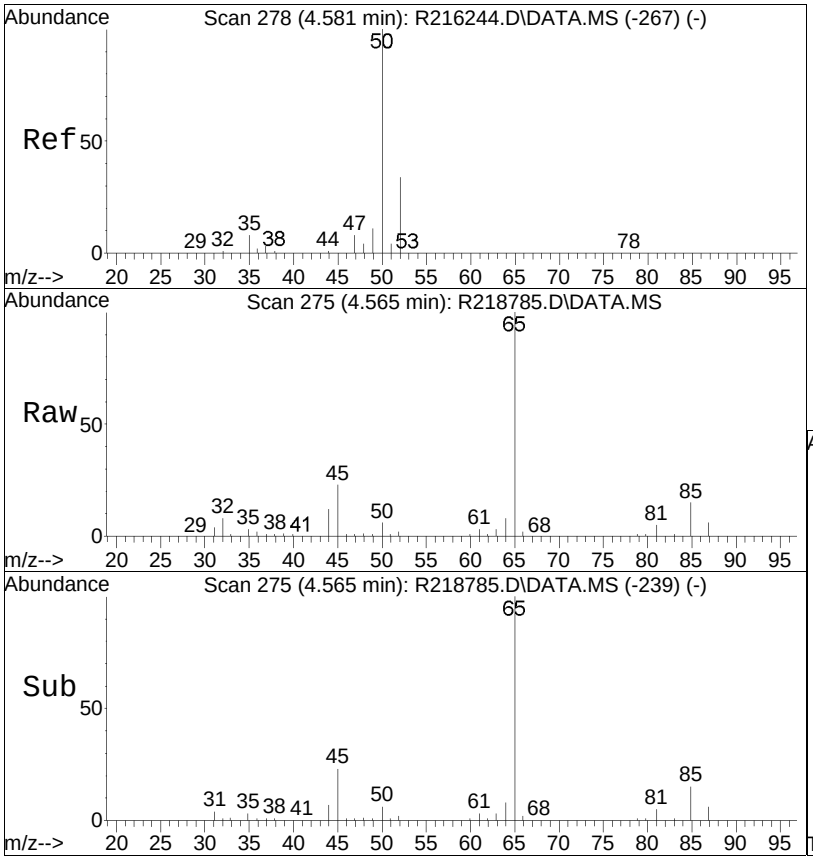


#5
dichlorodifluoromethane
Concen: 0.49 ppbV m
RT: 4.329 min Scan# 231
Delta R.T. -0.016 min
Lab File: R218785.D
Acq: 6 Jan 2012 4:02

Tgt Ion: 85 Resp: 16349

Ion	Ratio	Lower	Upper
85	100		
87	29.7	26.4	39.6

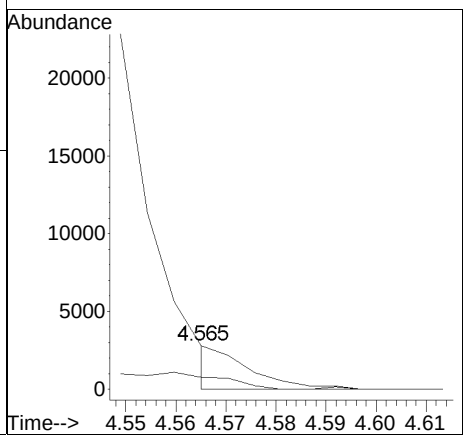


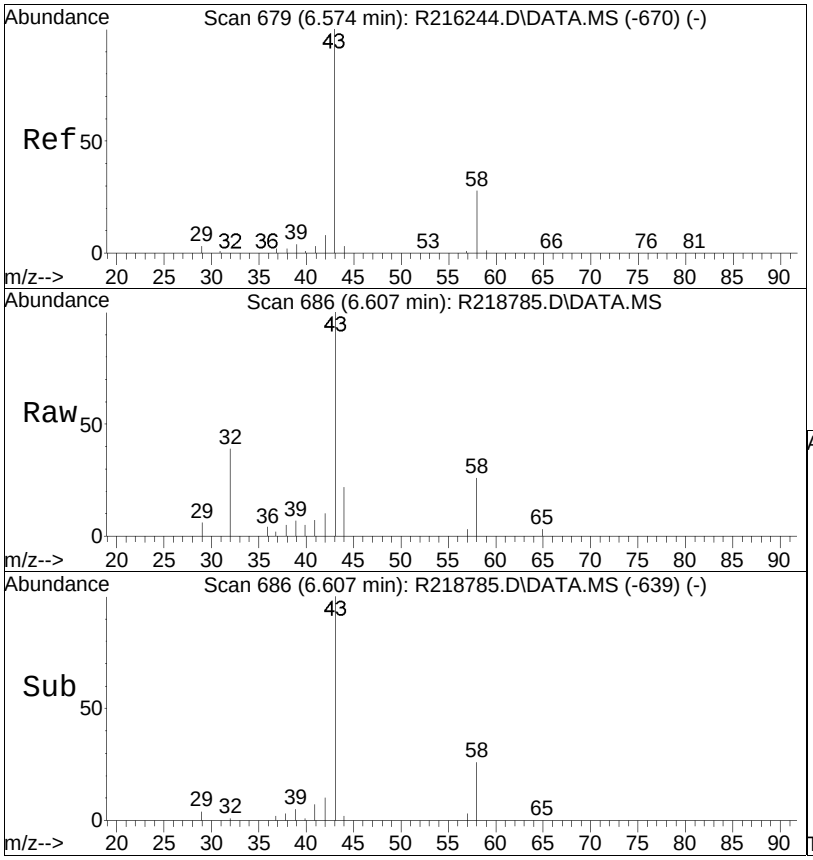


#6
chloromethane
Concen: 0.13 ppbV m
RT: 4.565 min Scan# 275
Delta R.T. -0.005 min
Lab File: R218785.D
Acq: 6 Jan 2012 4:02

Tgt Ion: 50 Resp: 1377

Ion	Ratio	Lower	Upper
50	100		
52	27.8	24.4	36.6

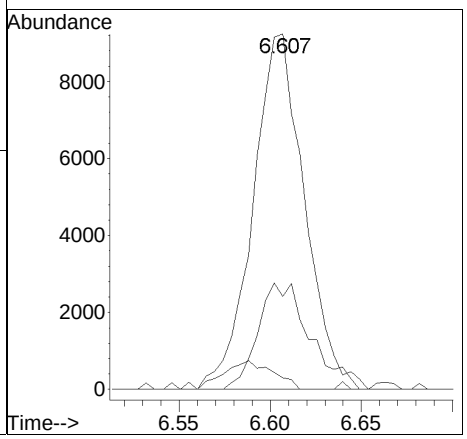


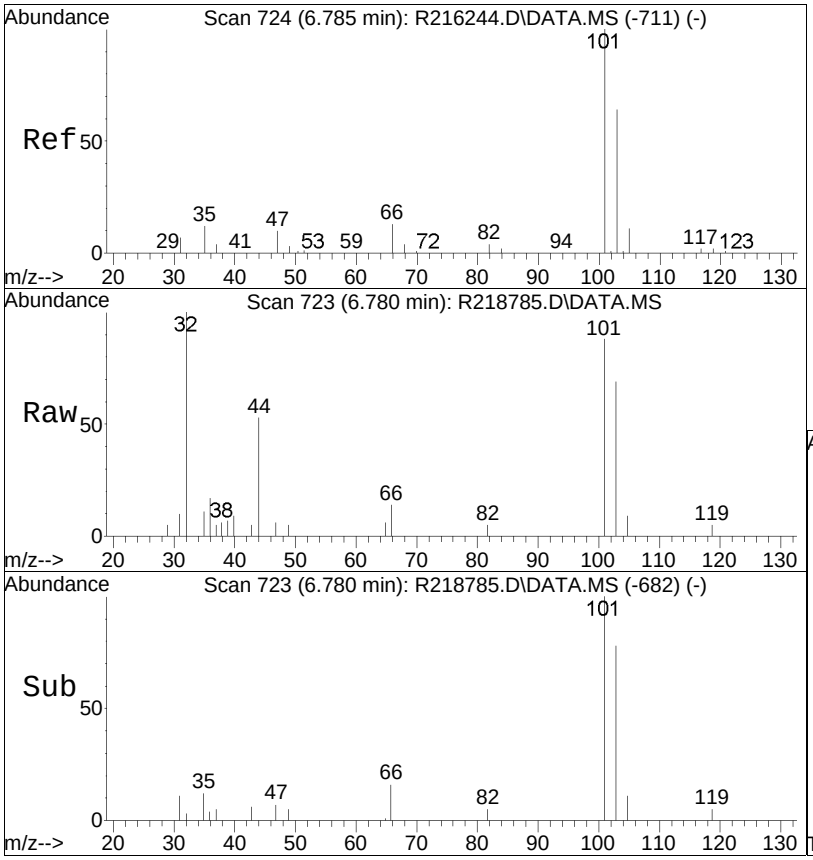


#19
acetone
Concen: 1.30 ppbV m
RT: 6.607 min Scan# 686
Delta R.T. 0.033 min
Lab File: R218785.D
Acq: 6 Jan 2012 4:02

Tgt Ion: 43 Resp: 18206

Ion	Ratio	Lower	Upper
43	100		
58	26.1	22.2	33.2
57	3.3	0.9	1.3#

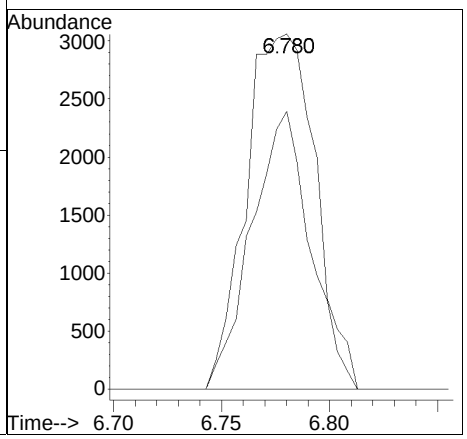


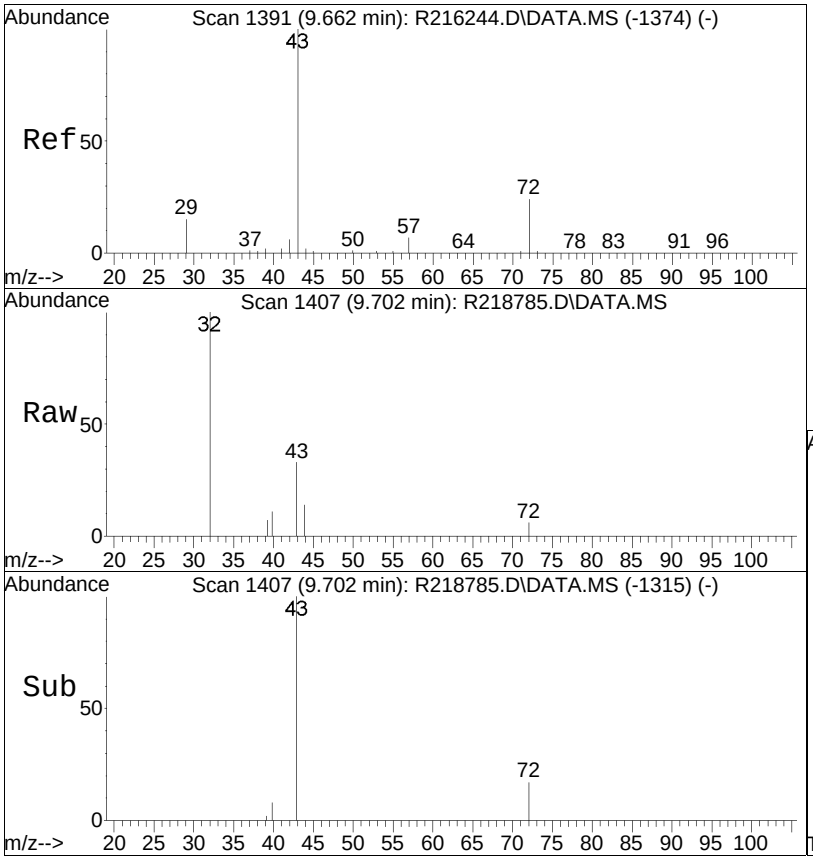


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 6.780 min Scan# 723
Delta R.T. -0.009 min
Lab File: R218785.D
Acq: 6 Jan 2012 4:02

Tgt Ion:101 Resp: 6845

Ion	Ratio	Lower	Upper
101	100		
103	78.3	50.2	75.2#

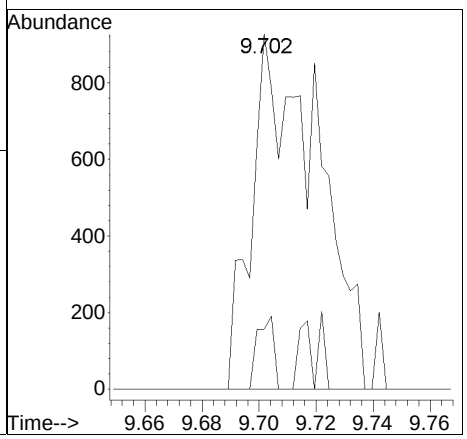


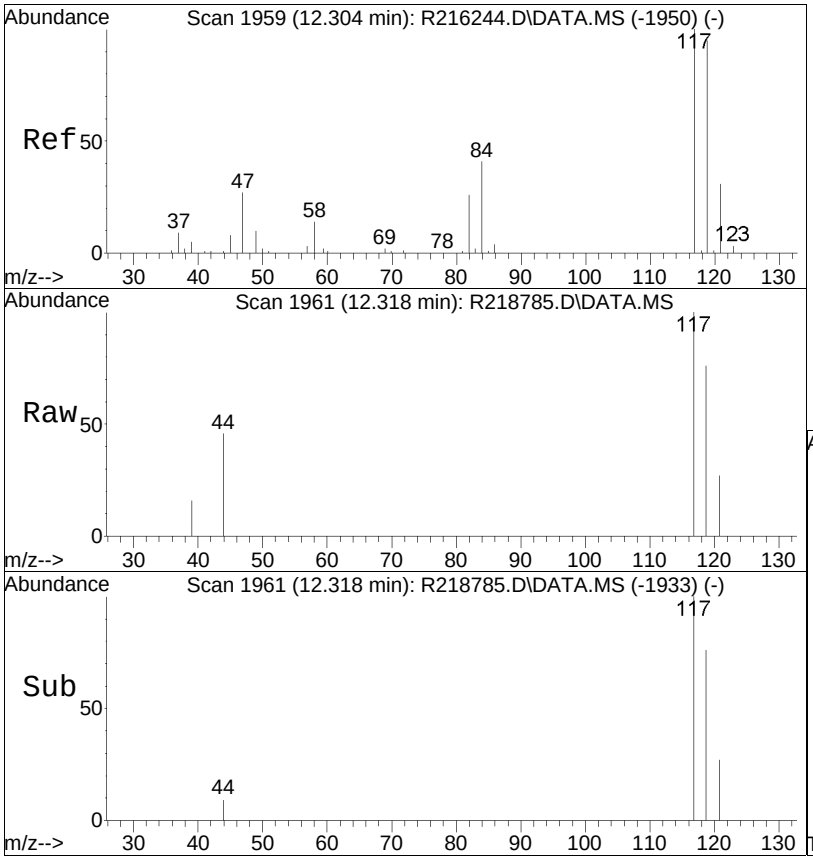


#36
2-butanone
Concen: 0.09 ppbV m
RT: 9.702 min Scan# 1407
Delta R.T. 0.033 min
Lab File: R218785.D
Acq: 6 Jan 2012 4:02

Tgt Ion: 43 Resp: 1494

Ion	Ratio	Lower	Upper
43	100		
72	16.9	17.6	26.4#
57	0.0	5.6	8.4#

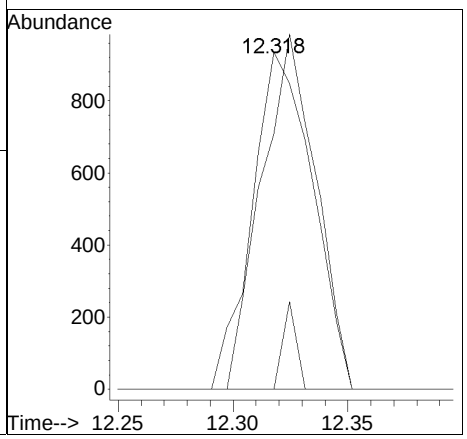


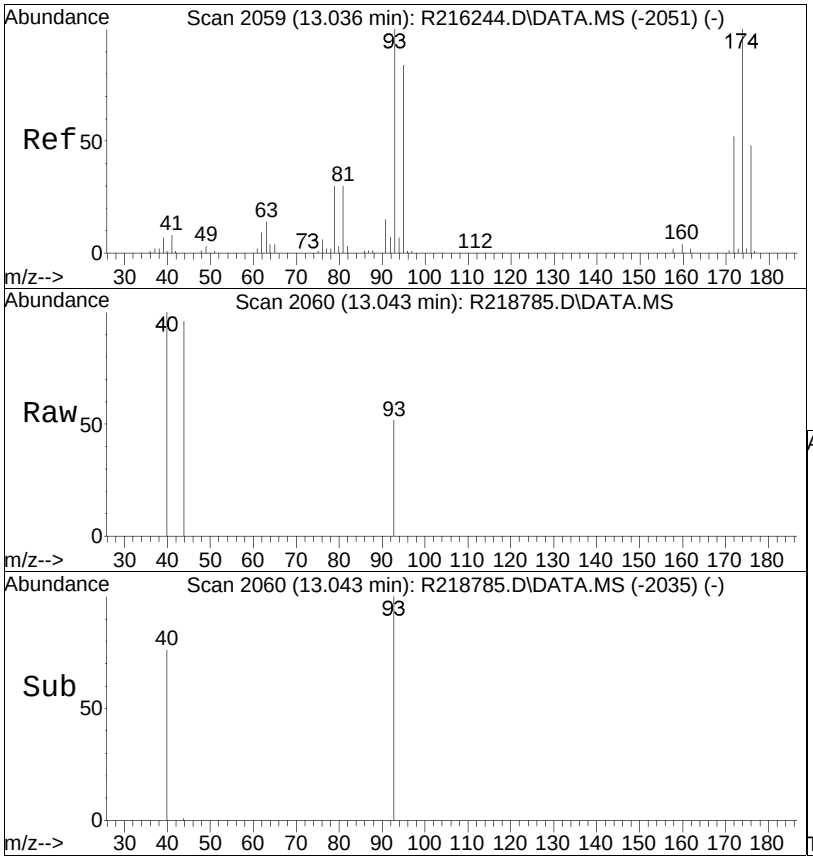


#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 12.318 min Scan# 1961
Delta R.T. -0.007 min
Lab File: R218785.D
Acq: 6 Jan 2012 4:02

Tgt Ion:117 Resp: 1716

Ion	Ratio	Lower	Upper
117	100		
119	75.8	76.8	115.2#
82	0.0	19.4	29.0#

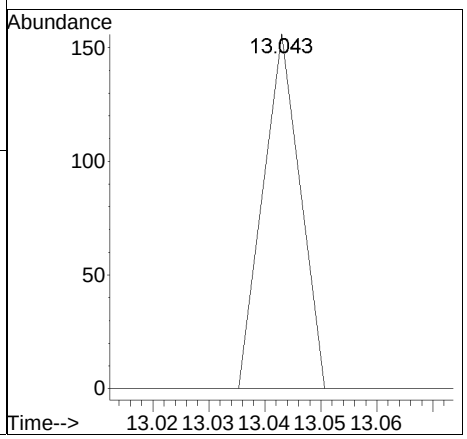


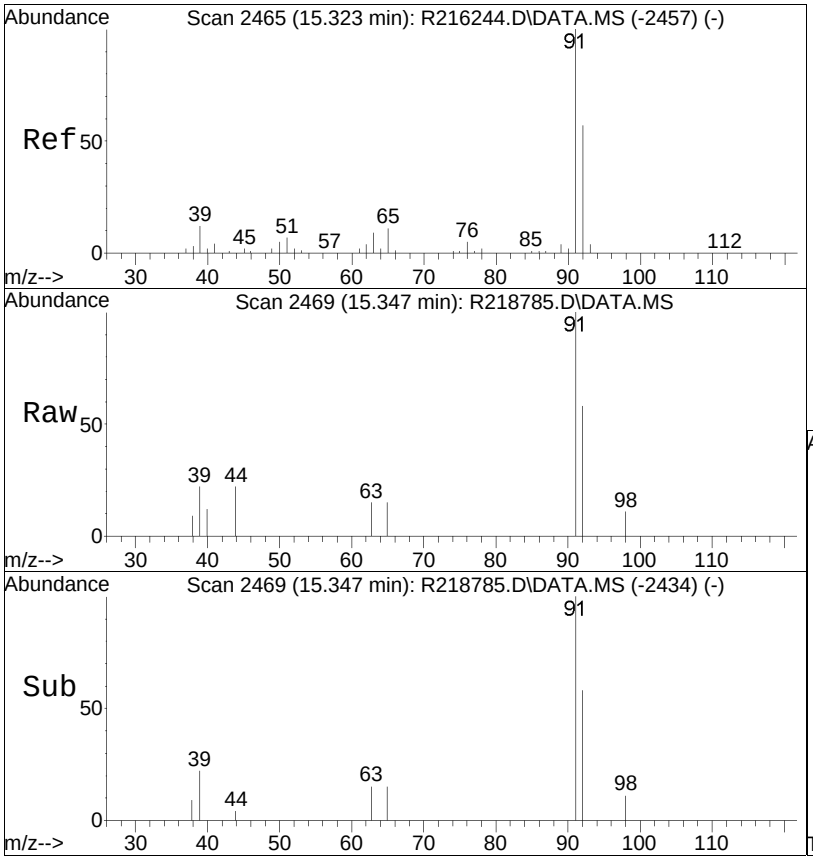


#55
dibromomethane
Concen: 0.00 ppbV
RT: 13.043 min Scan# 2060
Delta R.T. -0.008 min
Lab File: R218785.D
Acq: 6 Jan 2012 4:02

Tgt Ion: 93 Resp: 72

Ion	Ratio	Lower	Upper
93	100		
174	0.0	79.0	118.4#
95	0.0	68.4	102.6#

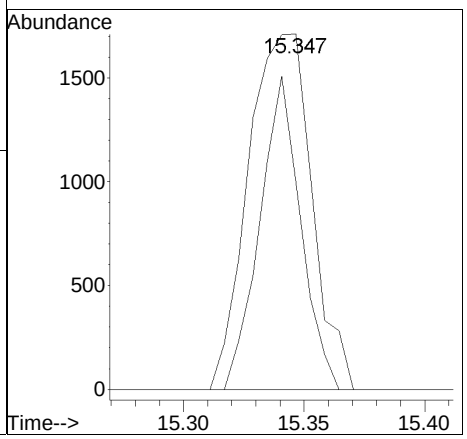




#69
toluene
Concen: 0.10 ppbV
RT: 15.347 min Scan# 2469
Delta R.T. 0.006 min
Lab File: R218785.D
Acq: 6 Jan 2012 4:02

Tgt Ion: 91 Resp: 3143

Ion	Ratio	Lower	Upper
91	100		
92	58.1	47.0	70.4

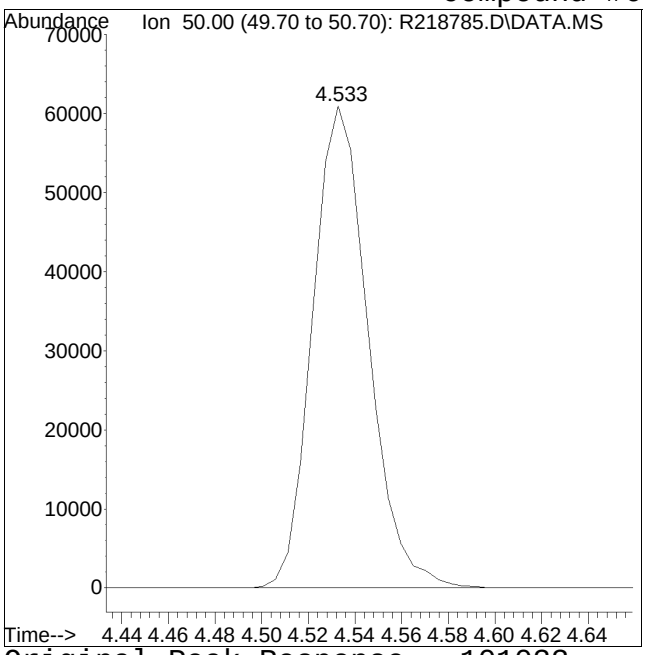


Manual Integration/Negative Proof Report

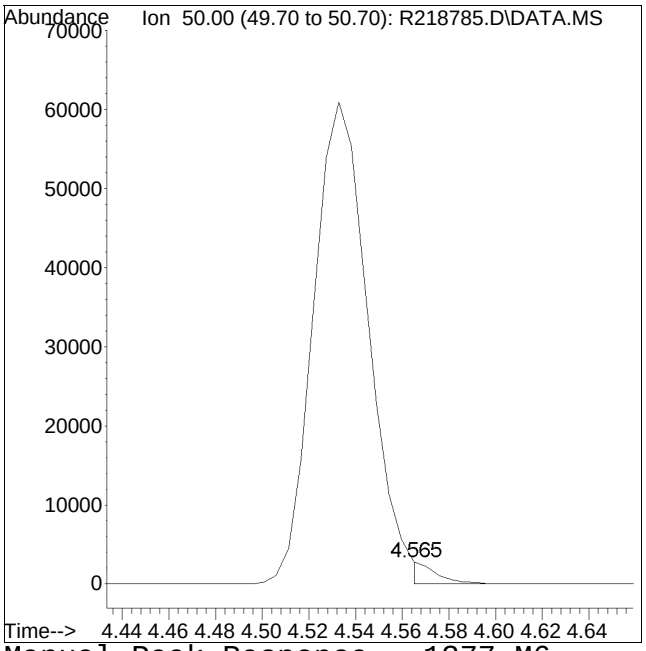
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218785.D
Date Inj'd : 1/6/2012 4:02
Sample : L1200006-06,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #6: chloromethane



Original Peak Response = 101033



Manual Peak Response = 1377 M6

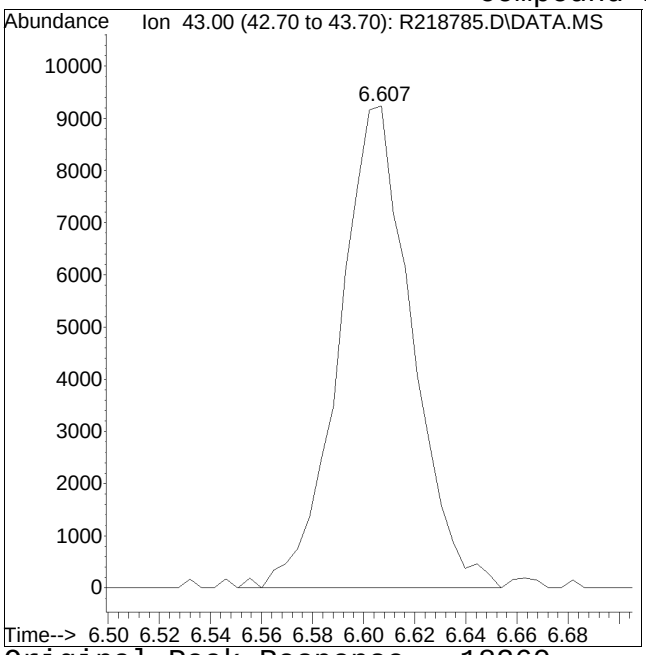
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

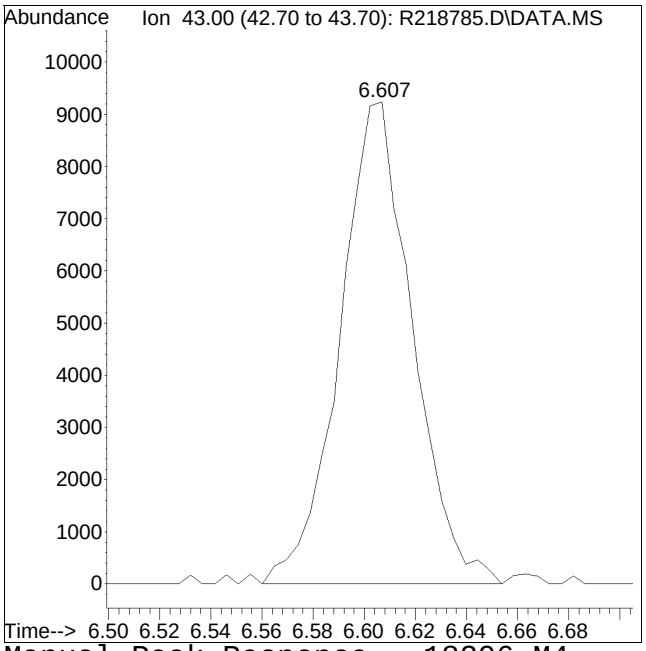
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218785.D
Date Inj'd : 1/6/2012 4:02
Sample : L1200006-06,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #19: acetone



Original Peak Response = 18260



Manual Peak Response = 18206 M4

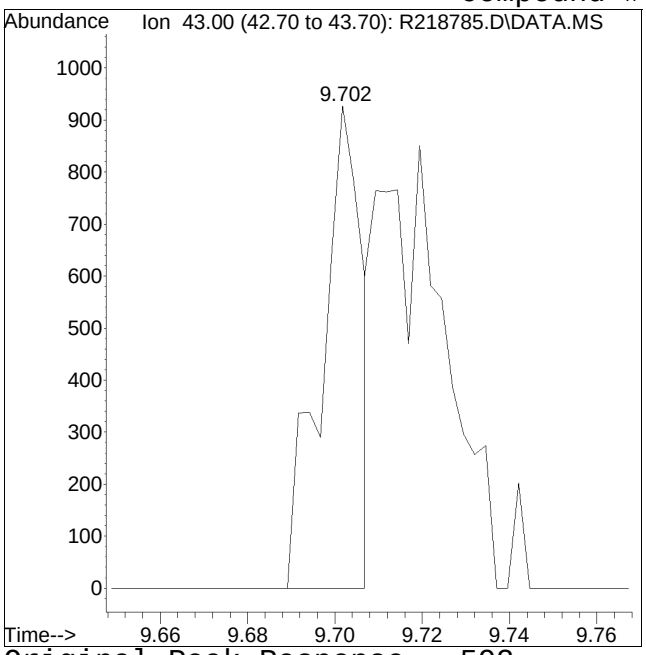
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

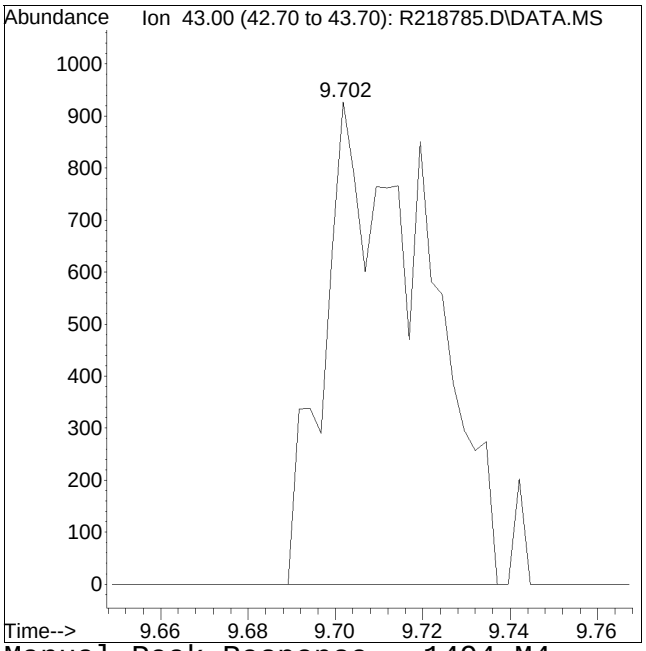
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218785.D
Date Inj'd : 1/6/2012 4:02
Sample : L1200006-06,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #36: 2-butanone



Original Peak Response = 592



Manual Peak Response = 1494 M4

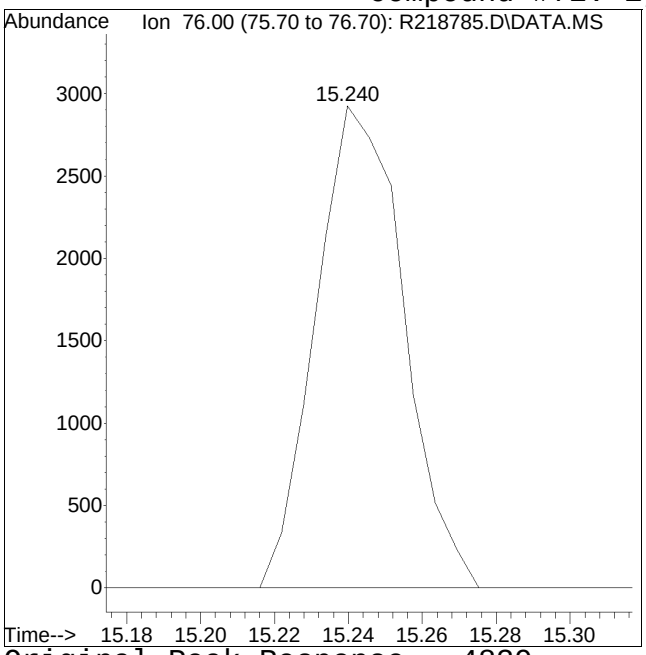
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

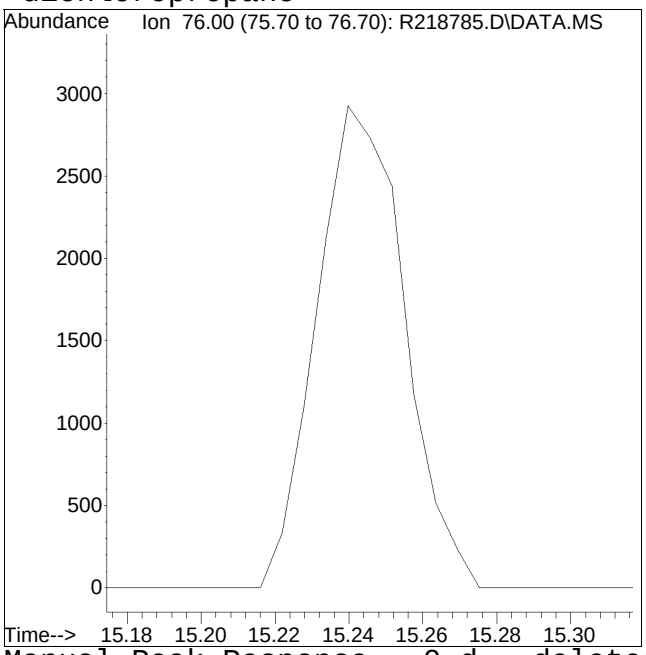
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218785.D
Date Inj'd : 1/6/2012 4:02
Sample : L1200006-06,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 4839



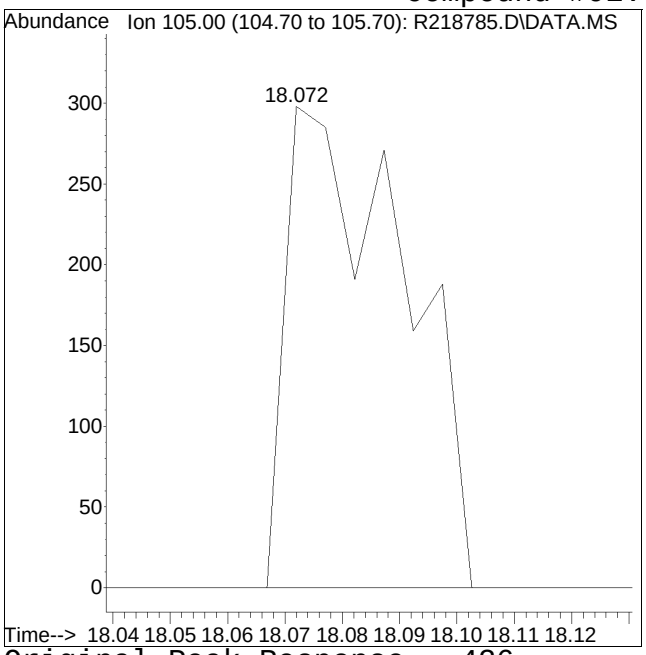
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

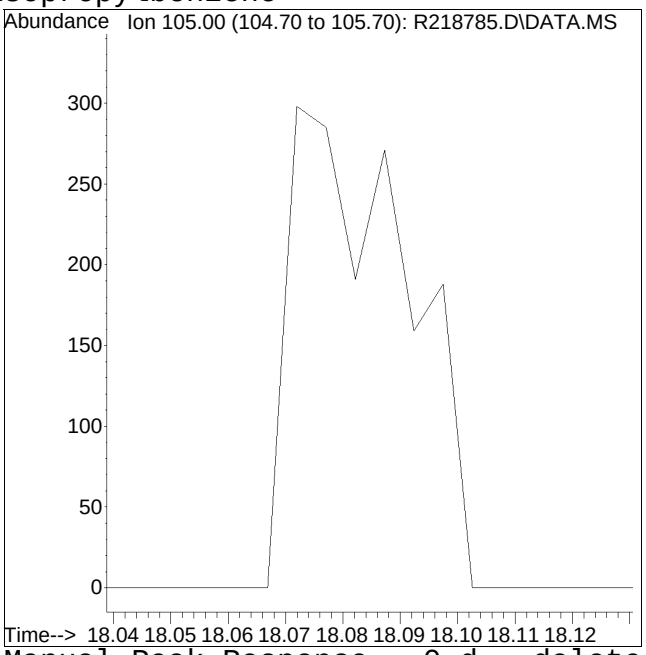
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218785.D
Date Inj'd : 1/6/2012 4:02
Sample : L1200006-06,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #92: isopropylbenzene



Original Peak Response = 426



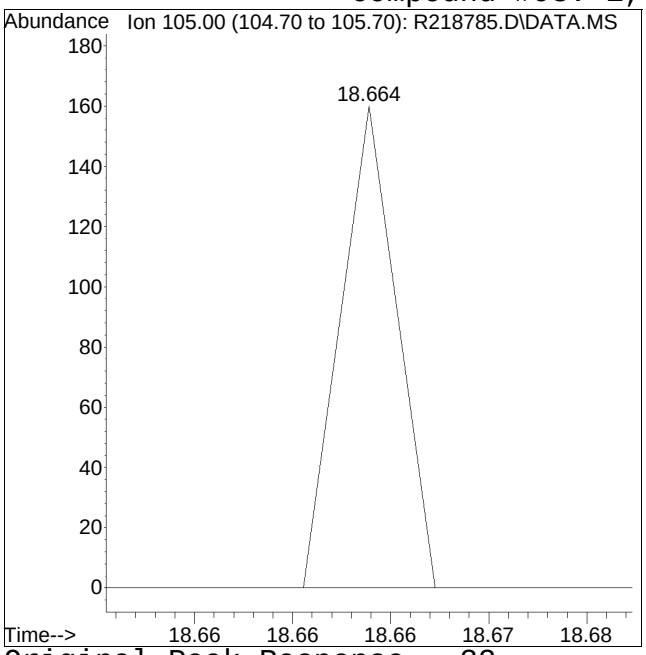
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

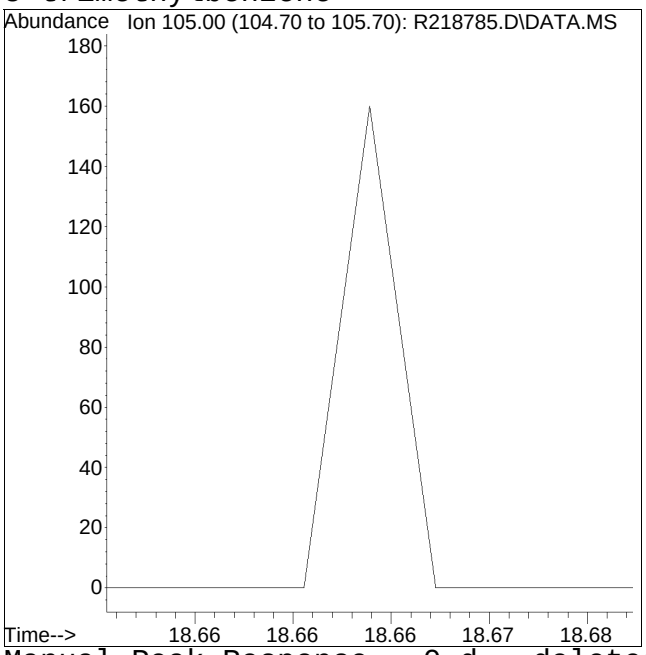
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218785.D
Date Inj'd : 1/6/2012 4:02
Sample : L1200006-06,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:05 am

Compound #98: 1,3,5-trimethylbenzene



Original Peak Response = 32



Manual Peak Response = 0 d - deleted

Method Blank
Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218771.D
Acq On : 5 Jan 2012 19:40
Operator : AIRPIANO2:MB
Sample : WG511601-4,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 06 08:48:54 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.361	49	139978	10.000	ppbV	0.00
Standard Area = 151117			Recovery =		92.63%	
43) 1,4-difluorobenzene	12.550	114	444228	10.000	ppbV	0.00
Standard Area = 485506			Recovery =		91.50%	
68) chlorobenzene-D5	16.905	54	82489	10.000	ppbV	0.00
Standard Area = 90670			Recovery =		90.98%	

System Monitoring Compounds

Target Compounds						Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.		
6) chloromethane	0.000		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
13) bromomethane	5.444		0	N.D.		
14) chloroethane	0.000		0	N.D.		
19) acetone	6.617	43	1921	0.133	ppbV #	95
21) trichlorofluoromethane	0.000		0	N.D.		
25) ethyl ether	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
28) methylene chloride	7.780		0	N.D.		
30) carbon disulfide	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.707		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
45) diisopropyl ether	0.000		0	N.D.		
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	0.000		0	N.D.		
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	0.000		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218771.D
Acq On : 5 Jan 2012 19:40
Operator : AIRPIANO2:MB
Sample : WG511601-4,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 06 08:48:54 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

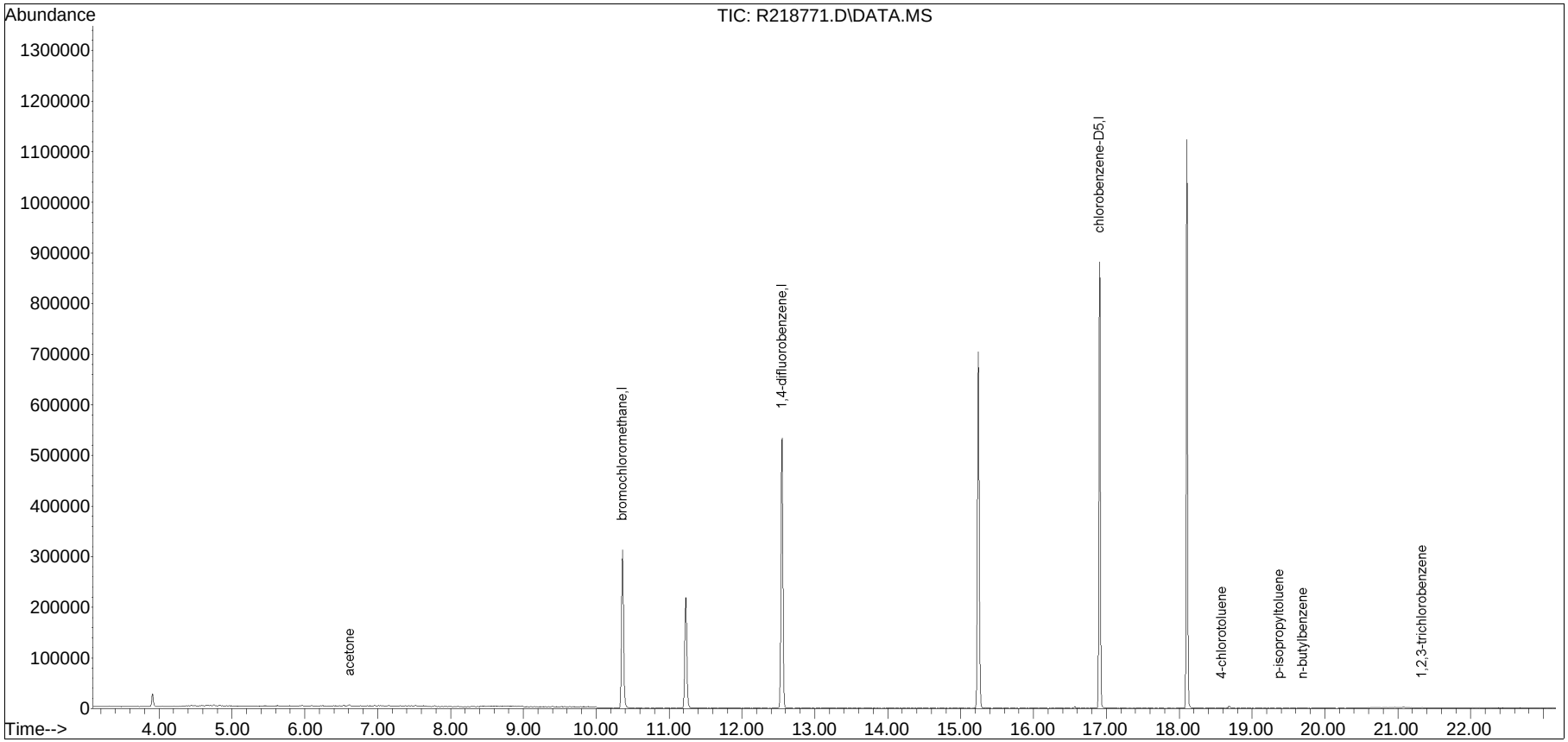
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 4-methyl-2-pentanone	0.000		0	N.D.		
66) trans-1,3-dichloropropene	0.000		0	N.D.		
67) 1,1,2-trichloroethane	0.000		0	N.D.		
69) toluene	15.340		0	N.D.		
72) 1,3-dichloropropane	0.000		0	N.D. d		
73) 2-hexanone	0.000		0	N.D. d		
75) dibromochloromethane	0.000		0	N.D.		
76) 1,2-dibromoethane	0.000		0	N.D.		
80) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81) chlorobenzene	0.000		0	N.D.		
82) ethylbenzene	17.235		0	N.D.		
84) m+p-xylene	17.388		0	N.D.		
85) bromoform	0.000		0	N.D.		
86) styrene	0.000		0	N.D.		
87) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88) o-xylene	0.000		0	N.D.		
89) 1,2,3-trichloropropane	0.000		0	N.D.		
92) isopropylbenzene	0.000		0	N.D. d		
93) bromobenzene	0.000		0	N.D. d		
94) 2-chlorotoluene	0.000		0	N.D.		
95) n-propylbenzene	0.000		0	N.D.		
96) 4-chlorotoluene	18.581	91	82	0.003	ppbV #	40
98) 1,3,5-trimethylbenzene	0.000		0	N.D.		
99) tert-butylbenzene	0.000		0	N.D.		
100) 1,2,4-trimethylbenzene	19.052		0	N.D.		
103) 1,3-dichlorobenzene	0.000		0	N.D. d		
104) 1,4-dichlorobenzene	19.225		0	N.D.		
105) sec-butylbenzene	0.000		0	N.D.		
107) p-isopropyltoluene	19.372	119	35	0.001	ppbV #	49
108) 1,2-dichlorobenzene	19.503		0	N.D.		
109) n-butylbenzene	19.692	91	35	0.001	ppbV #	49
112) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116) 1,2,4-trichlorobenzene	20.960		0	N.D.		
117) naphthalene	21.079		0	N.D.		
118) 1,2,3-trichlorobenzene	21.328	180	641	0.035	ppbV #	63
120) hexachlorobutadiene	0.000		0	N.D.		

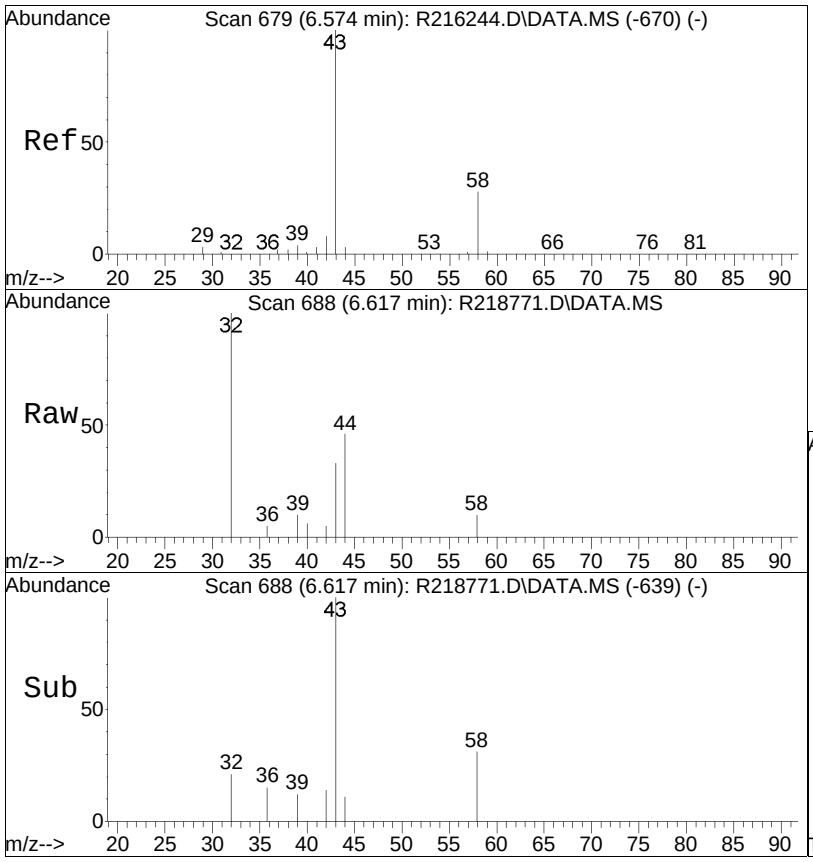
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218771.D
Acq On : 5 Jan 2012 19:40
Operator : AIRPIANO2:MB
Sample : WG511601-4,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 06 08:48:54 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

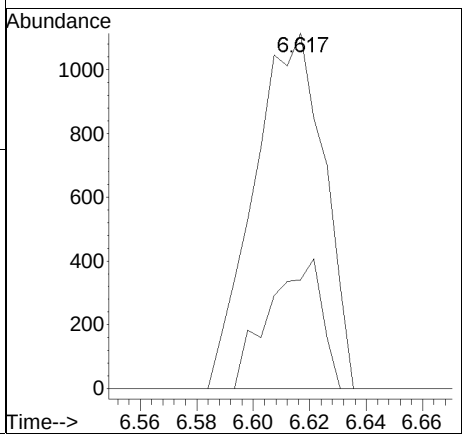


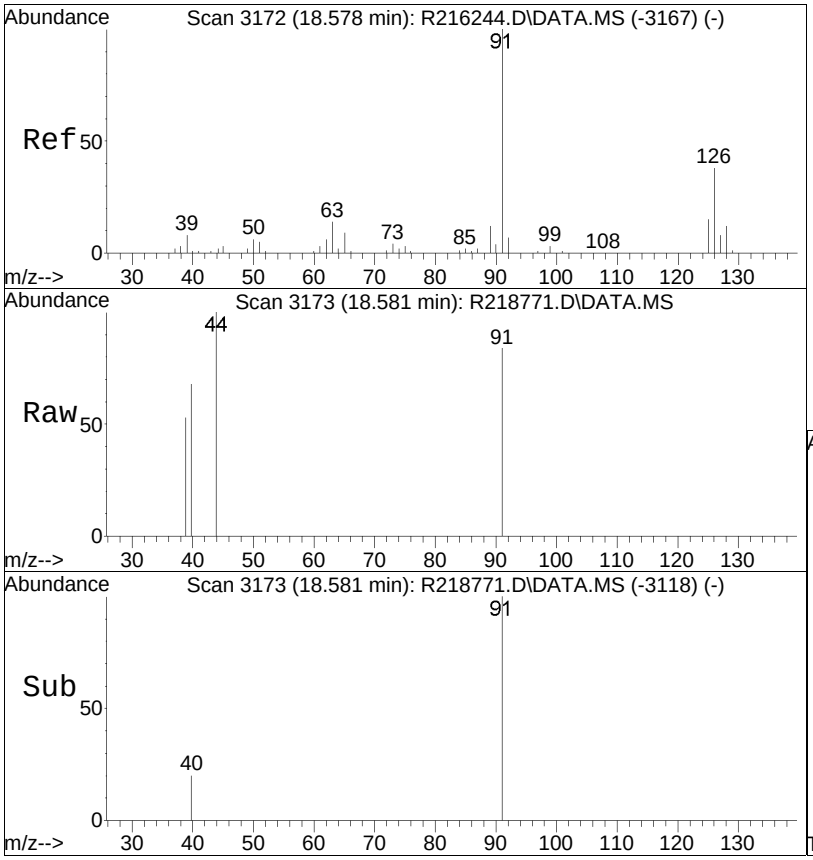


#19
acetone
Concen: 0.13 ppbV
RT: 6.617 min Scan# 688
Delta R.T. 0.043 min
Lab File: R218771.D
Acq: 5 Jan 2012 19:40

Tgt Ion: 43 Resp: 1921

Ion	Ratio	Lower	Upper
43	100		
58	30.6	22.2	33.2
57	0.0	0.9	1.3#

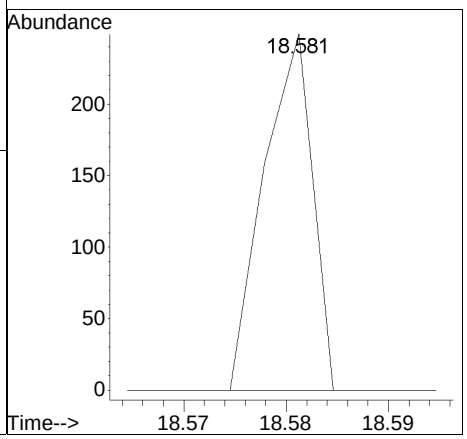


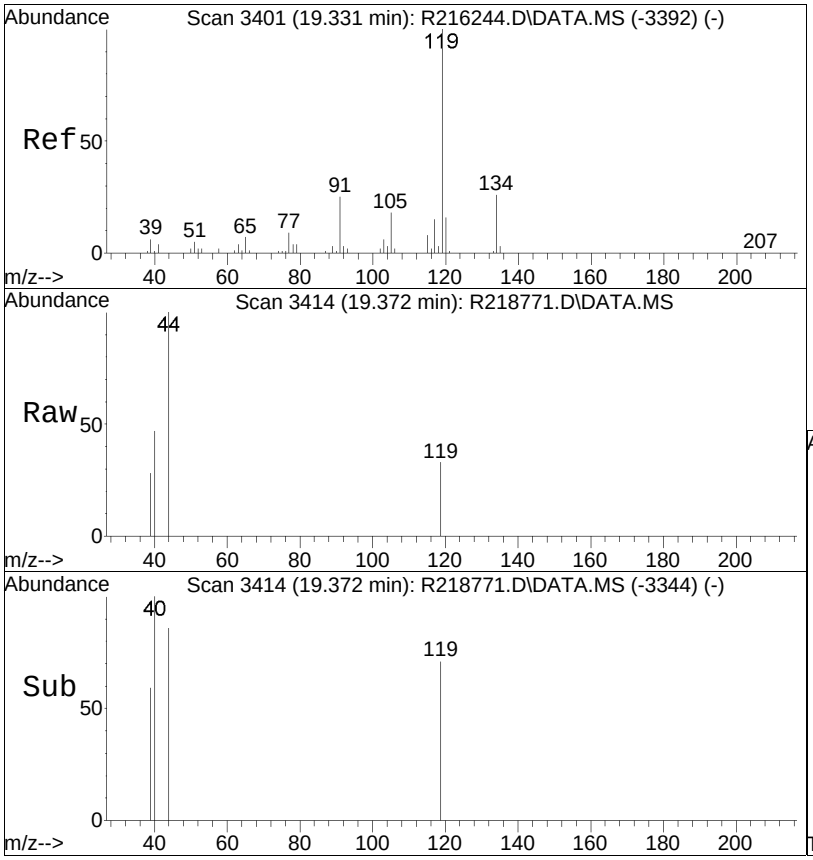


#96
4-chlorotoluene
Concen: 0.00 ppbV
RT: 18.581 min Scan# 3173
Delta R.T. -0.014 min
Lab File: R218771.D
Acq: 5 Jan 2012 19:40

Tgt Ion: 91 Resp: 82

Ion	Ratio	Lower	Upper
91	100		
126	0.0	28.2	42.2#

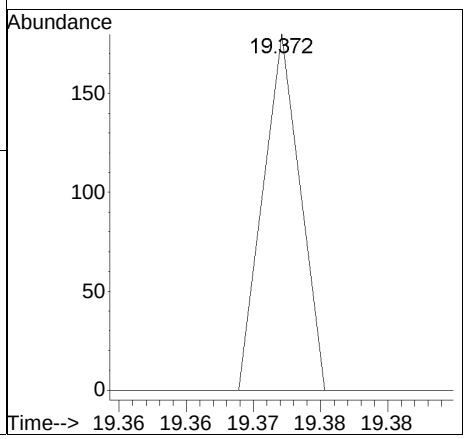


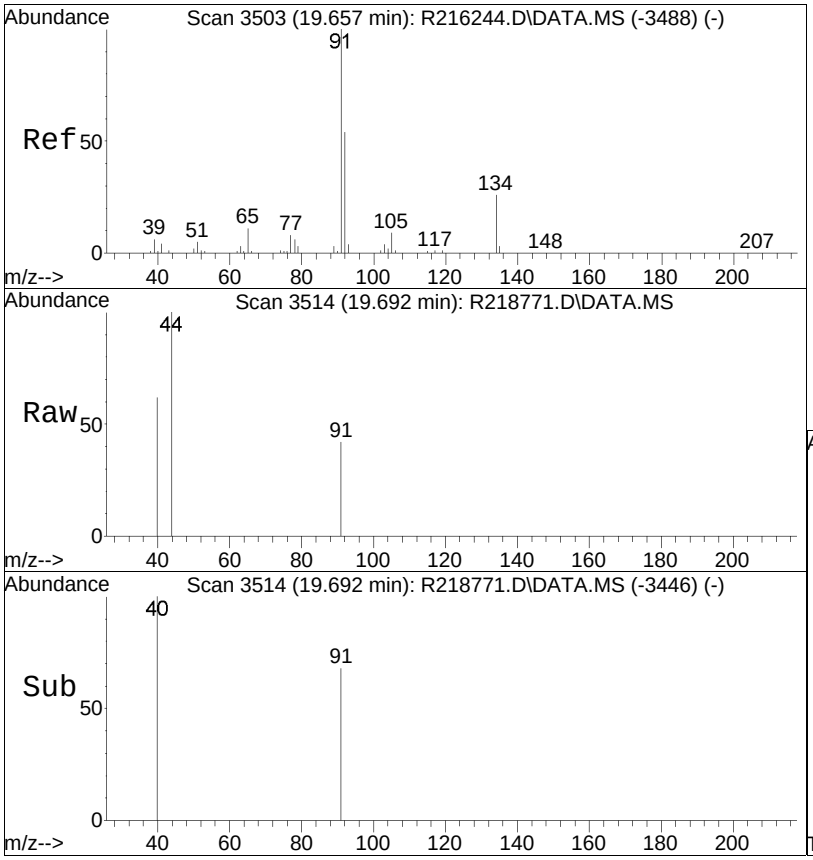


#107
p-isopropyltoluene
Concen: 0.00 ppbV
RT: 19.372 min Scan# 3414
Delta R.T. 0.025 min
Lab File: R218771.D
Acq: 5 Jan 2012 19:40

Tgt Ion:119 Resp: 35

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

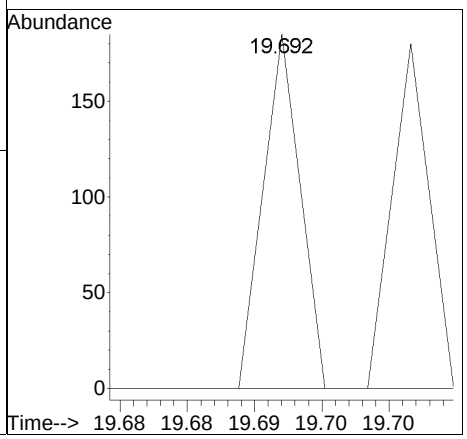


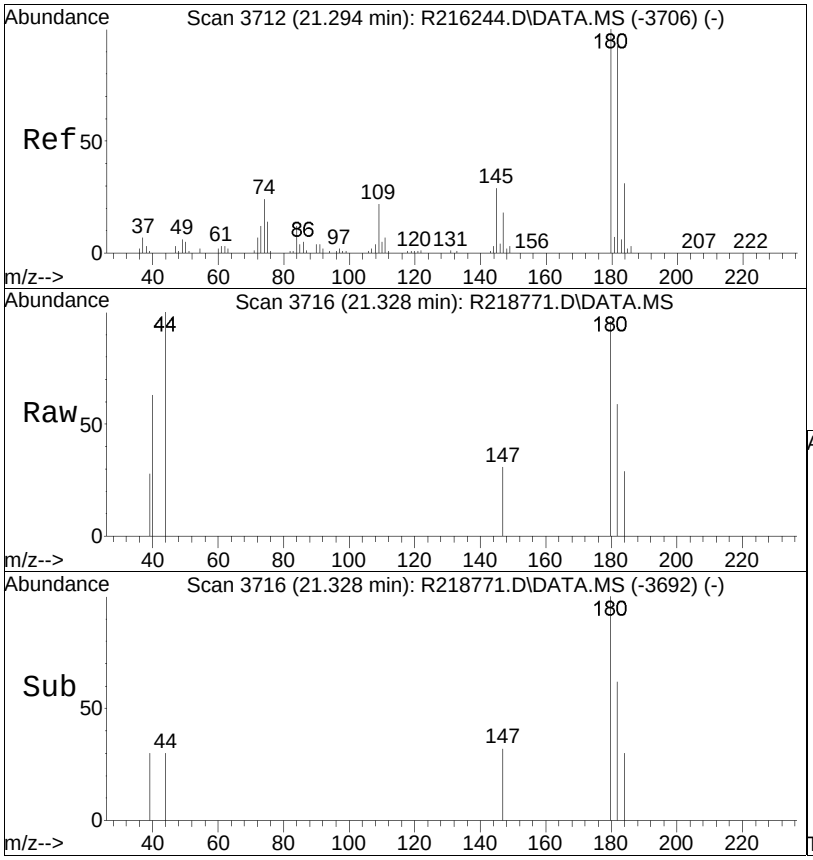


#109
n-butylbenzene
Concen: 0.00 ppbV
RT: 19.692 min Scan# 3514
Delta R.T. 0.019 min
Lab File: R218771.D
Acq: 5 Jan 2012 19:40

Tgt Ion: 91 Resp: 35

Ion	Ratio	Lower	Upper
91	100		
134	0.0	20.9	31.3#

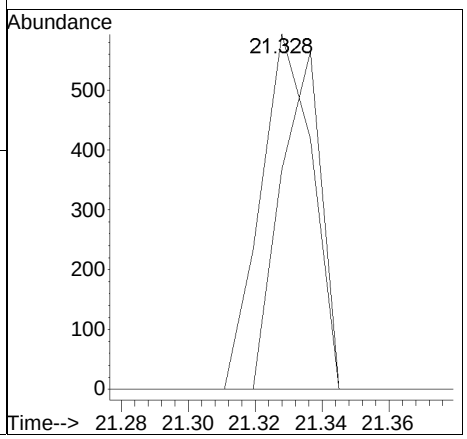




#118
1,2,3-trichlorobenzene
Concen: 0.03 ppbV
RT: 21.328 min Scan# 3716
Delta R.T. 0.008 min
Lab File: R218771.D
Acq: 5 Jan 2012 19:40

Tgt Ion:180 Resp: 641

Ion	Ratio	Lower	Upper
180	100		
182	61.8	76.9	115.3#
109	0.0	17.9	26.9#

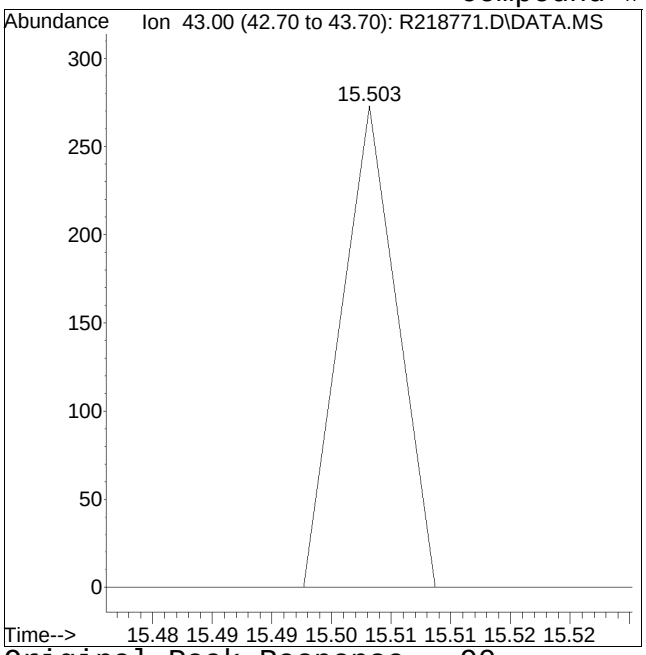


Manual Integration/Negative Proof Report

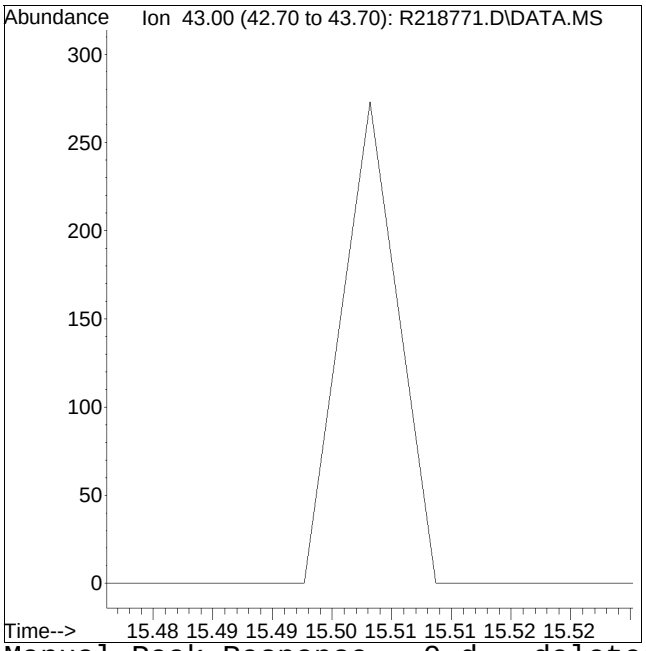
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218771.D
Date Inj'd : 1/5/2012 19:40
Sample : WG511601-4,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:48 am

Compound #73: 2-hexanone



Original Peak Response = 90



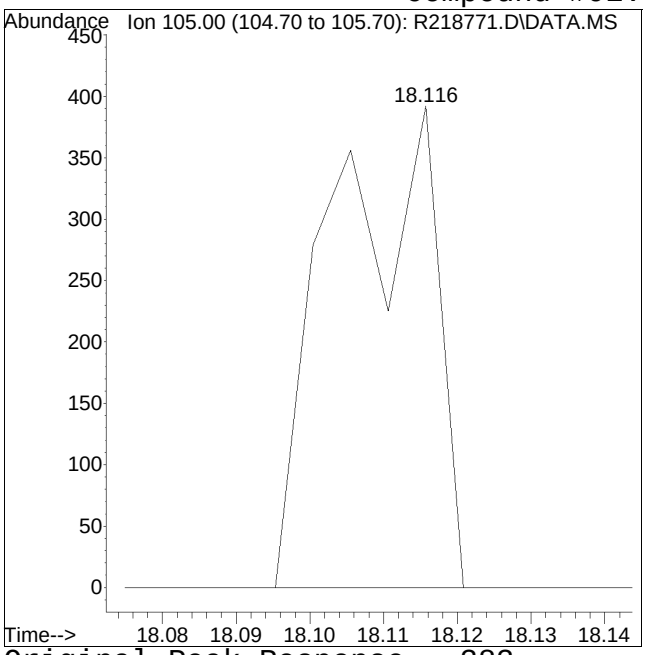
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

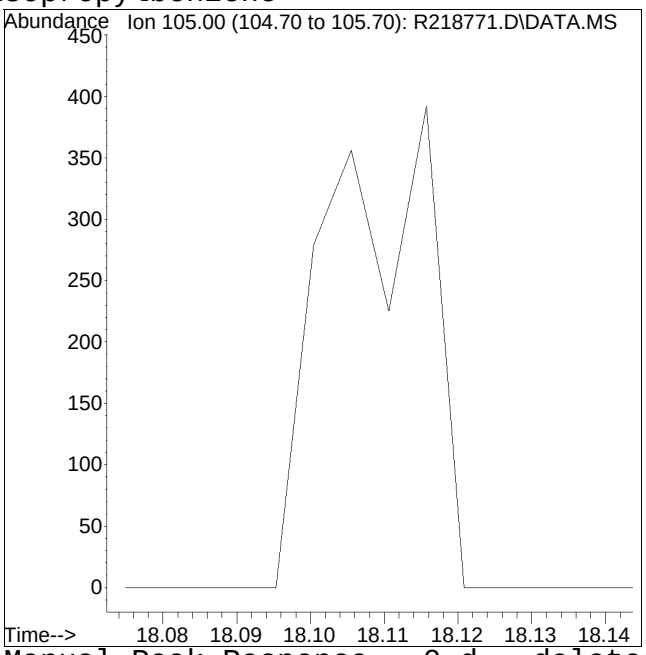
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218771.D
Date Inj'd : 1/5/2012 19:40
Sample : WG511601-4,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:48 am

Compound #92: isopropylbenzene



Original Peak Response = 383



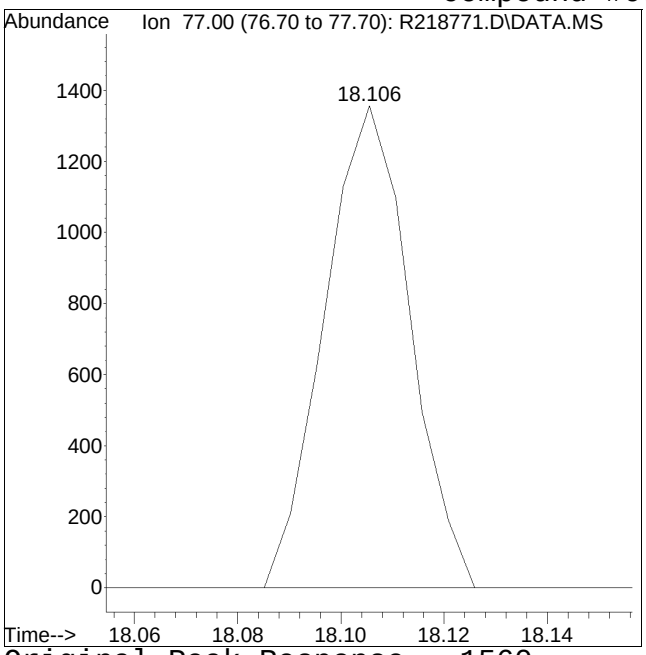
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

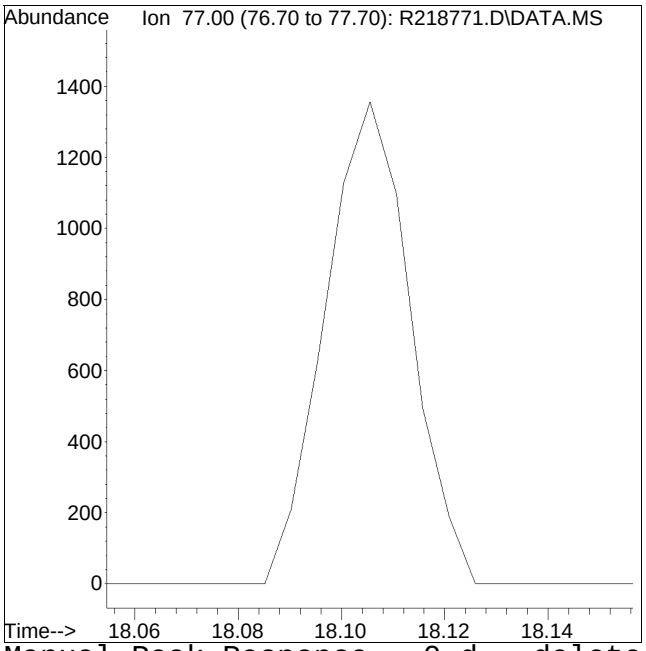
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218771.D
Date Inj'd : 1/5/2012 19:40
Sample : WG511601-4,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 8:48 am

Compound #93: bromobenzene



Original Peak Response = 1560



Manual Peak Response = 0 d - deleted

Batch Quality Control

LCS Raw Data

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-3,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	85	0.00
5		dichlorodifluoromethane	10.000	8.402	16.0	68	-0.01
6	C	chloromethane	10.000	7.869	21.3	64	-0.02
9	C	vinyl chloride	10.000	8.026	19.7	64	-0.02
13	C	bromomethane	10.000	8.205	17.9	67	-0.01
14	C	chloroethane	10.000	8.451	15.5	69	-0.01
19		acetone	10.000	9.393	6.1	76	-0.01
21		trichlorofluoromethane	10.000	8.287	17.1	68	0.00
25		ethyl ether	10.000	8.221	17.8	62	-0.01
26	C	1,1-dichloroethene	10.000	8.272	17.3	68	0.00
28	C	methylene chloride	10.000	8.421	15.8	72	-0.01
30	C	carbon disulfide	10.000	7.892	21.1	62	0.00
32		trans-1,2-dichloroethene	10.000	8.192	18.1	66	-0.01
33	C	1,1-dichloroethane	10.000	7.814	21.9	62	0.00
34	C	MTBE	10.000	8.307	16.9	61	0.00
36	C	2-butanone	10.000	8.706	12.9	68	0.00
37		cis-1,2-dichloroethene	10.000	8.286	17.1	59	0.00
40		Tetrahydrofuran	10.000	9.635	3.7	79	0.00
41		2,2-dichloropropane	10.000	8.356	16.4	65	0.00
42	C	1,2-dichloroethane	10.000	9.079	9.2	71	0.00
43	I	1,4-difluorobenzene	10.000	10.000	0.0	91	0.00
45		diisopropyl ether	10.000	8.675	13.2	74	0.00
46		tert-butyl ethyl ether	10.000	8.781	12.2	72	0.00
48	C	1,1,1-trichloroethane	10.000	8.344	16.6	74	0.00
49		1,1-dichloropropene	10.000	8.187	18.1	73	0.00
52	C	carbon tetrachloride	10.000	8.259	17.4	74	0.00
54		tert-amyl methyl ether	10.000	9.003	10.0	74	0.00
55		dibromomethane	10.000	8.033	19.7	72	0.00
56	C	1,2-dichloropropane	10.000	8.762	12.4	76	0.00
57		bromodichloromethane	10.000	8.312	16.9	72	0.00
58	C	1,4-dioxane	10.000	9.819	1.8	83	0.00
63	C	cis-1,3-dichloropropene	10.000	8.995	10.1	76	0.00
64	C	4-methyl-2-pentanone	10.000	9.560	4.4	82	0.00
66		trans-1,3-dichloropropene	10.000	7.662	23.4	65	0.00
67	C	1,1,2-trichloroethane	10.000	9.205	7.9	82	0.00
68	I	chlorobenzene-D5	10.000	10.000	0.0	81	0.00
69	C	toluene	10.000	10.216	-2.2	74	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-3,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
72		1,3-dichloropropane	10.000	9.785	2.1	67	0.00
73		2-hexanone	10.000	10.918	-9.2	79	0.00
75		dibromochloromethane	10.000	10.600	-6.0	73	0.00
76	C	1,2-dibromoethane	10.000	10.488	-4.9	77	0.00
80		1,1,1,2-tetrachloroethane	10.000	10.071	-0.7	73	0.00
81	C	chlorobenzene	10.000	10.667	-6.7	78	0.00
82	C	ethylbenzene	10.000	11.088	-10.9	78	0.00
84	C	m+p-xylene	20.000	22.079	-10.4	77	0.00
85	C	bromoform	10.000	10.520	-5.2	69	0.00
86	C	styrene	10.000	11.339	-13.4	77	0.00
87	C	1,1,2,2-tetrachloroethane	10.000	11.766	-17.7	79	0.00
88	C	o-xylene	10.000	11.944	-19.4	78	0.00
89		1,2,3-trichloropropane	10.000	11.273	-12.7	78	0.00
92	C	isopropylbenzene	10.000	11.230	-12.3	79	0.00
93		bromobenzene	10.000	9.957	0.4	66	0.00
94		2-chlorotoluene	10.000	10.940	-9.4	76	0.00
95		n-propylbenzene	10.000	11.632	-16.3	78	0.00
96		4-chlorotoluene	10.000	10.968	-9.7	75	0.00
98		1,3,5-trimethylbenzene	10.000	12.282	-22.8	84	0.00
99		tert-butylbenzene	10.000	12.275	-22.8	80	-0.01
100		1,2,4-trimethylbenzene	10.000	12.975	-29.8	83	-0.01
103		1,3-dichlorobenzene	10.000	12.311	-23.1	83	-0.02
104	C	1,4-dichlorobenzene	10.000	12.226	-22.3	83	-0.02
105		sec-butylbenzene	10.000	12.202	-22.0	79	-0.02
107		p-isopropyltoluene	10.000	12.129	-21.3	78	-0.02
108		1,2-dichlorobenzene	10.000	12.625	-26.3	85	-0.02
109		n-butylbenzene	10.000	13.086	-30.9#	84	-0.02
112	C	1,2-dibromo-3-chloropropane	10.000	12.806	-28.1	80	-0.03
116	C	1,2,4-trichlorobenzene	10.000	14.790	-47.9#	88	-0.03
117		naphthalene	10.000	13.060	-30.6#	85	-0.03
118		1,2,3-trichlorobenzene	10.000	14.704	-47.0#	95	-0.03
120	C	hexachlorobutadiene	10.000	14.779	-47.8#	89	-0.04

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 2

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-3,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	151117	10.000	ppbV	0.00
Standard Area = 151117			Recovery = 100.00%			
43) 1,4-difluorobenzene	12.549	114	485506	10.000	ppbV	0.00
Standard Area = 485506			Recovery = 100.00%			
68) chlorobenzene-D5	16.908	54	90670	10.000	ppbV	0.00
Standard Area = 90670			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	313288	8.402	ppbV	100
6) chloromethane	4.554	50	91175	7.869	ppbV	95
9) vinyl chloride	4.871	62	105483	8.026	ppbV	98
13) bromomethane	5.461	94	110539	8.205	ppbV	98
14) chloroethane	5.716	64	49702	8.451	ppbV	95
19) acetone	6.560	43	146628	9.393	ppbV	94
21) trichlorofluoromethane	6.780	101	316735	8.287	ppbV	98
25) ethyl ether	7.307	31	107359	8.221	ppbV	99
26) 1,1-dichloroethene	7.612	61	175354	8.272	ppbV	98
28) methylene chloride	7.779	49	133076	8.421	ppbV	98
30) carbon disulfide	8.109	76	291779	7.892	ppbV	100
32) trans-1,2-dichloroethene	8.941	61	209662	8.192	ppbV	96
33) 1,1-dichloroethane	9.182	63	179020	7.814	ppbV	98
34) MTBE	9.266	73	223194	8.307	ppbV	99
36) 2-butanone	9.661	43	169147	8.706	ppbV	97
37) cis-1,2-dichloroethene	10.169	61	134292	8.286	ppbV	91
40) Tetrahydrofuran	10.964	42	93667	9.635	ppbV	99
41) 2,2-dichloropropane	10.539	77	181402	8.356	ppbV	96
42) 1,2-dichloroethane	11.350	62	141493	9.079	ppbV	99
45) diisopropyl ether	10.424	87	67691	8.675	ppbV #	87
46) tert-butyl ethyl ether	11.034	59	257004	8.781	ppbV	98
48) 1,1,1-trichloroethane	11.637	97	225293	8.344	ppbV	98
49) 1,1-dichloropropene	11.991	75	160819	8.187	ppbV	96
52) carbon tetrachloride	12.325	117	246324	8.259	ppbV	97
54) tert-amyl methyl ether	12.821	73	241881	9.003	ppbV	95
55) dibromomethane	13.043	93	137325	8.033	ppbV #	87
56) 1,2-dichloropropane	13.074	63	108348	8.762	ppbV	97
57) bromodichloromethane	13.296	83	226724	8.312	ppbV	97
58) 1,4-dioxane	13.334	88	64357	9.819	ppbV #	78
63) cis-1,3-dichloropropene	14.310	75	159024	8.995	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-3,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

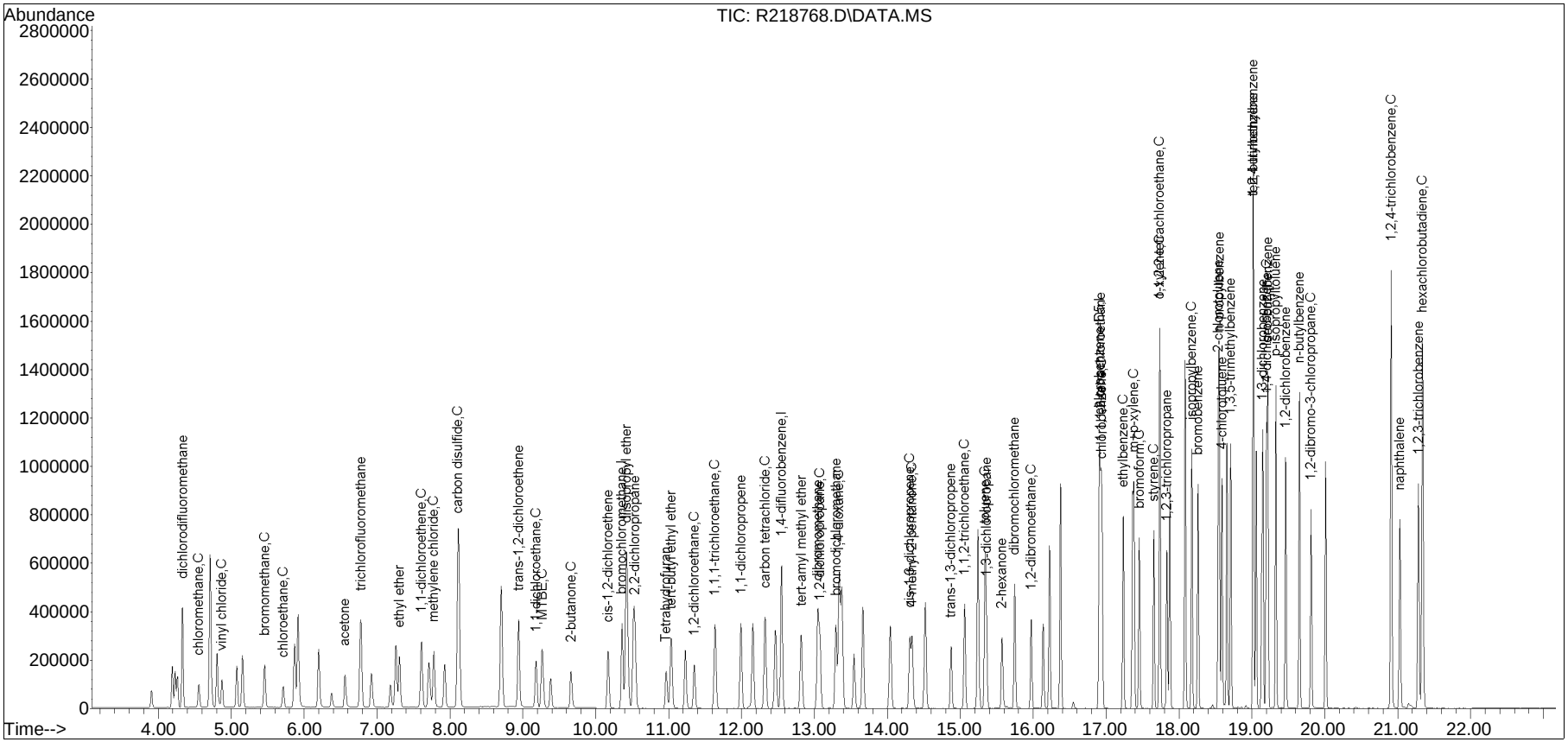
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64)	4-methyl-2-pentanone	14.338	43	210541	9.560	ppbV		96
66)	trans-1,3-dichloropropene	14.872	75	130614	7.662	ppbV		98
67)	1,1,2-trichloroethane	15.062	97	126758	9.205	ppbV		96
69)	toluene	15.341	91	374629	10.216	ppbV		98
72)	1,3-dichloropropane	15.359	76	161151	9.785	ppbV		95
73)	2-hexanone	15.570	43	197201	10.918	ppbV		97
75)	dibromochloromethane	15.746	129	248562	10.600	ppbV		99
76)	1,2-dibromoethane	15.974	107	203889	10.488	ppbV		95
80)	1,1,1,2-tetrachloroethane	16.925	131	178619	10.071	ppbV		95
81)	chlorobenzene	16.941	112	313160	10.667	ppbV		97
82)	ethylbenzene	17.238	91	455016	11.088	ppbV		98
84)	m+p-xylene	17.380	91	713085	22.079	ppbV		97
85)	bromoform	17.456	173	262500	10.520	ppbV		99
86)	styrene	17.654	104	268150	11.339	ppbV		99
87)	1,1,2,2-tetrachloroethane	17.736	83	276116	11.766	ppbV		99
88)	o-xylene	17.736	91	412766	11.944	ppbV		99
89)	1,2,3-trichloropropane	17.832	75	227571	11.273	ppbV		99
92)	isopropylbenzene	18.174	105	526431	11.230	ppbV		99
93)	bromobenzene	18.261	77	247791	9.957	ppbV	#	82
94)	2-chlorotoluene	18.541	126	150040	10.940	ppbV		82
95)	n-propylbenzene	18.552	120	149008	11.632	ppbV		91
96)	4-chlorotoluene	18.588	91	385774	10.968	ppbV		98
98)	1,3,5-trimethylbenzene	18.709	105	437230	12.282	ppbV		98
99)	tert-butylbenzene	19.017	119	486290	12.275	ppbV		98
100)	1,2,4-trimethylbenzene	19.017	105	443159	12.975	ppbV		98
103)	1,3-dichlorobenzene	19.149	146	345088	12.311	ppbV		94
104)	1,4-dichlorobenzene	19.200	146	341667	12.226	ppbV		96
105)	sec-butylbenzene	19.216	105	659528	12.202	ppbV		99
107)	p-isopropyltoluene	19.328	119	552214	12.129	ppbV		98
108)	1,2-dichlorobenzene	19.462	146	327863	12.625	ppbV		96
109)	n-butylbenzene	19.651	91	531486	13.086	ppbV		99
112)	1,2-dibromo-3-chloropr...	19.812	75	126035	12.806	ppbV		87
116)	1,2,4-trichlorobenzene	20.909	180	276276	14.790	ppbV		95
117)	naphthalene	21.028	128	541220	13.060	ppbV		99
118)	1,2,3-trichlorobenzene	21.285	180	299872	14.704	ppbV	#	97
120)	hexachlorobutadiene	21.337	225	307218	14.779	ppbV	#	92

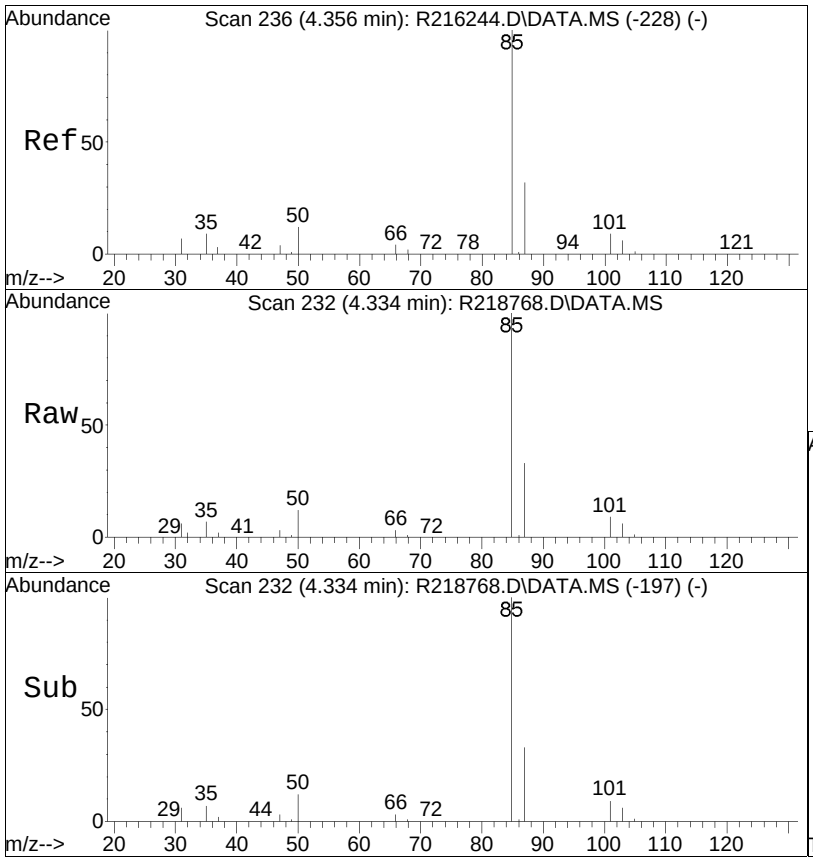
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-3,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

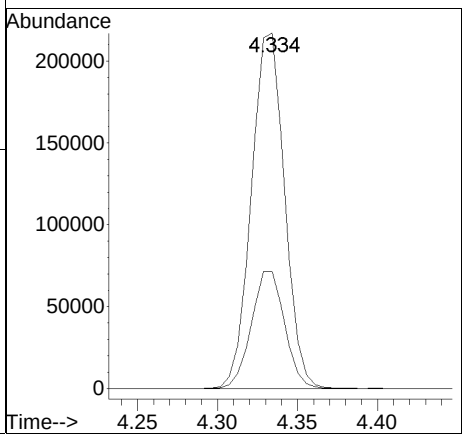


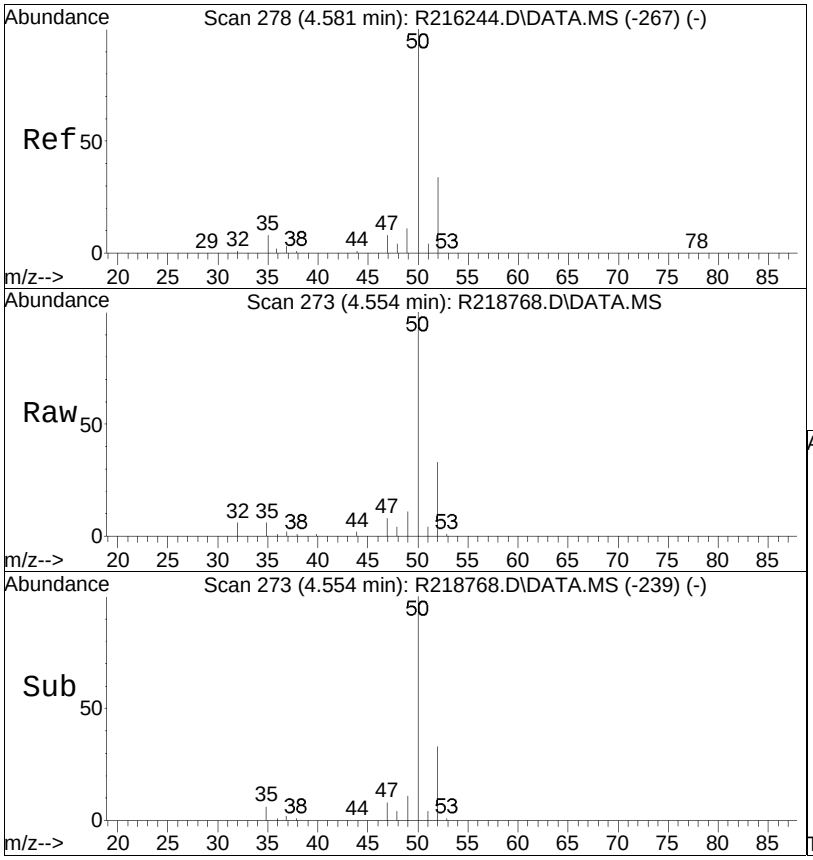


#5
dichlorodifluoromethane
Concen: 8.40 ppbV
RT: 4.334 min Scan# 232
Delta R.T. -0.011 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 85 Resp: 313288

Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.4	39.6

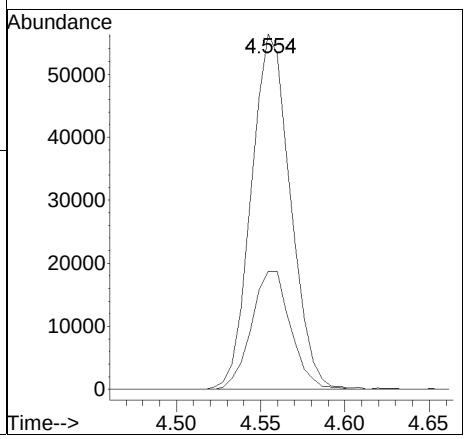


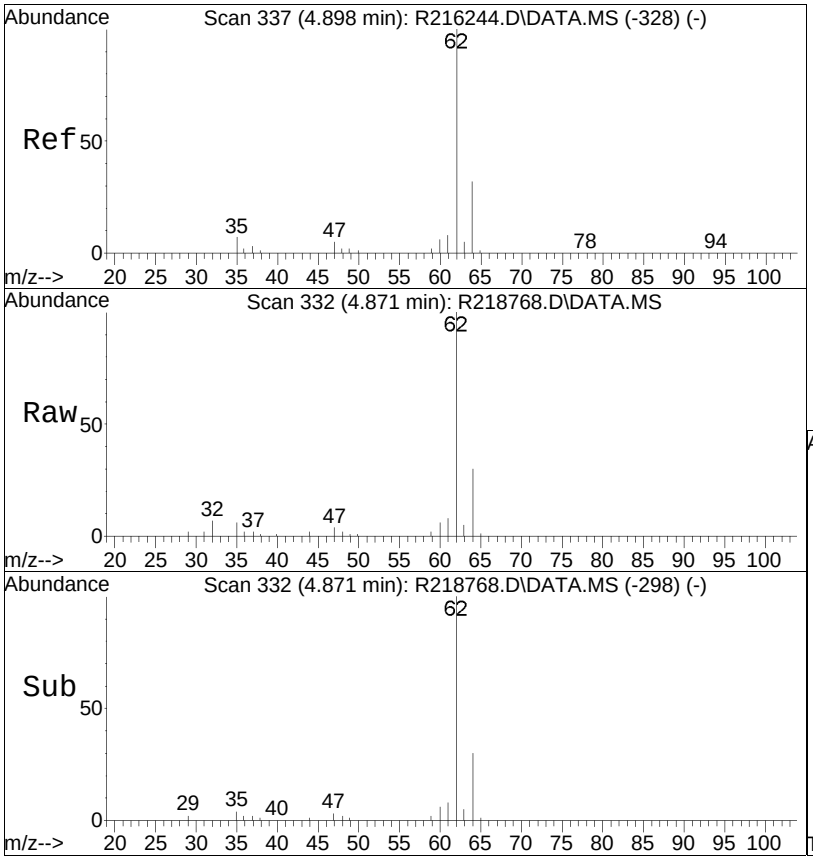


#6
chloromethane
Concen: 7.87 ppbV
RT: 4.554 min Scan# 273
Delta R.T. -0.016 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 50 Resp: 91175

Ion	Ratio	Lower	Upper
50	100		
52	33.2	24.4	36.6

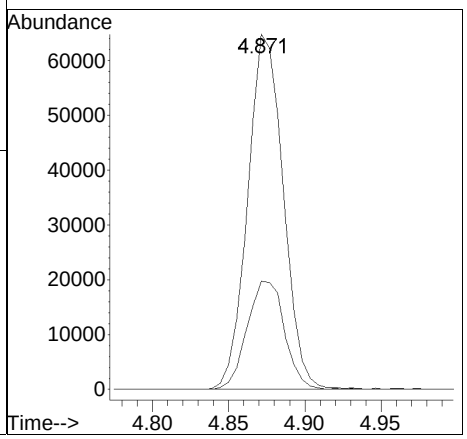


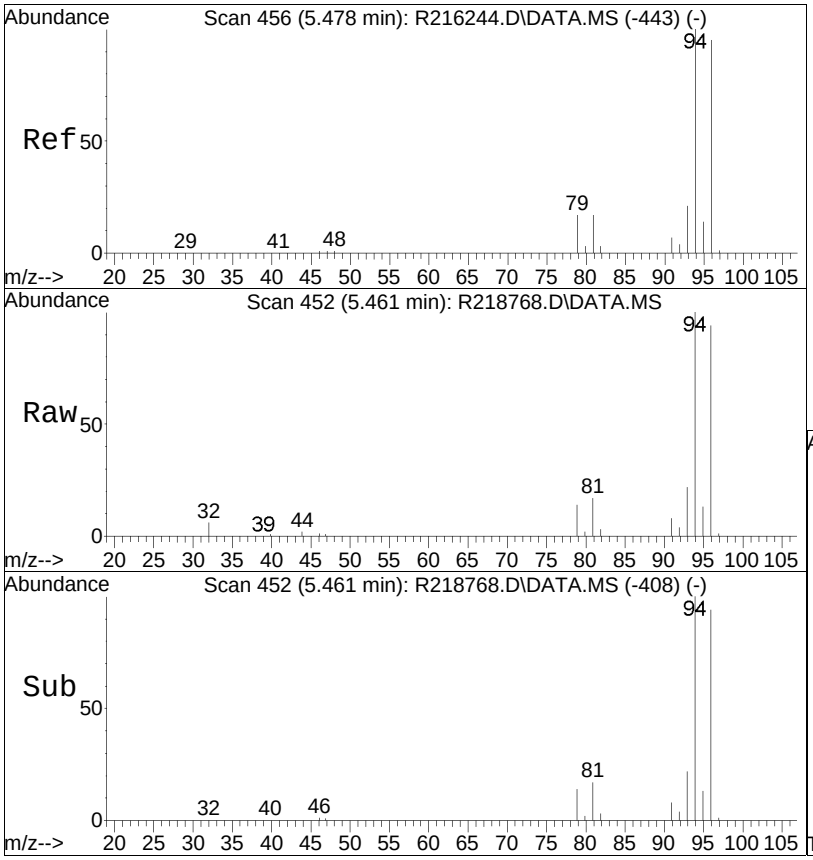


#9
vinyl chloride
Concen: 8.03 ppbV
RT: 4.871 min Scan# 332
Delta R.T. -0.016 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 62 Resp: 105483

Ion	Ratio	Lower	Upper
62	100		
64	30.4	25.0	37.6

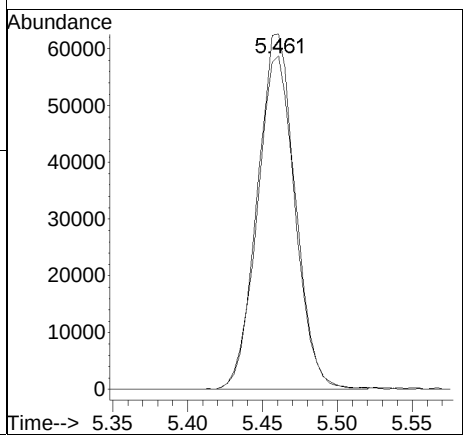


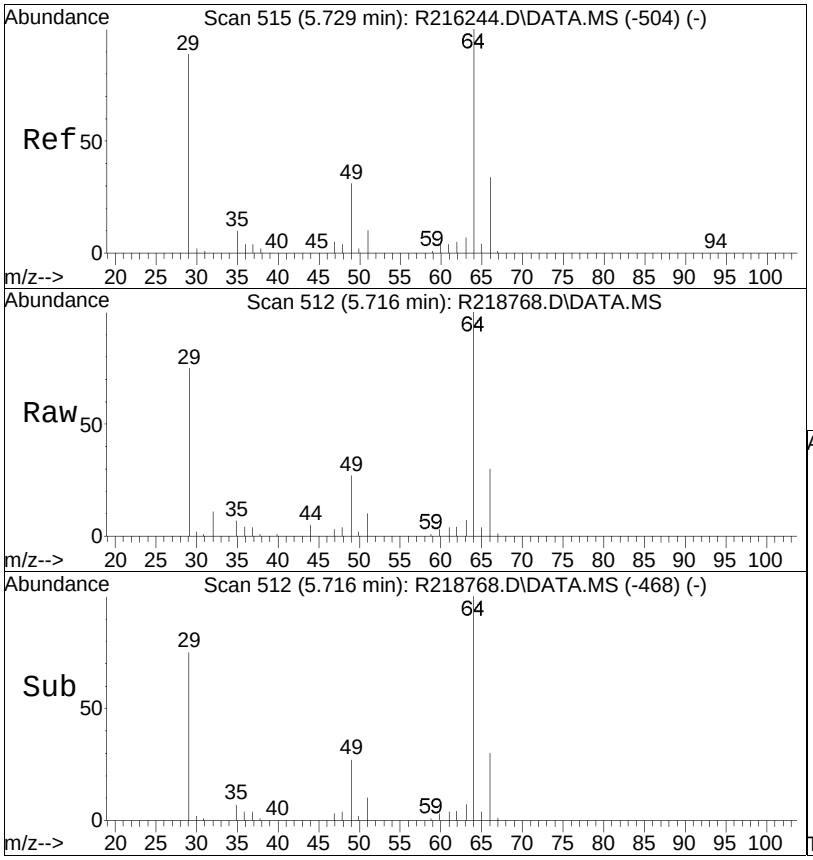


#13
bromomethane
Concen: 8.21 ppbV
RT: 5.461 min Scan# 452
Delta R.T. -0.013 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 94 Resp: 110539

Ion	Ratio	Lower	Upper
94	100		
96	93.9	73.9	110.9

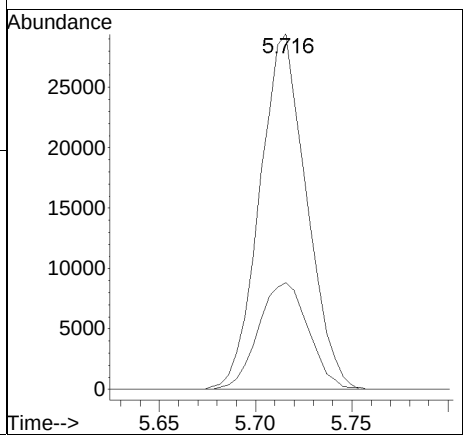


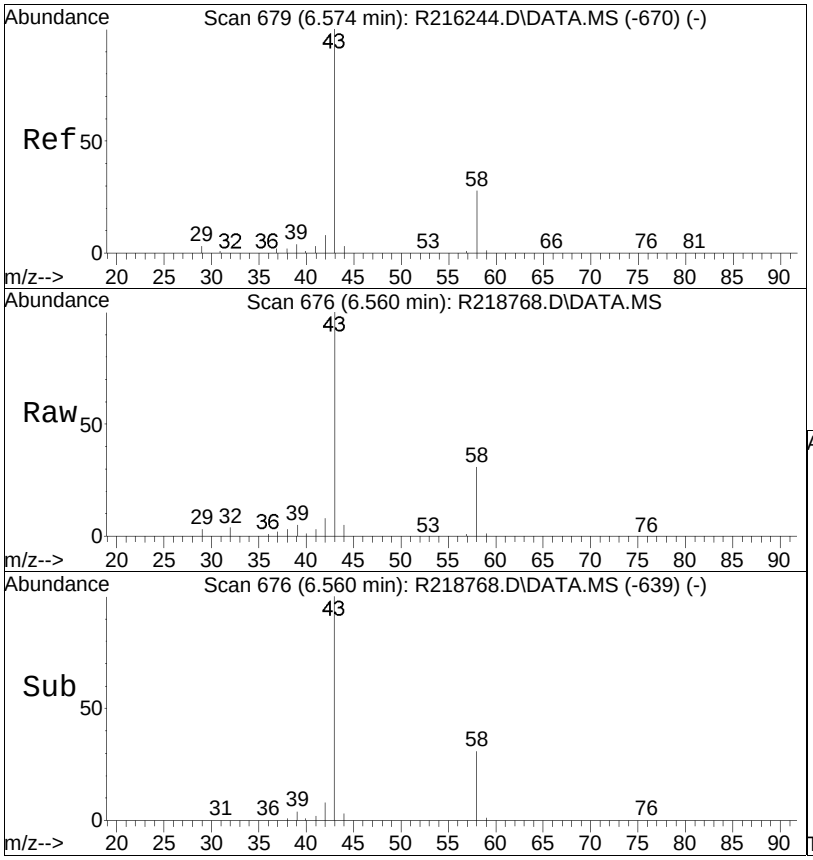


#14
chloroethane
Concen: 8.45 ppbV
RT: 5.716 min Scan# 512
Delta R.T. -0.013 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 64 Resp: 49702

Ion	Ratio	Lower	Upper
64	100		
66	30.0	26.2	39.4

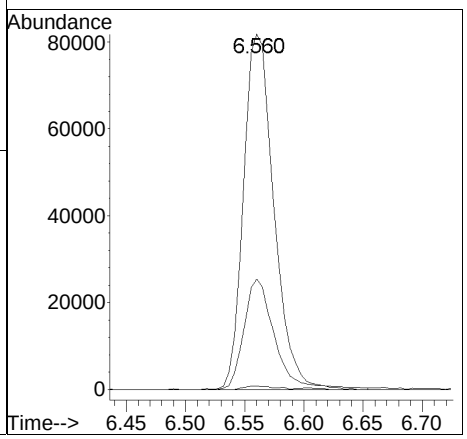


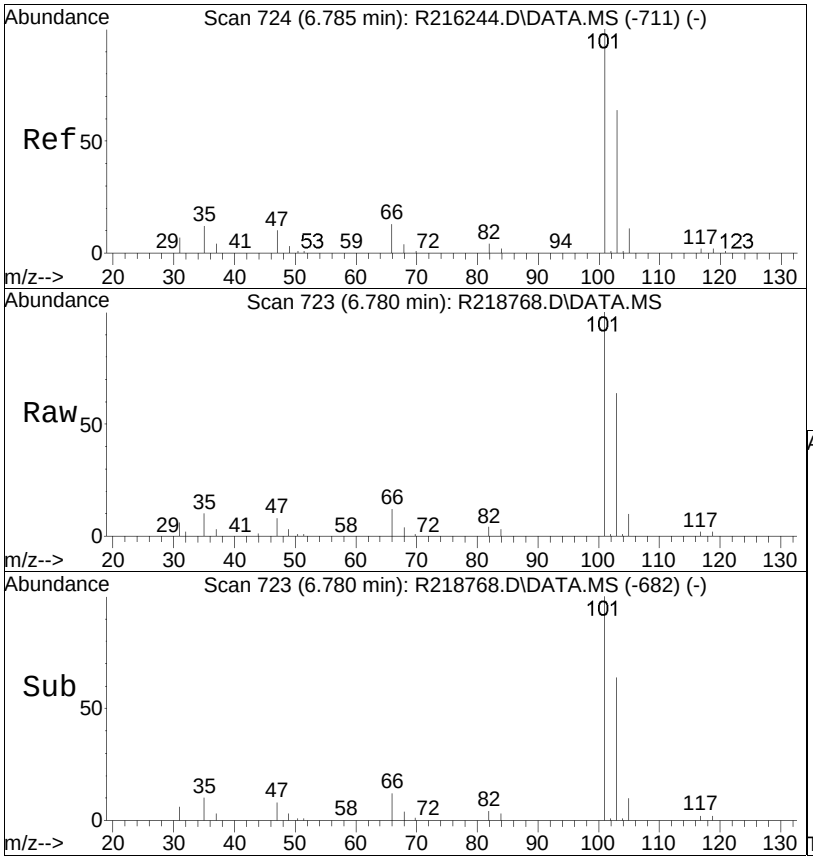


#19
acetone
Concen: 9.39 ppbV
RT: 6.560 min Scan# 676
Delta R.T. -0.014 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 43 Resp: 146628

Ion	Ratio	Lower	Upper
43	100		
58	31.1	22.2	33.2
57	0.9	0.9	1.3

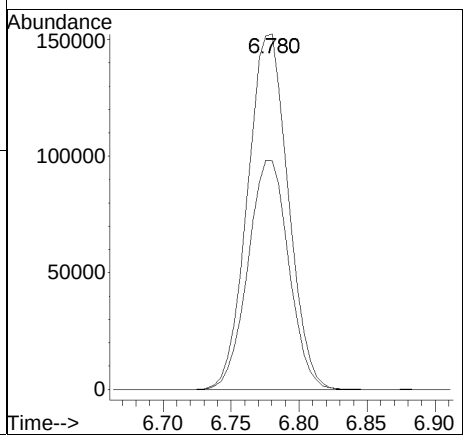


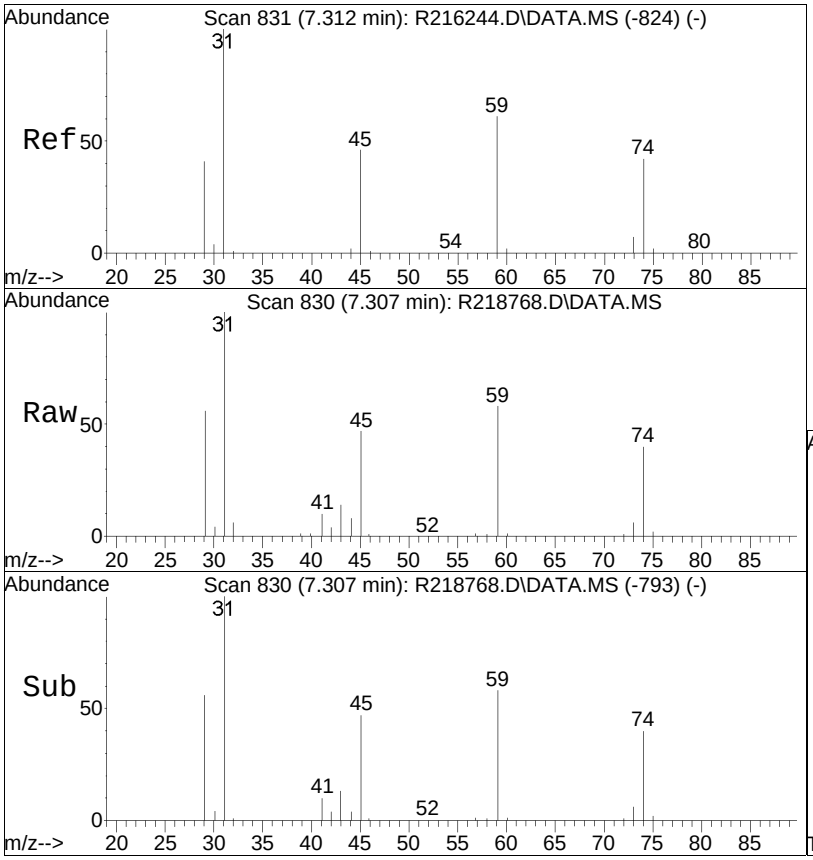


#21
trichlorofluoromethane
Concen: 8.29 ppbV
RT: 6.780 min Scan# 723
Delta R.T. -0.009 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:101 Resp: 316735

Ion	Ratio	Lower	Upper
101	100		
103	64.4	50.2	75.2

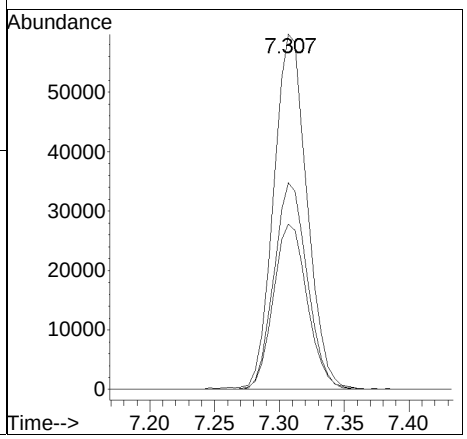


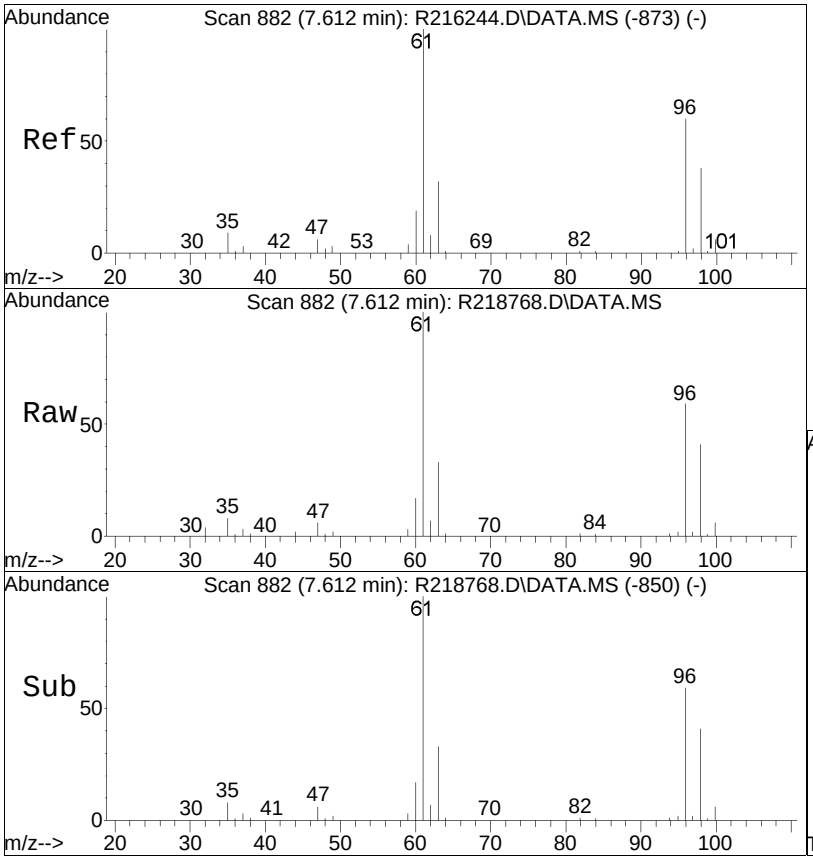


#25
ethyl ether
Concen: 8.22 ppbV
RT: 7.307 min Scan# 830
Delta R.T. -0.010 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 31 Resp: 107359

Ion	Ratio	Lower	Upper
31	100		
59	58.2	46.4	69.6
45	46.6	37.8	56.8

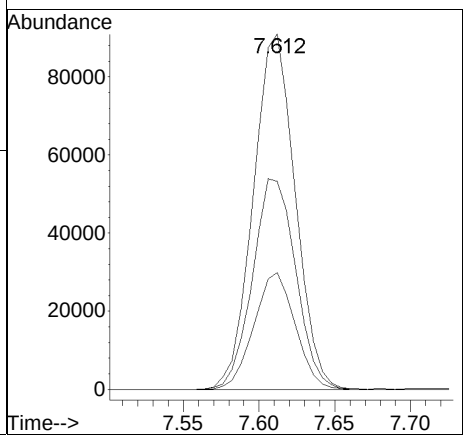


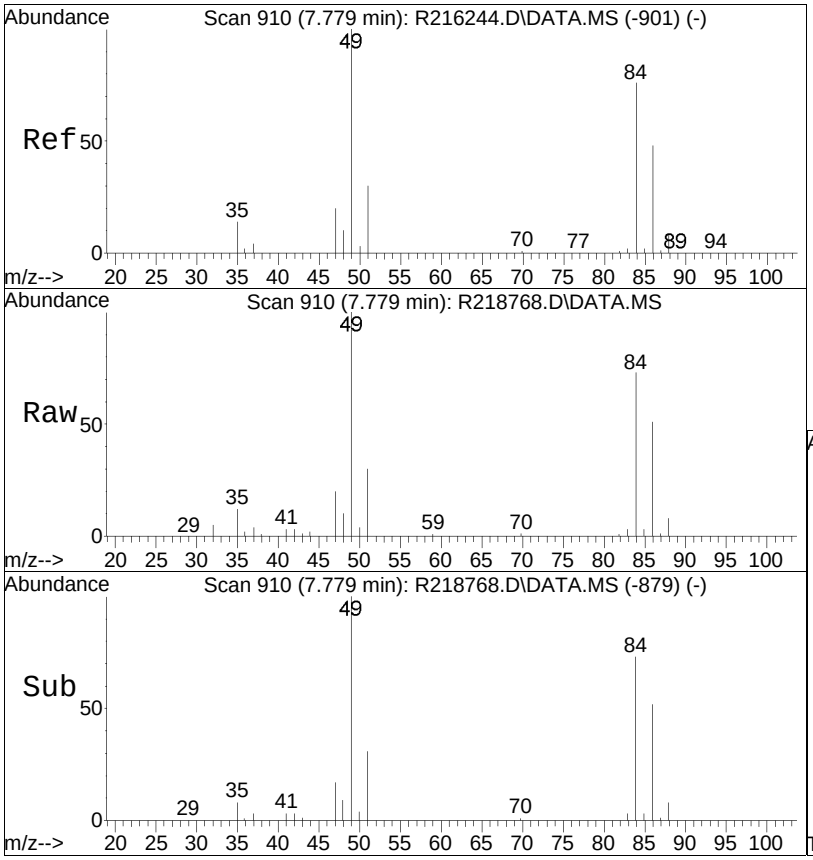


#26
1,1-dichloroethene
Concen: 8.27 ppbV
RT: 7.612 min Scan# 882
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 61 Resp: 175354

Ion	Ratio	Lower	Upper
61	100		
96	58.5	48.1	72.1
63	32.9	26.0	39.0

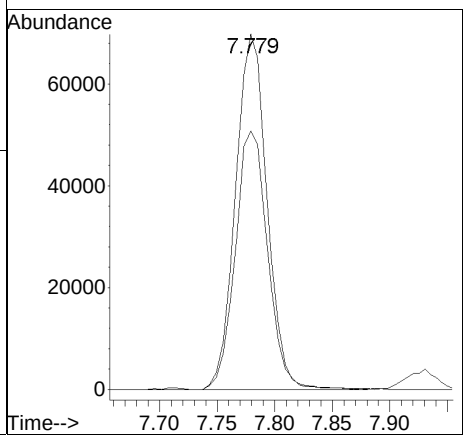


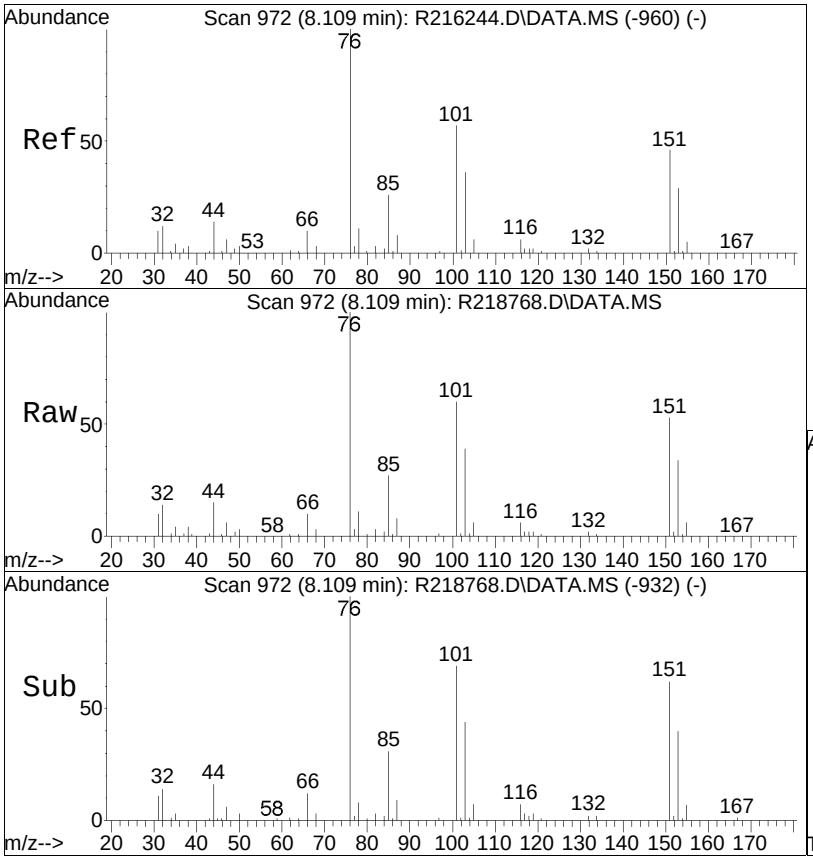


#28
methylene chloride
Concen: 8.42 ppbV
RT: 7.779 min Scan# 910
Delta R.T. -0.012 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 49 Resp: 133076

Ion	Ratio	Lower	Upper
49	100		
84	72.7	56.6	84.8

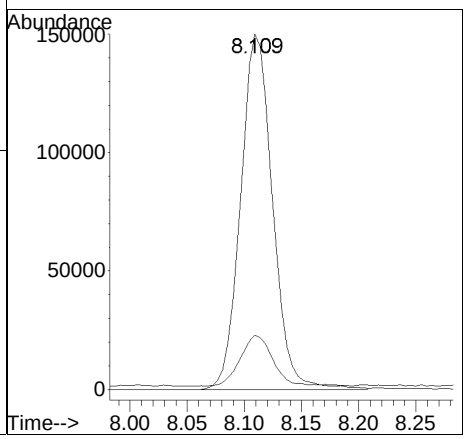


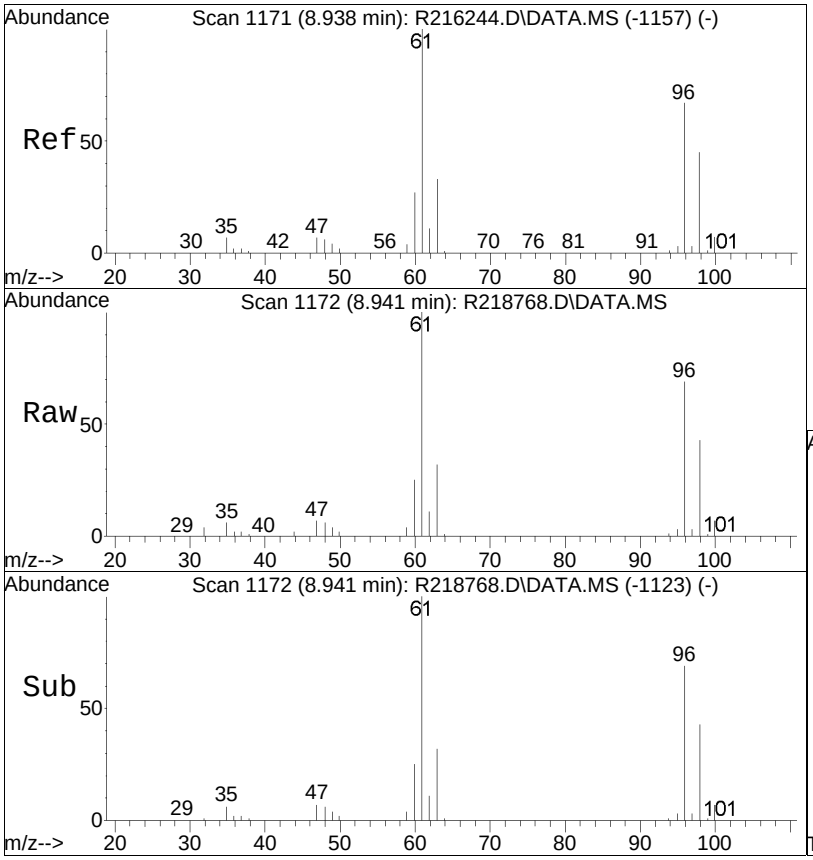


#30
carbon disulfide
Concen: 7.89 ppbV
RT: 8.109 min Scan# 972
Delta R.T. -0.009 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 76 Resp: 291779

Ion	Ratio	Lower	Upper
76	100		
44	15.3	12.2	18.4

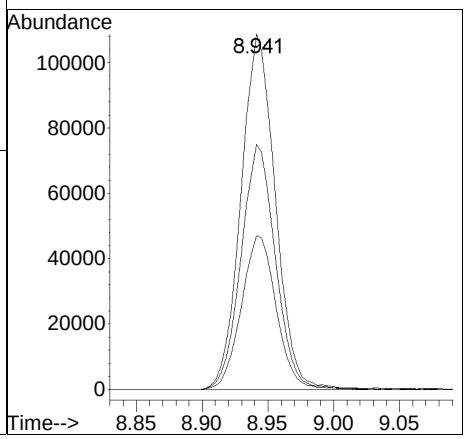


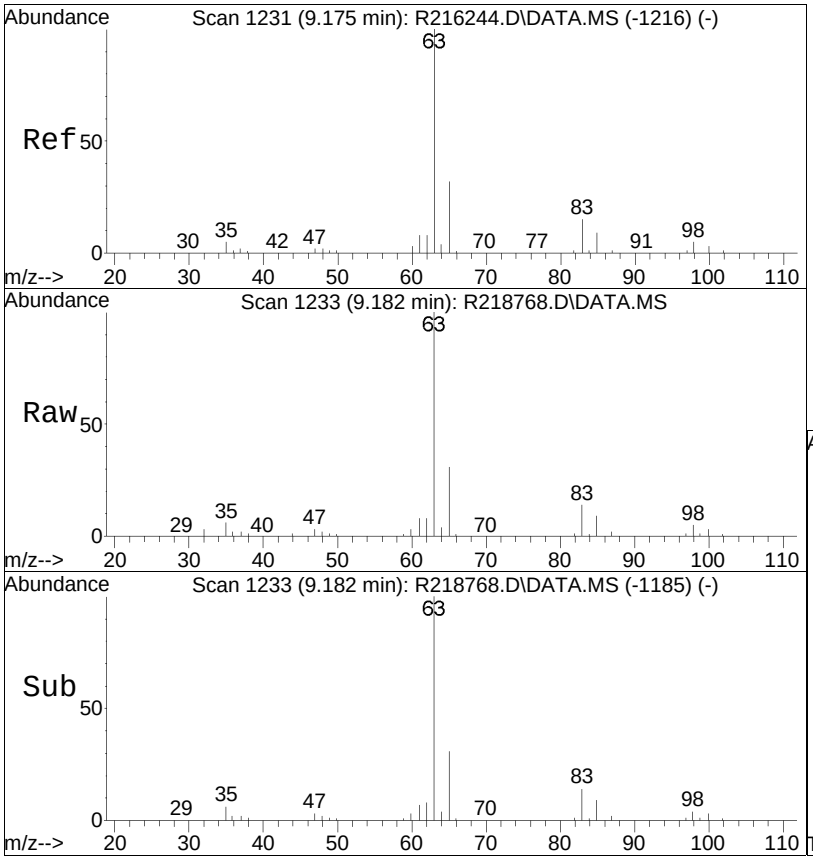


#32
trans-1,2-dichloroethene
Concen: 8.19 ppbV
RT: 8.941 min Scan# 1172
Delta R.T. -0.012 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 61 Resp: 209662

Ion	Ratio	Lower	Upper
61	100		
96	69.0	52.2	78.2
98	43.3	33.4	50.2

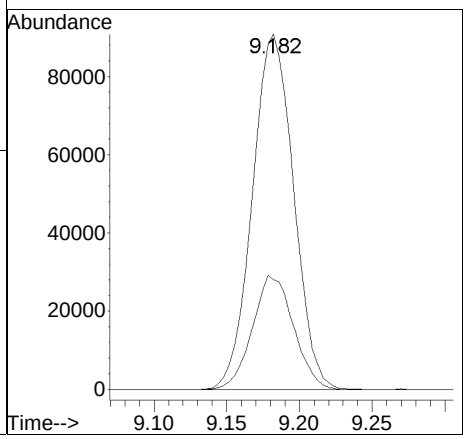


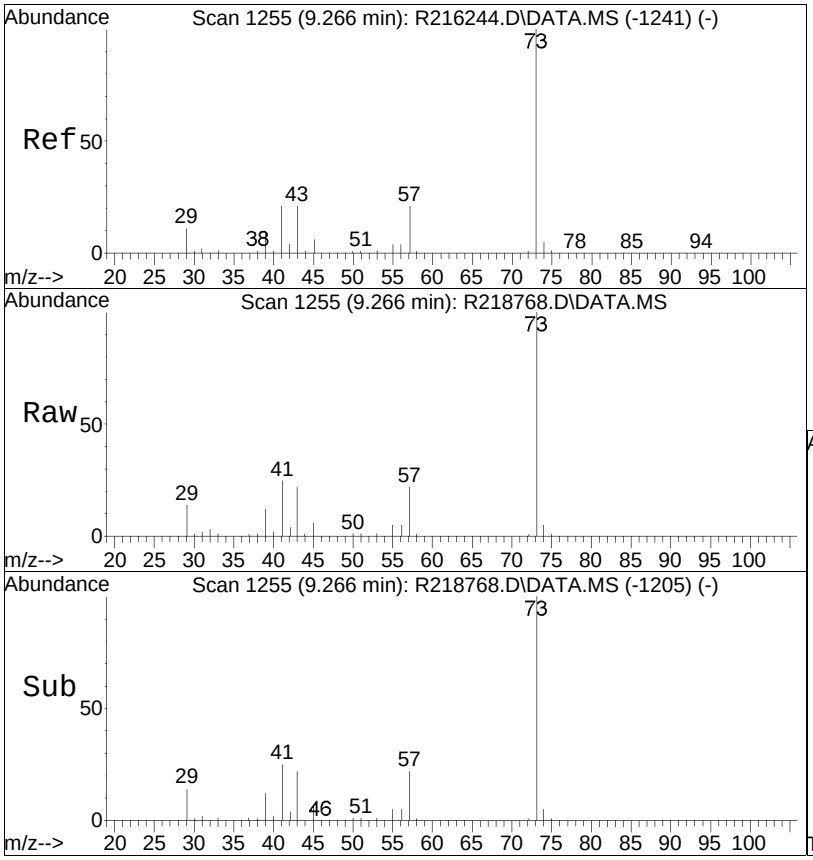


#33
1,1-dichloroethane
Concen: 7.81 ppbV
RT: 9.182 min Scan# 1233
Delta R.T. -0.008 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 63 Resp: 179020

Ion	Ratio	Lower	Upper
63	100		
65	30.9	25.8	38.6

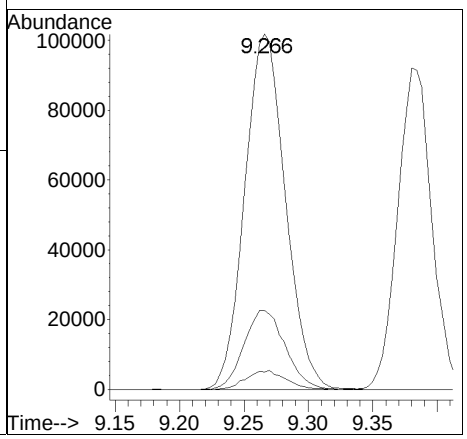


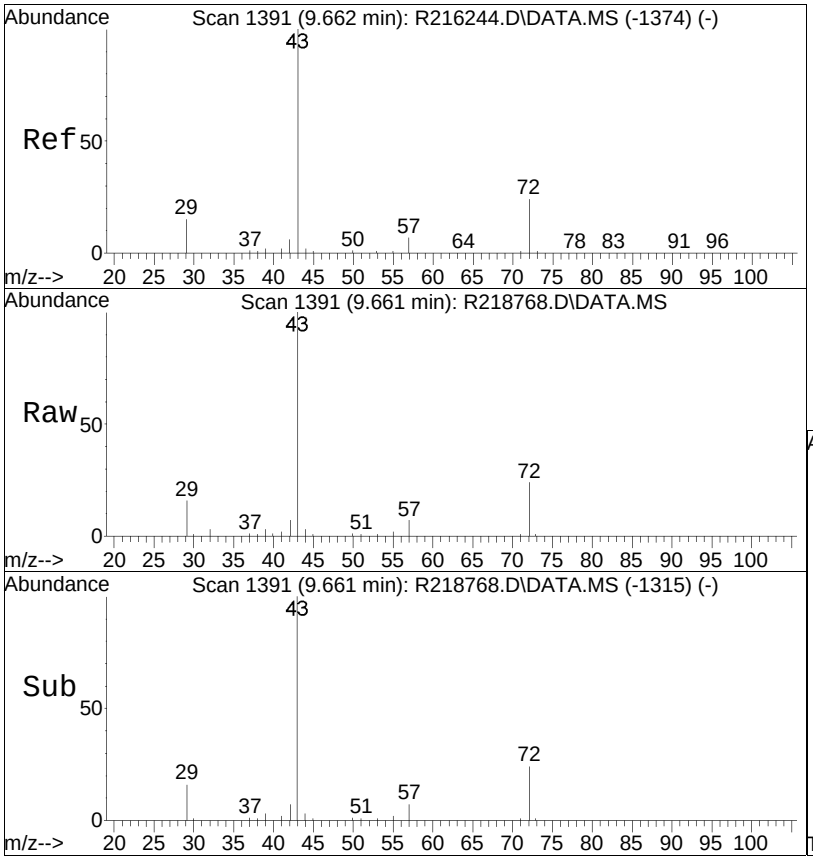


#34
MTBE
Concen: 8.31 ppbV
RT: 9.266 min Scan# 1255
Delta R.T. -0.008 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 73 Resp: 223194

Ion	Ratio	Lower	Upper
73	100		
55	4.9	4.3	6.5
43	22.2	17.9	26.9

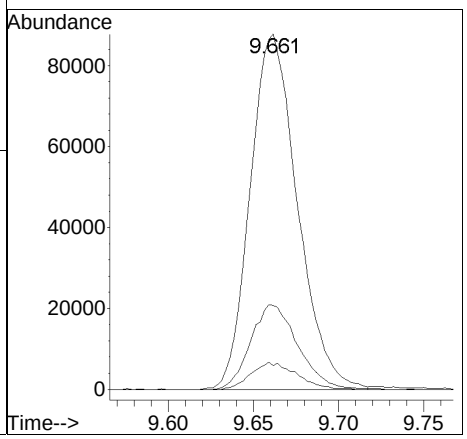


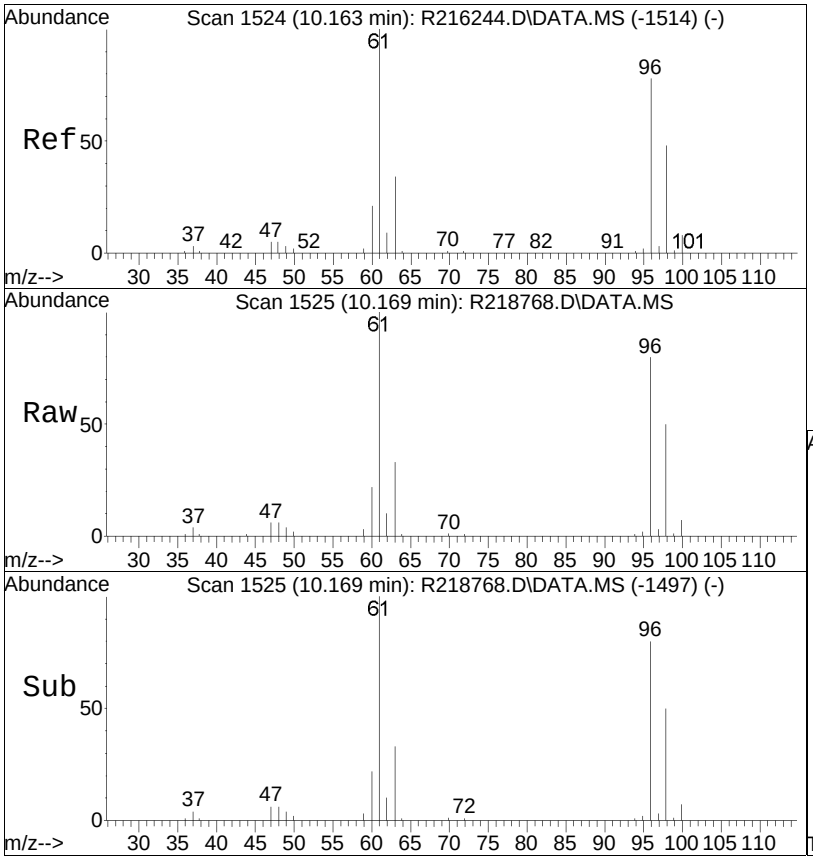


#36
2-butanone
Concen: 8.71 ppbV
RT: 9.661 min Scan# 1391
Delta R.T. -0.008 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 43 Resp: 169147

Ion	Ratio	Lower	Upper
43	100		
72	23.6	17.6	26.4
57	6.7	5.6	8.4

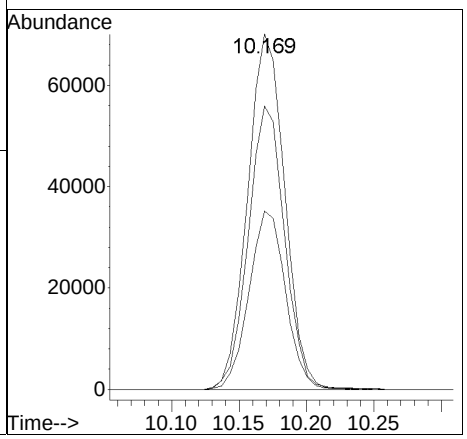


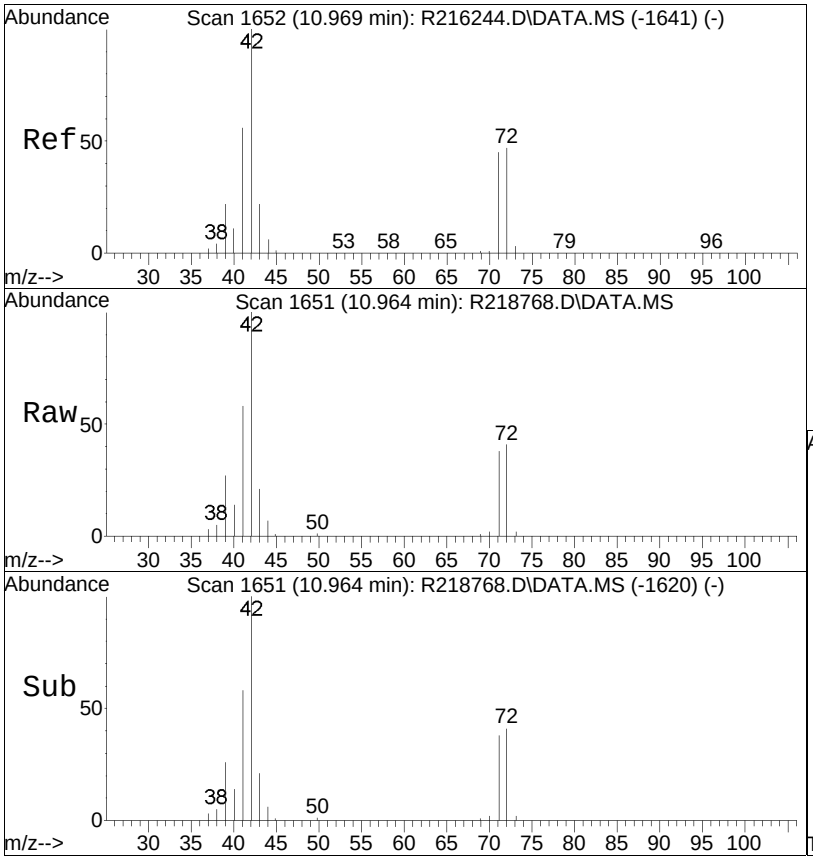


#37
cis-1,2-dichloroethene
Concen: 8.29 ppbV
RT: 10.169 min Scan# 1525
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 61 Resp: 134292

Ion	Ratio	Lower	Upper
61	100		
96	79.7	57.4	86.2
98	50.2	35.3	52.9

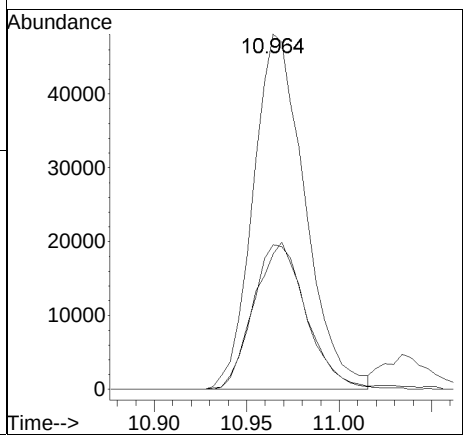


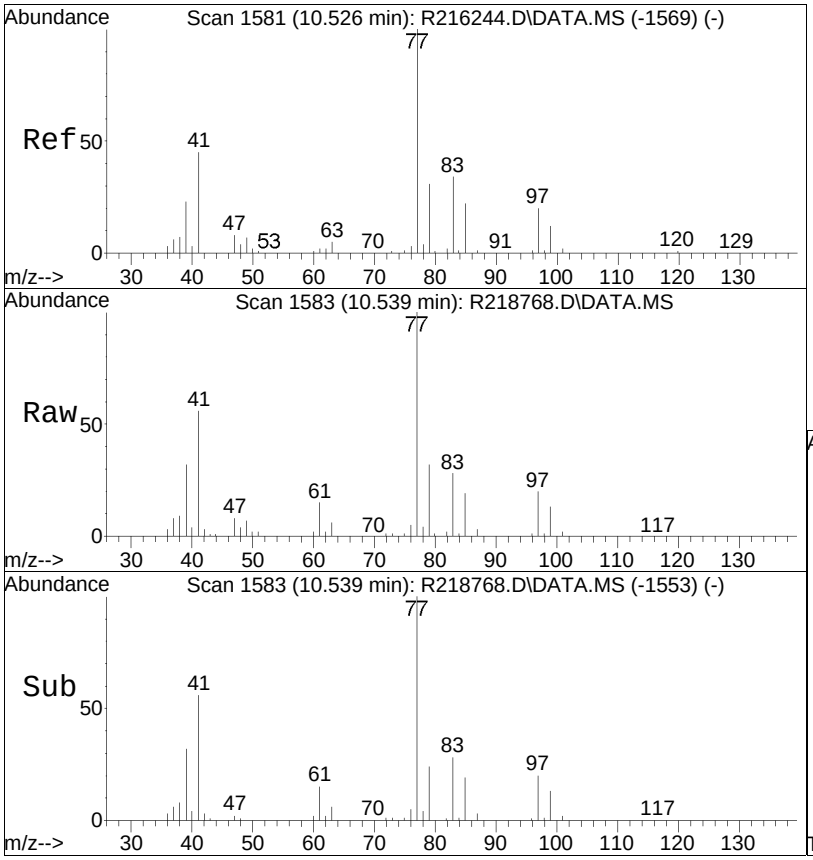


#40
Tetrahydrofuran
Concen: 9.63 ppbV
RT: 10.964 min Scan# 1651
Delta R.T. -0.009 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 42 Resp: 93667

Ion	Ratio	Lower	Upper
42	100		
71	38.1	31.9	47.9
72	40.7	32.6	48.8

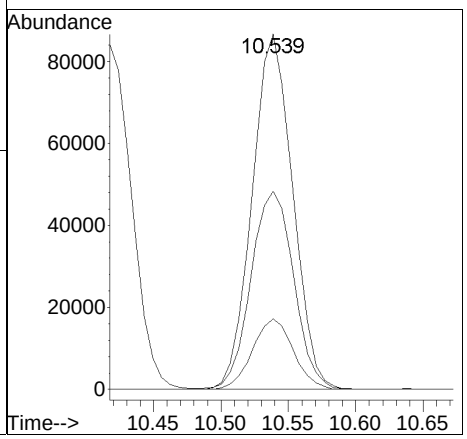


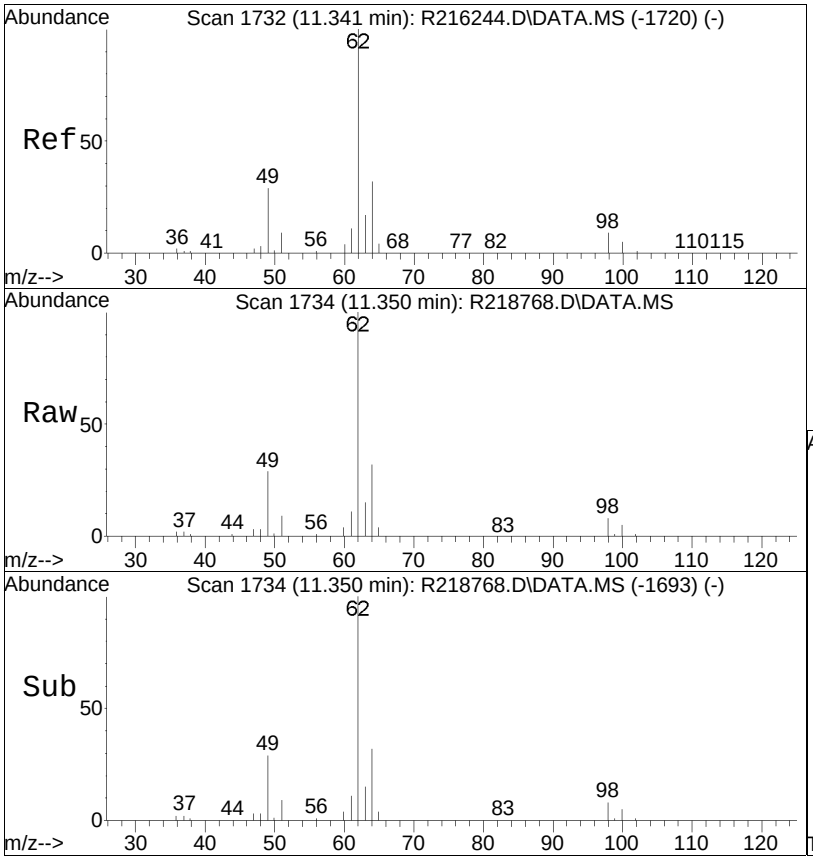


#41
2,2-dichloropropane
Concen: 8.36 ppbV
RT: 10.539 min Scan# 1583
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 77 Resp: 181402

Ion	Ratio	Lower	Upper
77	100		
41	55.7	48.1	72.1
97	19.8	15.7	23.5

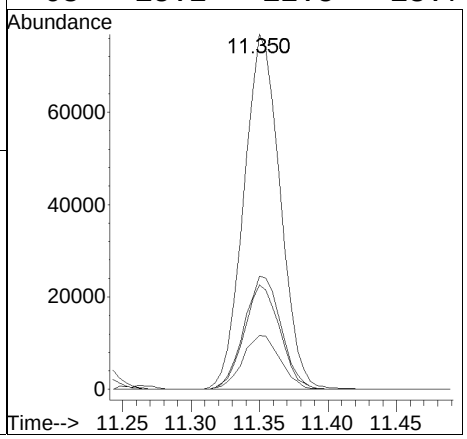


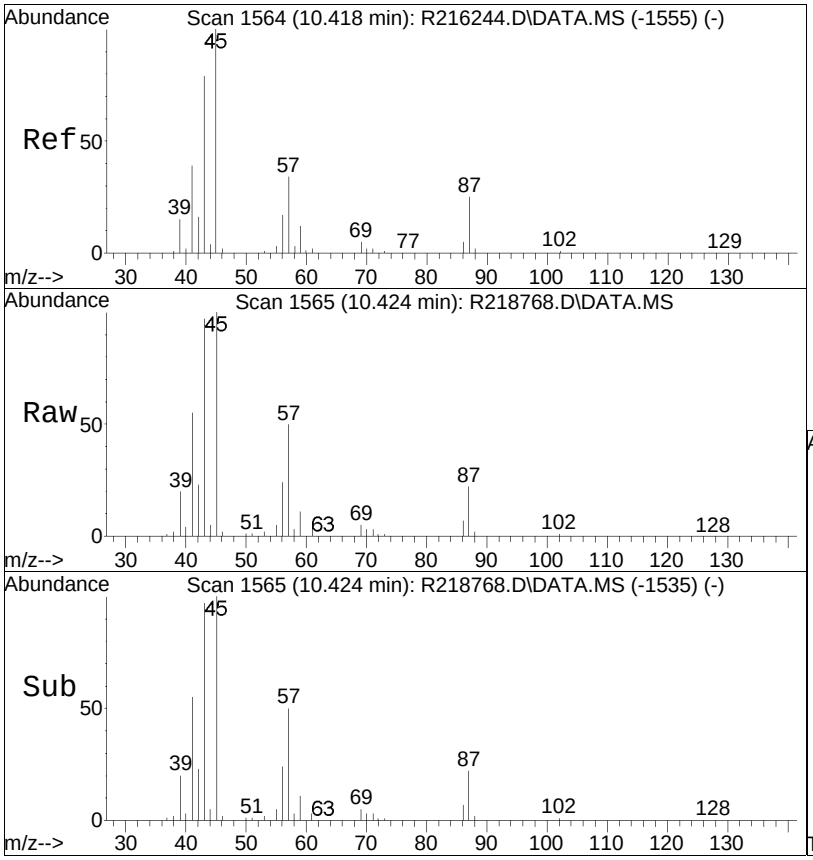


#42
1,2-dichloroethane
Concen: 9.08 ppbV
RT: 11.350 min Scan# 1734
Delta R.T. -0.009 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 62 Resp: 141493

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.4	36.6
49	29.4	23.3	34.9
63	15.2	12.5	18.7

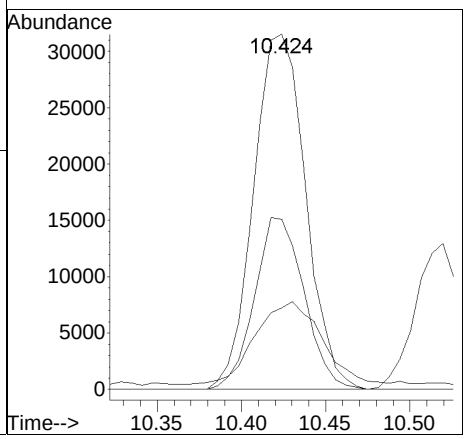


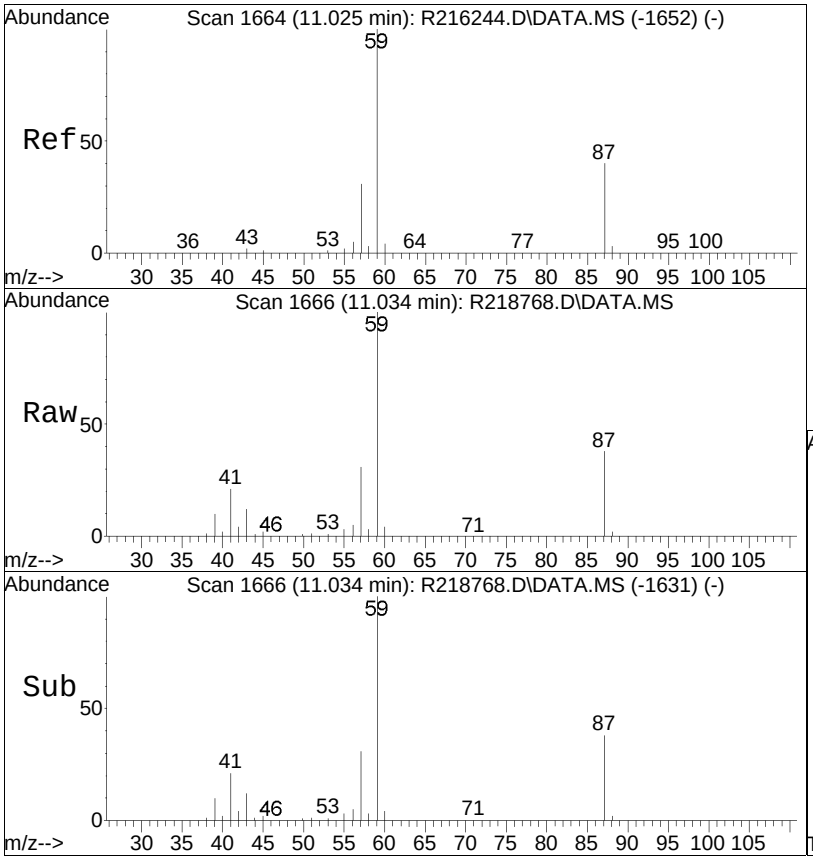


#45
diisopropyl ether
Concen: 8.68 ppbV
RT: 10.424 min Scan# 1565
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 87 Resp: 67691

Ion	Ratio	Lower	Upper
87	100		
59	47.8	40.7	61.1
44	23.0	30.2	45.4#

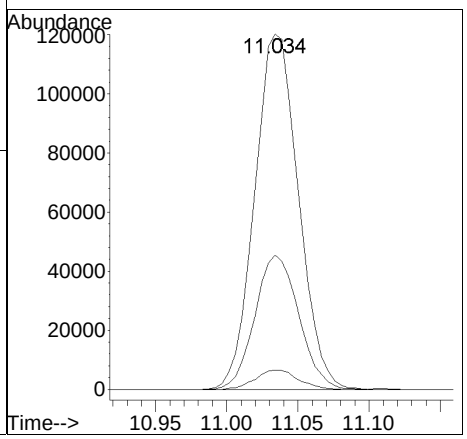


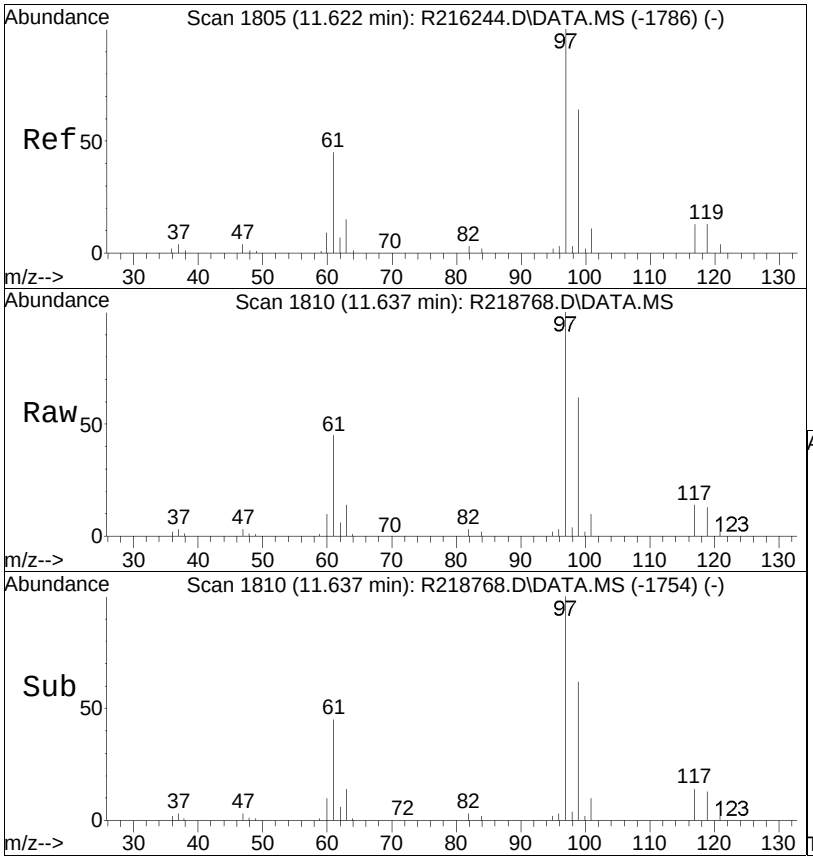


#46
tert-butyl ethyl ether
Concen: 8.78 ppbV
RT: 11.034 min Scan# 1666
Delta R.T. -0.009 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 59 Resp: 257004

Ion	Ratio	Lower	Upper
59	100		
87	37.8	31.1	46.7
56	5.4	4.1	6.1

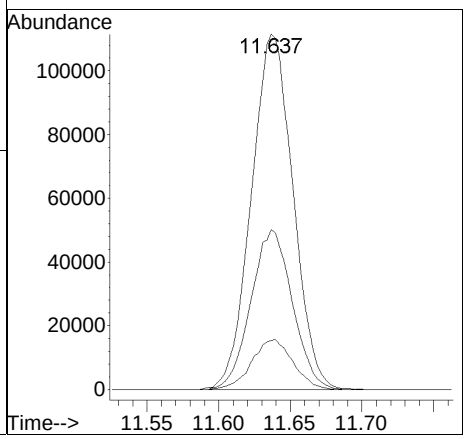


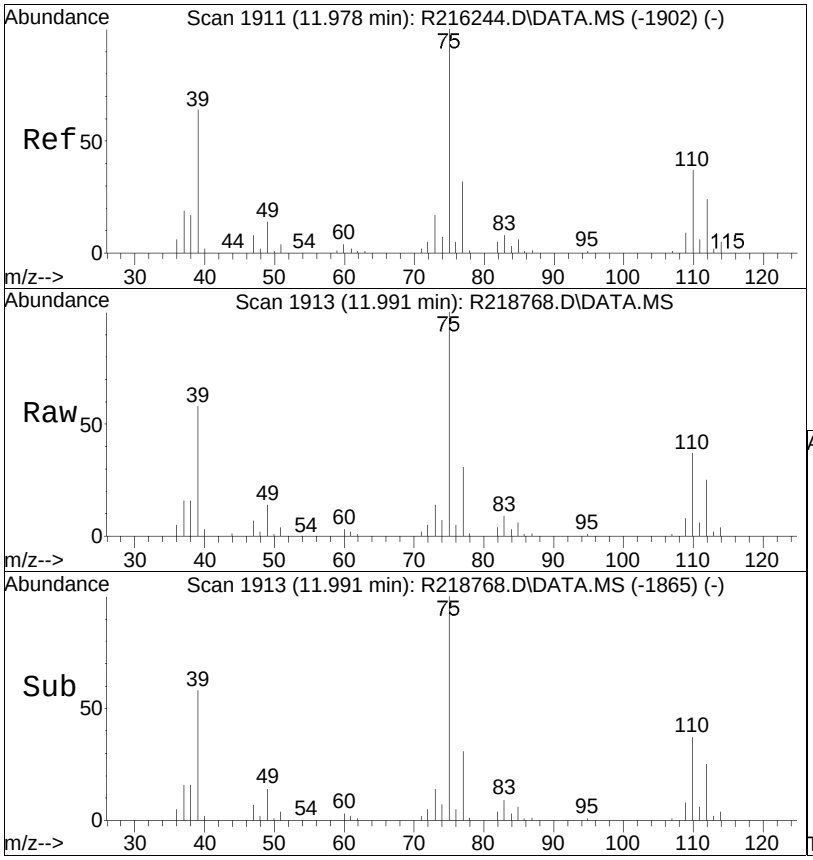


#48
1,1,1-trichloroethane
Concen: 8.34 ppbV
RT: 11.637 min Scan# 1810
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 97 Resp: 225293

Ion	Ratio	Lower	Upper
97	100		
61	45.0	34.6	51.8
117	13.8	10.8	16.2

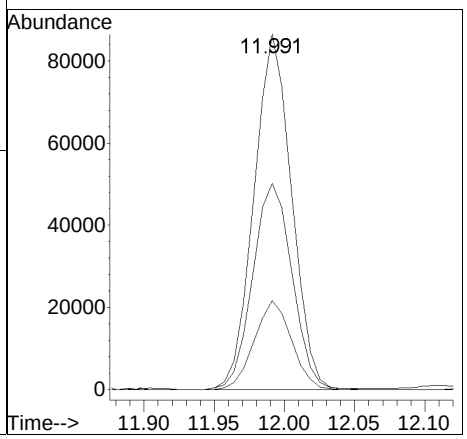


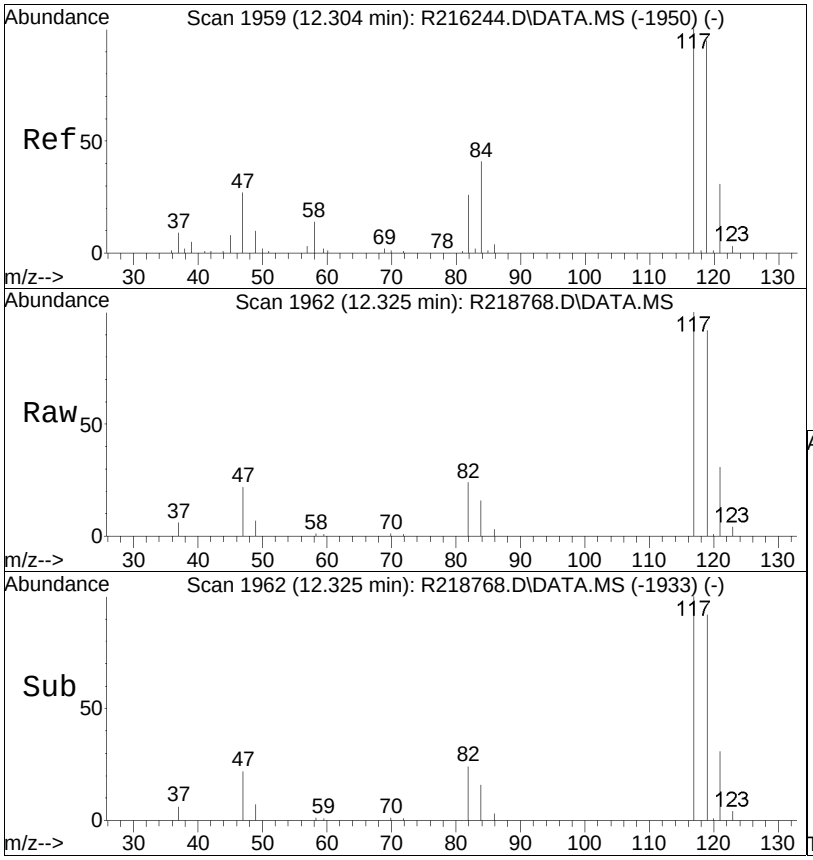


#49
1,1-dichloropropene
Concen: 8.19 ppbV
RT: 11.991 min Scan# 1913
Delta R.T. -0.007 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 75 Resp: 160819

Ion	Ratio	Lower	Upper
75	100		
112	25.0	17.8	26.8
39	58.0	48.6	73.0

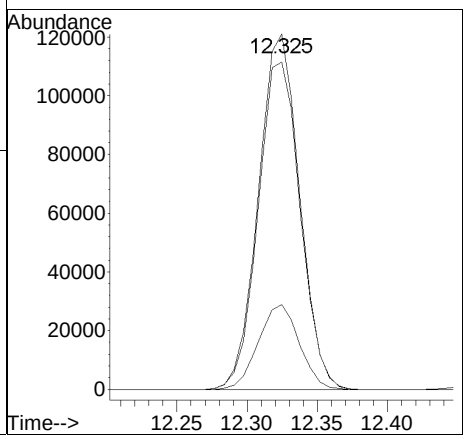


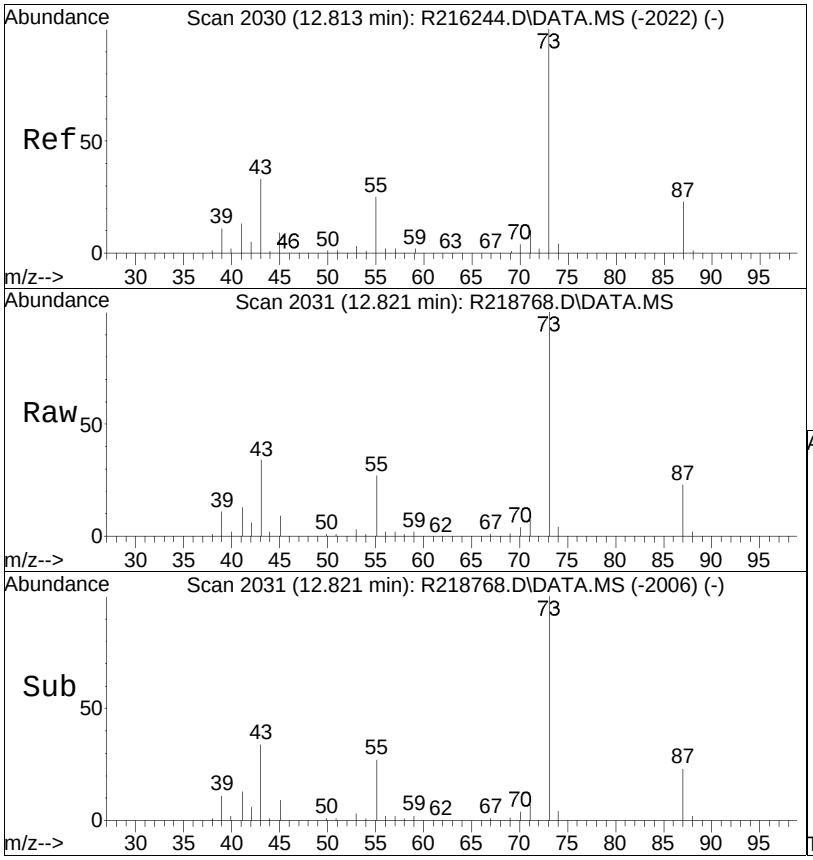


#52
carbon tetrachloride
Concen: 8.26 ppbV
RT: 12.325 min Scan# 1962
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:117 Resp: 246324

Ion	Ratio	Lower	Upper
117	100		
119	92.1	76.8	115.2
82	23.8	19.4	29.0

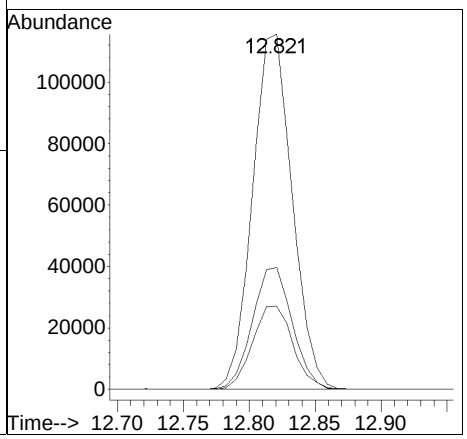


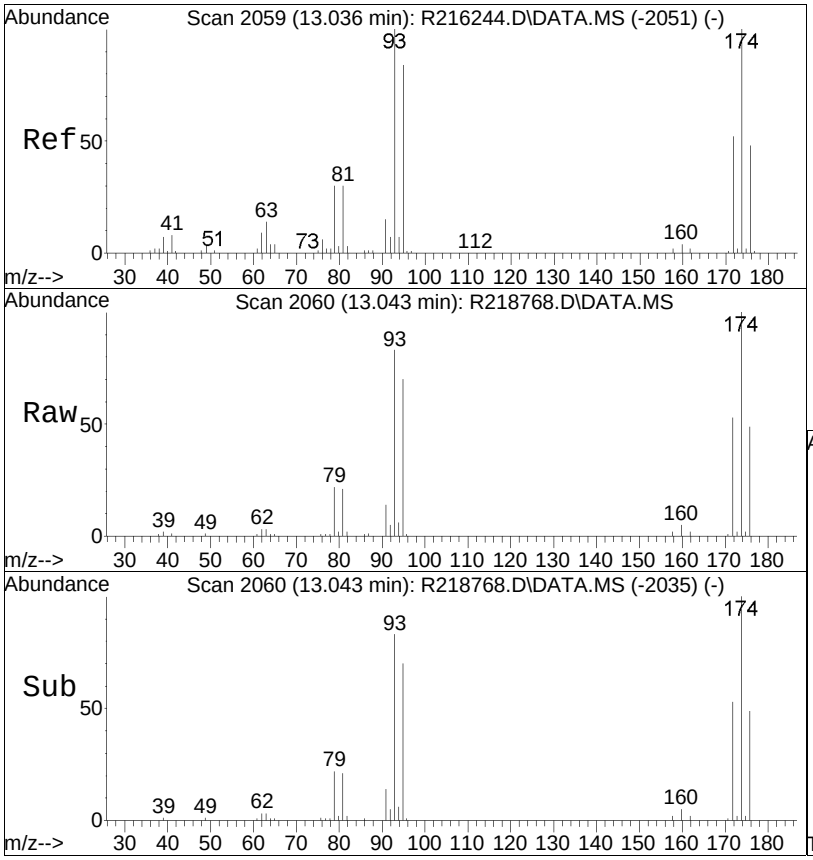


#54
tert-amyl methyl ether
Concen: 9.00 ppbV
RT: 12.821 min Scan# 2031
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 73 Resp: 241881

Ion	Ratio	Lower	Upper
73	100		
43	34.3	30.5	45.7
87	23.4	19.8	29.6

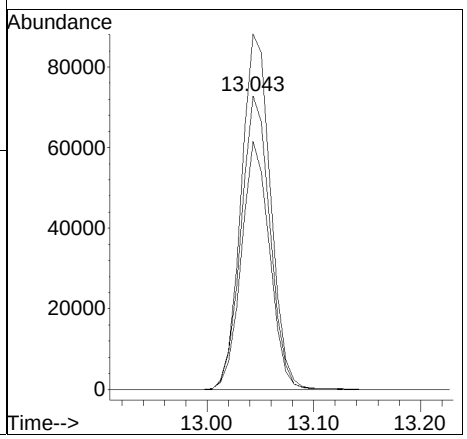


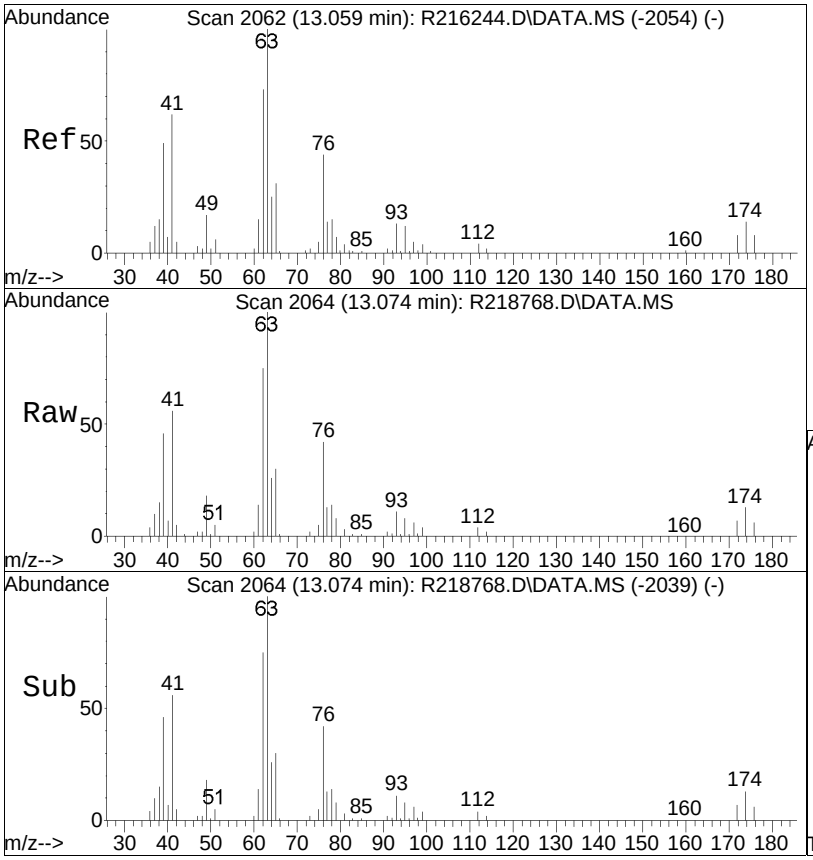


#55
dibromomethane
Concen: 8.03 ppbV
RT: 13.043 min Scan# 2060
Delta R.T. -0.008 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 93 Resp: 137325

Ion	Ratio	Lower	Upper
93	100		
174	121.1	79.0	118.4#
95	84.5	68.4	102.6

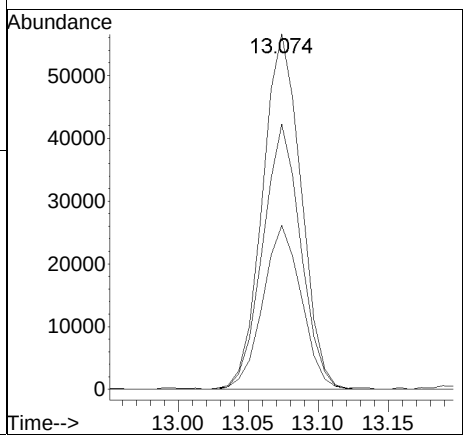


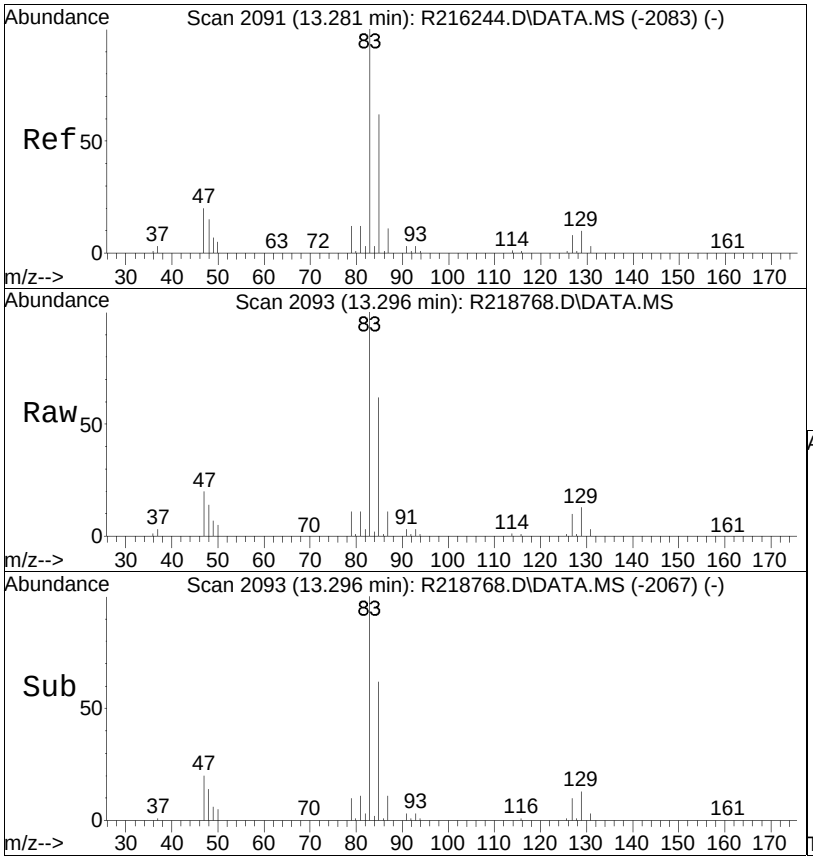


#56
1,2-dichloropropane
Concen: 8.76 ppbV
RT: 13.074 min Scan# 2064
Delta R.T. -0.008 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 63 Resp: 108348

Ion	Ratio	Lower	Upper
63	100		
62	74.6	57.4	86.2
39	46.2	35.2	52.8

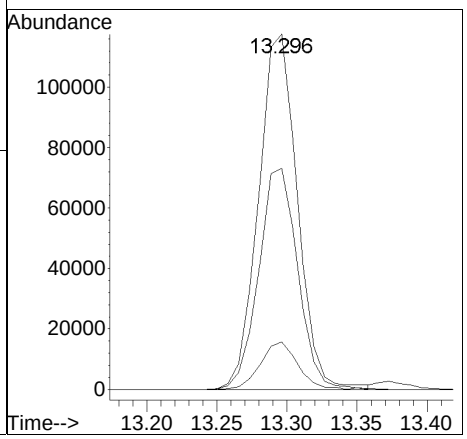


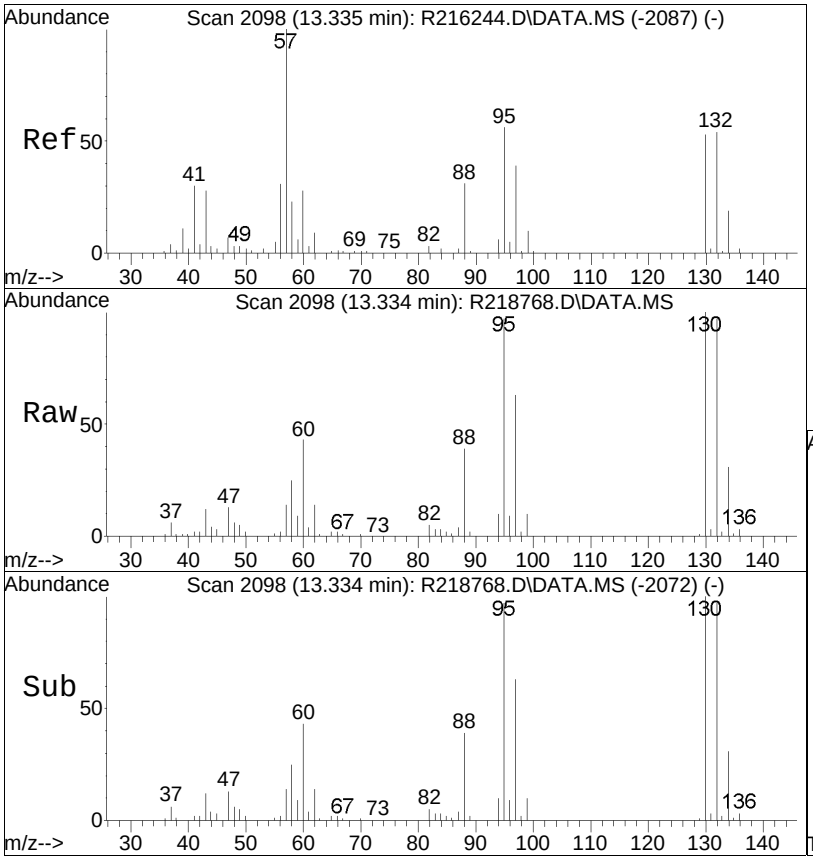


#57
bromodichloromethane
Concen: 8.31 ppbV
RT: 13.296 min Scan# 2093
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 83 Resp: 226724

Ion	Ratio	Lower	Upper
83	100		
85	62.2	51.7	77.5
129	13.4	9.2	13.8

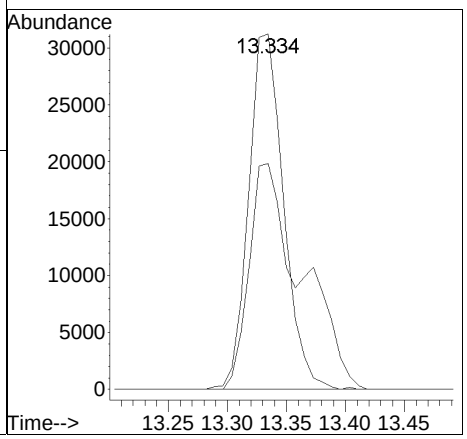


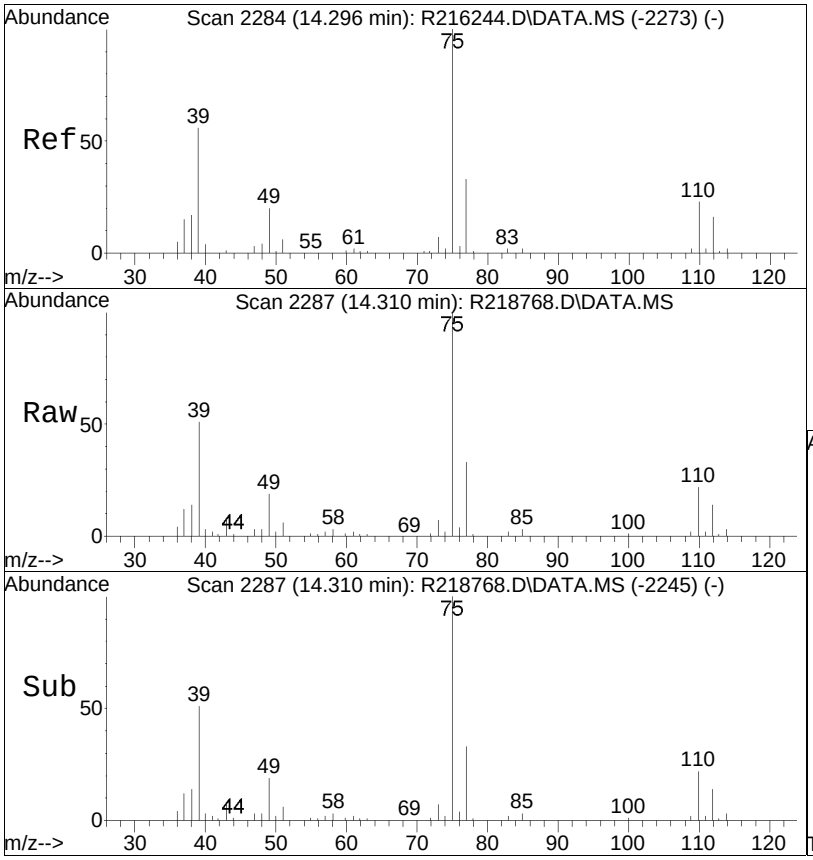


#58
1,4-dioxane
Concen: 9.82 ppbV
RT: 13.334 min Scan# 2098
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 88 Resp: 64357

Ion	Ratio	Lower	Upper
88	100		
58	63.6	66.6	99.8#

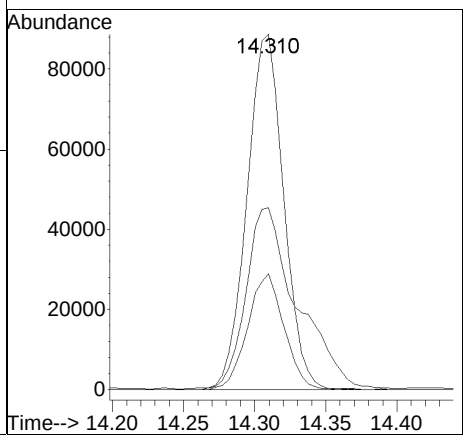


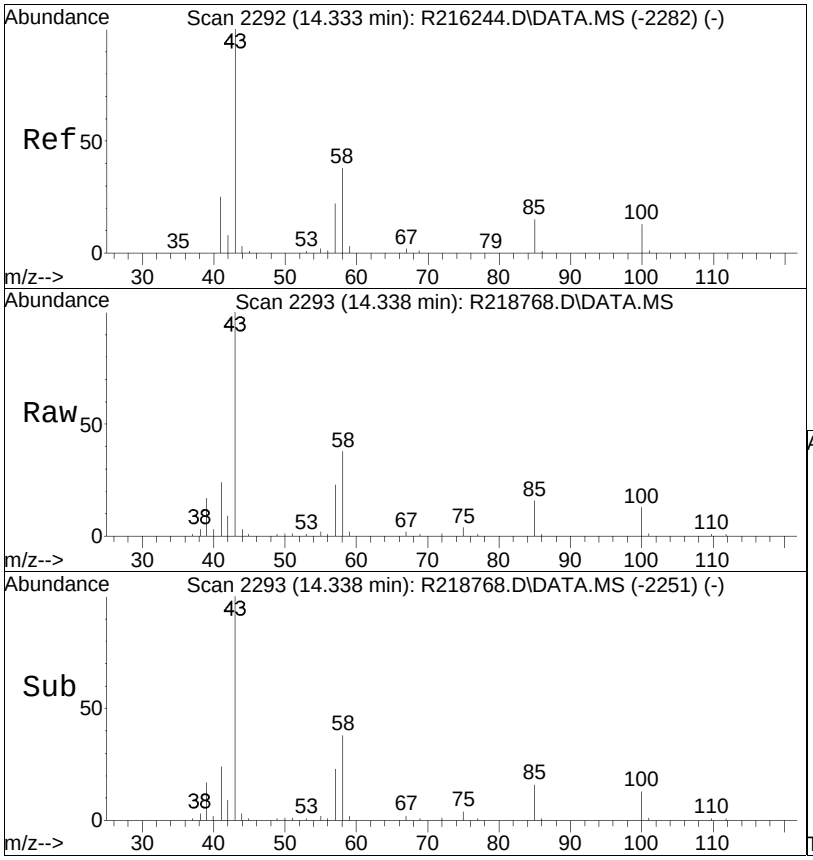


#63
cis-1,3-dichloropropene
Concen: 9.00 ppbV
RT: 14.310 min Scan# 2287
Delta R.T. -0.005 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 75 Resp: 159024

Ion	Ratio	Lower	Upper
75	100		
39	51.2	42.0	63.0
77	32.5	24.0	36.0

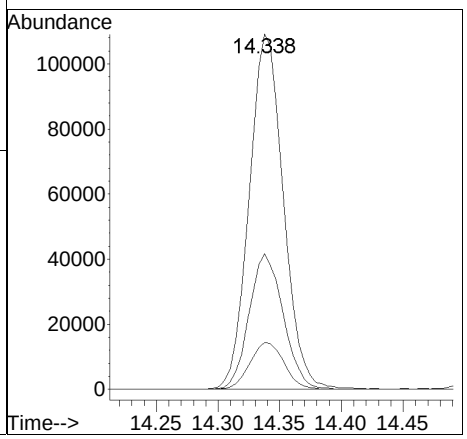


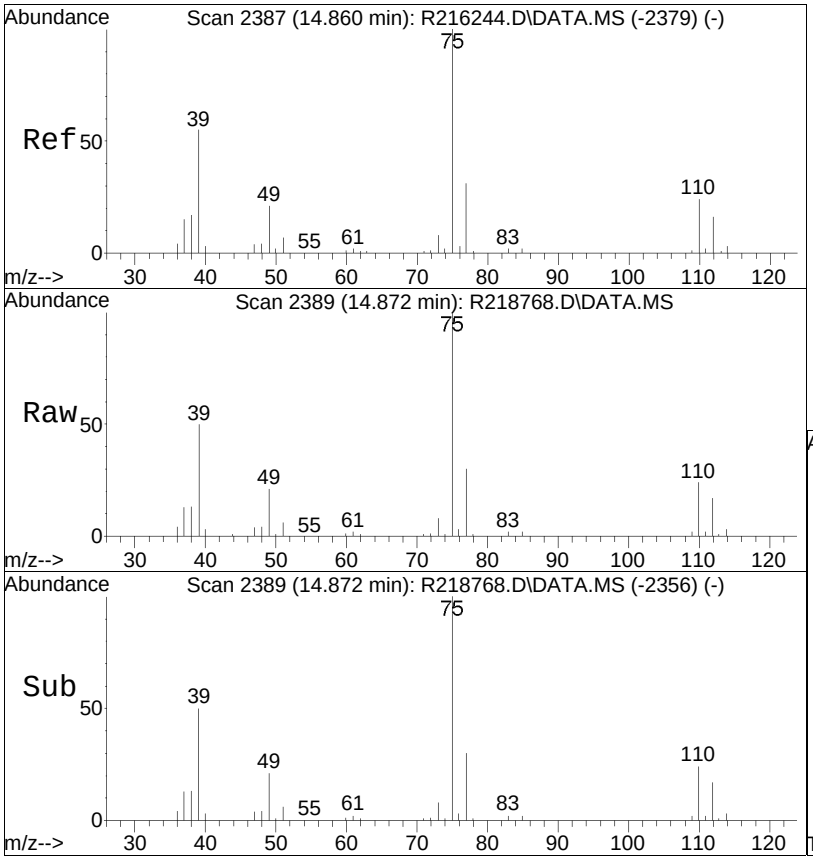


#64
4-methyl-2-pentanone
Concen: 9.56 ppbV
RT: 14.338 min Scan# 2293
Delta R.T. -0.005 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 43 Resp: 210541

Ion	Ratio	Lower	Upper
43	100		
58	38.2	29.0	43.4
100	13.2	9.2	13.8

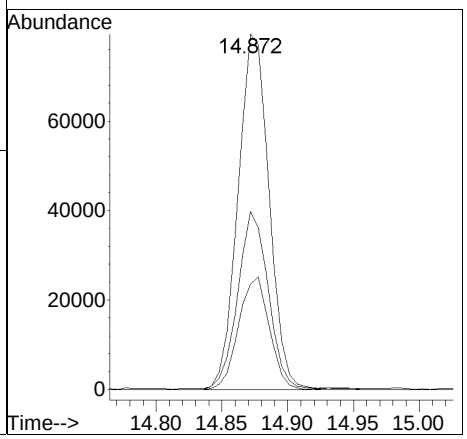


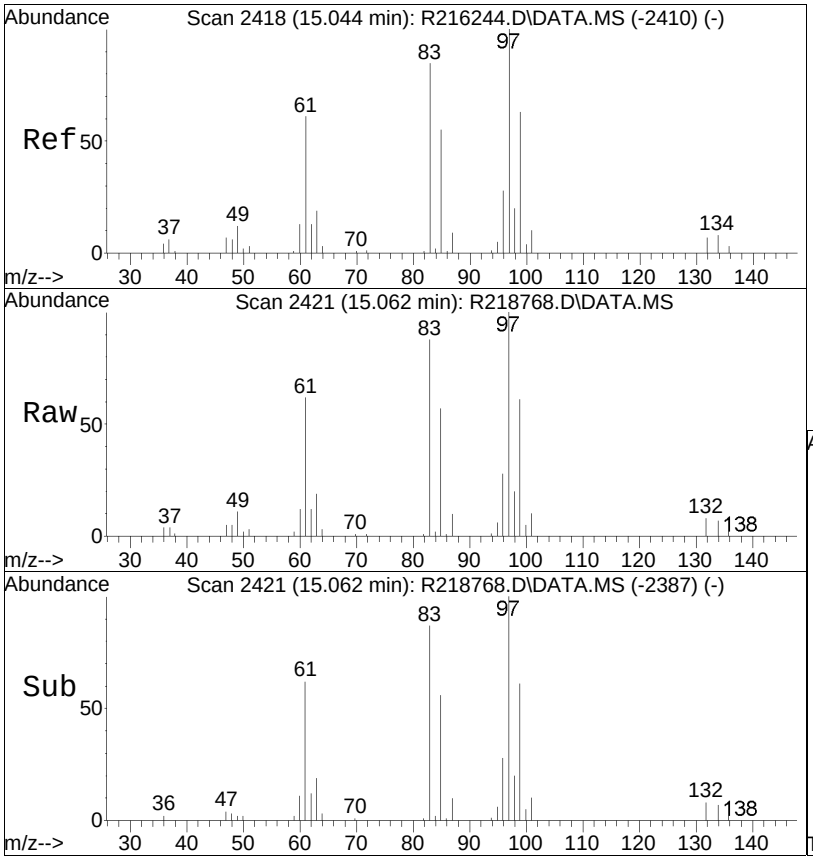


#66
trans-1,3-dichloropropene
Concen: 7.66 ppbV
RT: 14.872 min Scan# 2389
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 75 Resp: 130614

Ion	Ratio	Lower	Upper
75	100		
77	29.6	25.4	38.0
39	50.0	39.3	58.9

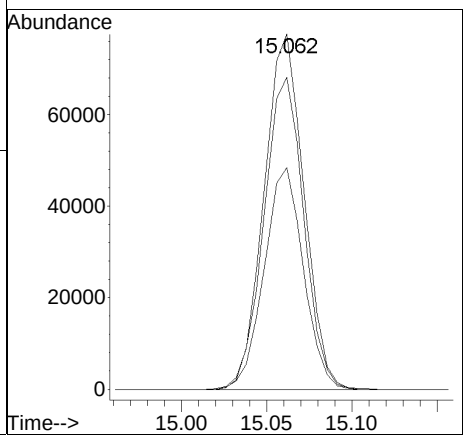


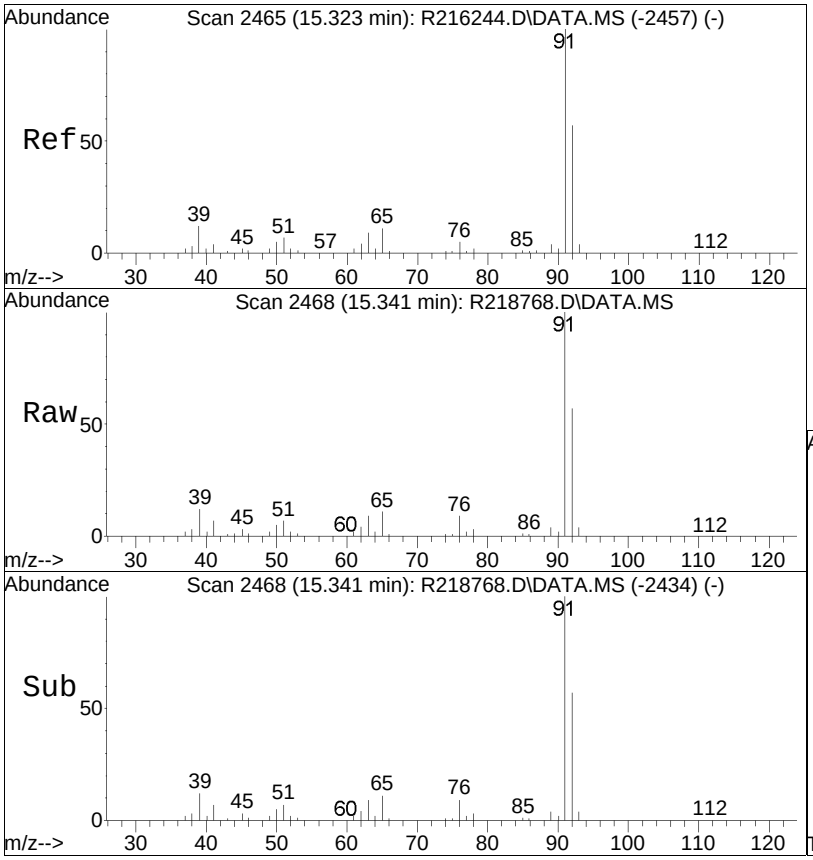


#67
1,1,2-trichloroethane
Concen: 9.21 ppbV
RT: 15.062 min Scan# 2421
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 97 Resp: 126758

Ion	Ratio	Lower	Upper
97	100		
83	87.8	68.2	102.4
61	62.4	46.1	69.1

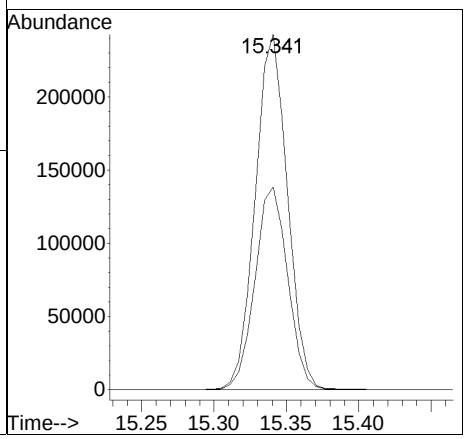


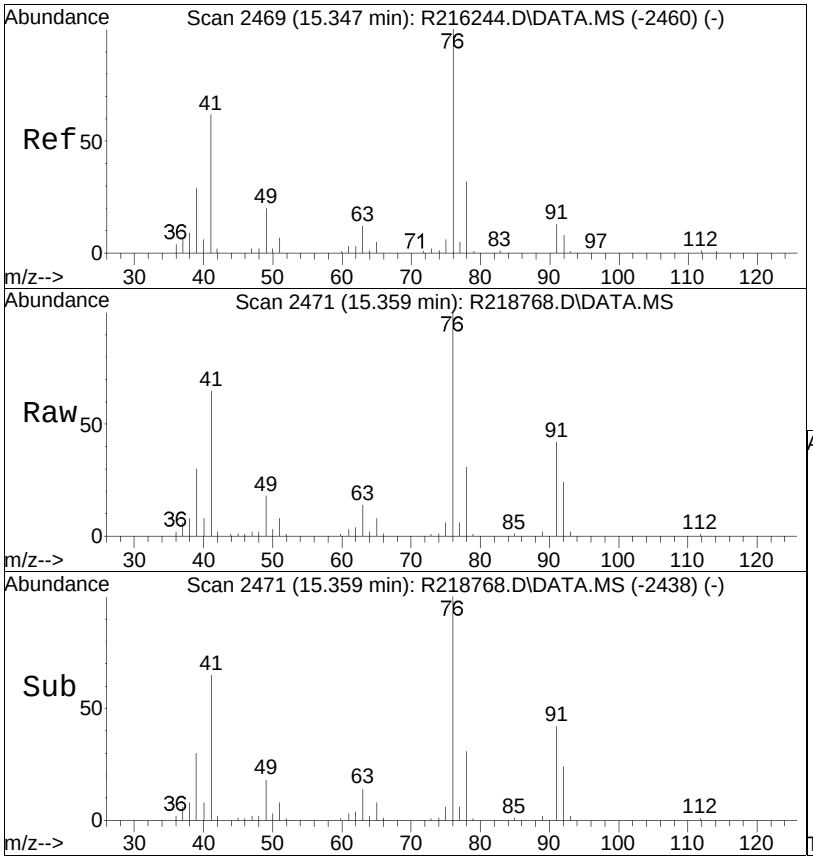


#69
toluene
Concen: 10.22 ppbV
RT: 15.341 min Scan# 2468
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 91 Resp: 374629

Ion	Ratio	Lower	Upper
91	100		
92	57.0	47.0	70.4

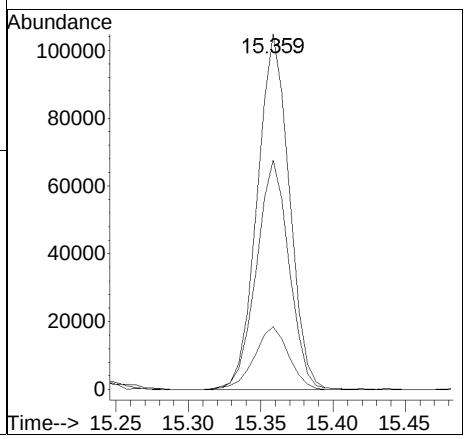


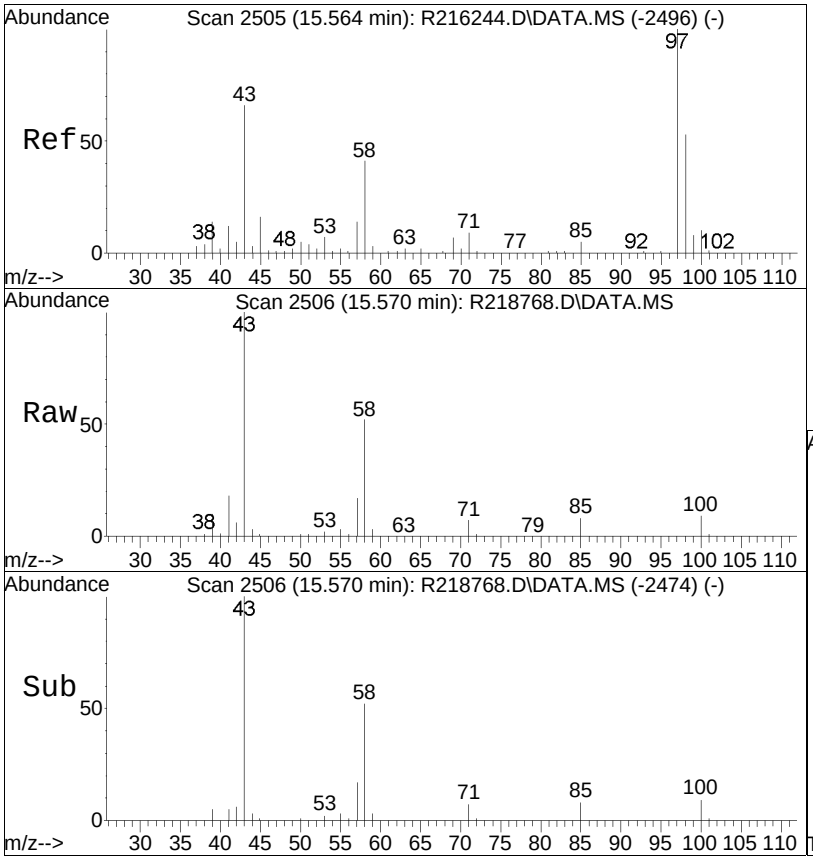


#72
1,3-dichloropropane
Concen: 9.79 ppbV
RT: 15.359 min Scan# 2471
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 76 Resp: 161151

Ion	Ratio	Lower	Upper
76	100		
41	64.5	55.0	82.4
49	17.6	13.4	20.2

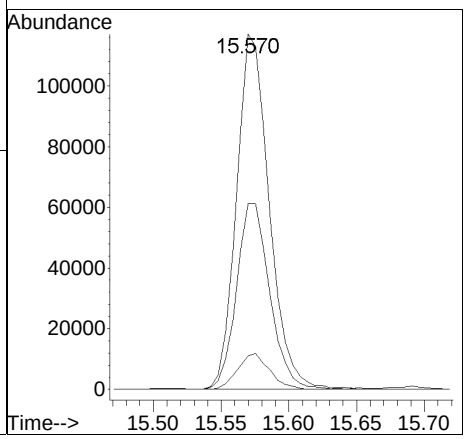


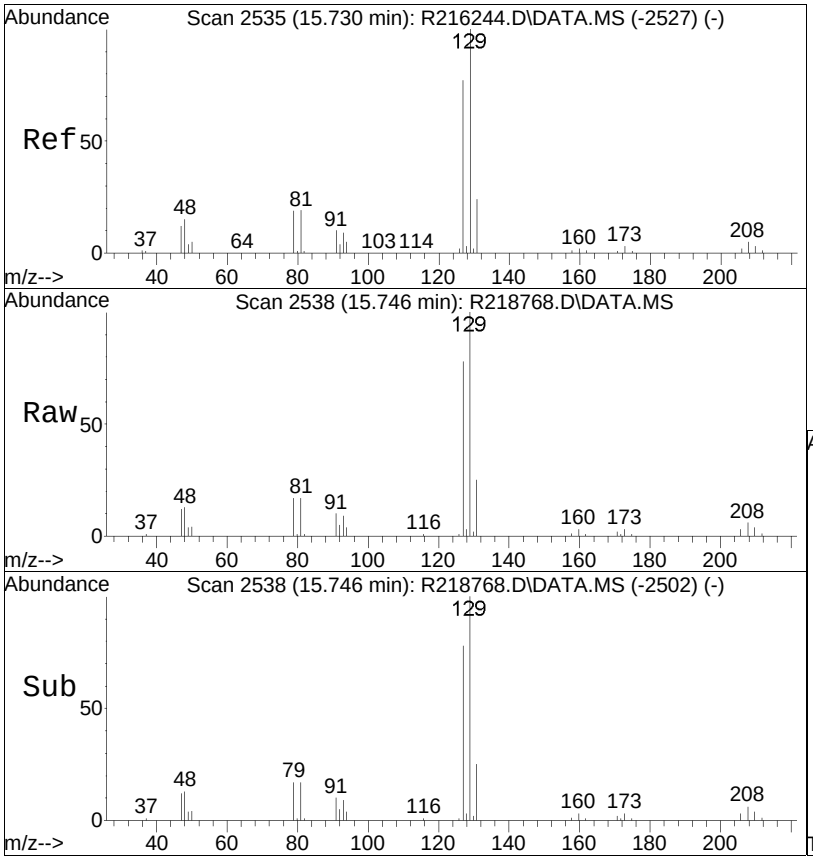


#73
2-hexanone
Concen: 10.92 ppbV
RT: 15.570 min Scan# 2506
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 43 Resp: 197201

Ion	Ratio	Lower	Upper
43	100		
58	52.3	43.5	65.3
100	9.4	8.5	12.7

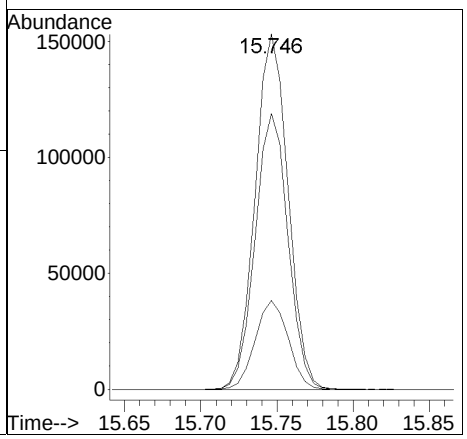


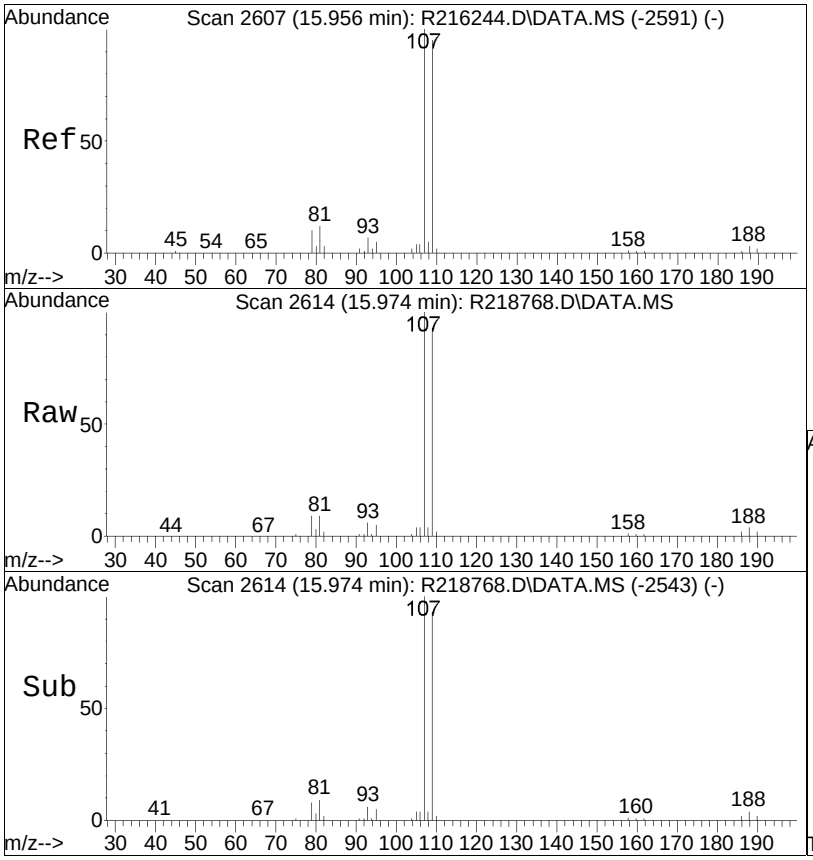


#75
dibromochloromethane
Concen: 10.60 ppbV
RT: 15.746 min Scan# 2538
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:129 Resp: 248562

Ion	Ratio	Lower	Upper
129	100		
127	77.6	61.8	92.8
131	25.0	19.1	28.7

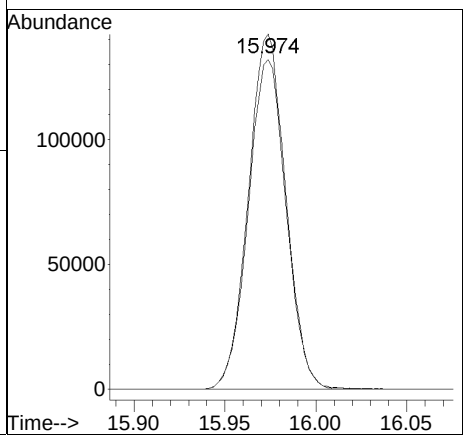


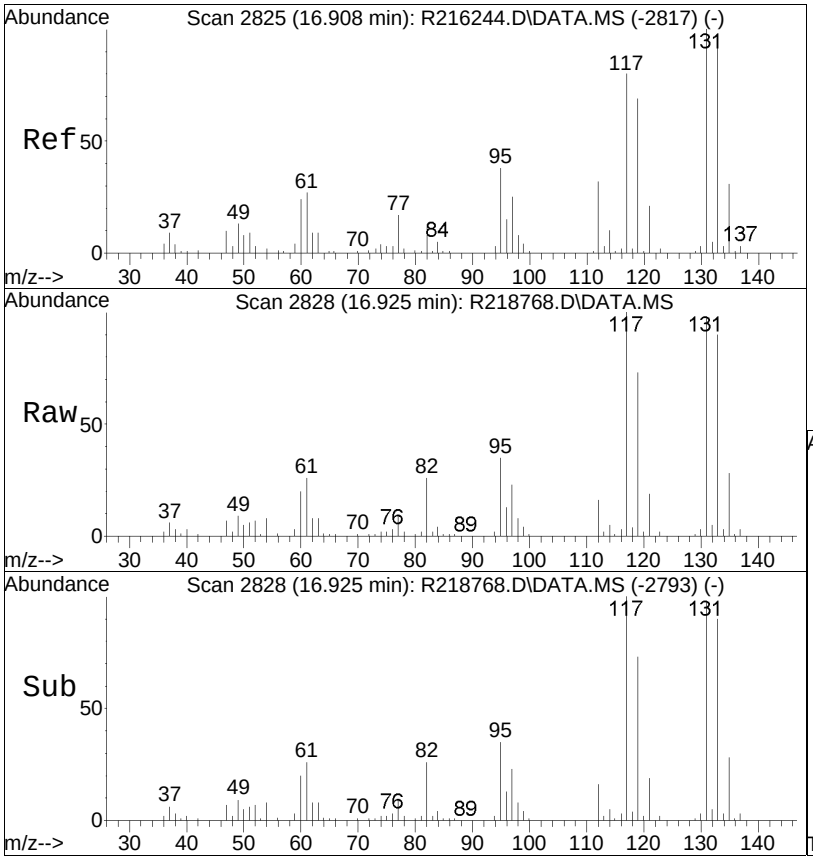


#76
1,2-dibromoethane
Concen: 10.49 ppbV
RT: 15.974 min Scan# 2614
Delta R.T. -0.003 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:107 Resp: 203889

Ion	Ratio	Lower	Upper
107	100		
109	92.8	77.8	116.8

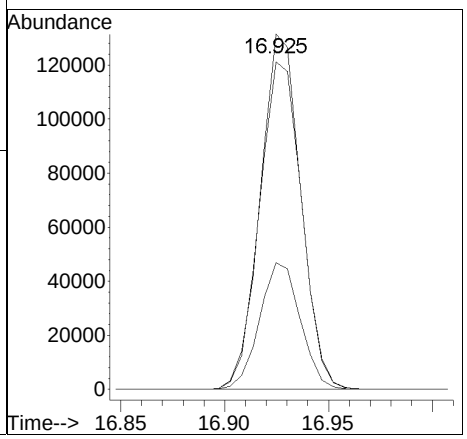


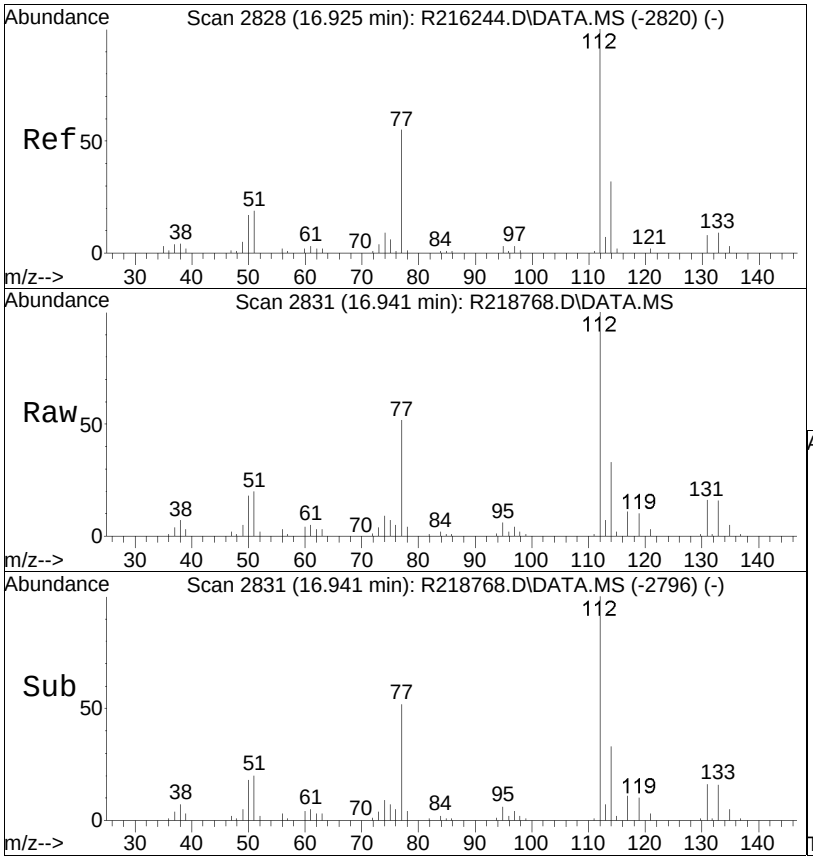


#80
1,1,1,2-tetrachloroethane
Concen: 10.07 ppbV
RT: 16.925 min Scan# 2828
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:131 Resp: 178619

Ion	Ratio	Lower	Upper
131	100		
133	92.2	78.2	117.2
95	35.7	30.5	45.7

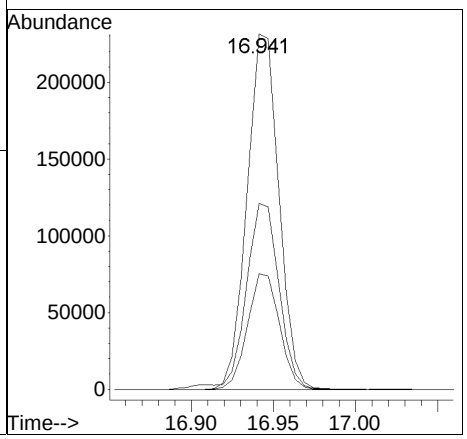


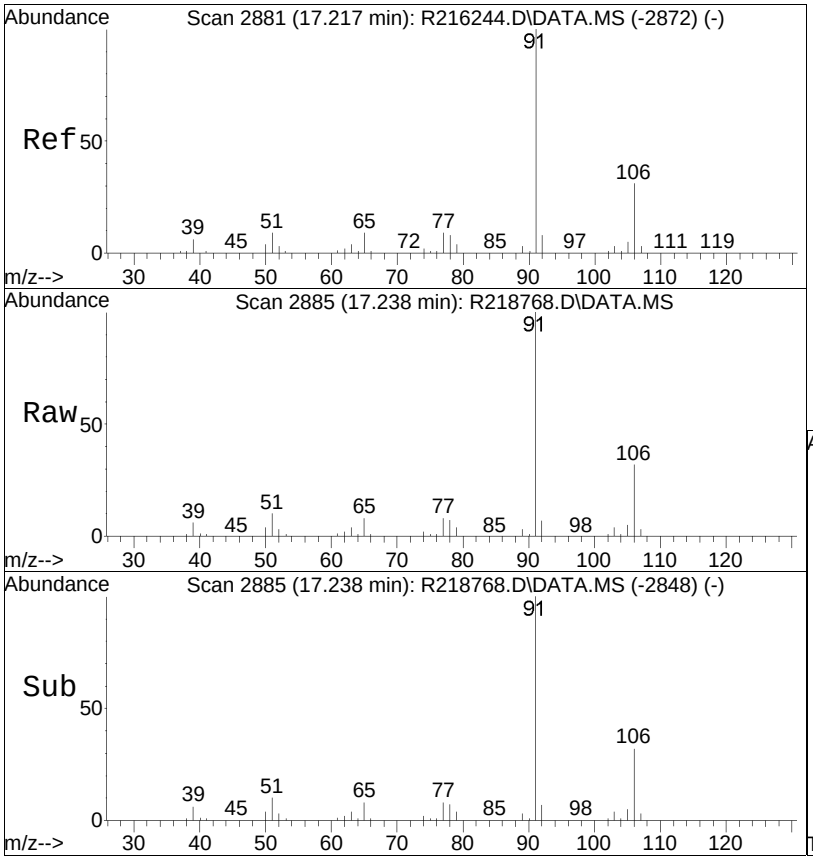


#81
chlorobenzene
Concen: 10.67 ppbV
RT: 16.941 min Scan# 2831
Delta R.T. -0.006 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:112 Resp: 313160

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.9	38.9
77	52.4	44.6	67.0

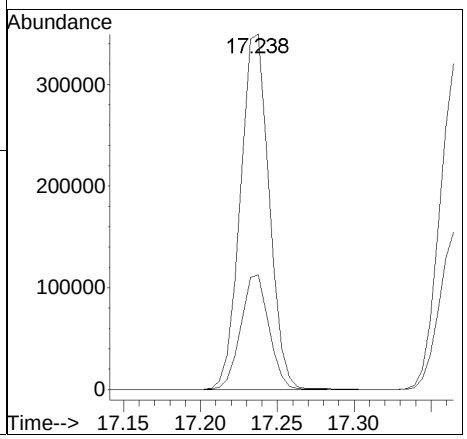


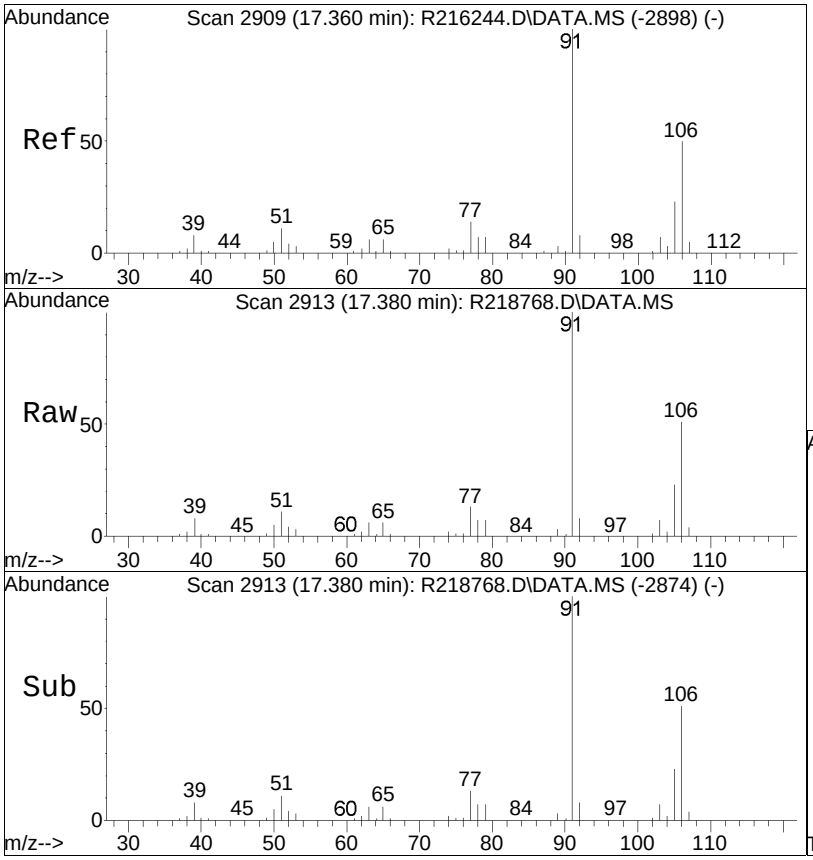


#82
ethylbenzene
Concen: 11.09 ppbV
RT: 17.238 min Scan# 2885
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 91 Resp: 455016

Ion	Ratio	Lower	Upper
91	100		
106	32.3	25.1	37.7

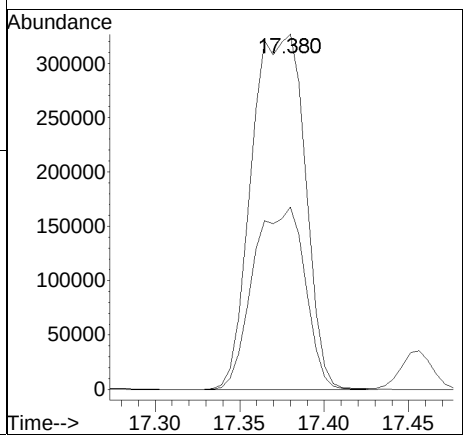


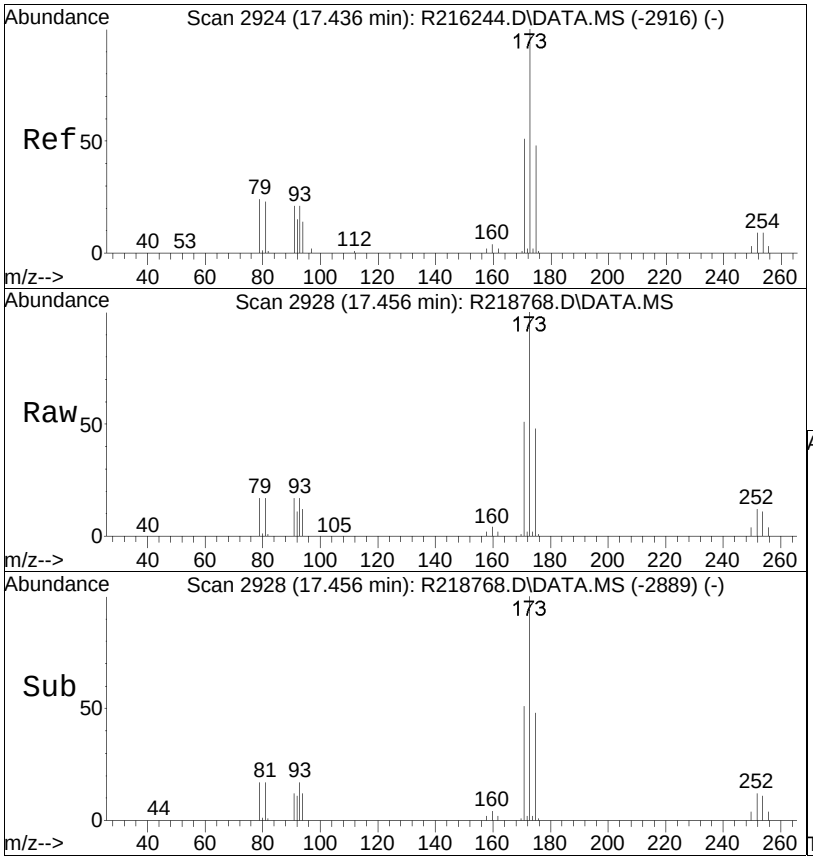


#84
m+p-xylene
Concen: 22.08 ppbV
RT: 17.380 min Scan# 2913
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 91 Resp: 713085

Ion	Ratio	Lower	Upper
91	100		
106	51.3	39.5	59.3

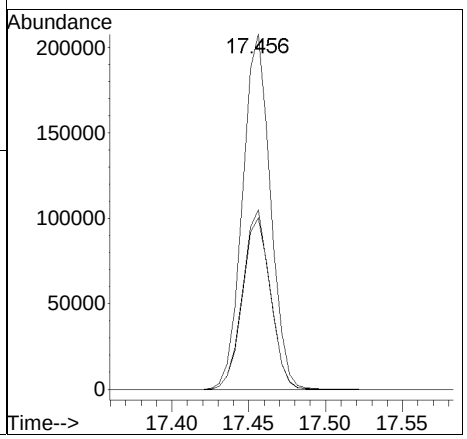


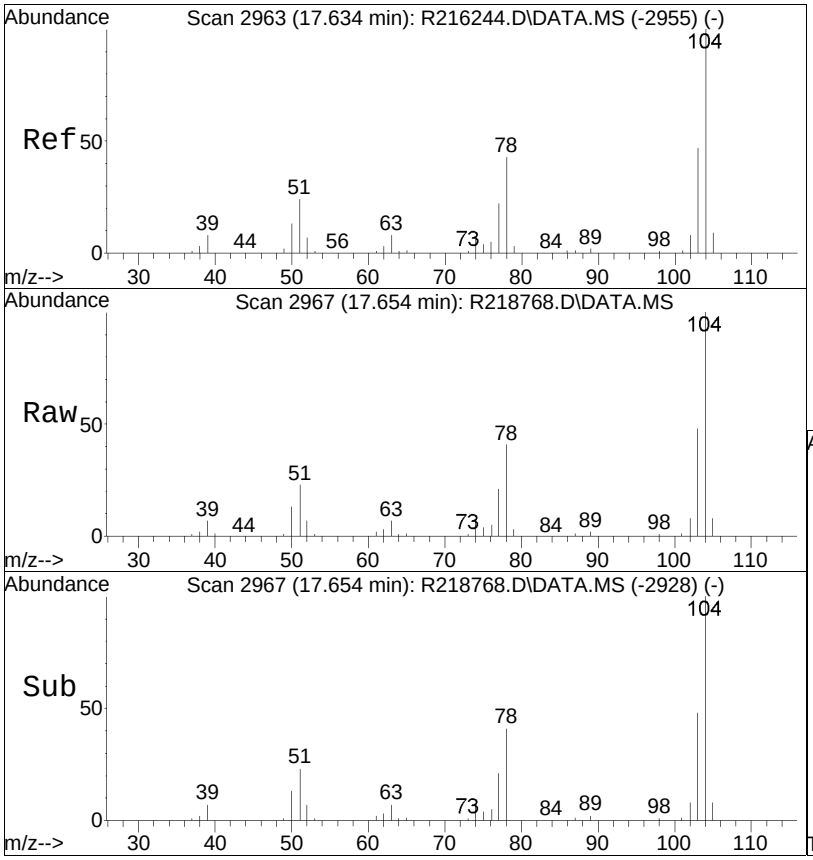


#85
bromoform
Concen: 10.52 ppbV
RT: 17.456 min Scan# 2928
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:173 Resp: 262500

Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.6	57.8
171	50.6	41.2	61.8

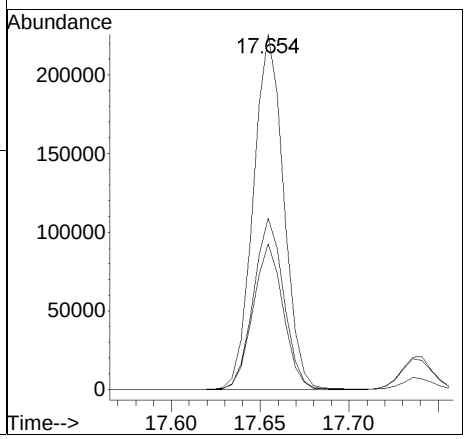


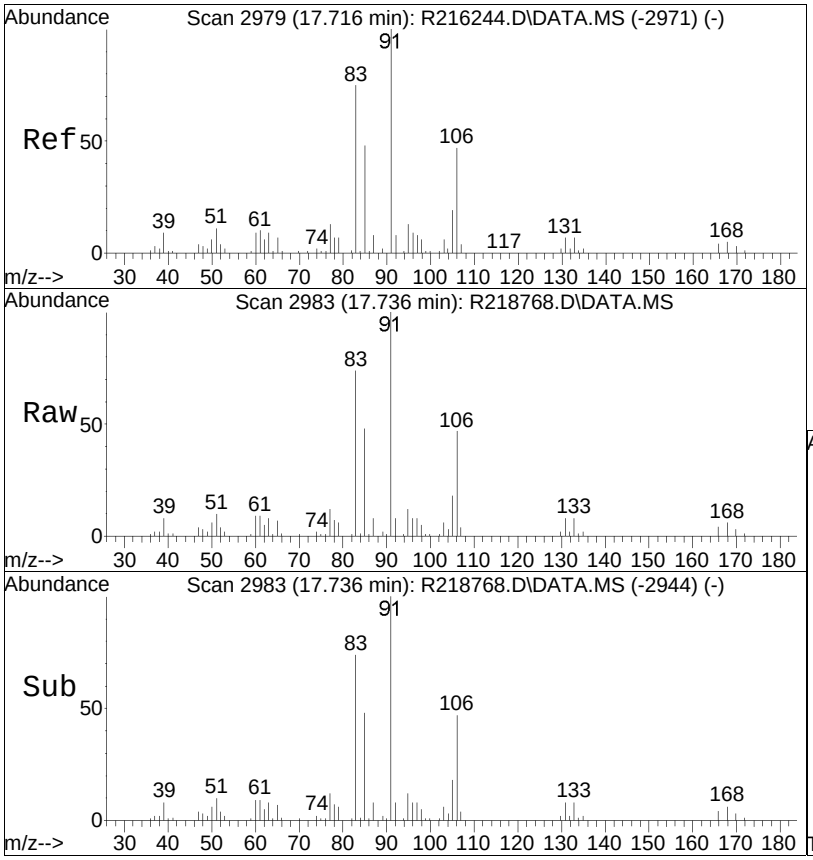


#86
styrene
Concen: 11.34 ppbV
RT: 17.654 min Scan# 2967
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:104 Resp: 268150

Ion	Ratio	Lower	Upper
104	100		
103	48.2	38.9	58.3
78	41.0	33.4	50.2

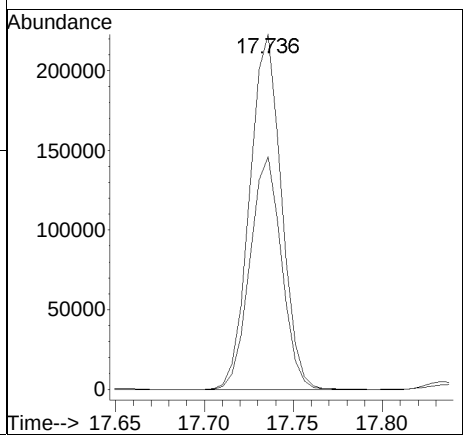


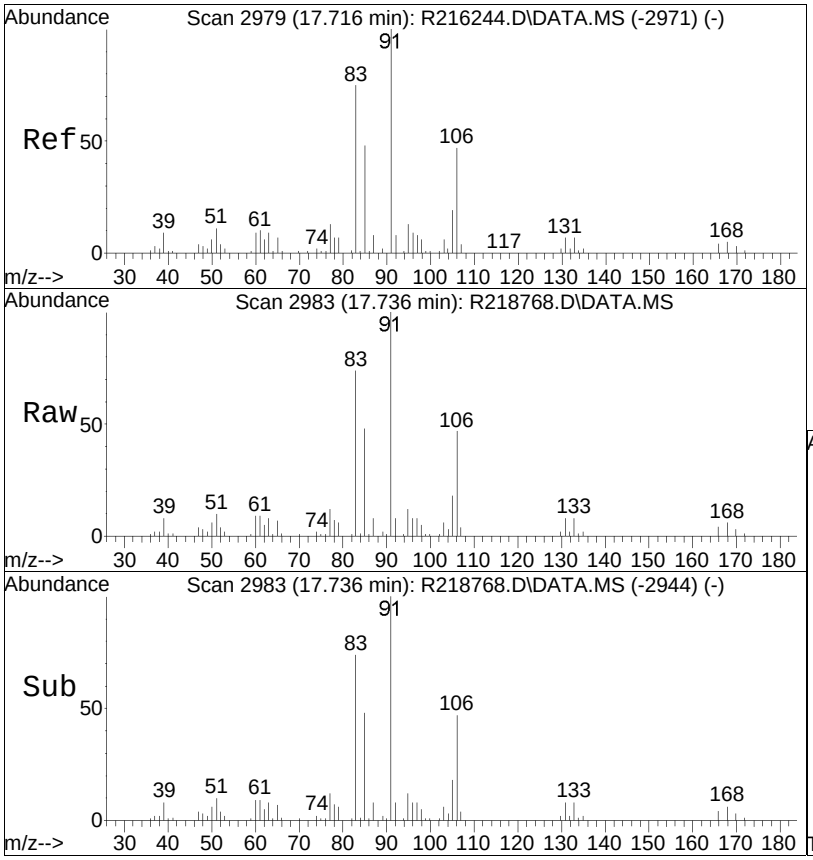


#87
1,1,2,2-tetrachloroethane
Concen: 11.77 ppbV
RT: 17.736 min Scan# 2983
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 83 Resp: 276116

Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.1	78.1

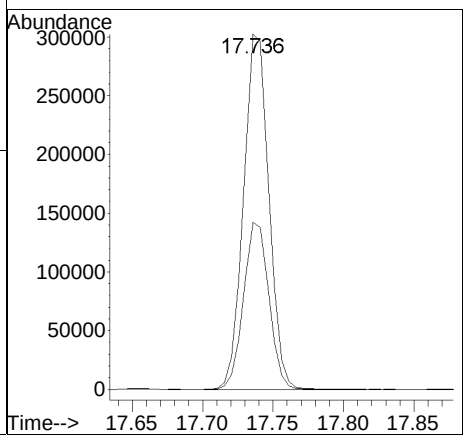


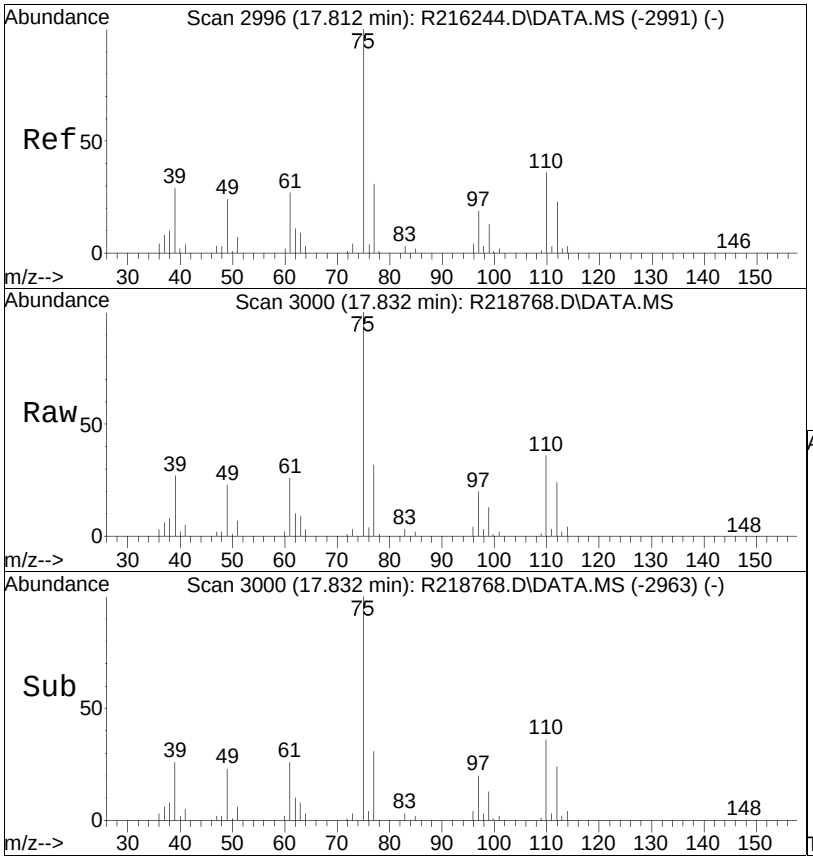


#88
o-xylene
Concen: 11.94 ppbV
RT: 17.736 min Scan# 2983
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 91 Resp: 412766

Ion	Ratio	Lower	Upper
91	100		
106	47.0	38.1	57.1

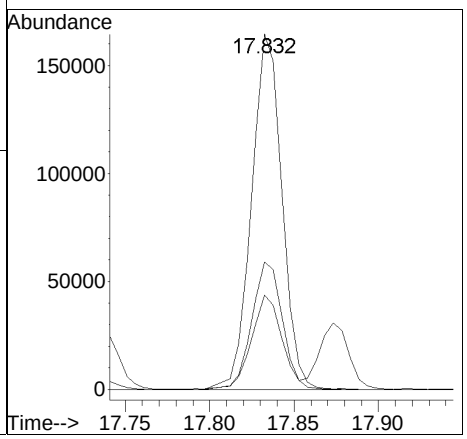


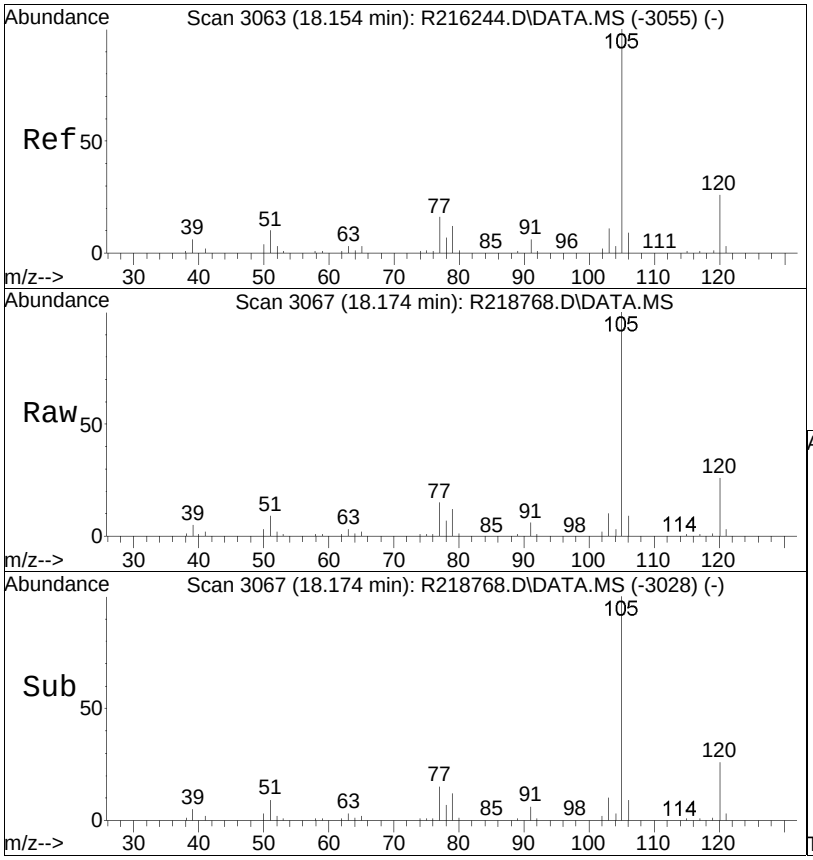


#89
1,2,3-trichloropropane
Concen: 11.27 ppbV
RT: 17.832 min Scan# 3000
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 75 Resp: 227571

Ion	Ratio	Lower	Upper
75	100		
110	35.8	29.4	44.0
39	26.5	21.8	32.6

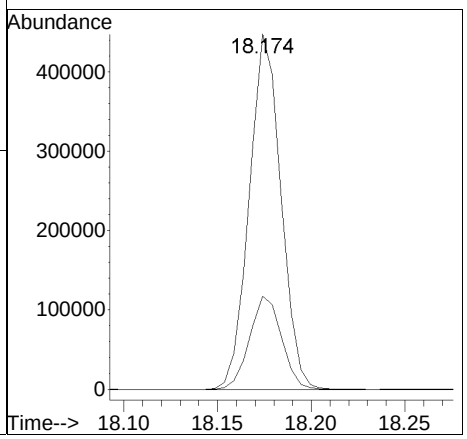


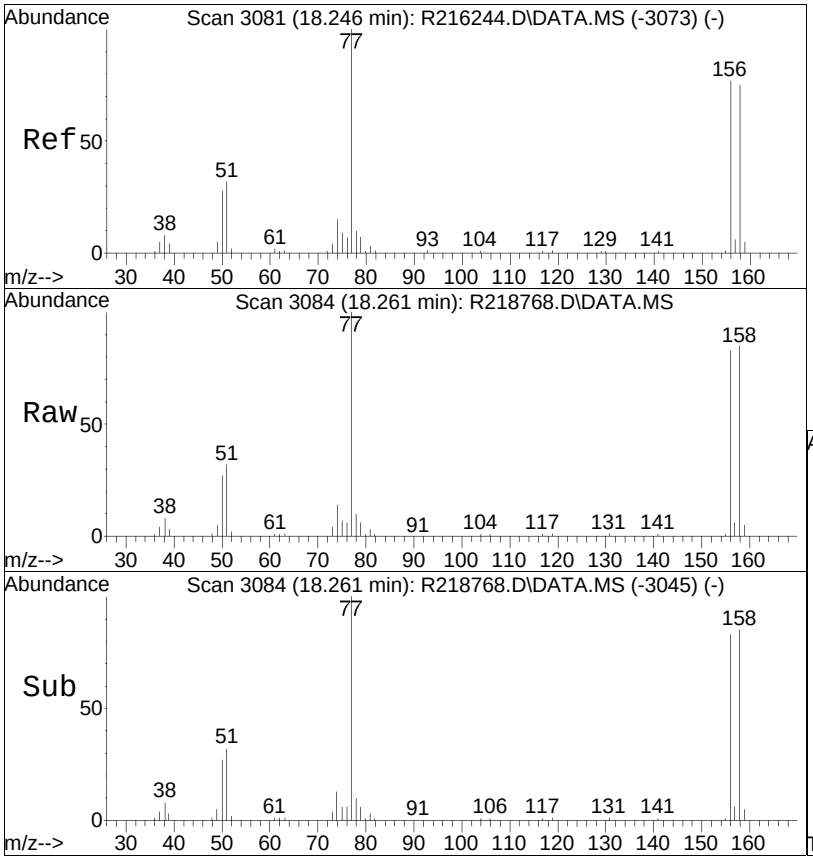


#92
isopropylbenzene
Concen: 11.23 ppbV
RT: 18.174 min Scan# 3067
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:105 Resp: 526431

Ion	Ratio	Lower	Upper
105	100		
120	26.2	21.2	31.8

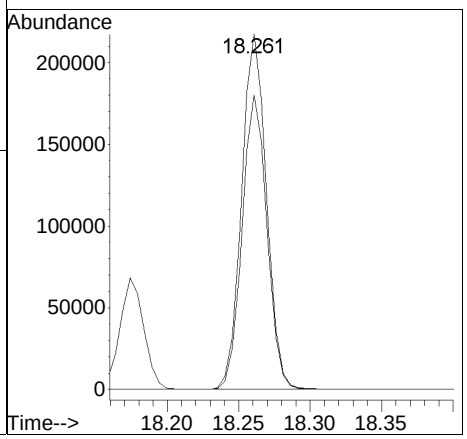


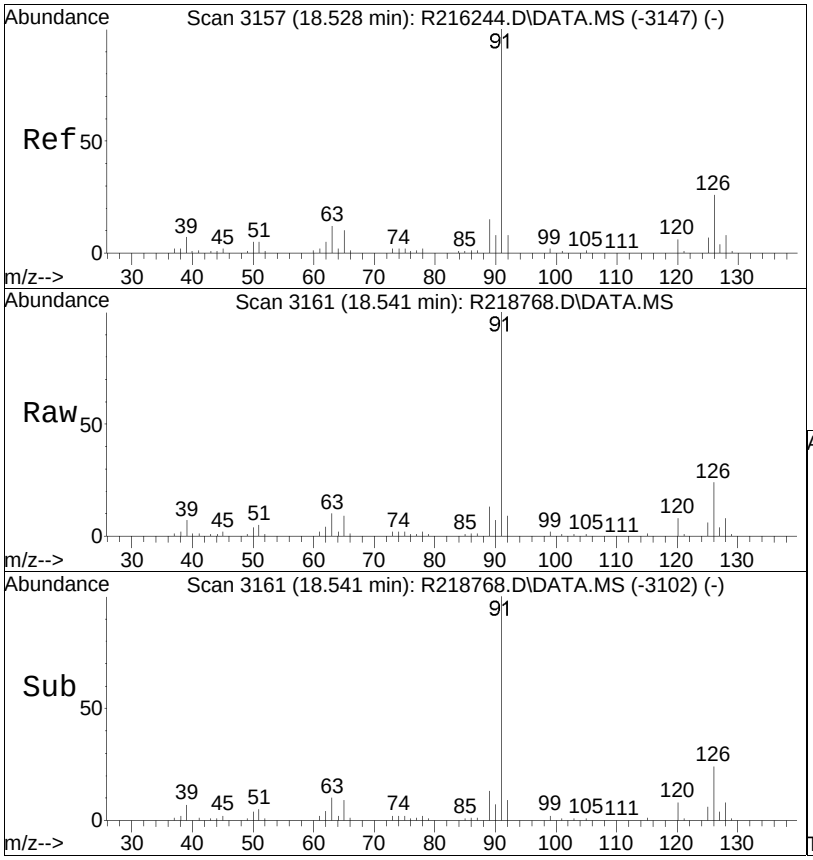


#93
bromobenzene
Concen: 9.96 ppbV
RT: 18.261 min Scan# 3084
Delta R.T. -0.000 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 77 Resp: 247791

Ion	Ratio	Lower	Upper
77	100		
156	82.9	55.0	82.4#

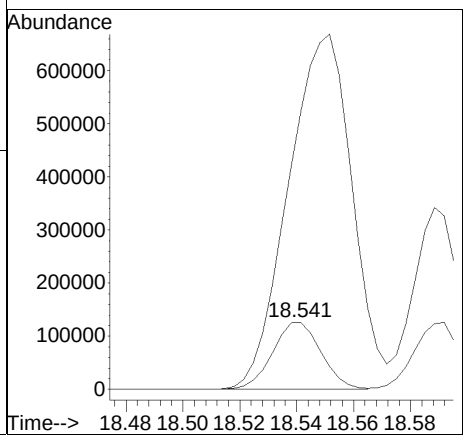


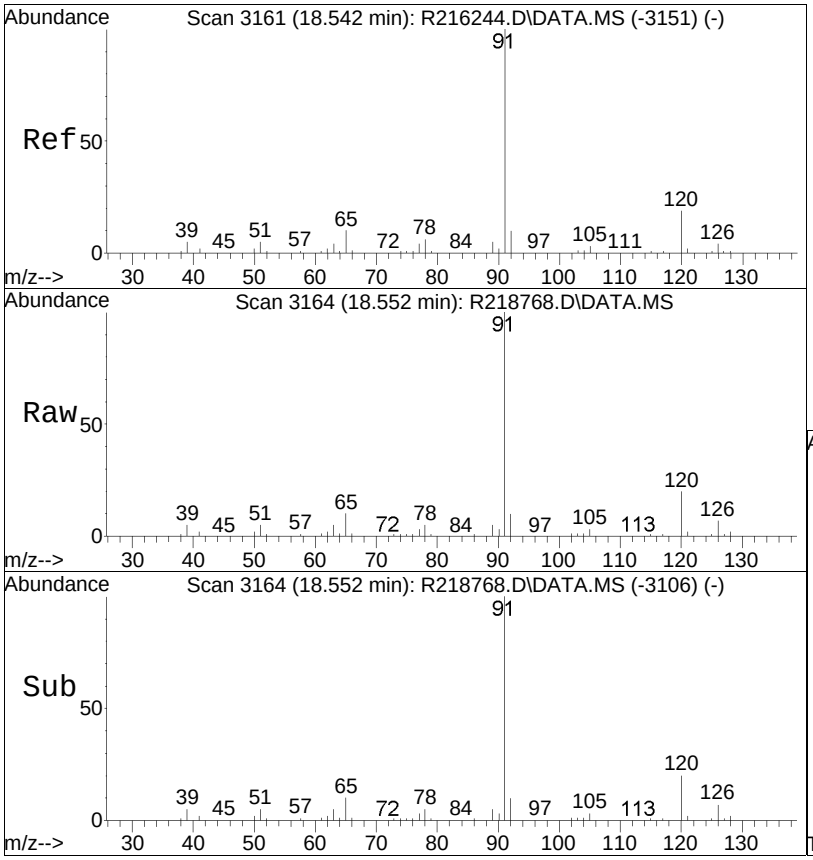


#94
2-chlorotoluene
Concen: 10.94 ppbV
RT: 18.541 min Scan# 3161
Delta R.T. -0.003 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:126 Resp: 150040

Ion	Ratio	Lower	Upper
126	100		
91	416.6	300.2	450.2

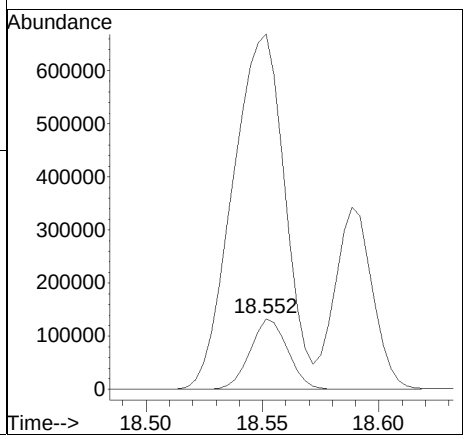


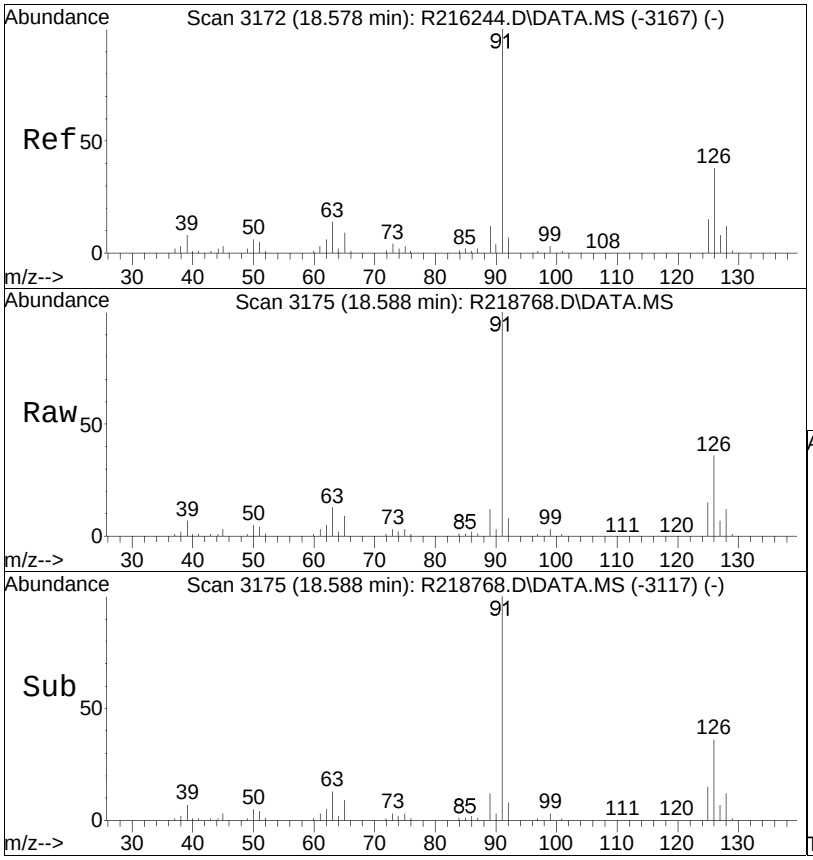


#95
n-propylbenzene
Concen: 11.63 ppbV
RT: 18.552 min Scan# 3164
Delta R.T. -0.007 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:120 Resp: 149008

Ion	Ratio	Lower	Upper
120	100		
91	503.9	424.8	637.2

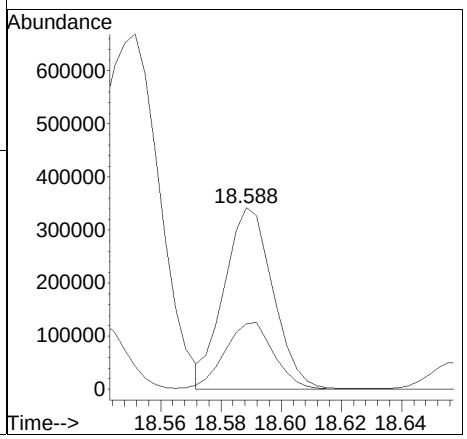


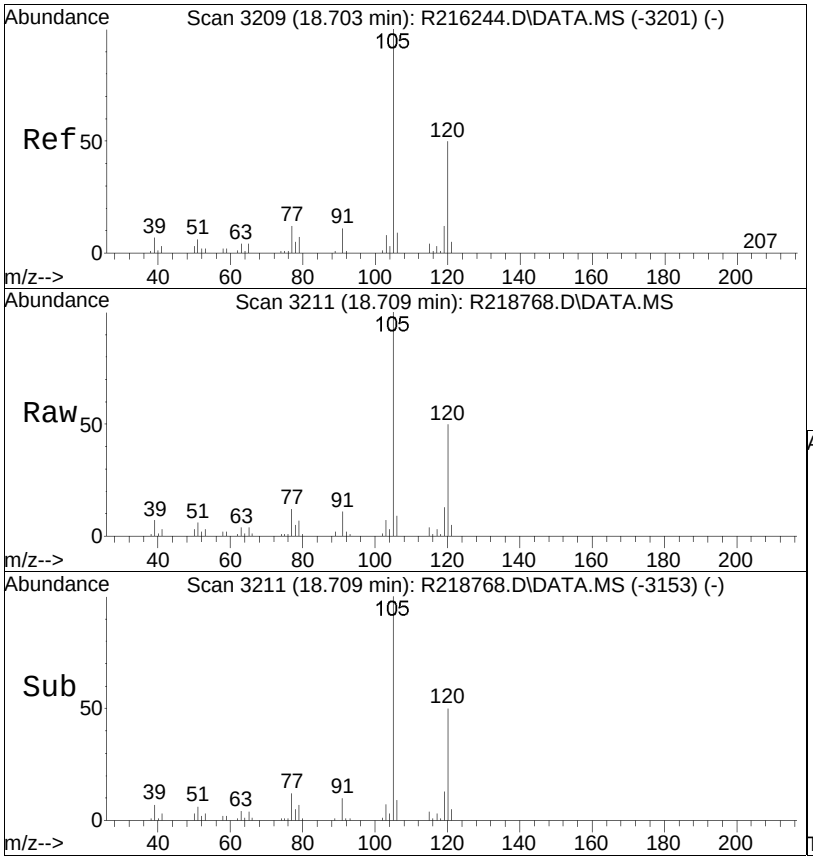


#96
4-chlorotoluene
Concen: 10.97 ppbV
RT: 18.588 min Scan# 3175
Delta R.T. -0.007 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 91 Resp: 385774

Ion	Ratio	Lower	Upper
91	100		
126	36.1	28.2	42.2

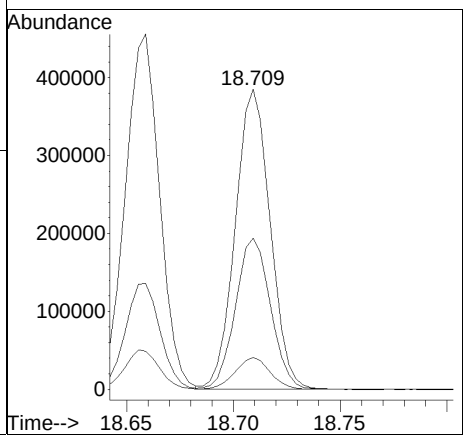


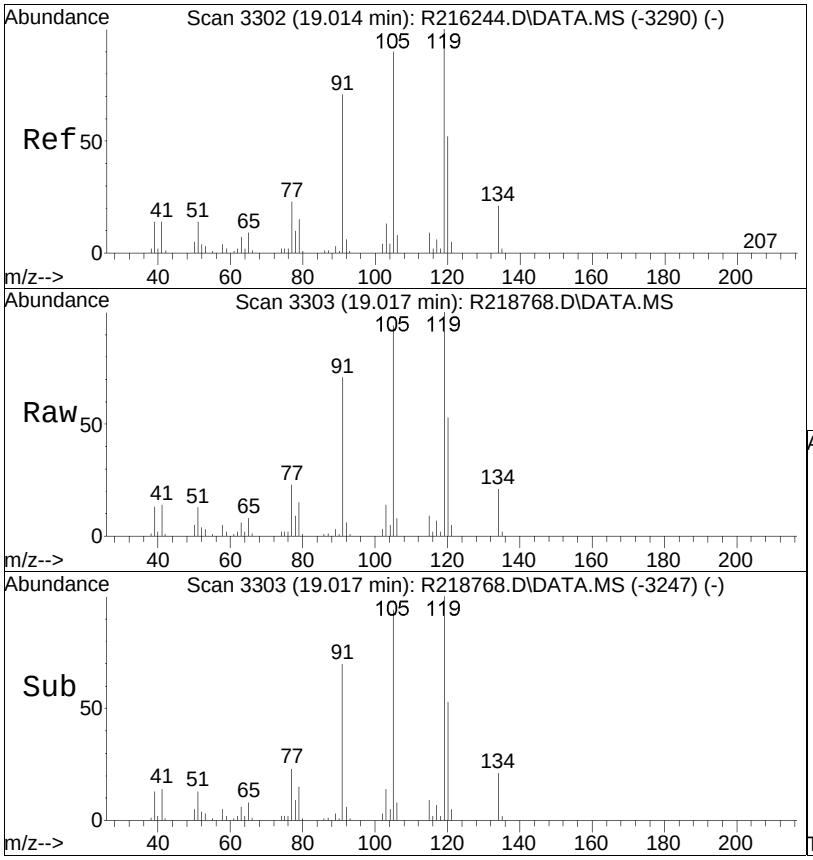


#98
1,3,5-trimethylbenzene
Concen: 12.28 ppbV
RT: 18.709 min Scan# 3211
Delta R.T. -0.007 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:105 Resp: 437230

Ion	Ratio	Lower	Upper
105	100		
120	50.3	39.4	59.0
91	10.7	8.8	13.2

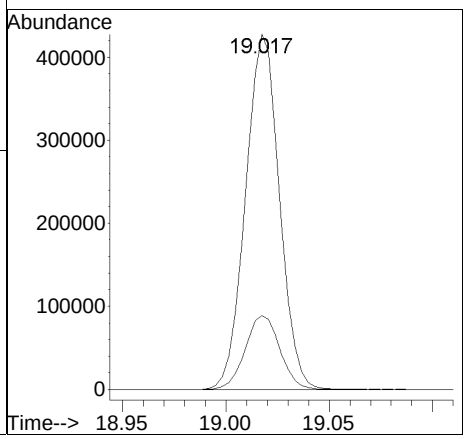


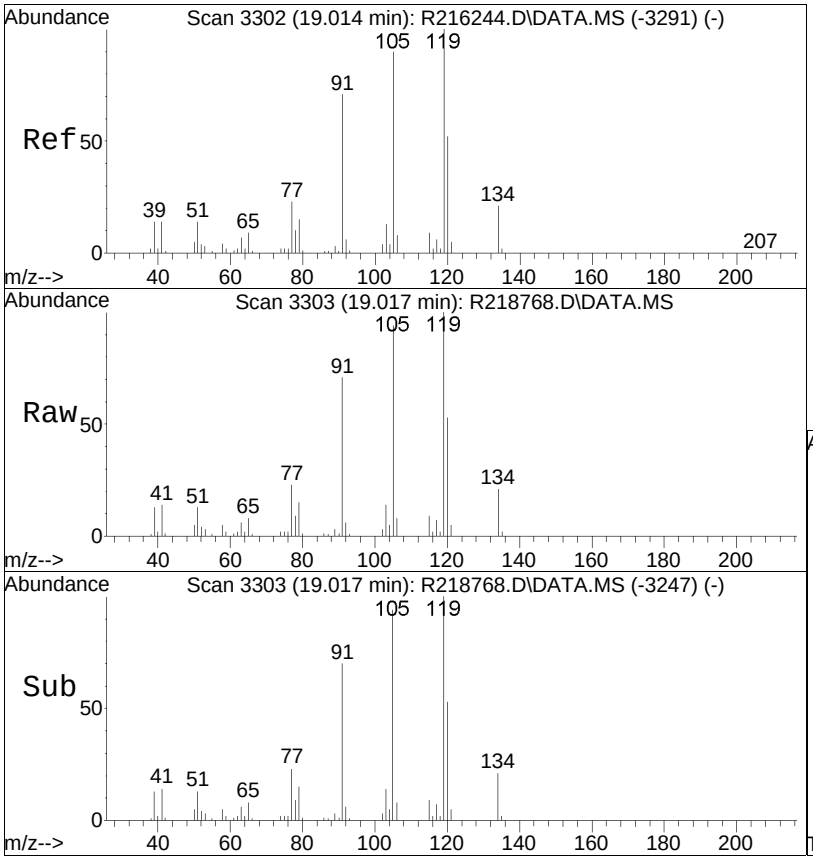


#99
tert-butylbenzene
Concen: 12.28 ppbV
RT: 19.017 min Scan# 3303
Delta R.T. -0.013 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:119 Resp: 486290

Ion	Ratio	Lower	Upper
119	100		
134	20.8	17.2	25.8

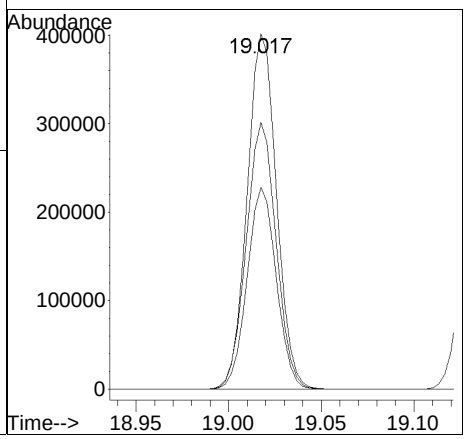


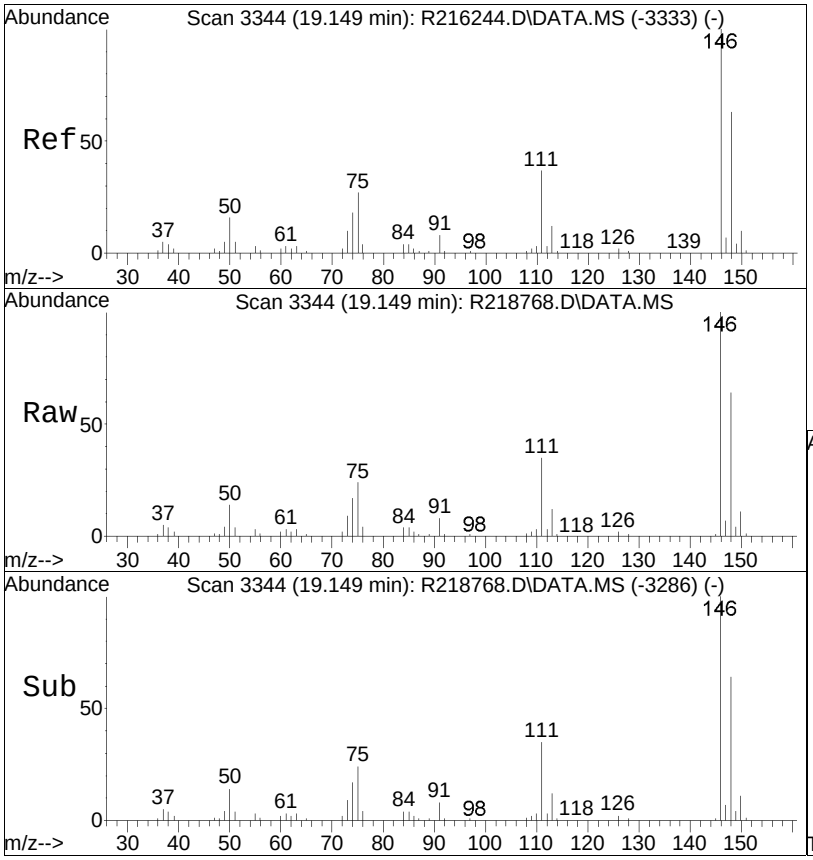


#100
1,2,4-trimethylbenzene
Concen: 12.98 ppbV
RT: 19.017 min Scan# 3303
Delta R.T. -0.013 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:105 Resp: 443159

Ion	Ratio	Lower	Upper
105	100		
120	56.9	44.1	66.1
91	75.1	61.6	92.4

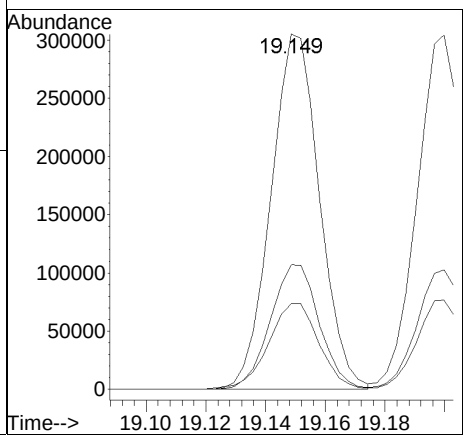


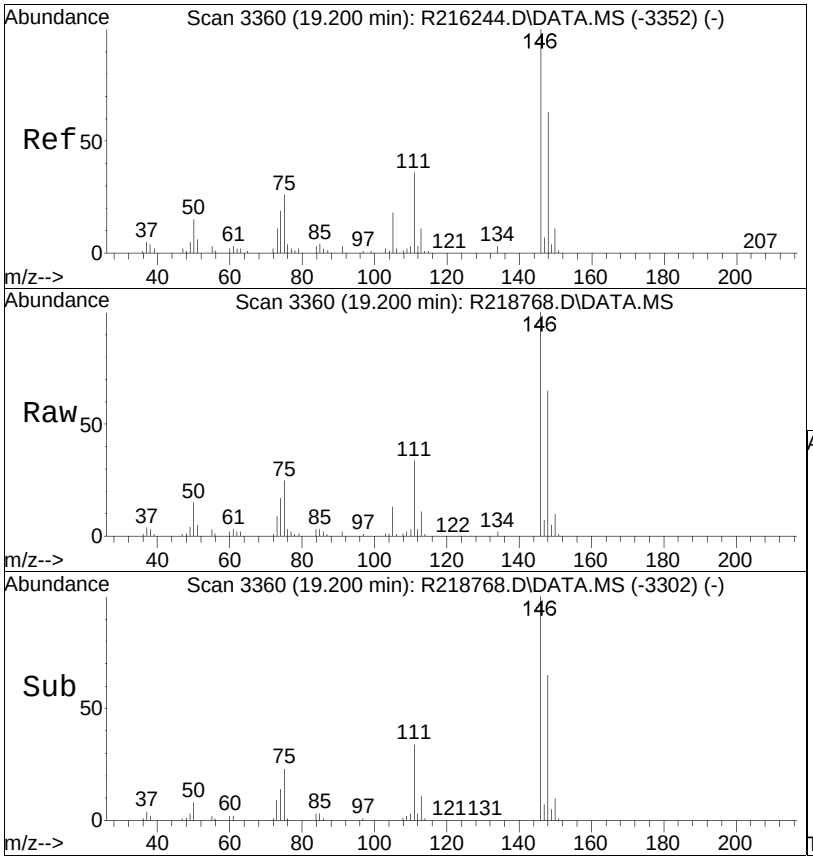


#103
1,3-dichlorobenzene
Concen: 12.31 ppbV
RT: 19.149 min Scan# 3344
Delta R.T. -0.016 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:146 Resp: 345088

Ion	Ratio	Lower	Upper
146	100		
111	35.0	31.2	46.8
75	24.1	21.4	32.2

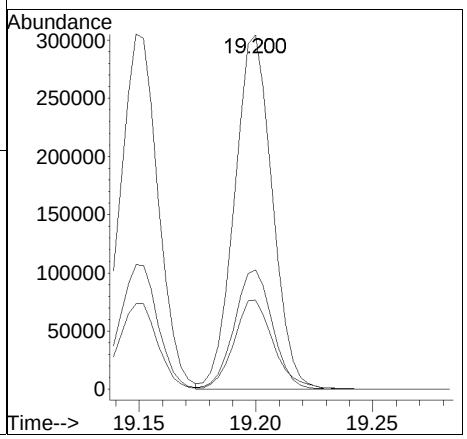


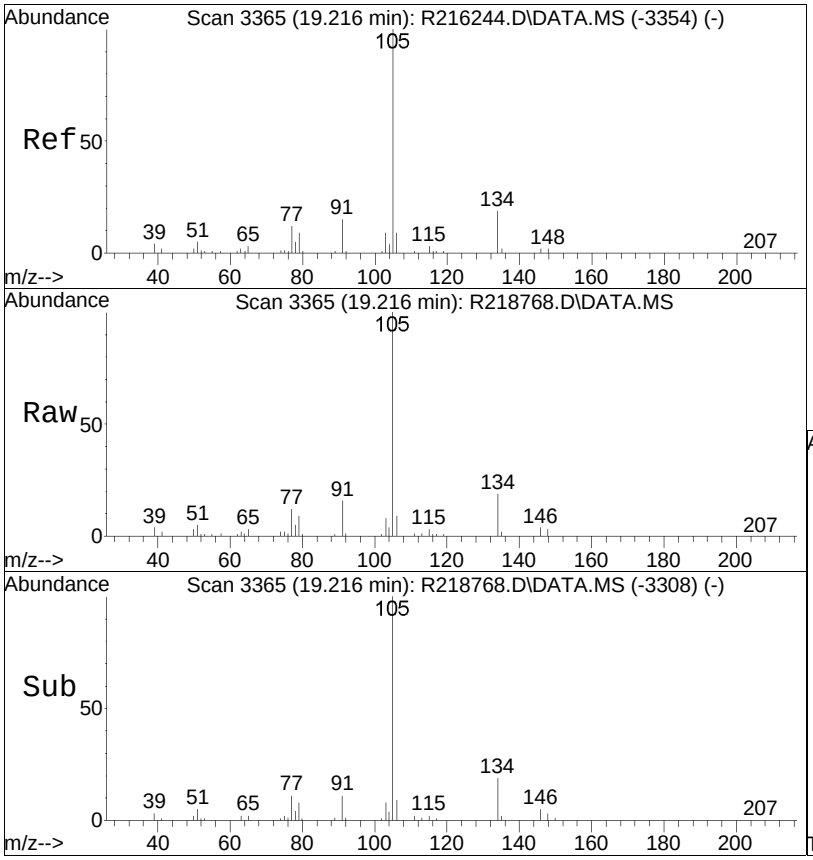


#104
1,4-dichlorobenzene
Concen: 12.23 ppbV
RT: 19.200 min Scan# 3360
Delta R.T. -0.016 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:146 Resp: 341667

Ion	Ratio	Lower	Upper
146	100		
111	33.7	29.8	44.6
75	25.2	21.2	31.8

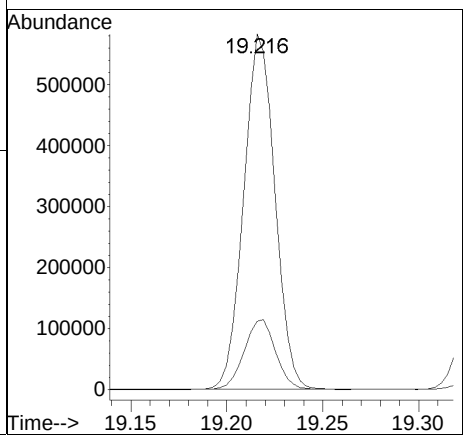


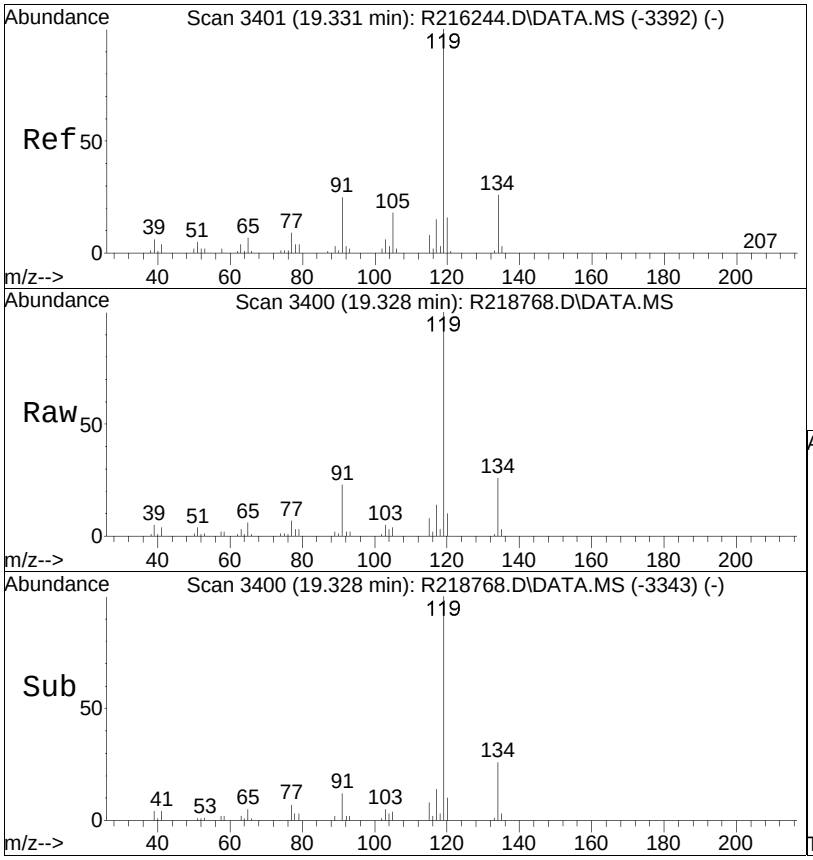


#105
sec-butylbenzene
Concen: 12.20 ppbV
RT: 19.216 min Scan# 3365
Delta R.T. -0.019 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:105 Resp: 659528

Ion	Ratio	Lower	Upper
105	100		
134	19.2	15.1	22.7

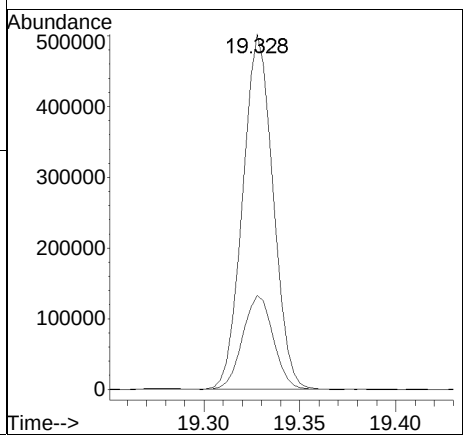


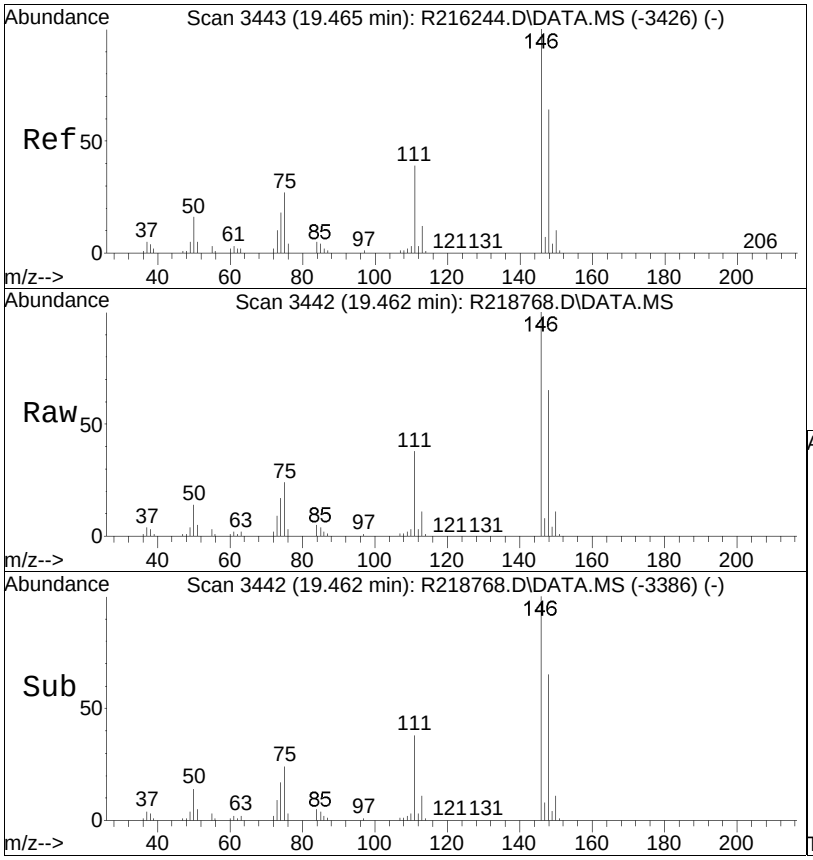


#107
p-isopropyltoluene
Concen: 12.13 ppbV
RT: 19.328 min Scan# 3400
Delta R.T. -0.019 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:119 Resp: 552214

Ion	Ratio	Lower	Upper
119	100		
134	26.5	20.6	30.8

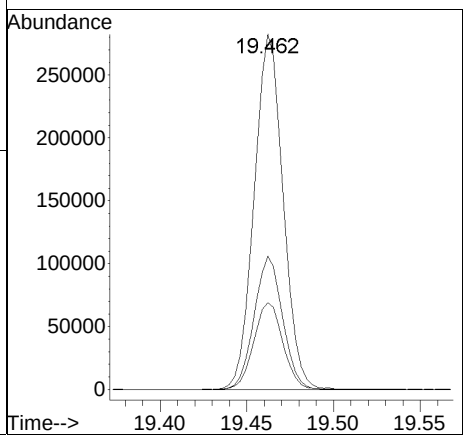


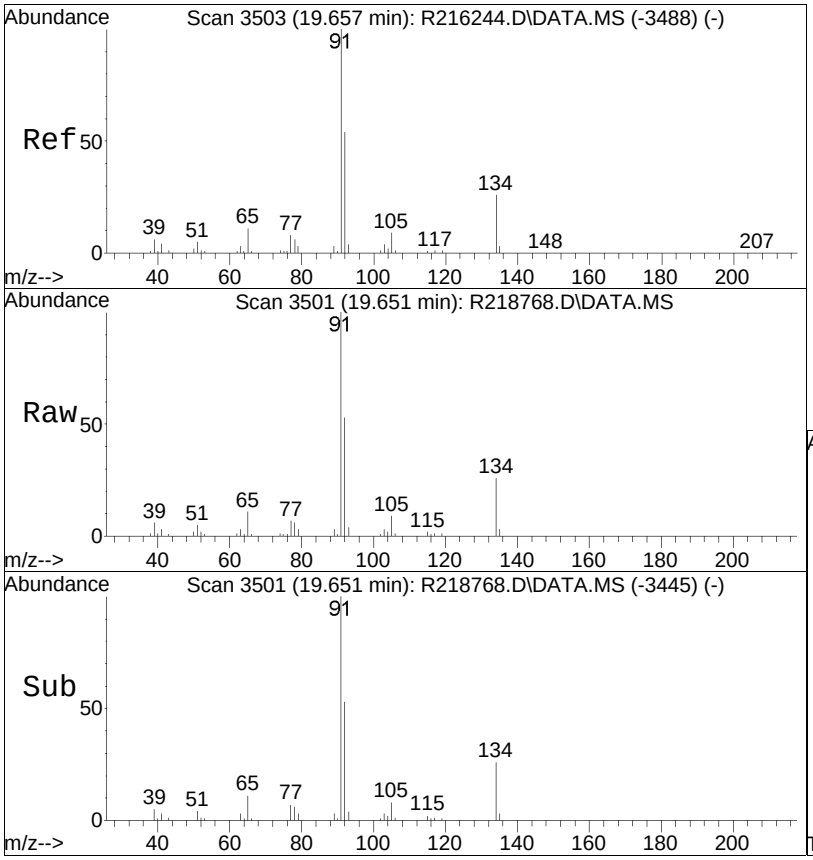


#108
1,2-dichlorobenzene
Concen: 12.62 ppbV
RT: 19.462 min Scan# 3442
Delta R.T. -0.022 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:146 Resp: 327863

Ion	Ratio	Lower	Upper
146	100		
111	37.6	31.6	47.4
75	24.4	22.0	33.0

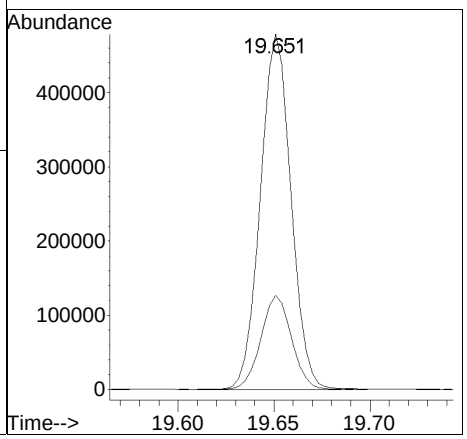


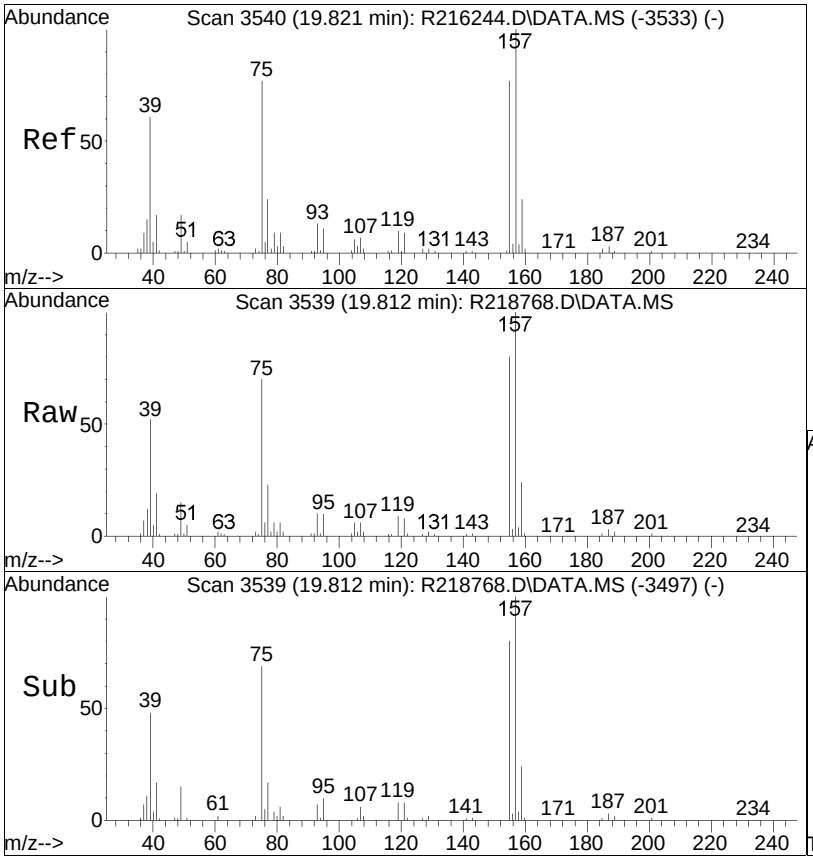


#109
n-butylbenzene
Concen: 13.09 ppbV
RT: 19.651 min Scan# 3501
Delta R.T. -0.022 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 91 Resp: 531486

Ion	Ratio	Lower	Upper
91	100		
134	26.5	20.9	31.3

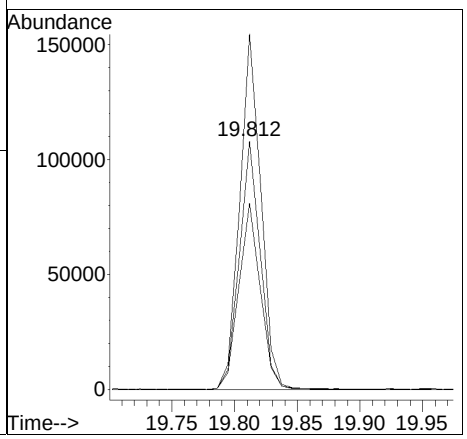


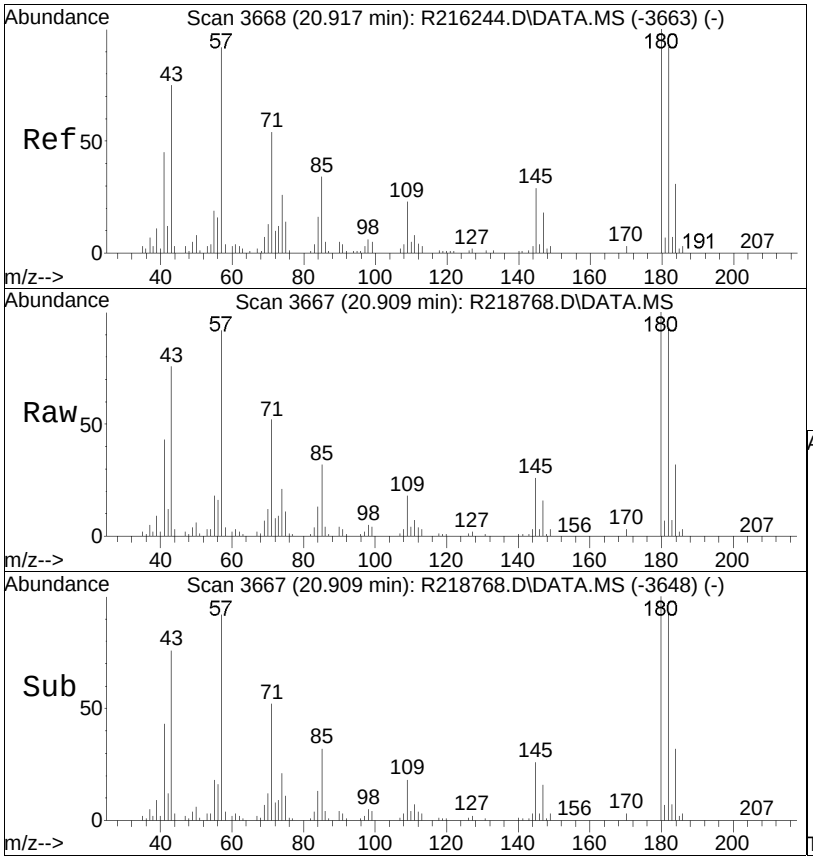


#112
1,2-dibromo-3-chloropropane
Concen: 12.81 ppbV
RT: 19.812 min Scan# 3539
Delta R.T. -0.026 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion: 75 Resp: 126035

Ion	Ratio	Lower	Upper
75	100		
157	143.3	99.4	149.0
39	75.0	64.8	97.2

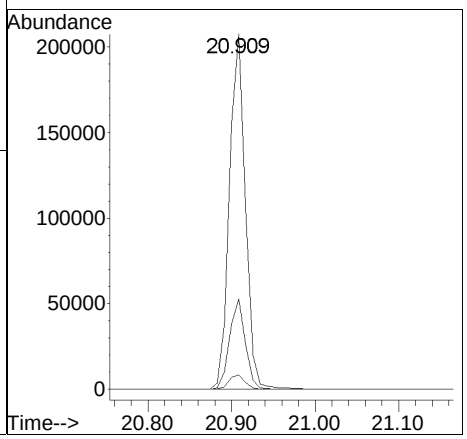


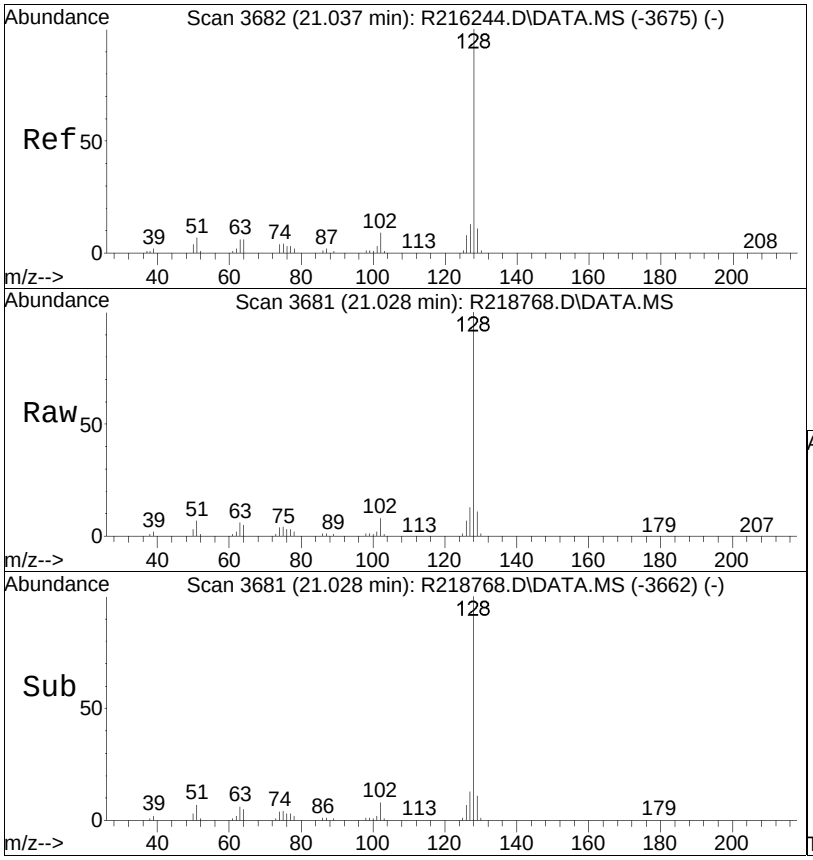


#116
1,2,4-trichlorobenzene
Concen: 14.79 ppbV
RT: 20.909 min Scan# 3667
Delta R.T. -0.034 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:180 Resp: 276276

Ion	Ratio	Lower	Upper
180	100		
145	25.5	22.6	33.8
110	4.1	4.1	6.1

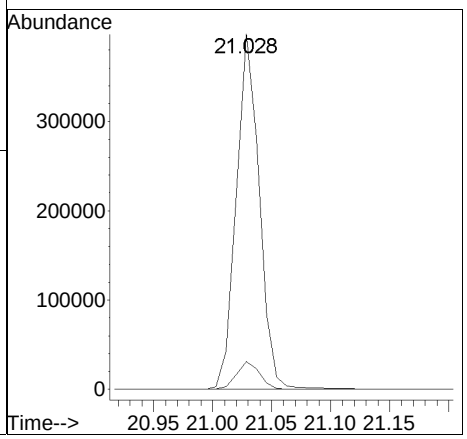


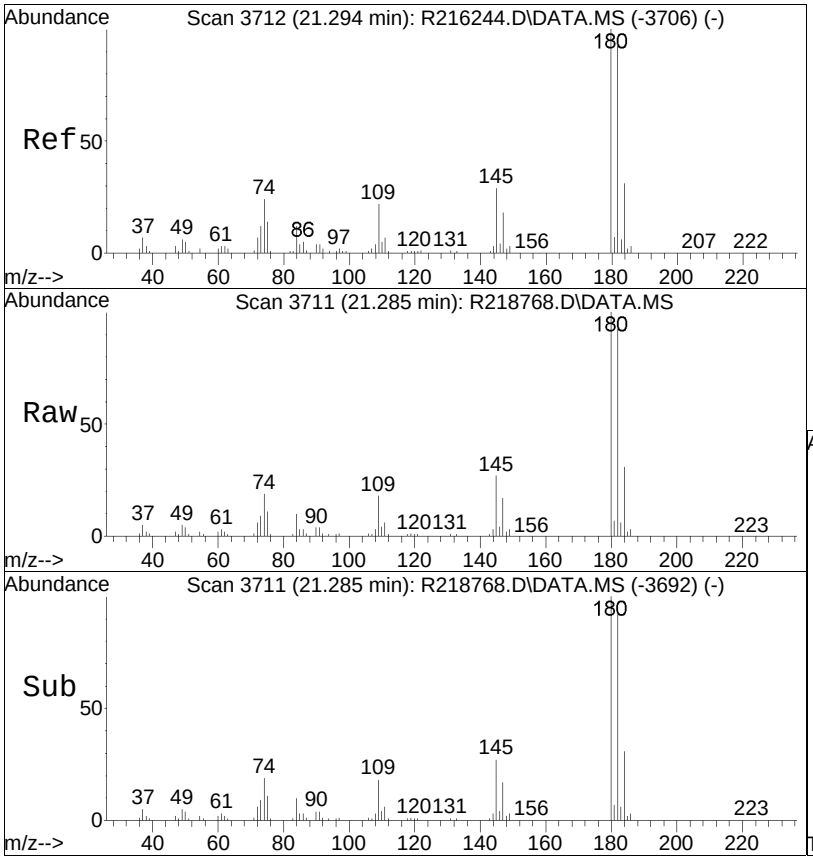


#117
naphthalene
Concen: 13.06 ppbV
RT: 21.028 min Scan# 3681
Delta R.T. -0.035 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:128 Resp: 541220

Ion	Ratio	Lower	Upper
128	100		
102	7.8	6.4	9.6

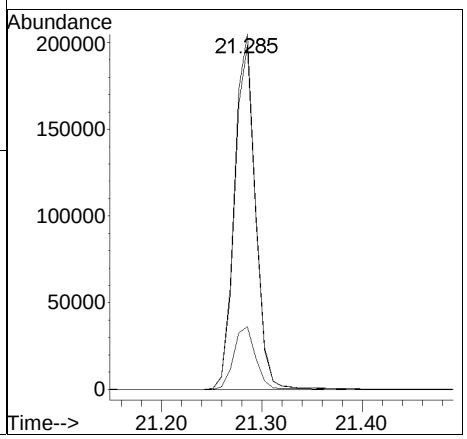


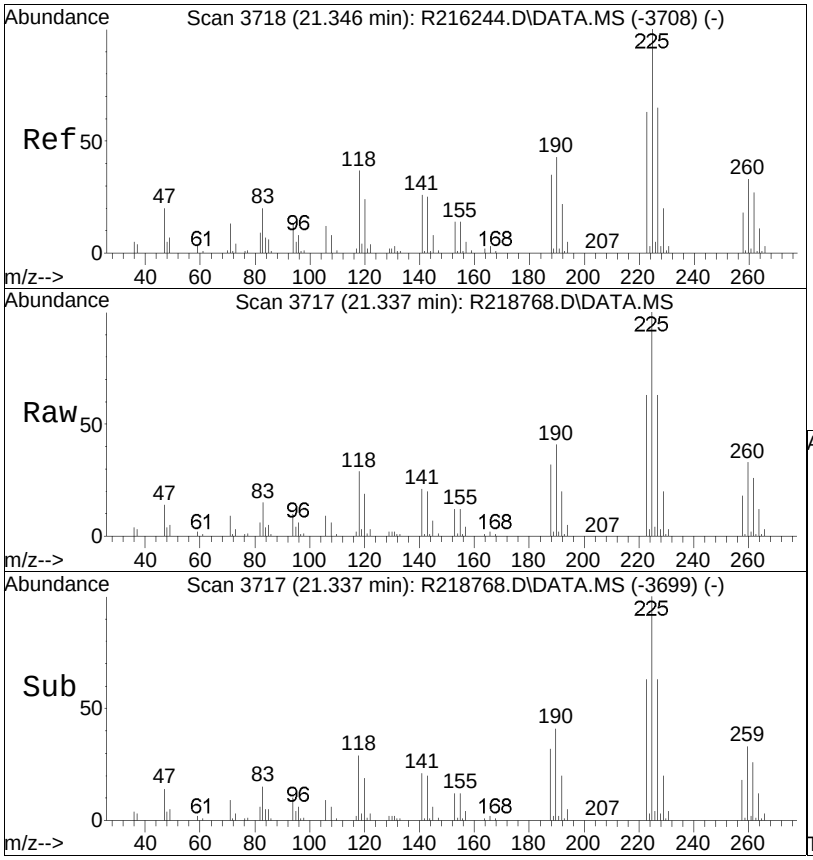


#118
1,2,3-trichlorobenzene
Concen: 14.70 ppbV
RT: 21.285 min Scan# 3711
Delta R.T. -0.035 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:180 Resp: 299872

Ion	Ratio	Lower	Upper
180	100		
182	96.9	76.9	115.3
109	17.7	17.9	26.9#

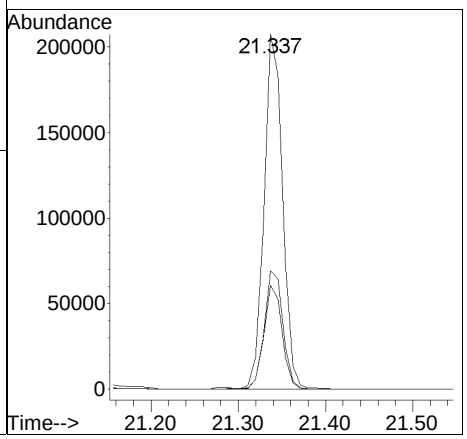




#120
hexachlorobutadiene
Concen: 14.78 ppbV
RT: 21.337 min Scan# 3717
Delta R.T. -0.043 min
Lab File: R218768.D
Acq: 5 Jan 2012 17:06

Tgt Ion:225 Resp: 307218

Ion	Ratio	Lower	Upper
225	100		
260	33.4	26.0	39.0
118	29.3	30.0	45.0#



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2012Q	Method	: TALL111221.M
Data File	: R218768.D	Operator	: AIRPIANO2:ry
Date Inj'd	: 1/5/2012 17:06	Instrument	: Air Piano 2
Sample	: WG511601-3,3,250,250	Quant Date	: 1/5/2012 5:35 pm

There are no manual integrations or false positives in this file.

Duplicate Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218780.D
Acq On : 6 Jan 2012 1:03
Operator : AIRPIANO2:MB
Sample : WG511601-5,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 12:06:43 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.360	49	141133	10.000	ppbV	0.00
Standard Area = 151117			Recovery =	93.39%		
43) 1,4-difluorobenzene	12.549	114	416663	10.000	ppbV	0.00
Standard Area = 485506			Recovery =	85.82%		
68) chlorobenzene-D5	16.908	54	80602	10.000	ppbV	0.00
Standard Area = 90670			Recovery =	88.90%		

System Monitoring Compounds

Target Compounds						Qvalue
5) dichlorodifluoromethane	4.334	85	13433M2	0.386	ppbV	
6) chloromethane	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.	d	
14) chloroethane	0.000		0	N.D.	d	
19) acetone	6.583	43	122684M4	8.415	ppbV	
21) trichlorofluoromethane	6.789	101	8481	0.238	ppbV	98
25) ethyl ether	0.000		0	N.D.	d	
26) 1,1-dichloroethene	0.000		0	N.D.	d	
28) methylene chloride	7.791	49	8594	0.582	ppbV	97
30) carbon disulfide	8.123	76	1676	0.049	ppbV #	1
32) trans-1,2-dichloroethene	8.945		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.	d	
34) MTBE	0.000		0	N.D.		
36) 2-butanone	9.694	43	24740	1.363	ppbV	97
37) cis-1,2-dichloroethene	0.000		0	N.D.	d	
40) Tetrahydrofuran	0.000		0	N.D.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	11.350	62	945	0.065	ppbV #	87
45) diisopropyl ether	0.000		0	N.D.	d	
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	11.640		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
52) carbon tetrachloride	12.318	117	1842	0.072	ppbV #	90
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	13.058	93	153	0.010	ppbV #	3
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	13.296		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218780.D
Acq On : 6 Jan 2012 1:03
Operator : AIRPIANO2:MB
Sample : WG511601-5,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 12:06:43 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

Sub List : KMS-MCP8260 - .

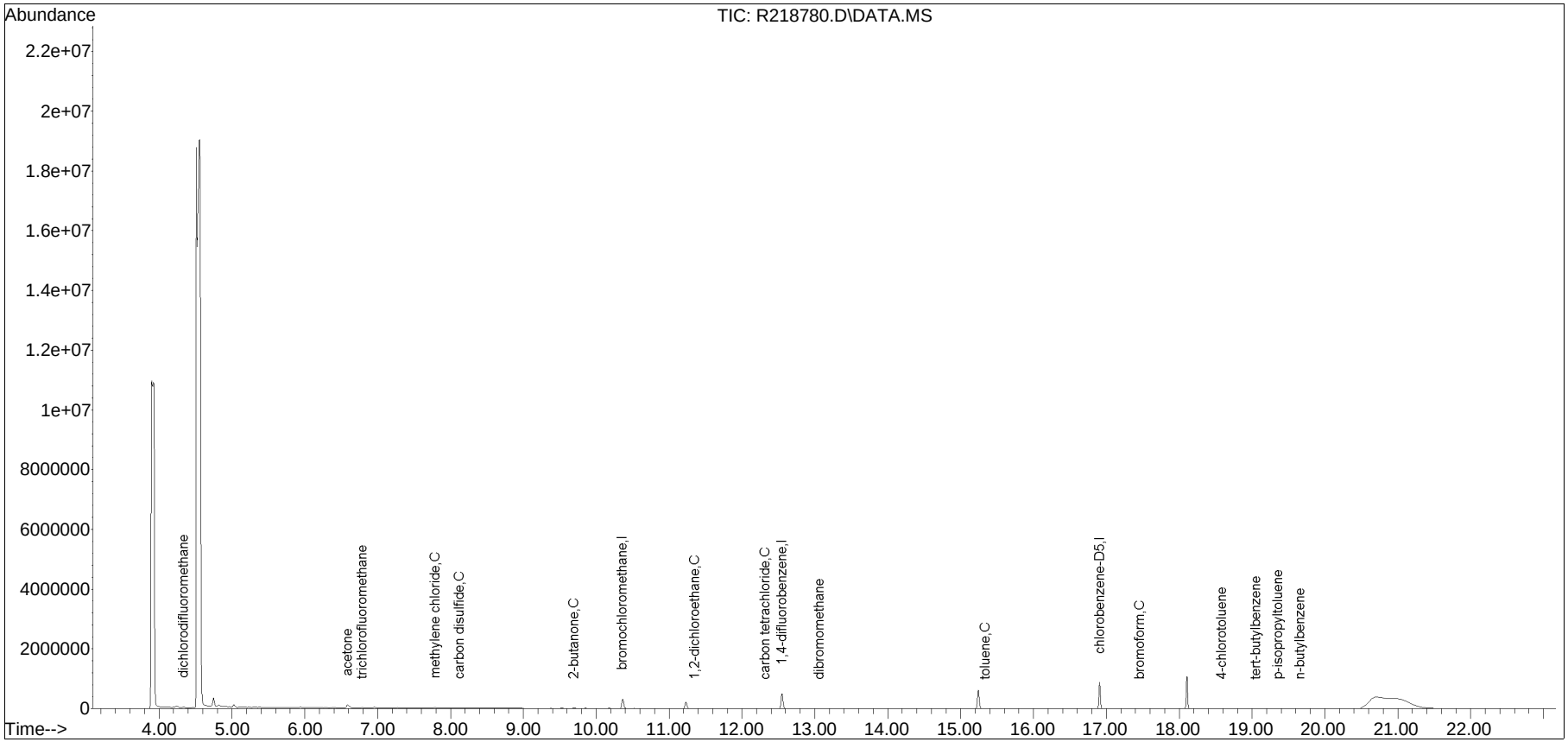
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 4-methyl-2-pentanone	14.416		0	N.D.		
66) trans-1,3-dichloropropene	0.000		0	N.D.		
67) 1,1,2-trichloroethane	0.000		0	N.D.		
69) toluene	15.341	91	5248	0.161	ppbV	98
72) 1,3-dichloropropane	0.000		0	N.D.	d	
73) 2-hexanone	15.625		0	N.D.		
75) dibromochloromethane	15.746		0	N.D.		
76) 1,2-dibromoethane	0.000		0	N.D.		
80) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
81) chlorobenzene	0.000		0	N.D.		
82) ethylbenzene	17.243		0	N.D.		
84) m+p-xylene	17.370		0	N.D.		
85) bromoform	17.461	173	3264	0.147	ppbV	92
86) styrene	17.670		0	N.D.		
87) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
88) o-xylene	17.756		0	N.D.		
89) 1,2,3-trichloropropane	0.000		0	N.D.		
92) isopropylbenzene	0.000		0	N.D.	d	
93) bromobenzene	0.000		0	N.D.	d	
94) 2-chlorotoluene	0.000		0	N.D.		
95) n-propylbenzene	0.000		0	N.D.		
96) 4-chlorotoluene	18.585	91	84	0.003	ppbV #	40
98) 1,3,5-trimethylbenzene	18.689		0	N.D.		
99) tert-butylbenzene	19.053	119	31	0.001	ppbV #	54
100) 1,2,4-trimethylbenzene	19.056		0	N.D.		
103) 1,3-dichlorobenzene	0.000		0	N.D.		
104) 1,4-dichlorobenzene	0.000		0	N.D.		
105) sec-butylbenzene	0.000		0	N.D.	d	
107) p-isopropyltoluene	19.356	119	34	0.001	ppbV #	49
108) 1,2-dichlorobenzene	0.000		0	N.D.		
109) n-butylbenzene	19.657	91	45	0.001	ppbV #	49
112) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
116) 1,2,4-trichlorobenzene	0.000		0	N.D.		
117) naphthalene	21.080		0	N.D.		
118) 1,2,3-trichlorobenzene	0.000		0	N.D.		
120) hexachlorobutadiene	0.000		0	N.D.		

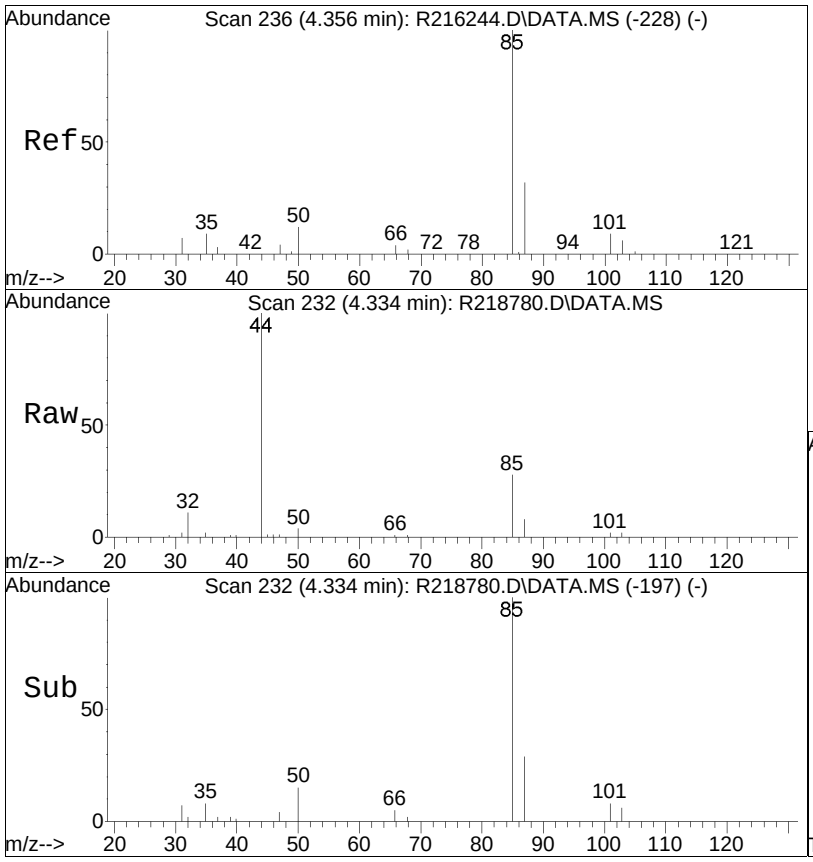
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : KMS-MCP8260 - .n Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218780.D
Acq On : 6 Jan 2012 1:03
Operator : AIRPIANO2:MB
Sample : WG511601-5,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 16 12:06:43 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011
Response via : Initial Calibration

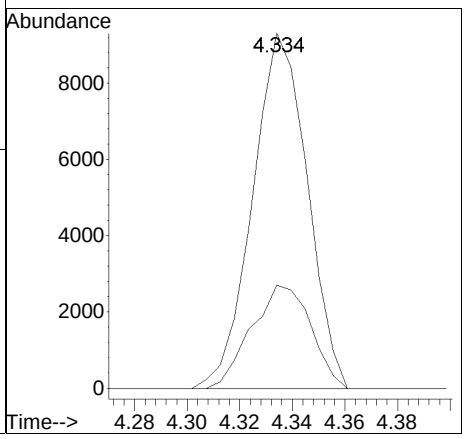


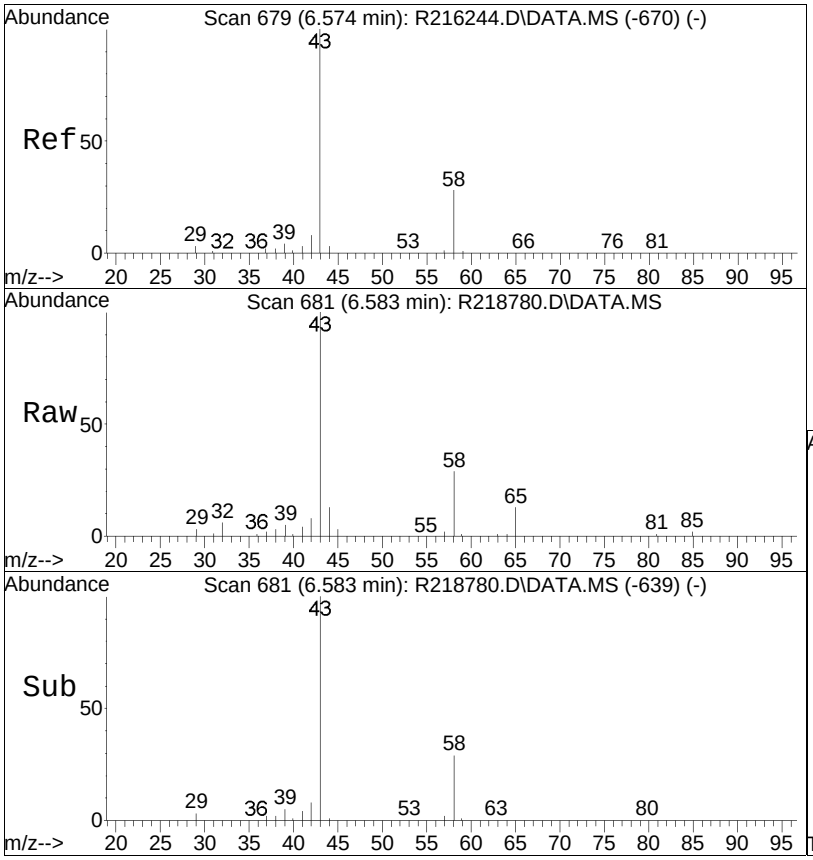


#5
dichlorodifluoromethane
Concen: 0.39 ppbV m
RT: 4.334 min Scan# 232
Delta R.T. -0.011 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 85 Resp: 13433

Ion	Ratio	Lower	Upper
85	100		
87	29.0	26.4	39.6

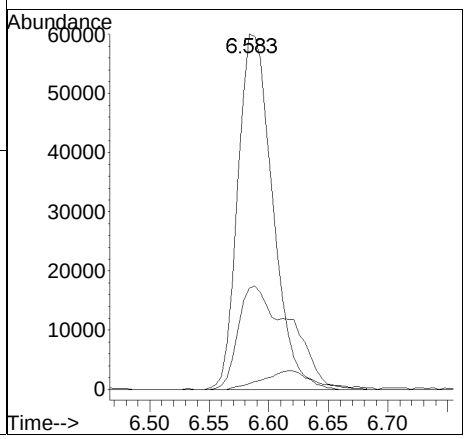


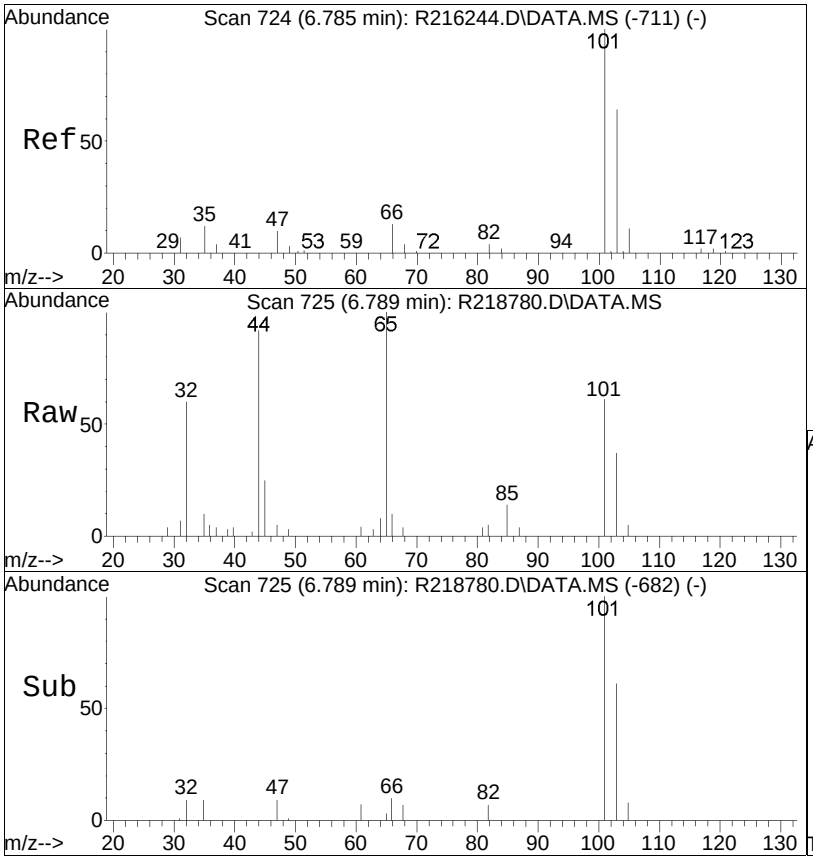


#19
acetone
Concen: 8.41 ppbV m
RT: 6.583 min Scan# 681
Delta R.T. 0.009 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 43 Resp: 122684

Ion	Ratio	Lower	Upper
43	100		
58	28.5	22.2	33.2
57	1.6	0.9	1.3#

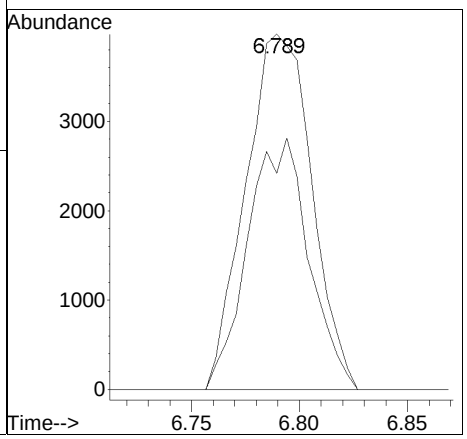


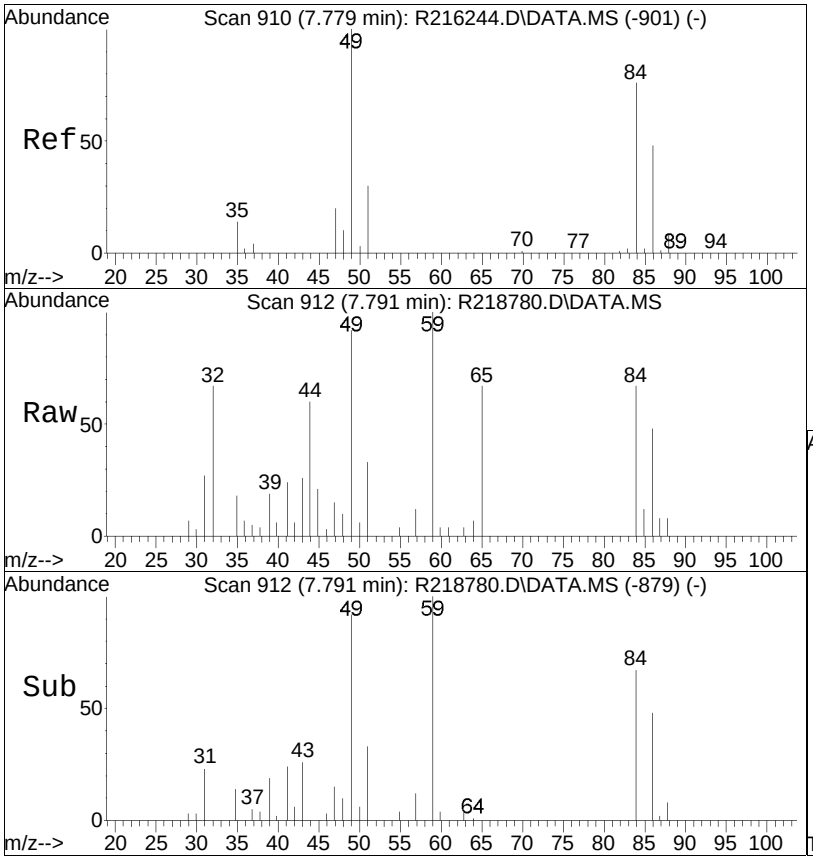


#21
trichlorofluoromethane
Concen: 0.24 ppbV
RT: 6.789 min Scan# 725
Delta R.T. -0.000 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:101 Resp: 8481

Ion	Ratio	Lower	Upper
101	100		
103	60.8	50.2	75.2

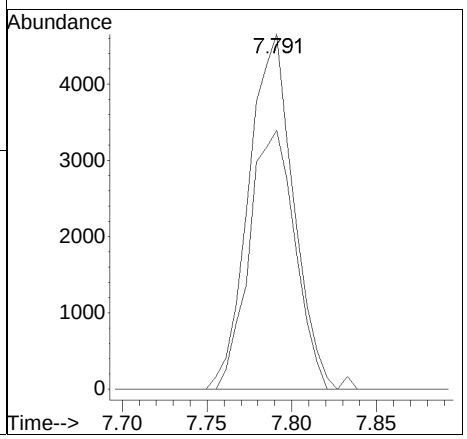


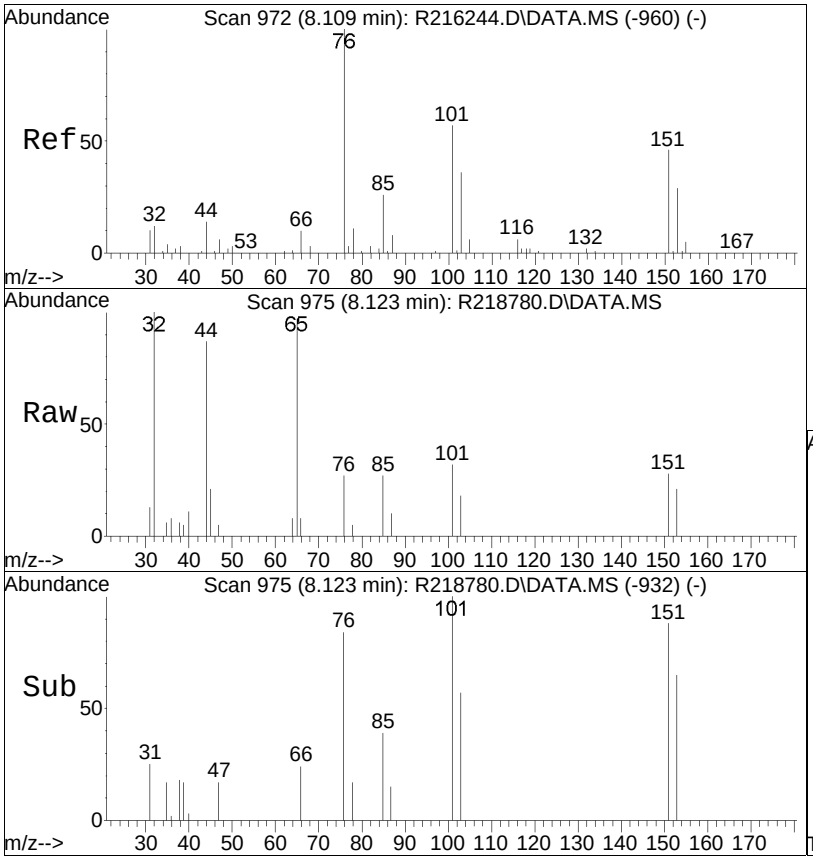


#28
methylene chloride
Concen: 0.58 ppbV
RT: 7.791 min Scan# 912
Delta R.T. -0.000 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 49 Resp: 8594

Ion	Ratio	Lower	Upper
49	100		
84	72.9	56.6	84.8

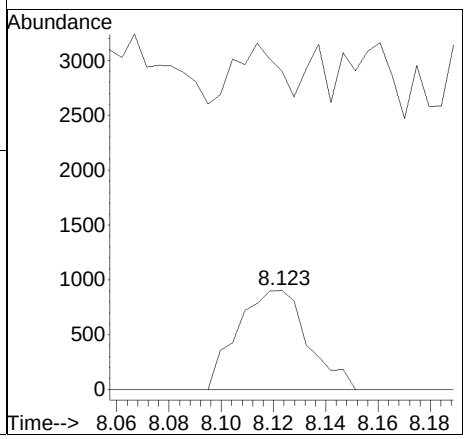


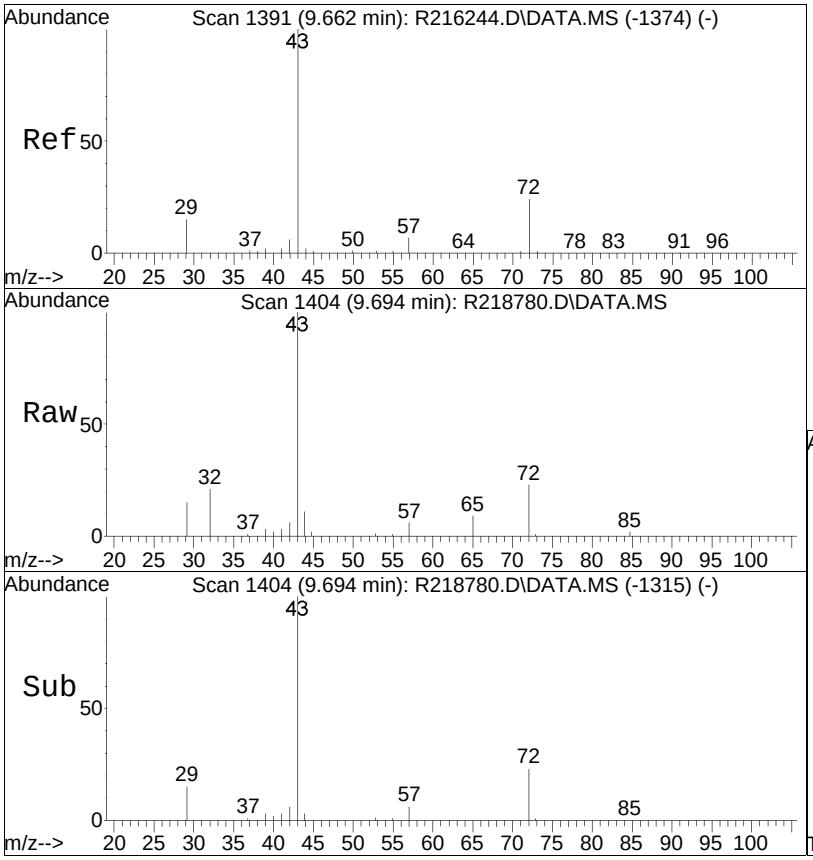


#30
carbon disulfide
Concen: 0.05 ppbV
RT: 8.123 min Scan# 975
Delta R.T. 0.005 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 76 Resp: 1676

Ion	Ratio	Lower	Upper
76	100		
44	321.5	12.2	18.4#

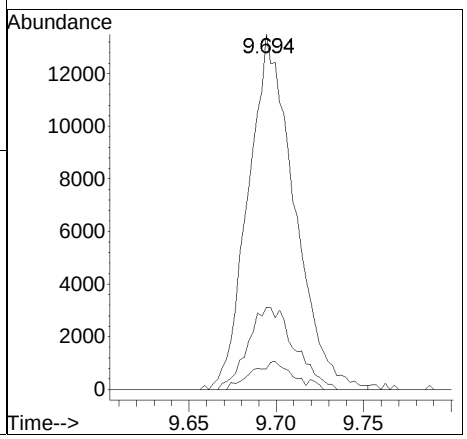


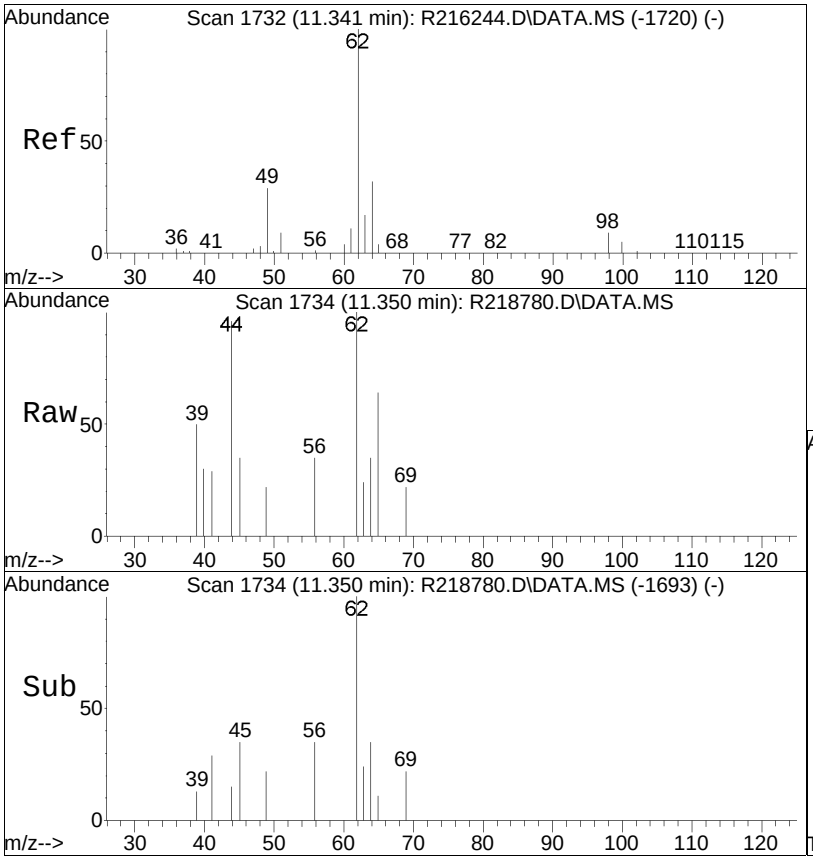


#36
2-butanone
Concen: 1.36 ppbV
RT: 9.694 min Scan# 1404
Delta R.T. 0.025 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 43 Resp: 24740

Ion	Ratio	Lower	Upper
43	100		
72	23.1	17.6	26.4
57	5.8	5.6	8.4

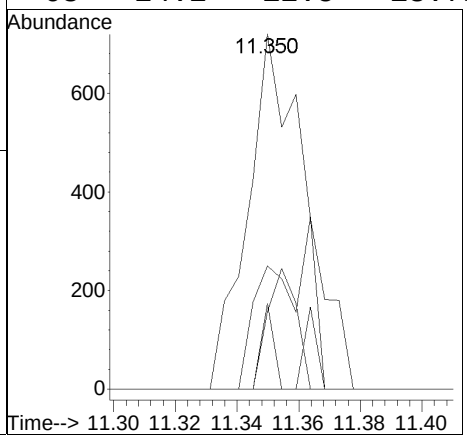


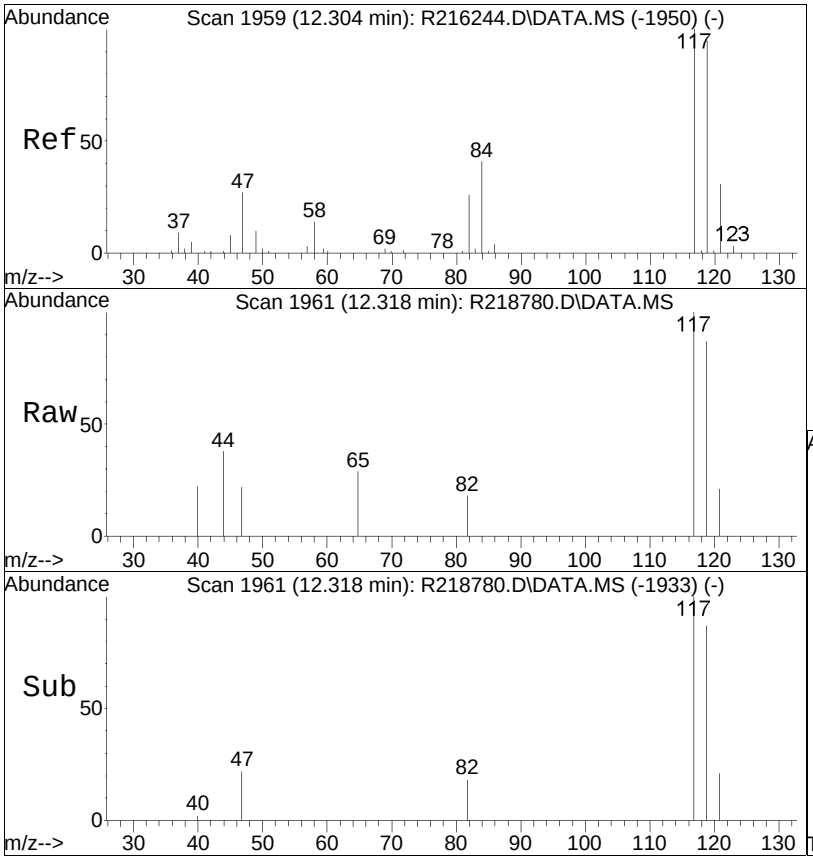


#42
1,2-dichloroethane
Concen: 0.06 ppbV
RT: 11.350 min Scan# 1734
Delta R.T. -0.009 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 62 Resp: 945

Ion	Ratio	Lower	Upper
62	100		
64	34.7	24.4	36.6
49	21.8	23.3	34.9#
63	24.2	12.5	18.7#

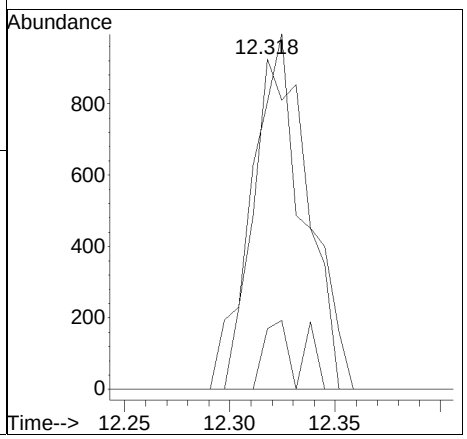


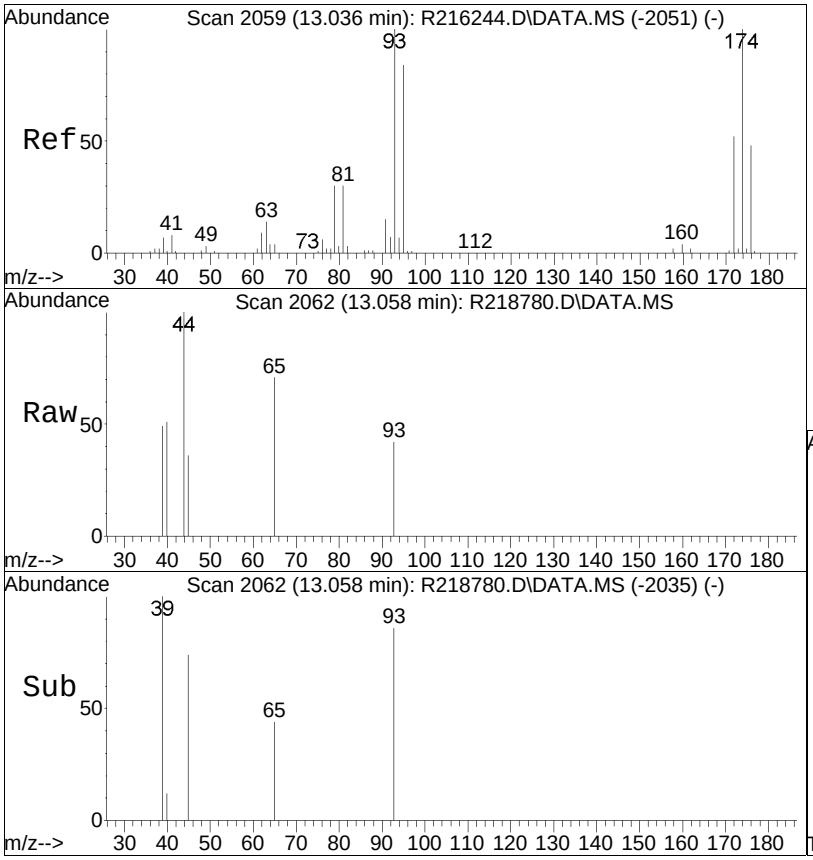


#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 12.318 min Scan# 1961
Delta R.T. -0.007 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:117 Resp: 1842

Ion	Ratio	Lower	Upper
117	100		
119	87.0	76.8	115.2
82	18.4	19.4	29.0#

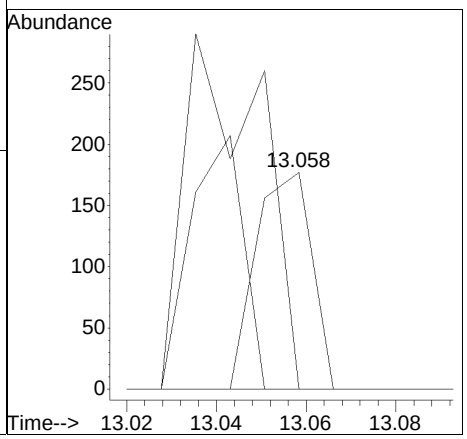


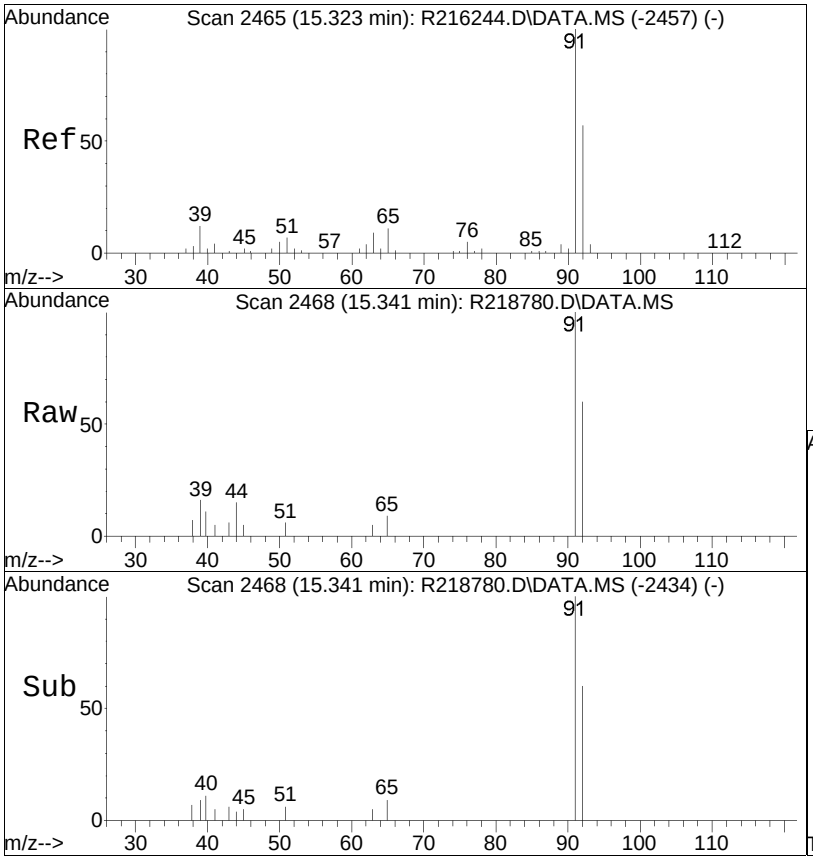


#55
dibromomethane
Concen: 0.01 ppbV
RT: 13.058 min Scan# 2062
Delta R.T. 0.008 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 93 Resp: 153

Ion	Ratio	Lower	Upper
93	100		
174	0.0	79.0	118.4#
95	0.0	68.4	102.6#

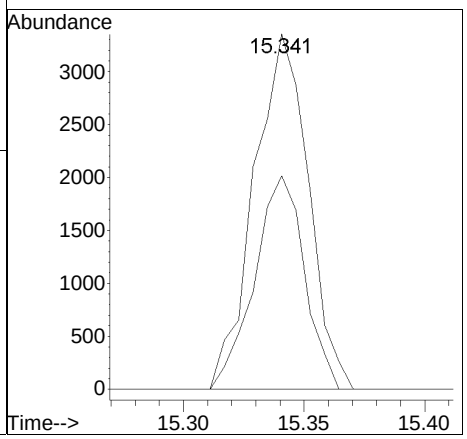


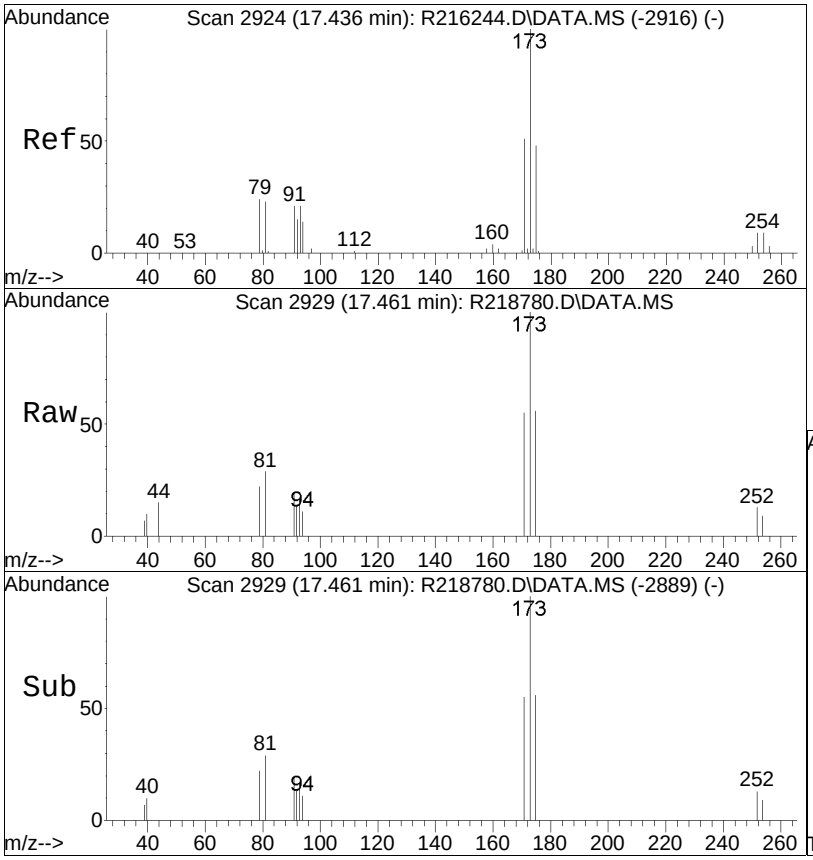


#69
toluene
Concen: 0.16 ppbV
RT: 15.341 min Scan# 2468
Delta R.T. -0.000 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 91 Resp: 5248

Ion	Ratio	Lower	Upper
91	100		
92	60.1	47.0	70.4

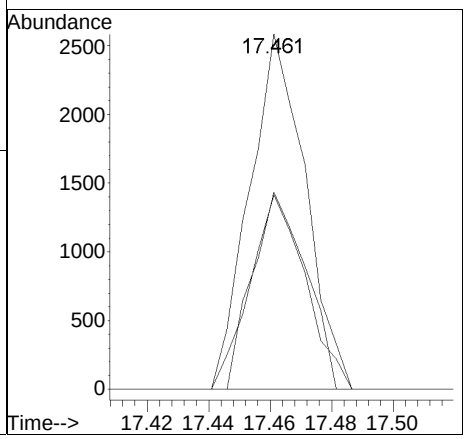


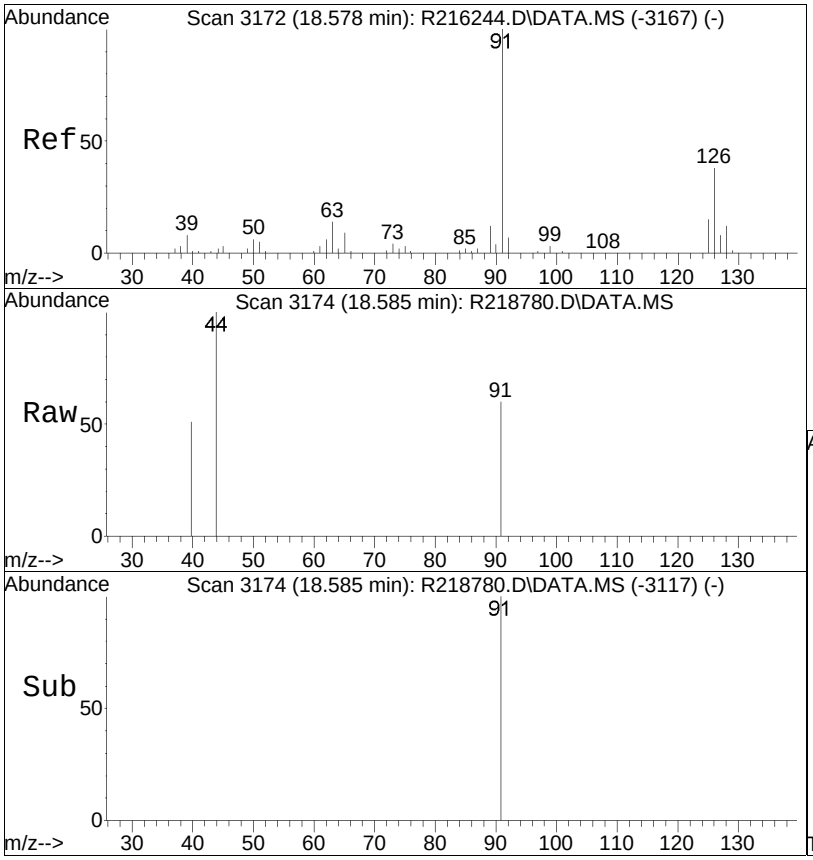


#85
bromoform
Concen: 0.15 ppbV
RT: 17.461 min Scan# 2929
Delta R.T. 0.005 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:173 Resp: 3264

Ion	Ratio	Lower	Upper
173	100		
175	55.5	38.6	57.8
171	54.7	41.2	61.8

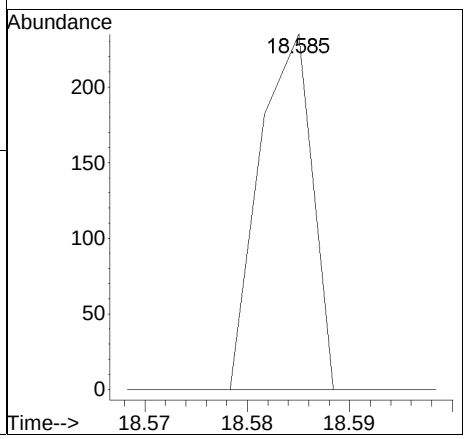


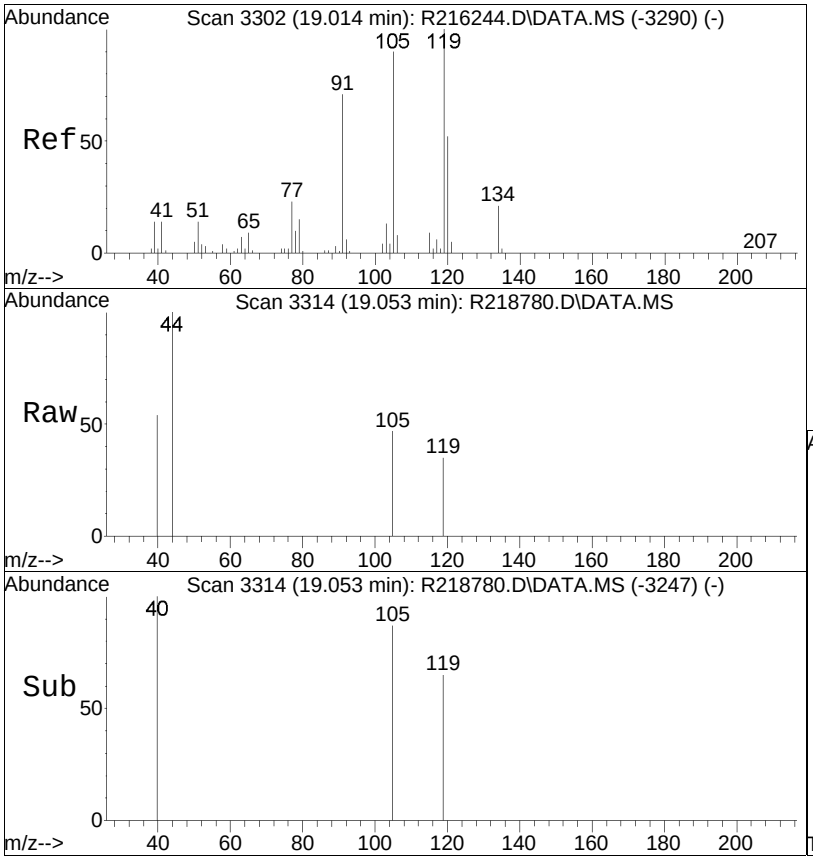


#96
4-chlorotoluene
Concen: 0.00 ppbV
RT: 18.585 min Scan# 3174
Delta R.T. -0.010 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 91 Resp: 84

Ion	Ratio	Lower	Upper
91	100		
126	0.0	28.2	42.2#

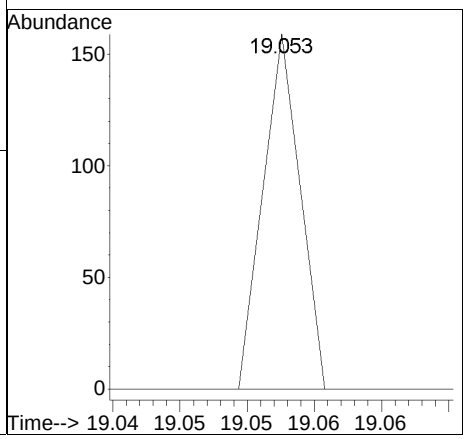


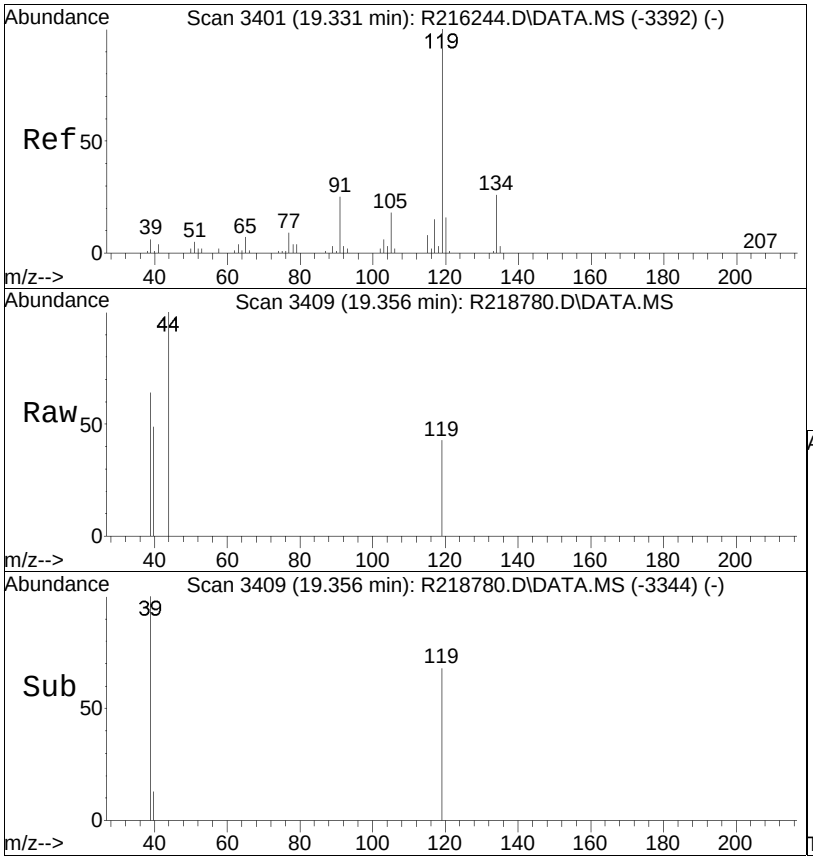


#99
tert-butylbenzene
Concen: 0.00 ppbV
RT: 19.053 min Scan# 3314
Delta R.T. 0.022 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:119 Resp: 31

Ion	Ratio	Lower	Upper
119	100		
134	0.0	17.2	25.8#

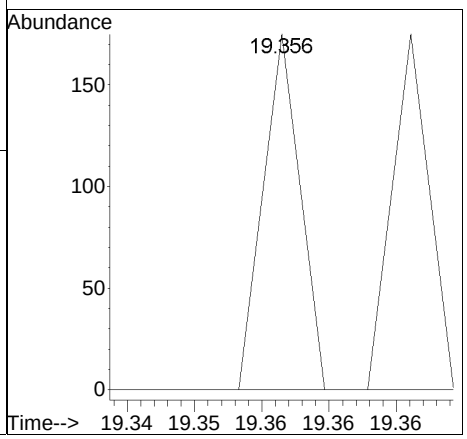


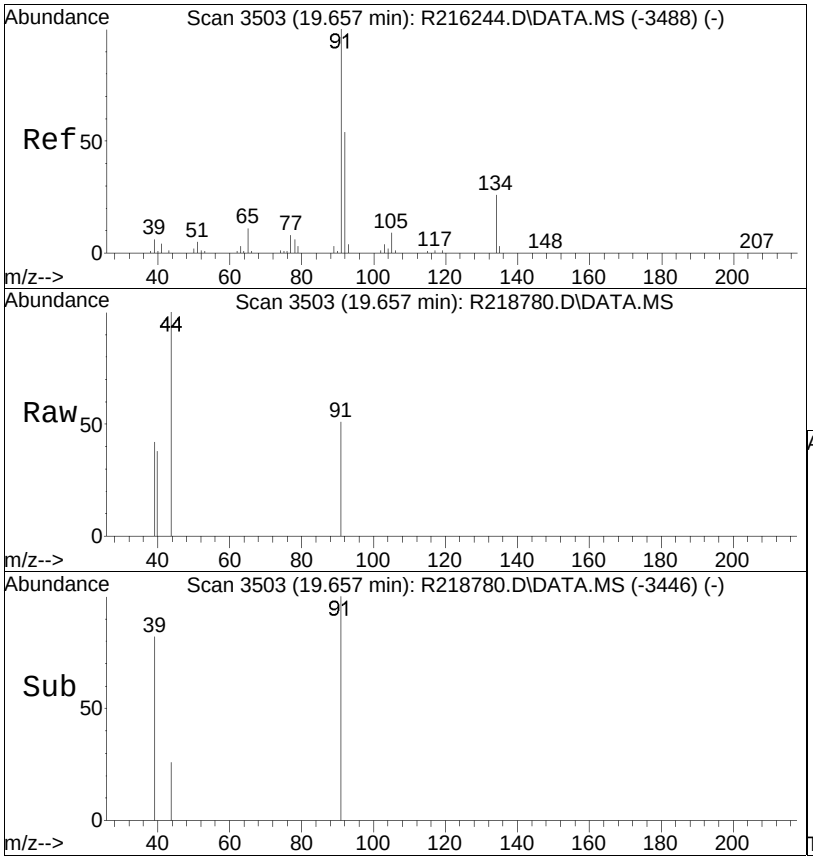


#107
p-isopropyltoluene
Concen: 0.00 ppbV
RT: 19.356 min Scan# 3409
Delta R.T. 0.010 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion:119 Resp: 34

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#

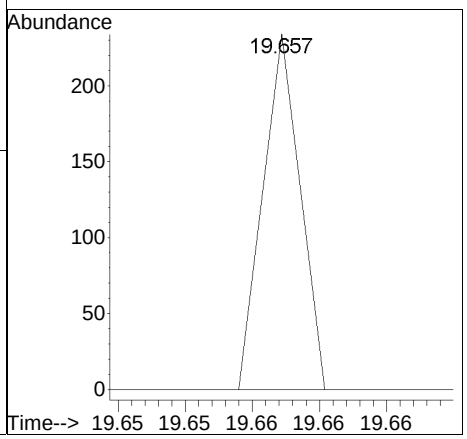




#109
n-butylbenzene
Concen: 0.00 ppbV
RT: 19.657 min Scan# 3503
Delta R.T. -0.016 min
Lab File: R218780.D
Acq: 6 Jan 2012 1:03

Tgt Ion: 91 Resp: 45

Ion	Ratio	Lower	Upper
91	100		
134	0.0	20.9	31.3#

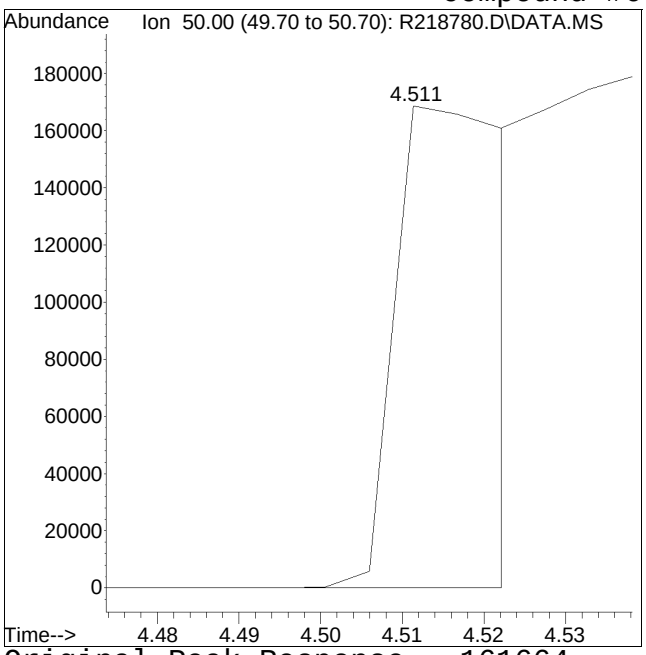


Manual Integration/Negative Proof Report

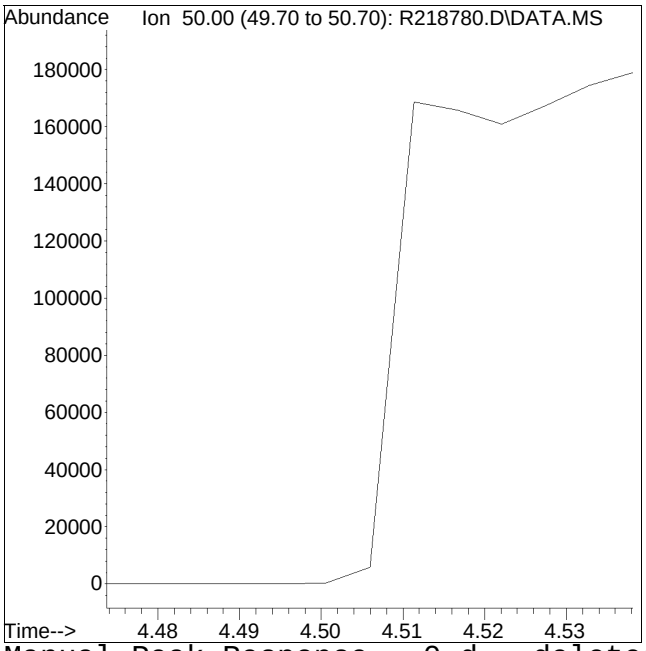
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #6: chloromethane



Original Peak Response = 161664



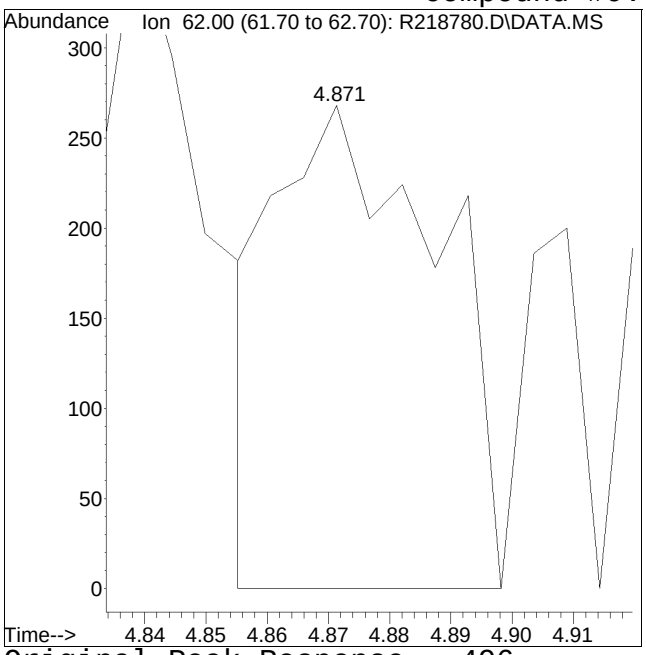
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

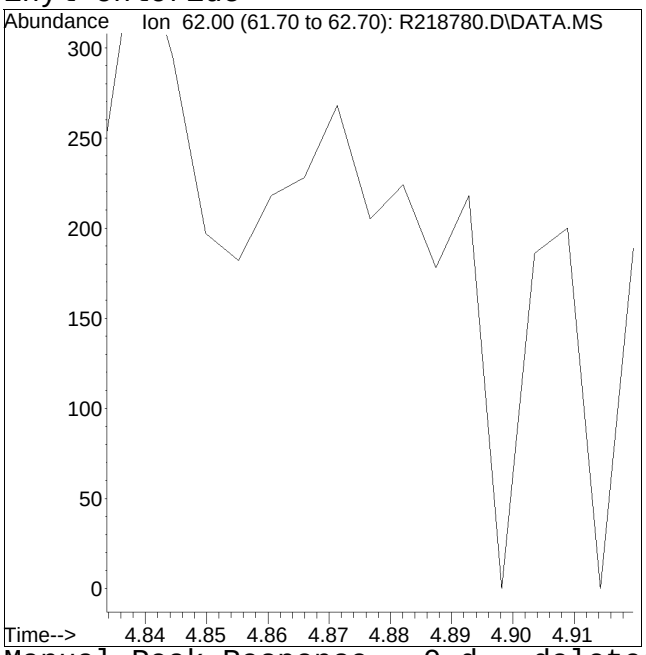
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #9: vinyl chloride



Original Peak Response = 496



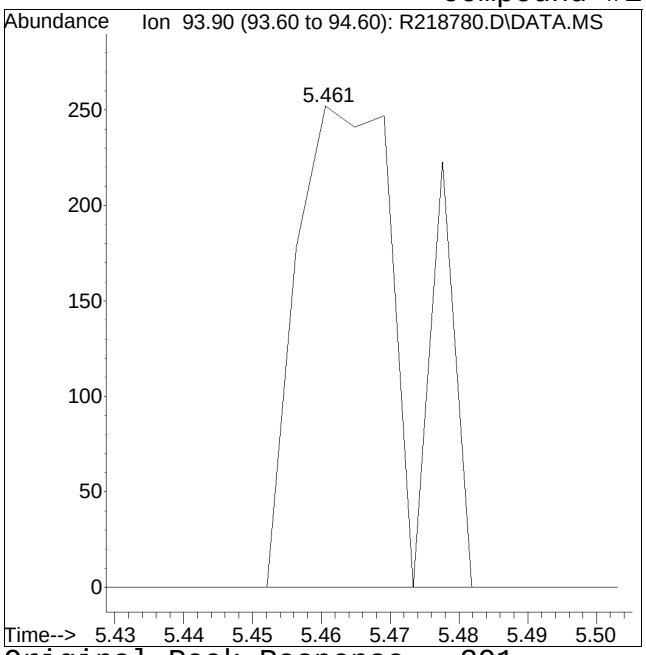
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

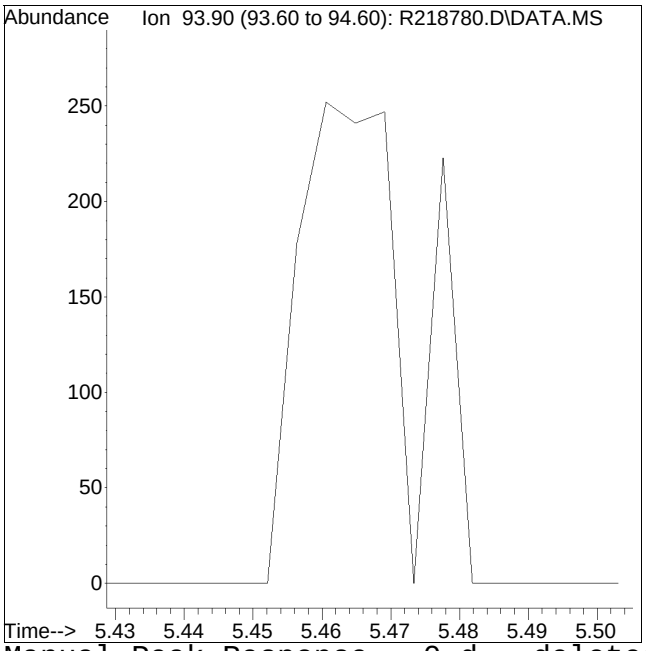
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #13: bromomethane



Original Peak Response = 291



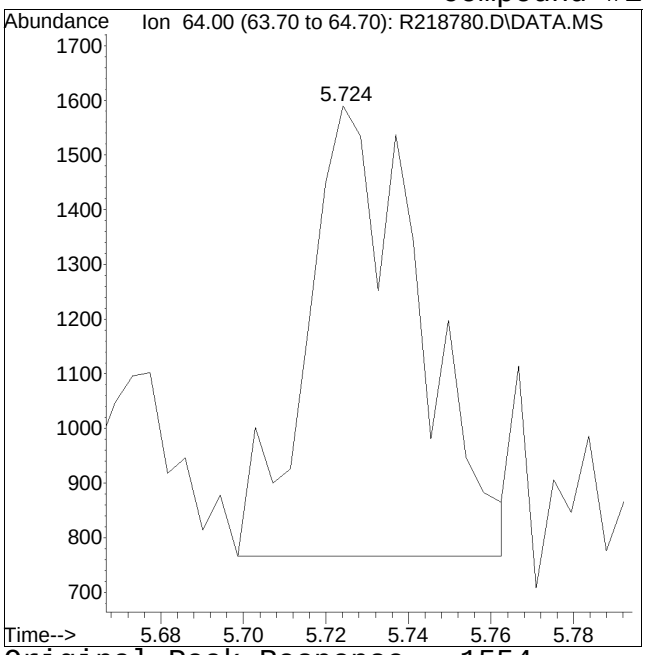
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

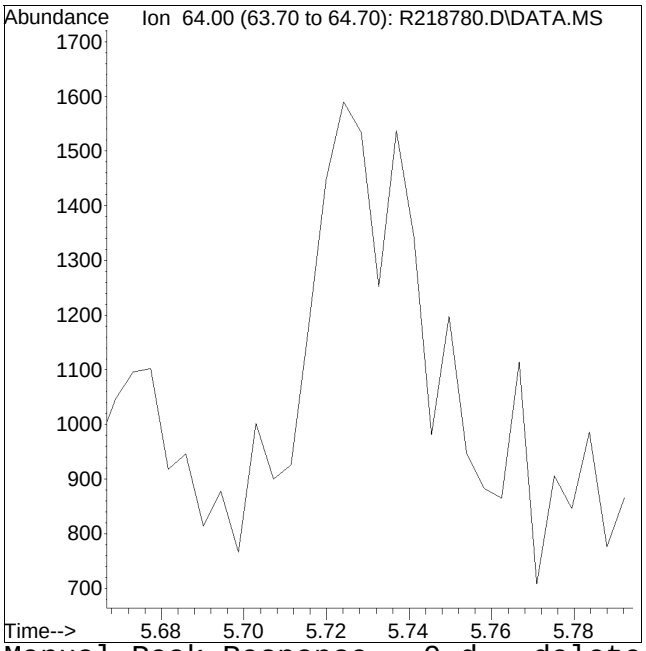
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #14: chloroethane



Original Peak Response = 1554



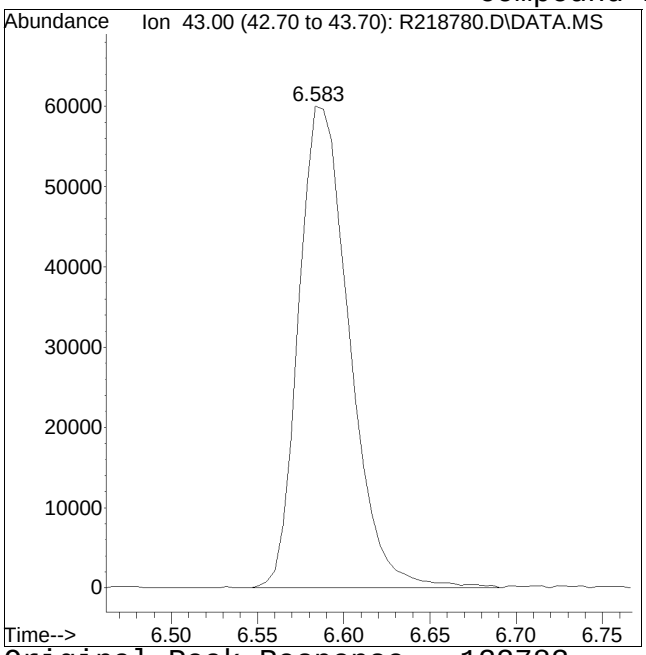
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

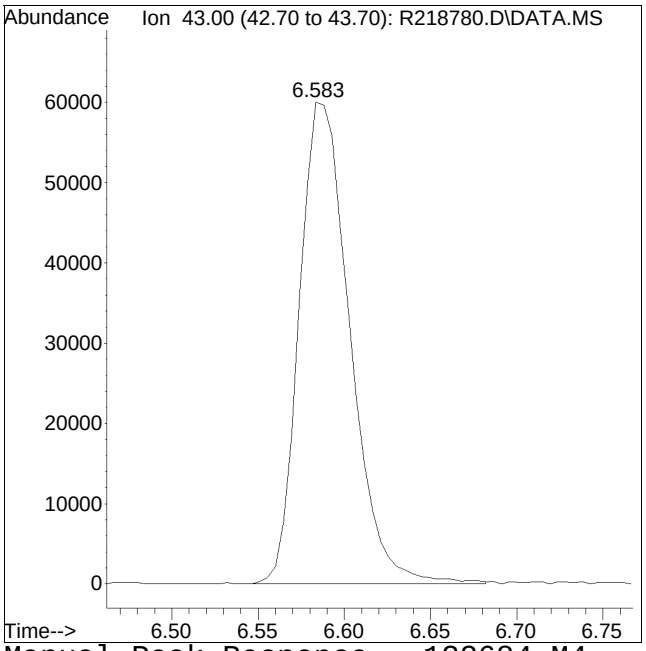
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #19: acetone



Original Peak Response = 122783



Manual Peak Response = 122684 M4

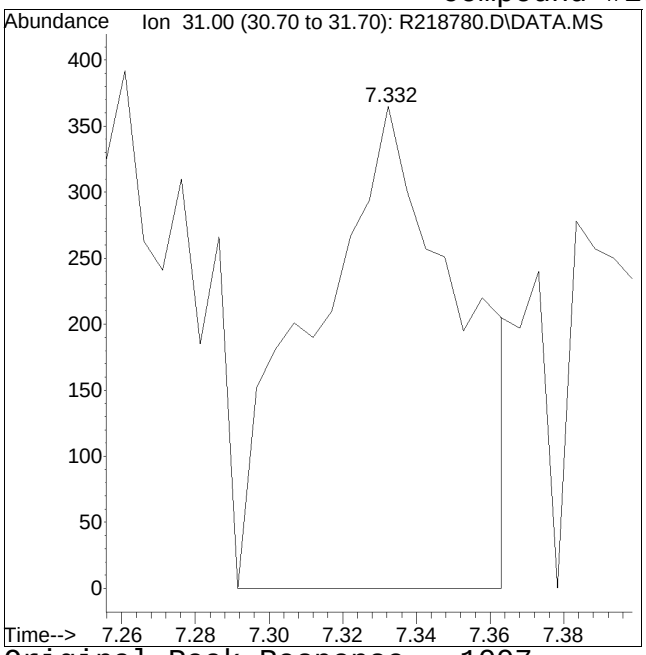
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

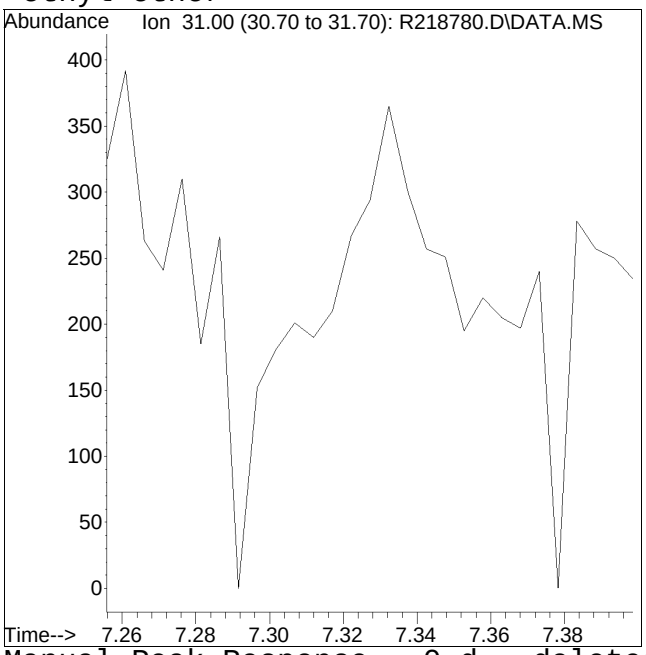
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #25: ethyl ether



Original Peak Response = 1007



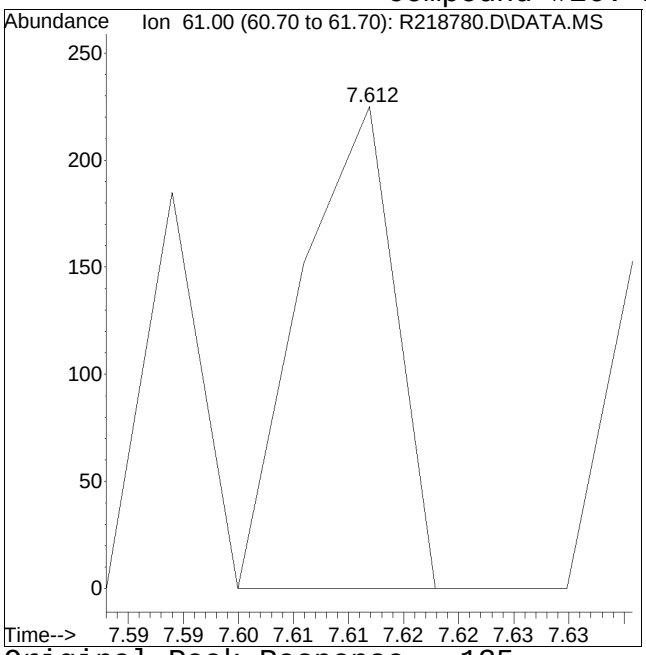
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

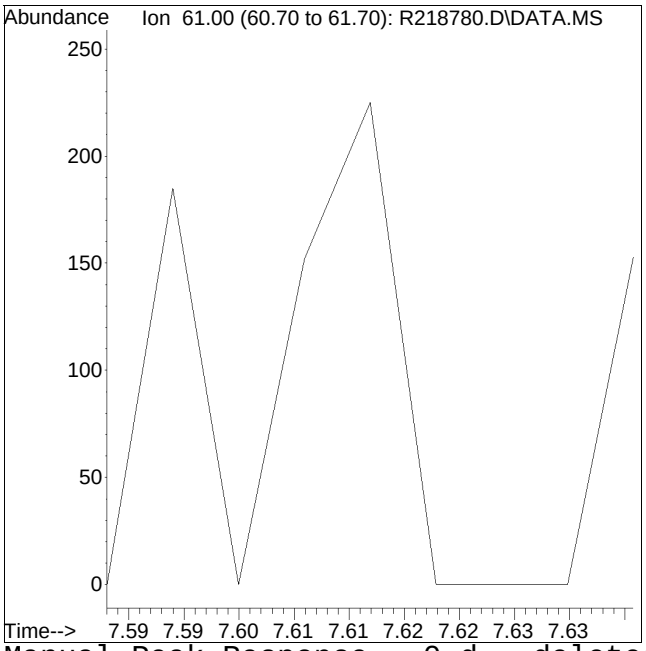
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #26: 1,1-dichloroethene



Original Peak Response = 135



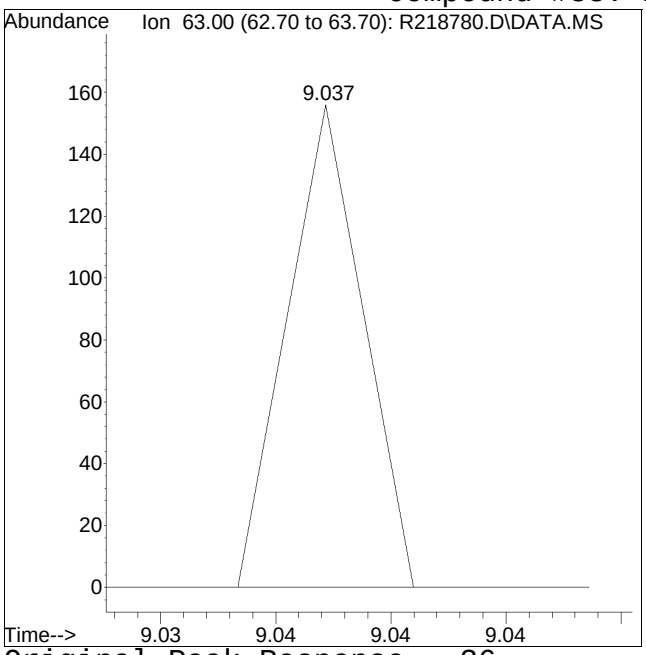
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

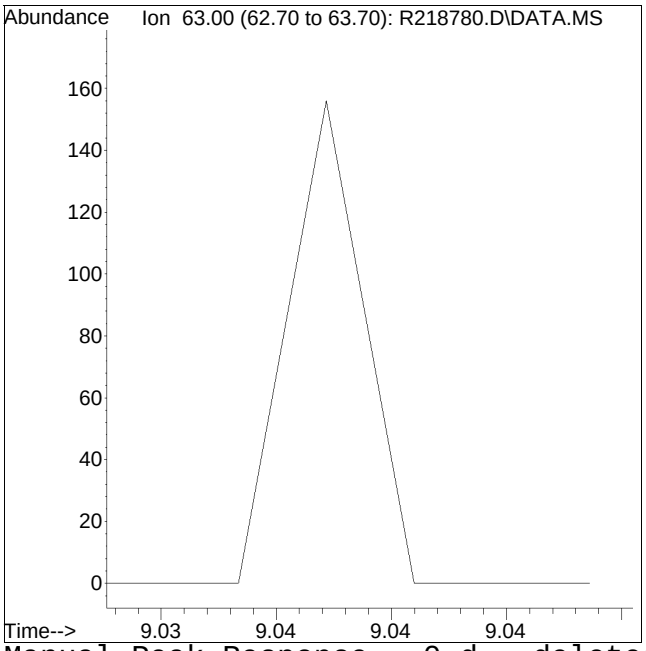
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #33: 1,1-dichloroethane



Original Peak Response = 36



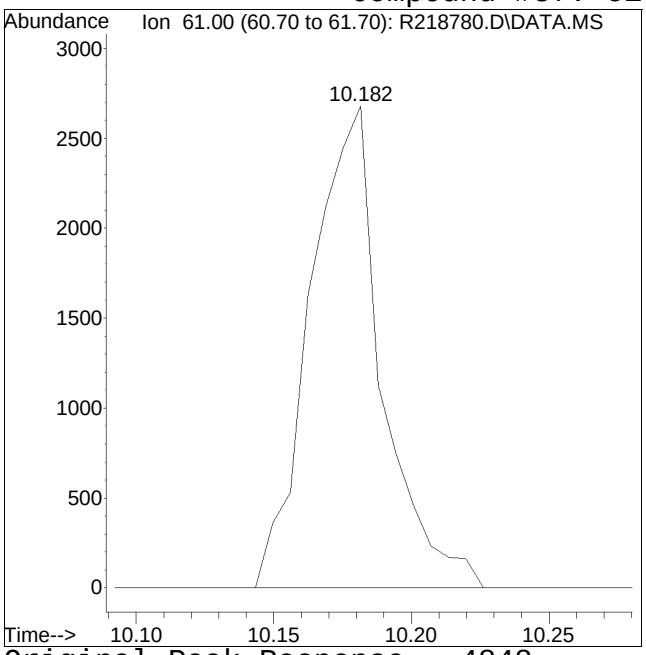
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

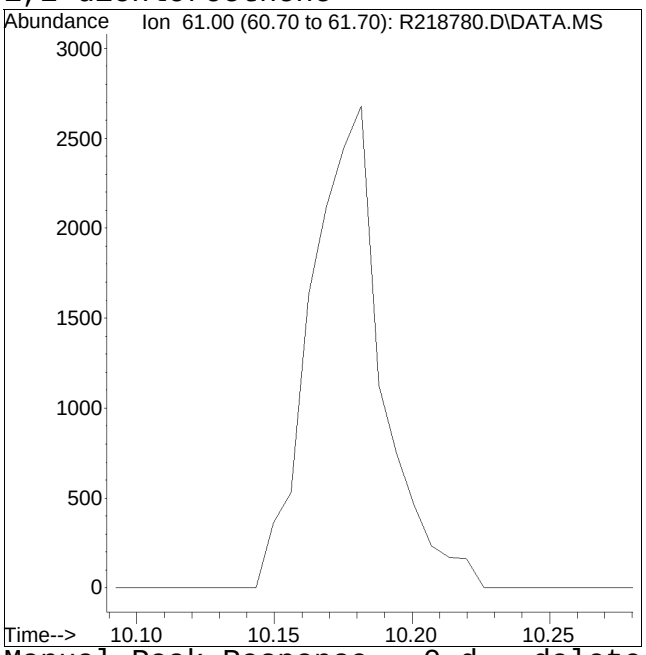
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #37: cis-1,2-dichloroethene



Original Peak Response = 4848



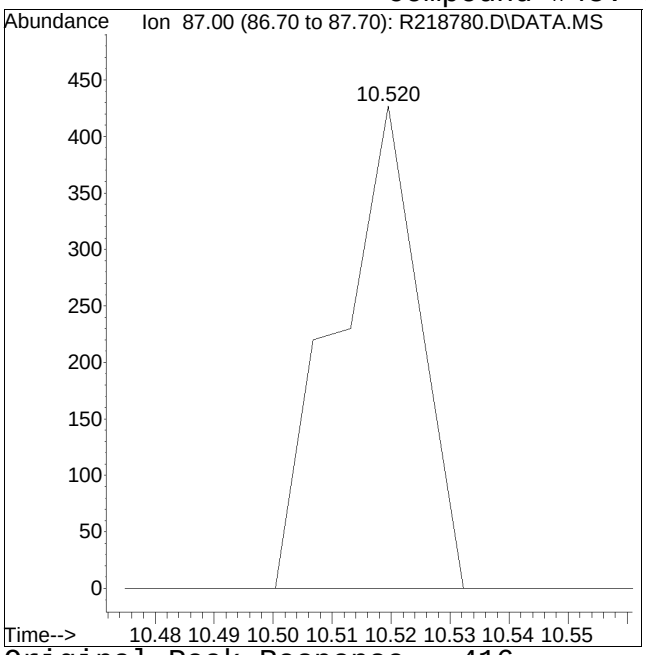
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

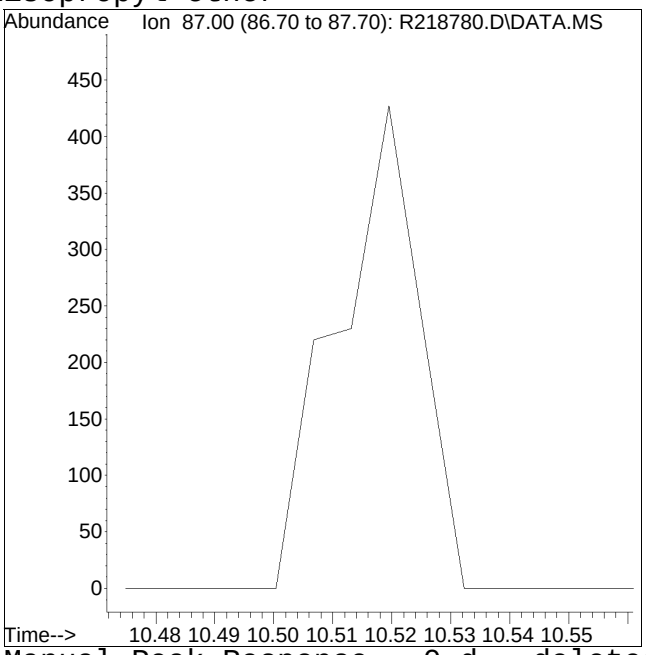
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #45: diisopropyl ether



Original Peak Response = 416



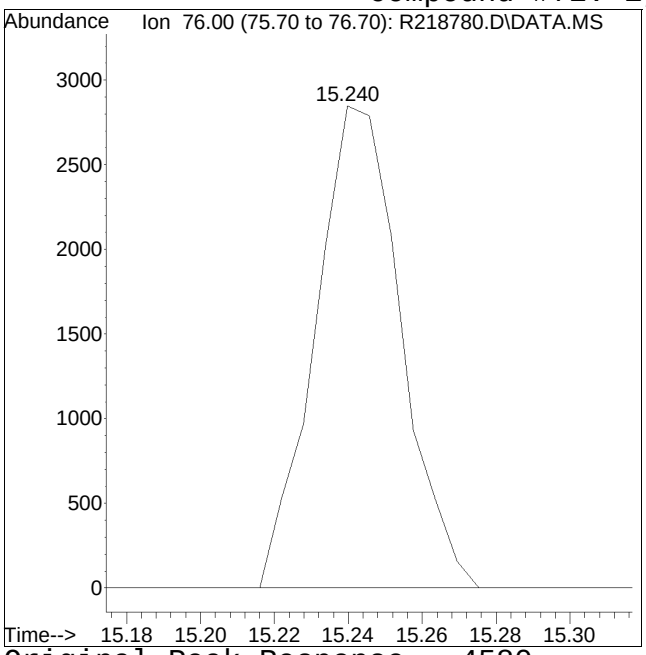
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

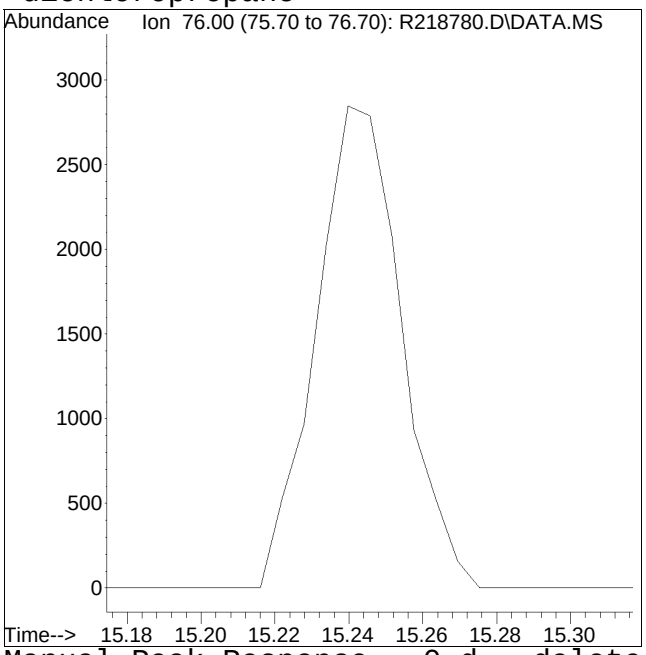
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #72: 1,3-dichloropropane



Original Peak Response = 4580



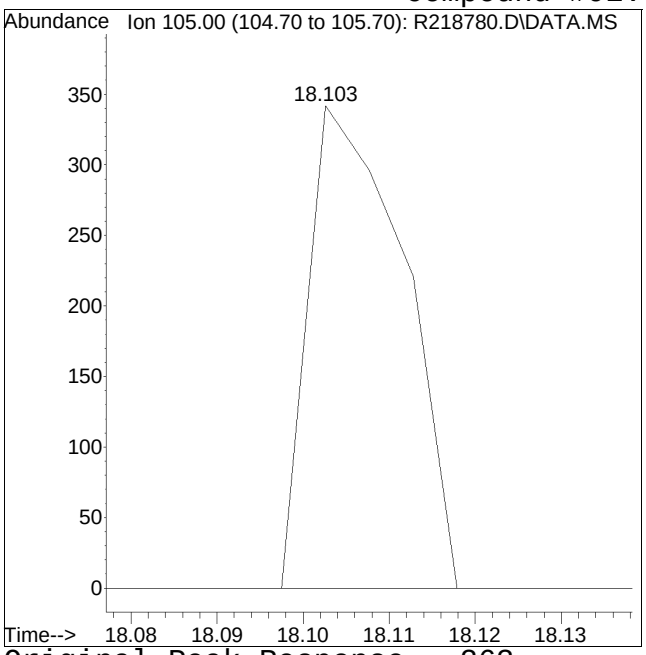
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

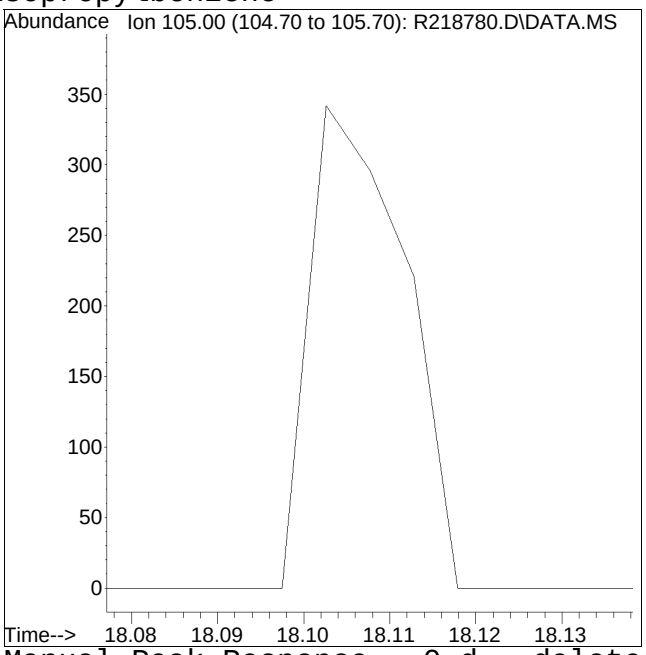
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #92: isopropylbenzene



Original Peak Response = 263



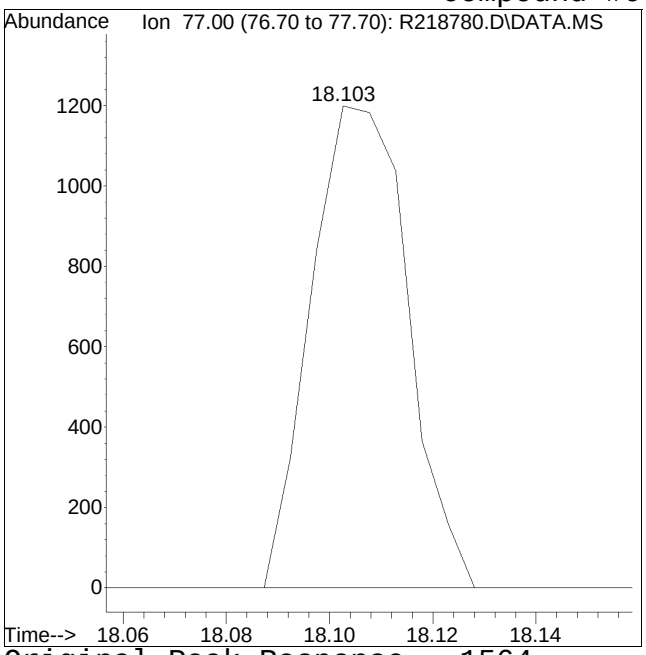
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

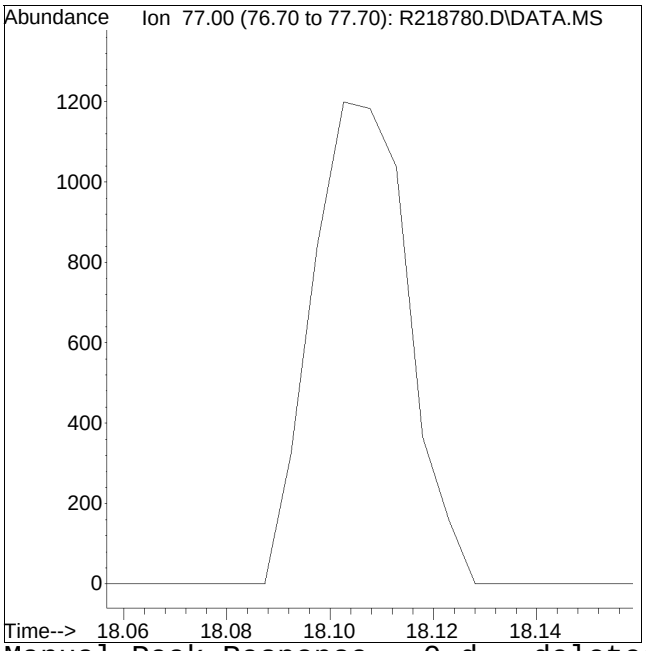
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #93: bromobenzene



Original Peak Response = 1564



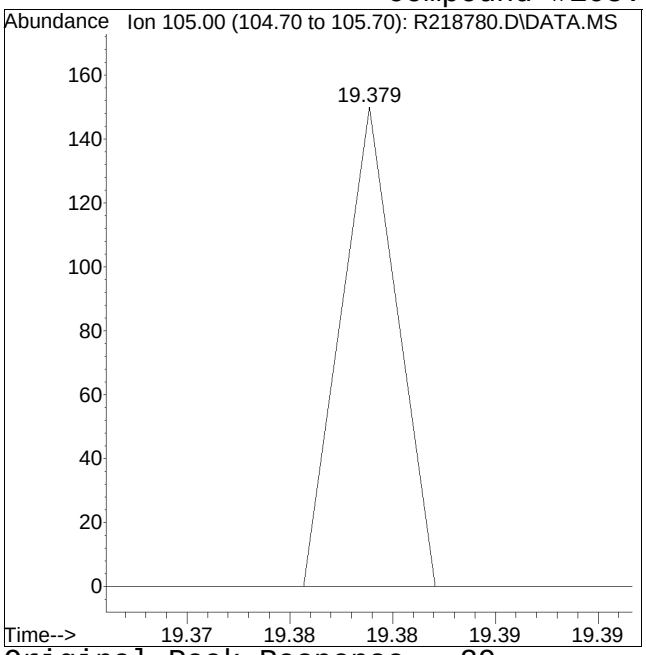
Manual Peak Response = 0 d - deleted

Manual Integration/Negative Proof Report

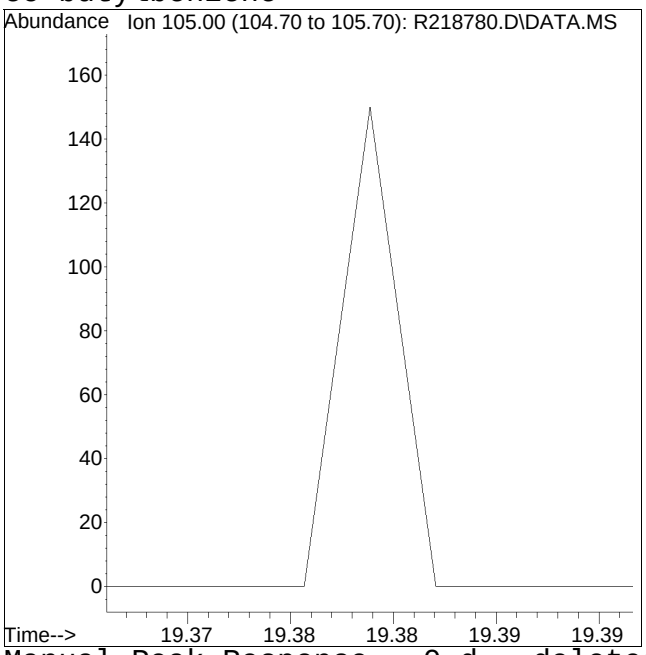
Data Path : O:\Forensics\Data\AIR2\2012Q
Data File : R218780.D
Date Inj'd : 1/6/2012 1:03
Sample : WG511601-5,3,250,250

Method : TALL111221.M
Operator : AIRPIANO2:MB
Instrument : Air Piano 2
Quant Date : 1/6/2012 9:01 am

Compound #105: sec-butylbenzene



Original Peak Response = 29



Manual Peak Response = 0 d - deleted

Alpha Report

ANALYTICAL REPORT

Lab Number:	L1200006
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	KEITH MIDDLE SCHOOL
Project Number:	115058
Report Date:	01/16/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200006
Report Date: 01/16/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1200006-01	VS-1-28	Not Specified	12/29/11 00:00
L1200006-02	VS-4-28	Not Specified	12/29/11 00:00
L1200006-03	VS-12-28	Not Specified	12/29/11 00:00
L1200006-04	VS-8-28	Not Specified	12/29/11 00:00
L1200006-05	VS-8-28-DUP	Not Specified	12/29/11 00:00
L1200006-06	VS-BG-28	Not Specified	12/29/11 00:00
L1200006-07	VS-TB-28	Not Specified	12/29/11 00:00

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200006

Project Number: 115058 **Report Date:** 01/16/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	YES
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200006
Project Number: 115058 **Report Date:** 01/16/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

Canisters were released from the laboratory on December 23, 2011.

The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

L1200006-03 The RPD of the pre- and post-flow controller calibration check (29% RPD) was outside acceptable limits (< or = 20% RPD).

L1200006-01 through -05 and WG511601-5: The presence of Chloromethane could not be determined in

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200006
Project Number: 115058 **Report Date:** 01/16/12

Case Narrative (continued)

these samples due to non-target compounds interfering with the identification and quantification of this compound.

The WG511601-3 LCS recoveries for n-Butylbenzene (131%), 1,2,3-Trichlorobenzene (147%) are above the upper 130% acceptance limit. None of the samples associated with this LCS have reportable amounts of these analytes.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kathleen O'Brien

Title: Technical Director/Representative Date: 01/16/12

AIR

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-01
Client ID: VS-1-28
Sample Location:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 01/06/12 00:27
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.373	0.200	--	1.84	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	8.39	1.00	--	19.9	2.38	--		1
Trichlorofluoromethane	0.227	0.200	--	1.28	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.37	0.200	--	4.04	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-01
Client ID: VS-1-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-01
Client ID: VS-1-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID:	L1200006-01	Date Collected:	12/29/11 00:00
Client ID:	VS-1-28	Date Received:	12/30/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	01/06/12 00:27		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	0.213	0.100	--	0.680	0.319	--		1
Chloroform	0.249	0.020	--	1.22	0.098	--		1
Tetrachloroethene	0.081	0.020	--	0.549	0.136	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	108		60-140
bromochloromethane	111		60-140
chlorobenzene-d5	103		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-02
Client ID: VS-4-28
Sample Location:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 01/06/12 01:39
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.316	0.200	--	1.56	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	11.1	1.00	--	26.4	2.38	--		1
Trichlorofluoromethane	0.293	0.200	--	1.65	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.70	0.200	--	7.96	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	0.262	0.200	--	0.773	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-02
Client ID: VS-4-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-02
Client ID: VS-4-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-02
Client ID: VS-4-28
Sample Location:
Matrix: Soil_Vapor
Anaytical Method: 101,TO15-SIM
Analytical Date: 01/06/12 01:39
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	0.343	0.100	--	1.10	0.319	--		1
Chloroform	0.260	0.020	--	1.27	0.098	--		1
Tetrachloroethene	0.040	0.020	--	0.271	0.136	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	108		60-140
bromochloromethane	111		60-140
chlorobenzene-d5	103		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-03
Client ID: VS-12-28
Sample Location:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 01/06/12 02:15
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.370	0.200	--	1.83	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	2.93	1.00	--	6.96	2.38	--		1
Trichlorofluoromethane	0.253	0.200	--	1.42	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	0.608	0.200	--	2.19	0.721	--		1
2-Butanone	0.372	0.200	--	1.10	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-03
Client ID: VS-12-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-03
Client ID: VS-12-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	84		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	88		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-03
Client ID: VS-12-28
Sample Location:
Matrix: Soil_Vapor
Anaytical Method: 101,TO15-SIM
Analytical Date: 01/06/12 02:15
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	0.141	0.100	--	0.450	0.319	--		1
Chloroform	0.471	0.020	--	2.30	0.098	--		1
Tetrachloroethene	0.248	0.020	--	1.68	0.136	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	103		60-140
bromochloromethane	107		60-140
chlorobenzene-d5	101		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-04
Client ID: VS-8-28
Sample Location:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 01/06/12 02:51
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.405	0.200	--	2.00	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	2.76	1.00	--	6.56	2.38	--		1
Trichlorofluoromethane	0.339	0.200	--	1.90	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.769	0.200	--	2.27	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	0.875	0.200	--	2.58	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-04
Client ID: VS-8-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.497	0.200	--	1.87	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.61	0.200	--	11.3	0.869	--		1
p/m-Xylene	0.468	0.400	--	2.03	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	1.24	0.200	--	5.28	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-04
Client ID: VS-8-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-04
Client ID: VS-8-28
Sample Location:
Matrix: Soil_Vapor
Anaytical Method: 101,TO15-SIM
Analytical Date: 01/06/12 02:51
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	ND	0.100	--	ND	0.319	--		1
Chloroform	0.161	0.020	--	0.786	0.098	--		1
Tetrachloroethene	0.122	0.020	--	0.827	0.136	--		1
Trichloroethene	0.050	0.020	--	0.269	0.107	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	107		60-140
bromochloromethane	109		60-140
chlorobenzene-d5	105		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-05
Client ID: VS-8-28-DUP
Sample Location:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 01/06/12 03:26
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.404	0.200	--	2.00	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	3.02	1.00	--	7.17	2.38	--		1
Trichlorofluoromethane	0.362	0.200	--	2.03	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.44	0.200	--	4.25	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	0.612	0.200	--	1.80	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-05
Client ID: VS-8-28-DUP
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	0.206	0.200	--	0.844	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-05
Client ID: VS-8-28-DUP
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-05
Client ID: VS-8-28-DUP
Sample Location:
Matrix: Soil_Vapor
Anaytical Method: 101,TO15-SIM
Analytical Date: 01/06/12 03:26
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	0.122	0.100	--	0.390	0.319	--		1
Chloroform	0.129	0.020	--	0.630	0.098	--		1
Tetrachloroethene	0.036	0.020	--	0.244	0.136	--		1
Trichloroethene	0.033	0.020	--	0.177	0.107	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	108		60-140
bromochloromethane	111		60-140
chlorobenzene-d5	104		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-06
Client ID: VS-BG-28
Sample Location:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 01/06/12 04:02
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.488	0.200	--	2.41	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	1.30	1.00	--	3.09	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-06
Client ID: VS-BG-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-06
Client ID: VS-BG-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	86		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID:	L1200006-06	Date Collected:	12/29/11 00:00
Client ID:	VS-BG-28	Date Received:	12/30/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	01/06/12 04:02		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	0.123	0.100	--	0.393	0.319	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	105		60-140
bromochloromethane	106		60-140
chlorobenzene-d5	99		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-07
Client ID: VS-TB-28
Sample Location:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15
Analytical Date: 01/05/12 20:52
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-07
Client ID: VS-TB-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-07
Client ID: VS-TB-28
Sample Location:
Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab								
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	84		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	87		60-140

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

SAMPLE RESULTS

Lab ID: L1200006-07
Client ID: VS-TB-28
Sample Location:
Matrix: Soil_Vapor
Anaytical Method: 101,TO15-SIM
Analytical Date: 01/05/12 20:52
Analyst: MB

Date Collected: 12/29/11 00:00
Date Received: 12/30/11
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Benzene	ND	0.100	--	ND	0.319	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	104		60-140
bromochloromethane	106		60-140
chlorobenzene-d5	99		60-140

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200006

Project Number: 115058 **Report Date:** 01/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 01/05/12 19:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG511601-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200006

Project Number: 115058 **Report Date:** 01/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 01/05/12 19:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG511601-4								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 01/05/12 19:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG511601-4								
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200006
Report Date: 01/16/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO15-SIM
Analytical Date: 01/05/12 19:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-07 Batch: WG511603-4								
Benzene	ND	0.100	--	ND	0.319	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058
Lab Number: L1200006
Report Date: 01/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG511601-3								
Dichlorodifluoromethane	84		-		70-130	-		
Chloromethane	79		-		70-130	-		
Vinyl chloride	80		-		70-130	-		
Bromomethane	82		-		70-130	-		
Chloroethane	84		-		70-130	-		
Acetone	94		-		50-150	-		
Trichlorofluoromethane	83		-		70-130	-		
Ethyl ether	82		-		70-130	-		
1,1-Dichloroethene	83		-		70-130	-		
Methylene chloride	84		-		70-130	-		
Carbon disulfide	79		-		70-130	-		
trans-1,2-Dichloroethene	82		-		70-130	-		
1,1-Dichloroethane	78		-		70-130	-		
Methyl tert butyl ether	83		-		70-130	-		
2-Butanone	87		-		70-130	-		
cis-1,2-Dichloroethene	83		-		70-130	-		
Tetrahydrofuran	96		-		70-130	-		
2,2-Dichloropropane	84		-		70-130	-		
1,2-Dichloroethane	91		-		70-130	-		
Isopropyl Ether	87		-		70-130	-		
Ethyl-Tert-Butyl-Ether	88		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200006
Report Date: 01/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG511601-3								
1,1,1-Trichloroethane	83		-		70-130	-		
1,1-Dichloropropene	82		-		70-130	-		
Carbon tetrachloride	83		-		70-130	-		
Tertiary-Amyl Methyl Ether	90		-		70-130	-		
Dibromomethane	80		-		70-130	-		
1,2-Dichloropropane	88		-		70-130	-		
Bromodichloromethane	83		-		70-130	-		
1,4-Dioxane	98		-		50-150	-		
cis-1,3-Dichloropropene	90		-		70-130	-		
4-Methyl-2-pentanone	96		-		70-130	-		
trans-1,3-Dichloropropene	77		-		70-130	-		
1,1,2-Trichloroethane	92		-		70-130	-		
Toluene	102		-		70-130	-		
1,3-Dichloropropane	98		-		70-130	-		
2-Hexanone	109		-		70-130	-		
Dibromochloromethane	106		-		70-130	-		
1,2-Dibromoethane	105		-		70-130	-		
1,1,1,2-Tetrachloroethane	101		-		70-130	-		
Chlorobenzene	107		-		70-130	-		
Ethylbenzene	111		-		70-130	-		
p/m-Xylene	110		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200006
Report Date: 01/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG511601-3								
Bromoform	105		-		70-130	-		
Styrene	113		-		70-130	-		
1,1,2,2-Tetrachloroethane	118		-		70-130	-		
o-Xylene	119		-		70-130	-		
1,2,3-Trichloropropane	113		-		70-130	-		
Isopropylbenzene	112		-		70-130	-		
Bromobenzene	100		-		70-130	-		
o-Chlorotoluene	109		-		70-130	-		
n-Propylbenzene	116		-		70-130	-		
p-Chlorotoluene	110		-		70-130	-		
1,3,5-Trimethylbenzene	123		-		70-130	-		
tert-Butylbenzene	123		-		70-130	-		
1,2,4-Trimethylbenzene	130		-		70-130	-		
1,3-Dichlorobenzene	123		-		70-130	-		
1,4-Dichlorobenzene	122		-		70-130	-		
sec-Butylbenzene	122		-		70-130	-		
p-Isopropyltoluene	121		-		70-130	-		
1,2-Dichlorobenzene	126		-		70-130	-		
n-Butylbenzene	**131**	Q	-		70-130	-		
1,2-Dibromo-3-chloropropane	128		-		70-130	-		
1,2,4-Trichlorobenzene	148		-		50-150	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200006
Report Date: 01/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG511601-3								
Naphthalene	131		-		50-150	-		
1,2,3-Trichlorobenzene	**147**	Q	-		70-130	-		
Hexachlorobutadiene	148		-		50-150	-		
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 Batch: WG511603-3								
Benzene	95		-		70-130	-		
Chloroform	102		-		70-130	-		
Tetrachloroethene	111		-		70-130	-		
Trichloroethene	99		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200006
Report Date: 01/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG511601-5 QC Sample: L1200006-01 Client ID: VS-1-28						
Dichlorodifluoromethane	0.373	0.386	ppbV	3		25
Chloromethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Acetone	8.39	8.42	ppbV	0		25
Trichlorofluoromethane	0.227	0.238	ppbV	5		25
Ethyl ether	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	1.37	1.36	ppbV	1		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
2,2-Dichloropropane	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200006
Report Date: 01/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG511601-5 QC Sample: L1200006-01 Client ID: VS-1-28					
Isopropyl Ether	ND	ND	ppbV	NC	25
Ethyl-Tert-Butyl-Ether	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloropropene	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Tertiary-Amyl Methyl Ether	ND	ND	ppbV	NC	25
Dibromomethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	ND	ND	ppbV	NC	25
1,3-Dichloropropane	ND	ND	ppbV	NC	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200006
Report Date: 01/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG511601-5 QC Sample: L1200006-01 Client ID: VS-1-28					
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
1,2,3-Trichloropropane	ND	ND	ppbV	NC	25
Isopropylbenzene	ND	ND	ppbV	NC	25
Bromobenzene	ND	ND	ppbV	NC	25
o-Chlorotoluene	ND	ND	ppbV	NC	25
n-Propylbenzene	ND	ND	ppbV	NC	25
p-Chlorotoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
tert-Butylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200006
Report Date: 01/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG511601-5 QC Sample: L1200006-01 Client ID: VS-1-28					
sec-Butylbenzene	ND	ND	ppbV	NC	25
p-Isopropyltoluene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
n-Butylbenzene	ND	ND	ppbV	NC	25
1,2-Dibromo-3-chloropropane	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Naphthalene	ND	ND	ppbV	NC	25
1,2,3-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG511603-5 QC Sample: L1200006-01 Client ID: VS-1-28					
Benzene	0.213	0.219	ppbV	3	25
Chloroform	0.249	0.255	ppbV	2	25
Tetrachloroethene	0.081	0.083	ppbV	2	25
Trichloroethene	ND	ND	ppbV	NC	25

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200006

Project Number: 115058 **Report Date:** 01/16/12

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1200006-01	VS-1-28	0130	#20 SV		-	-	8.5	9.0	6
L1200006-01	VS-1-28	349	2.7L Can	L1120561	-29.0	0.22	-	-	-
L1200006-02	VS-4-28	0206	#20 SV		-	-	8.5	9.3	9
L1200006-02	VS-4-28	213	2.7L Can	L1120561	-30.0	-1.30	-	-	-
L1200006-03	VS-12-28	0352	#20 SV		-	-	9.0	12.0	29
L1200006-03	VS-12-28	382	2.7L Can	L1120561	-29.8	-6.41	-	-	-
L1200006-04	VS-8-28	0256	#20 AMB		-	-	8.6	8.7	1
L1200006-04	VS-8-28	188	2.7L Can	L1120561	-29.8	-3.4	-	-	-
L1200006-05	VS-8-28-DUP	0146	#16 AMB		-	-	8.7	8.8	1
L1200006-05	VS-8-28-DUP	407	2.7L Can	L1120561	-28.2	-0.5	-	-	-
L1200006-06	VS-BG-28	0290	#20 SV		-	-	9.0	9.7	7
L1200006-06	VS-BG-28	157	2.7L Can	L1120812	-29.9	1.9	-	-	-
L1200006-07	VS-TB-28	0250	#20 SV		-	-	9.0	9.0	0
L1200006-07	VS-TB-28	205	2.7L Can	L1120561	-28.3	-27.4	-	-	-

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120561

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID:	L1120561-01	Date Collected:	12/09/11 16:42
Client ID:	CAN 124 SHELF 3	Date Received:	12/10/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	12/10/11 12:06		
Analyst:	RY		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120561

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1120561-01 Date Collected: 12/09/11 16:42

Client ID: CAN 124 SHELF 3 Date Received: 12/10/11

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120561

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1120561-01 Date Collected: 12/09/11 16:42

Client ID: CAN 124 SHELF 3 Date Received: 12/10/11

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air (Low Level) - Mansfield Lab								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120561

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1120561-01 Date Collected: 12/09/11 16:42

Client ID: CAN 124 SHELF 3 Date Received: 12/10/11

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	86		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	83		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120561

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID:	L1120561-01	Date Collected:	12/09/11 16:42
Client ID:	CAN 124 SHELF 3	Date Received:	12/10/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	12/10/11 12:06		
Analyst:	RY		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120561

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1120561-01 Date Collected: 12/09/11 16:42

Client ID: CAN 124 SHELF 3 Date Received: 12/10/11

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120561

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1120561-01 Date Collected: 12/09/11 16:42

Client ID: CAN 124 SHELF 3 Date Received: 12/10/11

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120812

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID:	L1120812-01	Date Collected:	12/12/11 15:28
Client ID:	CAN 131 SHELF 2	Date Received:	12/13/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	12/14/11 17:50		
Analyst:	RY		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120812

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1120812-01 Date Collected: 12/12/11 15:28

Client ID: CAN 131 SHELF 2 Date Received: 12/13/11

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120812

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1120812-01 Date Collected: 12/12/11 15:28

Client ID: CAN 131 SHELF 2 Date Received: 12/13/11

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air (Low Level) - Mansfield Lab								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120812

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1120812-01 Date Collected: 12/12/11 15:28

Client ID: CAN 131 SHELF 2 Date Received: 12/13/11

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air (Low Level) - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	99		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120812

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID:	L1120812-01	Date Collected:	12/12/11 15:28
Client ID:	CAN 131 SHELF 2	Date Received:	12/13/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	12/14/11 17:50		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120812

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1120812-01 Date Collected: 12/12/11 15:28

Client ID: CAN 131 SHELF 2 Date Received: 12/13/11

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120812

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

Air Canister Certification Results

Lab ID: L1120812-01 Date Collected: 12/12/11 15:28

Client ID: CAN 131 SHELF 2 Date Received: 12/13/11

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	92		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120561

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

AIR CAN CERTIFICATION RESULTS

Lab ID:	L1120561-01	Date Collected:	12/09/11 16:42
Client ID:	CAN 124 SHELF 3	Date Received:	12/10/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	12/10/11 12:06		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1120812

Project Number: CANISTER QC BAT **Report Date:** 01/16/12

AIR CAN CERTIFICATION RESULTS

Lab ID:	L1120812-01	Date Collected:	12/12/11 15:28
Client ID:	CAN 131 SHELF 2	Date Received:	12/13/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	12/14/11 17:50		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: KEITH MIDDLE SCHOOL
Project Number: 115058

Lab Number: L1200006
Report Date: 01/16/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1200006-01A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)
L1200006-02A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)
L1200006-03A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)
L1200006-04A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)
L1200006-05A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)
L1200006-06A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)
L1200006-07A	Canister - 2.7 Liter	N/A	N/A		Y	Present/Intact	MCP-TO15-SIM(30),MCP-TO15(30)

*Values in parentheses indicate holding time in days

Project Name:	KEITH MIDDLE SCHOOL	**Lab Number:**	L1200006
Project Number:	115058	**Report Date:**	01/16/12

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	KEITH MIDDLE SCHOOL	**Lab Number:**	L1200006
Project Number:	115058	**Report Date:**	01/16/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L1200006
Project Number: 115058 **Report Date:** 01/16/12

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 3, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 245.7, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081B, 8082A, 8260B, 8270C, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, SM2320B, SM2540D, 2540G, EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020, 9050A. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 7474, 9040B, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A,7471B, 7474. Organic Parameters: EPA3050B, 3540C, 3630C, 8270C, 8081B, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID:460194. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters:EPA 3020A,6020A,245.7,9040B,SM4500H-B. Organic Parameters: EPA 3510C,3640A,3660B,3665A,8270C,8270D,8082A,8081B.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

L1200006

CHAIN OF CUSTODY RECORD

Project Name: Keith Middle School

Project No.: 115058

Sampling Date(s): 12/29/11

Laboratory: ALPHA

Laboratory P.O.: 39601

Shipping Date(s): 12/30/11

Shipper's Name: TRC

Box No.: 0

	Sample Code	Sampled Date	Container Size	Container G/P	MATRIX	Description	ANALYSIS	Vacuum Start	Vacuum End	Serial Numbers Can	Serial Numbers Flow
1	VS-1-28	12/29/11	2 L	SUMMA	air	Vent Stack Air	TO-15A VOCs	28.64	1.51	349	130
2	VS-4-28	12/29/11	2 L	SUMMA	air	Vent Stack Air	TO-15A VOCs	29.99	2.92	213	206
3	VS-12-28	12/29/11	2 L	SUMMA	air	Vent Stack Air	TO-15A VOCs	29.79	8.24	382	352
4	VS-8-28	12/29/11	2 L	SUMMA	air	Vent Stack Air	TO-15A VOCs	27.80	2.85	407	256
5	VS-8-28-DUP	12/29/11	2 L	SUMMA	air	Vent Stack Air	TO-15A VOCs	29.40	5.55	188	146
6	VS-BG-28	12/29/11	2 L	SUMMA	air	background	TO-15A VOCs	29.54	0.00	157	290
7	VS-TB-28	12/29/11	2 L	SUMMA	air	trip blank	TO-15A VOCs	n/a	n/a	205	250

Relinquished by:	**Date/Time:** 12/30 / 1050	**Relinquished by:**	
Received by:	**Date/Time:** 12-30-11 1630	**Received by:**	12/30/11 1630
Remarks (*):			

Rel: 12/30/11 00:30

12/30/12 T4r

1/3/12 0900

TRC

Alpha
Summary
Forms

Organic Summary Forms

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-01	Date Collected	: 12/29/11 00:00
Client ID	: VS-1-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 00:27
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218779	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.373	0.200	--	1.84	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	8.39	1.00	--	19.9	2.38	--	
75-69-4	Trichlorofluoromethane	0.227	0.200	--	1.28	1.12	--	
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.37	0.200	--	4.04	0.590	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-01	Date Collected	: 12/29/11 00:00
Client ID	: VS-1-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 00:27
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218779	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-01	Date Collected	: 12/29/11 00:00
Client ID	: VS-1-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 00:27
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218779	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-02	Date Collected	: 12/29/11 00:00
Client ID	: VS-4-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 01:39
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218781	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.316	0.200	--	1.56	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	11.1	1.00	--	26.4	2.38	--	
75-69-4	Trichlorofluoromethane	0.293	0.200	--	1.65	1.12	--	
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	2.70	0.200	--	7.96	0.590	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	0.262	0.200	--	0.773	0.590	--	
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-02	Date Collected	: 12/29/11 00:00
Client ID	: VS-4-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 01:39
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218781	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-02	Date Collected	: 12/29/11 00:00
Client ID	: VS-4-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 01:39
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218781	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-03	Date Collected	: 12/29/11 00:00
Client ID	: VS-12-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 02:15
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218782	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.370	0.200	--	1.83	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	2.93	1.00	--	6.96	2.38	--	
75-69-4	Trichlorofluoromethane	0.253	0.200	--	1.42	1.12	--	
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	0.608	0.200	--	2.19	0.721	--	
78-93-3	2-Butanone	0.372	0.200	--	1.10	0.590	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-03	Date Collected	: 12/29/11 00:00
Client ID	: VS-12-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 02:15
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218782	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-03	Date Collected	: 12/29/11 00:00
Client ID	: VS-12-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 02:15
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218782	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-04	Date Collected	: 12/29/11 00:00
Client ID	: VS-8-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 02:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218783	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.405	0.200	--	2.00	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	2.76	1.00	--	6.56	2.38	--	
75-69-4	Trichlorofluoromethane	0.339	0.200	--	1.90	1.12	--	
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.769	0.200	--	2.27	0.590	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	0.875	0.200	--	2.58	0.590	--	
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-04	Date Collected	: 12/29/11 00:00
Client ID	: VS-8-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 02:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218783	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.497	0.200	--	1.87	0.754	--	
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	2.61	0.200	--	11.3	0.869	--	
106-42-3/108-38-3	p/m-Xylene	0.468	0.400	--	2.03	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	1.24	0.200	--	5.28	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-04	Date Collected	: 12/29/11 00:00
Client ID	: VS-8-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 02:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218783	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-05	Date Collected	: 12/29/11 00:00
Client ID	: VS-8-28-DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 03:26
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218784	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.404	0.200	--	2.00	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	3.02	1.00	--	7.17	2.38	--	
75-69-4	Trichlorofluoromethane	0.362	0.200	--	2.03	1.12	--	
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.44	0.200	--	4.25	0.590	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	0.612	0.200	--	1.80	0.590	--	
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-05	Date Collected	: 12/29/11 00:00
Client ID	: VS-8-28-DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 03:26
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218784	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	0.206	0.200	--	0.844	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-05	Date Collected	: 12/29/11 00:00
Client ID	: VS-8-28-DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 03:26
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218784	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-06	Date Collected	: 12/29/11 00:00
Client ID	: VS-BG-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 04:02
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218785	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.488	0.200	--	2.41	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	1.30	1.00	--	3.09	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.200	--	ND	0.590	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-06	Date Collected	: 12/29/11 00:00
Client ID	: VS-BG-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 04:02
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218785	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-06	Date Collected	: 12/29/11 00:00
Client ID	: VS-BG-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 04:02
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218785	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-07	Date Collected	: 12/29/11 00:00
Client ID	: VS-TB-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 20:52
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218773	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.200	--	ND	0.590	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-07	Date Collected	: 12/29/11 00:00
Client ID	: VS-TB-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 20:52
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218773	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-07	Date Collected	: 12/29/11 00:00
Client ID	: VS-TB-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 20:52
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218773	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511601-4	Date Collected	: NA
Client ID	: WG511601-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 01/05/12 19:40
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218771	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.200	--	ND	0.590	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511601-4	Date Collected	: NA
Client ID	: WG511601-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 01/05/12 19:40
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218771	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511601-4	Date Collected	: NA
Client ID	: WG511601-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 01/05/12 19:40
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218771	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511601-5	Date Collected	: 12/29/11 00:00
Client ID	: VS-1-28DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 01:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218780	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.386	0.200	--	1.91	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
67-64-1	Acetone	8.42	1.00	--	20.0	2.38	--	
75-69-4	Trichlorofluoromethane	0.238	0.200	--	1.34	1.12	--	
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	1.40	--	ND	4.86	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.36	0.200	--	4.01	0.590	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
109-99-9	Tetrahydrofuran	ND	0.200	--	ND	0.590	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511601-5	Date Collected	: 12/29/11 00:00
Client ID	: VS-1-28DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 01:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218780	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
106-42-3/108-38-3	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511601-5	Date Collected	: 12/29/11 00:00
Client ID	: VS-1-28DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 01:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO-15	Analyst	: MB
Lab File ID	: R218780	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

3
LAB DUPLICATE
AIR VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1200006 Matrix: Air
Lab Sample ID : WG511601-5 Injected: 01/06/12 01:03 Lab File ID: R218780
Client Sample ID : VS-1-28

COMPOUND	SAMPLE CONCENTRATION (ppbV)	DUP CONCENTRATION (ppbV)	DUP % RPD	DUP RPD LIMIT
Dichlorodifluoromethane	0.373	0.386	3	25
Chloromethane	ND	ND	NC	25
Vinyl chloride	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Acetone	8.39	8.42	0	25
Trichlorofluoromethane	0.227	0.238	5	25
Ethyl ether	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
Methylene chloride	ND	ND	NC	25
Carbon disulfide	ND	ND	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
1,1-Dichloroethane	ND	ND	NC	25
Methyl tert butyl ether	ND	ND	NC	25
2-Butanone	1.37	1.36	1	25
cis-1,2-Dichloroethene	ND	ND	NC	25
Tetrahydrofuran	ND	ND	NC	25
2,2-Dichloropropane	ND	ND	NC	25
1,2-Dichloroethane	ND	ND	NC	25
Diisopropyl Ether	ND	ND	NC	25
tert-Butyl ethyl ether	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
1,1-Dichloropropene	ND	ND	NC	25
Carbon tetrachloride	ND	ND	NC	25
tert-amyl methyl ether	ND	ND	NC	25
Dibromomethane	ND	ND	NC	25
1,2-Dichloropropane	ND	ND	NC	25
Bromodichloromethane	ND	ND	NC	25
1,4-Dioxane	ND	ND	NC	25
cis-1,3-Dichloropropene	ND	ND	NC	25
4-Methyl-2-pentanone	ND	ND	NC	25
trans-1,3-Dichloropropen	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	ND	ND	NC	25
1,3-Dichloropropane	ND	ND	NC	25
2-Hexanone	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25
1,1,1,2-Tetrachloroethan	ND	ND	NC	25
Chlorobenzene	ND	ND	NC	25

* Values outside of QC limits.

COMMENTS: _____

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FORM III MCP-TO15

3
LAB DUPLICATE
AIR VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1200006 Matrix: Air
Lab Sample ID : WG511601-5 Injected: 01/06/12 01:03 Lab File ID: R218780
Client Sample ID : VS-1-28

COMPOUND	SAMPLE CONCENTRATION (ppbV)	DUP CONCENTRATION (ppbV)	DUP % RPD	DUP RPD LIMIT
Ethylbenzene	ND	ND	NC	25
p/m-Xylene	ND	ND	NC	25
Bromoform	ND	ND	NC	25
Styrene	ND	ND	NC	25
1,1,2,2-Tetrachloroethan	ND	ND	NC	25
o-Xylene	ND	ND	NC	25
1,2,3-Trichloropropane	ND	ND	NC	25
Isopropylbenzene	ND	ND	NC	25
Bromobenzene	ND	ND	NC	25
2-Chlorotoluene	ND	ND	NC	25
n-Propylbenzene	ND	ND	NC	25
4-Chlorotoluene	ND	ND	NC	25
1,3,5-Trimethybenzene	ND	ND	NC	25
tert-Butylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	ND	ND	NC	25
1,3-Dichlorobenzene	ND	ND	NC	25
1,4-Dichlorobenzene	ND	ND	NC	25
sec-Butylbenzene	ND	ND	NC	25
p-Isopropyltoluene	ND	ND	NC	25
1,2-Dichlorobenzene	ND	ND	NC	25
n-Butylbenzene	ND	ND	NC	25
1,2-Dibromo-3-chloroprop	ND	ND	NC	25
1,2,4-Trichlorobenzene	ND	ND	NC	25
Naphthalene	ND	ND	NC	25
1,2,3-Trichlorobenzene	ND	ND	NC	25
Hexachlorobutadiene	ND	ND	NC	25

* Values outside of QC limits.

COMMENTS: _____

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FORM III MCP-TO15

3

LAB CONTROL SAMPLE RECOVERY

AIR VOLATILE

Lab Name: Alpha Analytical Labs

SDG No.: L1200006 Matrix: Air

Lab Control Sample: WG511601-3LCS Injected: 01/05/12 17:06 Lab File ID: R218768

COMPOUND	SPIKE ADDED ppbV	SAMPLE CONC ppbV	LCS CONC ppbV	LCS % REC	LCSD CONC ppbV	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	10	NA	8.40	84	-	-	-		70-130
Chloromethane	10	NA	7.87	79	-	-	-		70-130
Vinyl chloride	10	NA	8.03	80	-	-	-		70-130
Bromomethane	10	NA	8.20	82	-	-	-		70-130
Chloroethane	10	NA	8.45	84	-	-	-		70-130
Acetone	10	NA	9.39	94	-	-	-		50-150
Trichlorofluoromethane	10	NA	8.29	83	-	-	-		70-130
Ethyl ether	10	NA	8.22	82	-	-	-		70-130
1,1-Dichloroethene	10	NA	8.27	83	-	-	-		70-130
Methylene chloride	10	NA	8.42	84	-	-	-		70-130
Carbon disulfide	10	NA	7.89	79	-	-	-		70-130
trans-1,2-Dichloroethene	10	NA	8.19	82	-	-	-		70-130
1,1-Dichloroethane	10	NA	7.81	78	-	-	-		70-130
Methyl tert butyl ether	10	NA	8.31	83	-	-	-		70-130
2-Butanone	10	NA	8.71	87	-	-	-		70-130
cis-1,2-Dichloroethene	10	NA	8.29	83	-	-	-		70-130
Tetrahydrofuran	10	NA	9.64	96	-	-	-		70-130
2,2-Dichloropropane	10	NA	8.36	84	-	-	-		70-130
1,2-Dichloroethane	10	NA	9.08	91	-	-	-		70-130
Diisopropyl Ether	10	NA	8.68	87	-	-	-		70-130
tert-Butyl ethyl ether	10	NA	8.78	88	-	-	-		70-130
1,1,1-Trichloroethane	10	NA	8.34	83	-	-	-		70-130
1,1-Dichloropropene	10	NA	8.19	82	-	-	-		70-130
Carbon tetrachloride	10	NA	8.26	83	-	-	-		70-130
tert-amyl methyl ether	10	NA	9.00	90	-	-	-		70-130
Dibromomethane	10	NA	8.03	80	-	-	-		70-130
1,2-Dichloropropane	10	NA	8.76	88	-	-	-		70-130
Bromodichloromethane	10	NA	8.31	83	-	-	-		70-130
1,4-Dioxane	10	NA	9.82	98	-	-	-		50-150
cis-1,3-Dichloropropene	10	NA	9.00	90	-	-	-		70-130
4-Methyl-2-pentanone	10	NA	9.56	96	-	-	-		70-130
trans-1,3-Dichloropropen	10	NA	7.66	77	-	-	-		70-130
1,1,2-Trichloroethane	10	NA	9.20	92	-	-	-		70-130
Toluene	10	NA	10.2	102	-	-	-		70-130
1,3-Dichloropropane	10	NA	9.78	98	-	-	-		70-130
2-Hexanone	10	NA	10.9	109	-	-	-		70-130
Dibromochloromethane	10	NA	10.6	106	-	-	-		70-130
1,2-Dibromoethane	10	NA	10.5	105	-	-	-		70-130
1,1,1,2-Tetrachloroethan	10	NA	10.1	101	-	-	-		70-130
Chlorobenzene	10	NA	10.7	107	-	-	-		70-130

* Values outside of QC limits.

COMMENTS: _____

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FORM III MCP-TO15

3
LAB CONTROL SAMPLE RECOVERY
AIR VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1200006 Matrix: Air
Lab Control Sample: WG511601-3LCS Injected: 01/05/12 17:06 Lab File ID: R218768

COMPOUND	SPIKE ADDED ppbV	SAMPLE CONC ppbV	LCS CONC ppbV	LCS % REC	LCSD CONC ppbV	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC.
Ethylbenzene	10	NA	11.1	111	-	-	-		70-130
p/m-Xylene	20	NA	22.1	110	-	-	-		70-130
Bromoform	10	NA	10.5	105	-	-	-		70-130
Styrene	10	NA	11.3	113	-	-	-		70-130
1,1,2,2-Tetrachloroethan	10	NA	11.8	118	-	-	-		70-130
o-Xylene	10	NA	11.9	119	-	-	-		70-130
1,2,3-Trichloropropane	10	NA	11.3	113	-	-	-		70-130
Isopropylbenzene	10	NA	11.2	112	-	-	-		70-130
Bromobenzene	10	NA	9.96	100	-	-	-		70-130
2-Chlorotoluene	10	NA	10.9	109	-	-	-		70-130
n-Propylbenzene	10	NA	11.6	116	-	-	-		70-130
4-Chlorotoluene	10	NA	11.0	110	-	-	-		70-130
1,3,5-Trimethybenzene	10	NA	12.3	123	-	-	-		70-130
tert-Butylbenzene	10	NA	12.3	123	-	-	-		70-130
1,2,4-Trimethylbenzene	10	NA	13.0	130	-	-	-		70-130
1,3-Dichlorobenzene	10	NA	12.3	123	-	-	-		70-130
1,4-Dichlorobenzene	10	NA	12.2	122	-	-	-		70-130
sec-Butylbenzene	10	NA	12.2	122	-	-	-		70-130
p-Isopropyltoluene	10	NA	12.1	121	-	-	-		70-130
1,2-Dichlorobenzene	10	NA	12.6	126	-	-	-		70-130
n-Butylbenzene	10	NA	13.1	131 *	-	-	-		70-130
1,2-Dibromo-3-chloroprop	10	NA	12.8	128	-	-	-		70-130
1,2,4-Trichlorobenzene	10	NA	14.8	148	-	-	-		50-150
Naphthalene	10	NA	13.1	131	-	-	-		50-150
1,2,3-Trichlorobenzene	10	NA	14.7	147 *	-	-	-		70-130
Hexachlorobutadiene	10	NA	14.8	148	-	-	-		50-150

* Values outside of QC limits.

COMMENTS: _____

_____

FORM III MCP-TO15

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

WG511601-4BLANK

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Lab File ID: R218771 Lab Sample ID: WG511601-4

Date Analyzed: 01/05/12 Time Analyzed: 19:40

Instrument ID: AIRPIANO2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	WG511601-3LCS	WG511601-3	R218768	01/05/12 17:06
02	VS-TB-28	L1200006-07	R218773	01/05/12 20:52
03	VS-1-28	L1200006-01	R218779	01/06/12 00:27
04	VS-1-28DUP	WG511601-5	R218780	01/06/12 01:03
05	VS-4-28	L1200006-02	R218781	01/06/12 01:39
06	VS-12-28	L1200006-03	R218782	01/06/12 02:15
07	VS-8-28	L1200006-04	R218783	01/06/12 02:51
08	VS-8-28-DUP	L1200006-05	R218784	01/06/12 03:26
09	VS-BG-28	L1200006-06	R218785	01/06/12 04:02

COMMENTS: _____

page 1 of 1

FORM IV MCP-TO15 LOW

5A
VOLATILE INSTRUMENT PERFORMANCE CHECK
BROMOFLOUROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Lab File ID: R218555_tune BFB Injection Date: 12/21/11

Instrument ID: AIRPIANO2 BFB Injection Time: 16:06

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	8.0 - 40.0% of mass 95	20.9
75	30.0 - 66.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (.6)1
174	50.0 - 120.0% of mass 95	102.5
175	4.0 - 9.0% of mass 174	7.5 (7.3)1
176	93.0 - 101% of mass 174	99.4 (97)1
177	5.0 - 9.0% of mass 176	6.6 (6.7)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0.2	0.2	R218559	12/21/11	18:32
02	0.5	0.5	R218560	12/21/11	19:09
03	1.0	1.0	R218561	12/21/11	19:47
04	2.5	2.5	R218562	12/21/11	20:23
05	5.0	5.0	R218563	12/21/11	21:01
06	10	10	R218564	12/21/11	21:37
07	50.0	50.0	R218566	12/21/11	22:51
08	100.0	100.0	R218567	12/21/11	23:27
09	ICV QUANT REPORT	ICV QUANT REPO	R218570	12/22/11	01:19

page 1 of 1

FORM V MCP-TO15

5A
VOLATILE INSTRUMENT PERFORMANCE CHECK
BROMOFLOUROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Lab File ID: R218767_tune BFB Injection Date: 01/05/12

Instrument ID: AIRPIANO2 BFB Injection Time: 16:30

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	8.0 - 40.0% of mass 95	18.2
75	30.0 - 66.0% of mass 95	47.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.9 (.8)1
174	50.0 - 120.0% of mass 95	108.9
175	4.0 - 9.0% of mass 174	8 (7.4)1
176	93.0 - 101% of mass 174	106.7 (98)1
177	5.0 - 9.0% of mass 176	7 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCAL	WG511601-2	R218768	01/05/12	17:06
02	WG511601-3LCS	WG511601-3	R218768	01/05/12	17:06
03	WG511601-4BLANK	WG511601-4	R218771	01/05/12	19:40
04	VS-TB-28	L1200006-07	R218773	01/05/12	20:52
05	VS-1-28	L1200006-01	R218779	01/06/12	00:27
06	VS-1-28DUP	WG511601-5	R218780	01/06/12	01:03
07	VS-4-28	L1200006-02	R218781	01/06/12	01:39
08	VS-12-28	L1200006-03	R218782	01/06/12	02:15
09	VS-8-28	L1200006-04	R218783	01/06/12	02:51
10	VS-8-28-DUP	L1200006-05	R218784	01/06/12	03:26
11	VS-BG-28	L1200006-06	R218785	01/06/12	04:02

page 1 of 1

FORM V MCP-TO15

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Instrument ID: AIRPIANO2 Calibration Date(s): 12/21/11 12/21/11

Calibration Times: 18:32 23:27

Calibration Files
0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D 2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D
50 =R218566.D 100 =R218567.D

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	1.130	1.412	1.317	1.193	1.407	1.414	1.436	1.423	1.341	8.79
3)		propylene	0.536	0.622	0.537	0.510	0.512	0.563	0.566	0.550	0.549	6.50
4)		propane	0.686	0.694	0.639	0.559	0.570	0.612	0.616	0.587	0.620	8.08
5)		dichlorodifluoromethane	2.321	2.554	2.427	2.289	2.433	2.586	2.605	2.526	2.467	4.85
6)	C	chloromethane	0.746	0.833	0.756	0.688	0.773	0.805	0.782	0.750	0.767	5.65
7)		Freon-114	2.394	2.735	2.589	2.390	2.678	2.680	2.706	2.653	2.603	5.26
8)	C	methanol			0.677	0.620	0.738	0.660	0.506	0.535	0.623	14.16
9)	C	vinyl chloride	0.802	0.928	0.851	0.798	0.867	0.929	0.906	0.879	0.870	5.90
10)	C	1,3-butadiene	0.566	0.640	0.578	0.532	0.610	0.625	0.617	0.610	0.597	5.94
11)		butane	1.368	1.374	1.451	1.463	1.438	1.496	1.469	1.392	1.431	3.34
12)	C	acetaldehyde	0.294	0.233	0.227	0.192	0.223	0.232	0.180	0.182	0.220	16.94
13)	C	bromomethane	0.884	0.951	0.909	0.806	0.911	0.929	0.882	0.861	0.891	5.02
14)	C	chloroethane	0.372	0.418	0.392	0.352	0.408	0.405	0.387	0.378	0.389	5.53
15)		ethanol	0.517	0.490	0.501	0.480	0.543	0.518	0.379	0.430	0.482	11.10
16)		dichlorofluoromethane	2.123	2.332	2.271	1.973	2.370	2.287	2.073	2.095	2.191	6.52
17)	C	vinyl bromide	0.719	0.925	0.862	0.771	0.909	0.920	0.844	0.848	0.850	8.63
18)	C	acrolein	0.249	0.303	0.272	0.201	0.294	0.294	0.242	0.265	0.265	12.81
19)		acetone		1.344	1.181	0.924	1.144	1.089	0.710	0.840	1.033	21.21
20)	C	acetonitrile		0.923	1.012	0.561	0.756	0.680	0.478	0.547	0.708	28.39
21)		trichlorofluoromethane	2.500	2.697	2.579	2.348	2.673	2.633	2.432	2.372	2.529	5.39
22)		isopropyl alcohol		1.273	1.330	1.041	1.187	1.179	0.960	1.032	1.143	11.92
23)	C	acrylonitrile	0.579	0.502	0.526	0.448	0.574	0.573	0.431	0.485	0.515	11.31
24)		pentane	1.518	1.511	1.604	1.337	1.522	1.497	1.465	1.444	1.487	5.17
25)		ethyl ether	0.847	0.859	0.863	0.756	1.027	0.984	0.781	0.796	0.864	11.13
26)	C	1,1-dichloroethene	1.346	1.489	1.503	1.301	1.501	1.460	1.313	1.308	1.403	6.65
27)		tertiary butyl alcohol	1.564	1.500	1.560	1.418	1.591	1.612	1.339	1.455	1.505	6.30
28)	C	methylene chloride		1.297	1.104	0.973	1.079	1.051	0.905	0.912	1.046	12.98
29)	C	3-chloropropene	1.154	1.200	1.185	0.987	1.148	1.129	0.997	1.016	1.102	7.94
30)	C	carbon disulfide	2.179	2.553	2.364	2.366	2.557	2.664	2.439	2.449	2.447	6.10
31)		Freon 113	1.750	2.033	1.983	1.683	1.994	1.968	1.806	1.803	1.877	7.03
32)		trans-1,2-dichloroethene	1.576	1.800	1.760	1.596	1.811	1.795	1.571	1.640	1.694	6.35
33)	C	1,1-dichloroethane	1.473	1.562	1.567	1.406	1.612	1.644	1.414	1.451	1.516	6.06
34)	C	MTBE	1.747	1.750	1.873	1.647	2.058	2.051	1.423	1.675	1.778	11.99
35)	C	vinyl acetate	1.394	1.152	1.292	1.044	1.559	1.478	1.068	1.249	1.280	14.72
36)	C	2-butanone	1.479	1.333	1.411	1.172	1.495	1.413	0.895	1.089	1.286	16.62
37)		cis-1,2-dichloroethene	1.142	0.979	1.088	0.875	1.274	1.280	0.934	1.008	1.073	14.09
38)		Ethyl Acetate	0.095	0.125	0.152	0.135	0.195	0.184	0.131	0.175	0.149	22.74
39)	C	chloroform	1.347	1.677	1.511	1.400	1.621	1.686	1.551	1.691	1.560	8.52
40)		Tetrahydrofuran	0.777	0.651	0.645	0.534	0.706	0.673	0.472	0.688	0.643	15.11
41)		2,2-dichloropropane	1.263	1.433	1.395	1.295	1.496	1.567	1.449	1.594	1.437	8.22
42)	C	1,2-dichloroethane	0.969	1.022	1.022	0.941	1.103	1.119	0.999	1.075	1.031	6.14
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.386	0.369	0.374	0.314	0.363	0.369	0.355	0.426	0.369	8.46
45)		diisopropyl ether	0.177	0.140	0.169	0.144	0.169	0.172	0.131	0.184	0.161	12.23
46)		tert-butyl ethyl ether	0.648	0.543	0.644	0.551	0.670	0.667	0.468	0.632	0.603	12.19
47)	s	1,2-dichloroethane-D4	0.452	0.406	0.468	0.522	0.376	0.346	0.374	0.339	0.410	15.74

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Instrument ID: AIRPIANO2 Calibration Date(s): 12/21/11 12/21/11

Calibration Times: 18:32 23:27

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
48)	C	1,1,1-trichloroethane	0.563	0.577	0.566	0.490	0.553	0.570	0.520	0.611	0.556	6.61
49)		1,1-dichloropropene	0.409	0.427	0.405	0.361	0.409	0.412	0.374	0.439	0.405	6.33
50)	C	benzene	0.796	0.728	0.724	0.626	0.711	0.735	0.660	0.776	0.720	7.74
51)		thiophene	0.450	0.424	0.397	0.377	0.421	0.443	0.395	0.474	0.423	7.66
52)	C	carbon tetrachloride	0.628	0.609	0.597	0.525	0.606	0.624	0.606	0.718	0.614	8.59
53)		cyclohexane	0.409	0.403	0.396	0.336	0.377	0.375	0.346	0.404	0.381	7.23
54)		tert-amyl methyl ether	0.572	0.525	0.580	0.497	0.602	0.612	0.440	0.599	0.553	10.94
55)		dibromomethane	0.381	0.340	0.348	0.311	0.356	0.359	0.327	0.395	0.352	7.78
56)	C	1,2-dichloropropane	0.263	0.254	0.250	0.214	0.247	0.269	0.243	0.299	0.255	9.50
57)		bromodichloromethane	0.565	0.540	0.540	0.488	0.551	0.590	0.548	0.672	0.562	9.42
58)	C	1,4-dioxane	0.124	0.150	0.133	0.119	0.146	0.146	0.113	0.150	0.135	11.02
59)	C	trichloroethene	0.368	0.382	0.381	0.325	0.367	0.382	0.369	0.440	0.377	8.33
60)	C	2,2,4-trimethylpentane	1.248	1.199	1.191	1.021	1.168	1.221	1.130	1.353	1.191	8.00
61)		heptane	0.502	0.452	0.441	0.380	0.425	0.444	0.401	0.476	0.440	8.86
62)		2,4,4-trimethyl-1-pentene	0.612	0.529	0.560	0.510	0.575	0.616	0.533	0.623	0.570	7.73
63)	C	cis-1,3-dichloropropene	0.339	0.321	0.354	0.301	0.368	0.393	0.373	0.464	0.364	13.71
64)	C	4-methyl-2-pentanone	0.519	0.436	0.476	0.409	0.469	0.482	0.369	0.469	0.454	10.38
65)		2,4,4-trimethyl-2-pentene	0.420	0.379	0.330	0.328	0.347	0.377	0.331	0.402	0.364	9.78
66)		trans-1,3-dichloropropene	0.339	0.302	0.335	0.282	0.358	0.378	0.352	0.463	0.351	15.55
67)	C	1,1,2-trichloroethane	0.322	0.256	0.279	0.241	0.280	0.292	0.265	0.335	0.284	11.31
68)	I	chlorobenzene-D5	----------ISTD----------									
69)	C	toluene	4.280	3.875	3.981	3.338	4.019	4.501	3.929	4.434	4.045	9.16
70)	s	toluene-D8	5.001	4.725	5.396	5.873	4.325	4.081	4.676	4.133	4.776	13.12
71)		2-methylthiophene	2.563	2.376	2.576	2.560	2.941	3.343	2.844	3.091	2.787	11.69
72)		1,3-dichloropropane	1.772	1.632	1.730	1.508	1.867	2.135	1.819	2.068	1.816	11.51
73)		2-hexanone	2.172	1.913	2.109	1.816	2.087	2.221	1.684	1.933	1.992	9.35
74)		3-methylthiophene	2.621	2.413	2.638	2.360	2.851	3.156	2.727	3.051	2.727	10.35
75)		dibromochloromethane	2.272	2.243	2.397	2.149	2.729	3.025	2.753	3.123	2.586	14.41
76)	C	1,2-dibromoethane	2.021	2.026	2.136	1.792	2.175	2.371	2.172	2.459	2.144	9.74
77)		butyl acetate	0.327	0.283	0.318	0.293	0.377	0.394	0.287	0.347	0.328	12.68
78)		octane	1.119	1.112	1.126	1.050	1.221	1.334	1.235	1.369	1.196	9.50
79)	C	tetrachloroethene	2.490	2.502	2.297	2.137	2.407	2.641	2.461	2.664	2.450	7.06
80)		1,1,1,2-tetrachloroethane	1.731	1.819	1.864	1.688	2.054	2.197	2.051	2.246	1.956	10.77
81)	C	chlorobenzene	3.118	3.092	3.099	2.668	3.217	3.570	3.346	3.793	3.238	10.51
82)	C	ethylbenzene	4.504	3.833	4.391	3.712	4.956	5.233	4.373	5.206	4.526	12.75
83)		2-ethylthiophene	2.710	2.559	2.840	2.489	3.187	3.527	2.908	3.431	2.957	13.14
84)	C	m+p-xylene	3.398	2.987	3.422	2.903	3.923	4.141	3.485	4.235	3.562	13.97
85)	C	bromoform	1.981	2.196	2.350	2.159	2.834	3.416	3.418	3.661	2.752	24.32
86)	C	styrene	2.333	2.103	2.512	2.092	2.862	3.104	2.659	3.200	2.608	16.33
87)	C	1,1,2,2-tetrachloroethane	2.181	2.167	2.465	2.192	2.948	3.129	2.605	3.019	2.588	15.47
88)	C	o-xylene	3.458	3.050	3.588	2.935	4.448	4.729	3.664	4.619	3.811	18.40
89)		1,2,3-trichloropropane	2.000	1.995	2.180	1.923	2.551	2.603	2.056	2.503	2.226	12.62
90)		nonane	2.581	2.365	2.611	2.340	2.955	3.320	2.886	3.078	2.767	12.63
91)	s	bromofluorobenzene	3.654	3.531	4.114	4.335	3.394	3.022	3.763	3.404	3.652	11.48
92)	C	isopropylbenzene	4.909	4.422	4.942	4.289	5.811	5.997	4.977	6.015	5.170	13.29
93)		bromobenzene	2.591	2.357	2.642	2.422	3.067	3.338	2.761	2.779	2.745	11.89
94)		2-chlorotoluene	1.343	1.293	1.329	1.241	1.650	1.763	1.607	1.874	1.513	15.91

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Instrument ID: AIRPIANO2 Calibration Date(s): 12/21/11 12/21/11

Calibration Times: 18:32 23:27

		Compound	0.2	0.5	1.0	2.5	5.0	10	50	100	Avg	%RSD
95)		n-propylbenzene	1.157	1.081	1.218	1.151	1.620	1.701	1.504	1.872	1.413	21.20
96)		4-chlorotoluene	3.505	3.172	3.407	3.143	4.262	4.612	4.053	4.880	3.879	17.21
97)		4-ethyl toluene	3.930	3.745	4.298	3.941	5.593	5.748	4.847	6.095	4.775	19.49
98)		1,3,5-trimethylbenzene	3.403	3.105	3.515	3.247	4.584	4.638	3.931	4.988	3.926	18.37
99)		tert-butylbenzene	3.628	3.302	3.898	3.608	5.116	5.442	4.690	5.270	4.369	19.56
100)		1,2,4-trimethylbenzene	3.057	2.724	3.252	3.087	4.410	4.758	4.122	4.726	3.767	21.89
101)		decane	1.888	1.672	2.147	2.006	2.908	3.132	2.750	3.312	2.477	25.13
102)	C	Benzyl Chloride	1.966	1.831	2.278	2.158	3.293	3.700	3.395		2.660	29.08
103)		1,3-dichlorobenzene	2.567	2.399	2.714	2.391	3.316	3.720	3.452	4.172	3.091	21.63
104)	C	1,4-dichlorobenzene	2.552	2.419	2.700	2.337	3.301	3.665	3.520	4.163	3.082	21.83
105)		sec-butylbenzene	4.735	4.460	5.306	4.922	7.057	7.422	6.282	7.504	5.961	21.11
106)		1,2,3-trimethylbenzene	2.101	1.933	2.309	2.251	3.211	3.322	2.748	3.457	2.667	22.48
107)		p-isopropyltoluene	3.828	3.447	4.317	4.216	6.019	6.364	5.487	6.494	5.021	24.07
108)		1,2-dichlorobenzene	2.357	2.240	2.501	2.245	3.193	3.452	3.117	3.808	2.864	21.15
109)		n-butylbenzene	3.101	2.952	3.739	3.685	5.437	5.661	4.701	6.559	4.479	29.35
110)		indan	2.267	2.184	2.411	2.245	3.183	3.409	2.823	3.580	2.763	20.47
111)		indene	1.646	1.754	2.061	1.891	2.779	2.902	2.497	3.191	2.340	24.83
112)	C	1,2-dibromo-3-chloropropane	0.780	0.692	0.880	0.877	1.272	1.410	1.238	1.536	1.085	29.14
113)		undecane	1.507	1.493	1.847	1.775	2.741	2.903	2.623	3.344	2.279	31.07#
114)		1,2,4,5-tetramethylbenzene	0.881	0.919	1.136	1.305	1.833	1.704	1.468	1.875	1.390	28.38
115)		dodecane	1.196	1.297	1.542	1.498	1.979	2.487	2.461	3.036	1.937	34.33#
116)	C	1,2,4-trichlorobenzene	1.431	1.539	1.758	1.616	2.334	2.814	2.930		2.060	30.42#
117)		naphthalene	3.486	3.097	3.485	3.400	4.924	5.717	5.433	7.024	4.571	31.05#
118)		1,2,3-trichlorobenzene	1.405	1.526	1.689	1.723	2.407	2.834	2.817	3.591	2.249	34.91#
119)		benzothiophene	1.173	1.251	1.548	1.181	1.663	2.172	2.545	3.417	1.869	42.56#
120)	C	hexachlorobutadiene	1.653	1.637	1.967	1.863	2.690	3.082	3.157		2.293	29.02
121)		2-methylnaphthalene		0.641	0.699	0.881	1.101	0.813	1.284	1.821	1.034	39.98#
122)		1-methylnaphthalene		1.199	1.221	1.221	1.452	1.229	2.174	2.962	1.637	41.61#

FORM VI-MCP-TO15

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Instrument ID: AIRPIANO2 Calibration Date: 01/05/2012 Time: 17:06

Lab File ID: R218768 Init. Calib. Date(s): 12/21/11 12/21/11

Sample No: WG511601-2,3,25 Init. Calib. Times : 18:32 23:27

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	85	0.00
5		dichlorodifluoromethane	2.467	2.073	16.0	68	-0.01
6	C	chloromethane	0.767	0.603	21.4	64	-0.02
9	C	vinyl chloride	0.870	0.698	19.8	64	-0.02
13	C	bromomethane	0.891	0.731	18.0	67	-0.01
14	C	chloroethane	0.389	0.329	15.4	69	-0.01
19		acetone	1.033	0.970	6.1	76	-0.01
21		trichlorofluoromethane	2.529	2.096	17.1	68	0.00
25		ethyl ether	0.864	0.710	17.8	62	-0.01
26	C	1,1-dichloroethene	1.403	1.160	17.3	68	0.00
28	C	methylene chloride	1.046	0.881	15.8	72	-0.01
30	C	carbon disulfide	2.447	1.931	21.1	62	0.00
32		trans-1,2-dichloroethene	1.694	1.387	18.1	66	-0.01
33	C	1,1-dichloroethane	1.516	1.185	21.8	62	0.00
34	C	MTBE	1.778	1.477	16.9	61	0.00
36	C	2-butanone	1.286	1.119	13.0	68	0.00
37		cis-1,2-dichloroethene	1.073	0.889	17.1	59#	0.00
40		Tetrahydrofuran	0.643	0.620	3.6	79	0.00
41		2,2-dichloropropane	1.437	1.200	16.5	65	0.00
42	C	1,2-dichloroethane	1.031	0.936	9.2	71	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	91	0.00
45		diisopropyl ether	0.161	0.139	13.7	74	0.00
46		tert-butyl ethyl ether	0.603	0.529	12.3	72	0.00
48	C	1,1,1-trichloroethane	0.556	0.464	16.5	74	0.00
49		1,1-dichloropropene	0.405	0.331	18.3	73	0.00
52	C	carbon tetrachloride	0.614	0.507	17.4	74	0.00
54		tert-amyl methyl ether	0.553	0.498	9.9	74	0.00
55		dibromomethane	0.352	0.283	19.6	72	0.00
56	C	1,2-dichloropropane	0.255	0.223	12.5	76	0.00
57		bromodichloromethane	0.562	0.467	16.9	72	0.00
58	C	1,4-dioxane	0.135	0.133	1.5	83	0.00
63	C	cis-1,3-dichloropropene	0.364	0.328	9.9	76	0.00
64	C	4-methyl-2-pentanone	0.454	0.434	4.4	82	0.00
66		trans-1,3-dichloropropene	0.351	0.269	23.4	65	0.00
67	C	1,1,2-trichloroethane	0.284	0.261	8.1	82	0.00
68	I	chlorobenzene-D5	1.000	1.000	0.0	81	0.00
69	C	toluene	4.045	4.132	-2.2	74	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2012\120105T\
Data File : R218768.D
Acq On : 5 Jan 2012 17:06
Operator : AIRPIANO2:ry
Sample : WG511601-2,3,250,250
Misc : WG511601,ICAL6480
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 05 17:35:12 2012
Quant Method : O:\Forensics\Data\AIR2\2012\120105T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
72	1,3-dichloropropane	1.816	1.777	2.1	67	0.00
73	2-hexanone	1.992	2.175	-9.2	79	0.00
75	dibromochloromethane	2.586	2.741	-6.0	73	0.00
76 C	1,2-dibromoethane	2.144	2.249	-4.9	77	0.00
80	1,1,1,2-tetrachloroethane	1.956	1.970	-0.7	73	0.00
81 C	chlorobenzene	3.238	3.454	-6.7	78	0.00
82 C	ethylbenzene	4.526	5.018	-10.9	78	0.00
84 C	m+p-xylene	3.562	3.932	-10.4	77	0.00
85 C	bromoform	2.752	2.895	-5.2	69	0.00
86 C	styrene	2.608	2.957	-13.4	77	0.00
87 C	1,1,2,2-tetrachloroethane	2.588	3.045	-17.7	79	0.00
88 C	o-xylene	3.811	4.552	-19.4	78	0.00
89	1,2,3-trichloropropane	2.226	2.510	-12.8	78	0.00
92 C	isopropylbenzene	5.170	5.806	-12.3	79	0.00
93	bromobenzene	2.745	2.733	0.4	66	0.00
94	2-chlorotoluene	1.513	1.655	-9.4	76	0.00
95	n-propylbenzene	1.413	1.643	-16.3	78	0.00
96	4-chlorotoluene	3.879	4.255	-9.7	75	0.00
98	1,3,5-trimethylbenzene	3.926	4.822	-22.8	84	0.00
99	tert-butylbenzene	4.369	5.363	-22.8	80	-0.01
100	1,2,4-trimethylbenzene	3.767	4.888	-29.8	83	-0.01
103	1,3-dichlorobenzene	3.091	3.806	-23.1	83	-0.02
104 C	1,4-dichlorobenzene	3.082	3.768	-22.3	83	-0.02
105	sec-butylbenzene	5.961	7.274	-22.0	79	-0.02
107	p-isopropyltoluene	5.021	6.090	-21.3	78	-0.02
108	1,2-dichlorobenzene	2.864	3.616	-26.3	85	-0.02
109	n-butylbenzene	4.479	5.862	-30.9#	84	-0.02
112 C	1,2-dibromo-3-chloropropane	1.085	1.390	-28.1	80	-0.03
116 C	1,2,4-trichlorobenzene	2.060	3.047	-47.9#	88	-0.03
117	naphthalene	4.571	5.969	-30.6#	85	-0.03
118	1,2,3-trichlorobenzene	2.249	3.307	-47.0#	95	-0.03
120 C	hexachlorobutadiene	2.293	3.388	-47.8#	89	-0.04

* Evaluation of CC level amount vs concentration.

FORM VII MCP-TO15

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Instrument ID: AIRPIANO2 Calibration Date: 12/22/2011 Time: 01:19

Lab File ID: R218570 Init. Calib. Date(s): 12/21/11 12/21/11

Sample No: CTO15-LLSTD10 Init. Calib. Times : 18:32 23:27

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	89	0.00
2		chlorodifluoromethane	1.341	1.349	-0.6	85	0.00
3		propylene	0.549	0.593	-8.0	94	0.00
4		propane	0.620	0.579	6.6	84	0.00
5		dichlorodifluoromethane	2.467	2.645	-7.2	91	0.00
6	C	chloromethane	0.767	0.810	-5.6	89	0.00
7		Freon-114	2.603	2.861	-9.9	95	0.00
8	C	methanol	0.623	0.235	62.3#	32#	0.00
9	C	vinyl chloride	0.870	0.950	-9.2	91	0.00
10	C	1,3-butadiene	0.597	0.658	-10.2	94	0.00
11		butane	1.431	1.490	-4.1	89	0.00
13	C	bromomethane	0.891	0.966	-8.4	92	0.00
14	C	chloroethane	0.389	0.417	-7.2	92	0.00
15		ethanol	0.482	0.480	0.4	82	0.00
16		dichlorofluoromethane	2.191	2.203	-0.5	86	0.00
17	C	vinyl bromide	0.850	0.990	-16.5	96	0.00
18	C	acrolein	0.265	0.255	3.8	77	0.00
19		acetone	1.033	0.994	3.8	81	0.00
20	C	acetonitrile	0.708	0.563	20.5	74	0.00
21		trichlorofluoromethane	2.529	2.869	-13.4	97	0.00
22		isopropyl alcohol	1.143	0.970	15.1	73	0.00
23	C	acrylonitrile	0.515	0.491	4.7	76	0.00
24		pentane	1.487	1.516	-2.0	90	0.00
25		ethyl ether	0.864	0.817	5.4	74	0.00
26	C	1,1-dichloroethene	1.403	1.615	-15.1	98	0.00
27		tertiary butyl alcohol	1.505	1.607	-6.8	89	0.00
28	C	methylene chloride	1.046	1.103	-5.4	93	0.00
29	C	3-chloropropene	1.102	1.042	5.4	82	0.00
30	C	carbon disulfide	2.447	1.797	26.6	60#	0.00
31		Freon 113	1.877	2.121	-13.0	96	0.00
32		trans-1,2-dichloroethene	1.694	1.522	10.2	75	0.00
33	C	1,1-dichloroethane	1.516	1.595	-5.2	86	0.00
34	C	MTBE	1.778	1.902	-7.0	82	0.00
35	C	vinyl acetate	1.280	1.353	-5.7	81	0.00
36	C	2-butanone	1.286	1.130	12.1	71	0.00
37		cis-1,2-dichloroethene	1.073	1.064	0.8	74	0.00
38		Ethyl Acetate	0.149	0.178	-19.5	86	0.00
39	C	chloroform	1.560	1.700	-9.0	90	0.00
40		Tetrahydrofuran	0.643	0.631	1.9	83	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	1.437	1.437	0.0	81	0.00
42	C	1,2-dichloroethane	1.031	1.098	-6.5	87	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.00
44	C	hexane	0.369	0.381	-3.3	90	0.00
45		diisopropyl ether	0.161	0.160	0.6	81	0.00
46		tert-butyl ethyl ether	0.603	0.608	-0.8	80	0.00
47	s	1,2-dichloroethane-D4	0.410	0.359	12.4	90	0.00
48	C	1,1,1-trichloroethane	0.556	0.610	-9.7	93	0.00
49		1,1-dichloropropene	0.405	0.432	-6.7	92	0.00
50	C	benzene	0.720	0.712	1.1	85	0.00
52	C	carbon tetrachloride	0.614	0.688	-12.1	96	0.00
53		cyclohexane	0.381	0.412	-8.1	96	0.00
54		tert-amyl methyl ether	0.553	0.577	-4.3	82	0.00
55		dibromomethane	0.352	0.354	-0.6	86	0.00
56	C	1,2-dichloropropane	0.255	0.258	-1.2	84	0.00
57		bromodichloromethane	0.562	0.598	-6.4	88	0.00
58	C	1,4-dioxane	0.135	0.150	-11.1	90	0.00
59	C	trichloroethene	0.377	0.408	-8.2	93	0.00
60	C	2,2,4-trimethylpentane	1.191	1.269	-6.5	91	0.00
61		heptane	0.440	0.456	-3.6	90	0.00
62		2,4,4-trimethyl-1-pentene	0.570	0.641	-12.5	91	0.00
63	C	cis-1,3-dichloropropene	0.364	0.406	-11.5	90	0.00
64	C	4-methyl-2-pentanone	0.454	0.506	-11.5	92	0.00
65		2,4,4-trimethyl-2-pentene	0.364	0.385	-5.8	89	0.00
66		trans-1,3-dichloropropene	0.351	0.337	4.0	78	0.00
67	C	1,1,2-trichloroethane	0.284	0.301	-6.0	90	0.00
68	I	chlorobenzene-D5	1.000	1.000	0.0	94	0.00
69	C	toluene	4.045	3.937	2.7	83	0.00
70	s	toluene-D8	4.776	4.164	12.8	96	0.00
72		1,3-dichloropropane	1.816	1.656	8.8	73	0.00
73		2-hexanone	1.992	1.971	1.1	84	0.00
75		dibromochloromethane	2.586	2.685	-3.8	84	0.00
76	C	1,2-dibromoethane	2.144	2.182	-1.8	87	0.00
77		butyl acetate	0.328	0.345	-5.2	83	0.00
78		octane	1.196	1.172	2.0	83	0.00
79	C	tetrachloroethene	2.450	2.524	-3.0	90	0.00
80		1,1,1,2-tetrachloroethane	1.956	1.900	2.9	82	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221T\
Data File : R218570.D
Acq On : 22 Dec 2011 1:19 am
Operator : AIRPIANO2:RY
Sample : CTO15-LLSTD10
Misc : wg509913
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 09:14:17 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221T\TALL111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 09:09:03 2011

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	C	chlorobenzene	3.238	3.305	-2.1	87	0.00
82	C	ethylbenzene	4.526	4.636	-2.4	84	0.00
84	C	m+p-xylene	3.562	3.622	-1.7	83	0.00
85	C	bromoform	2.752	2.952	-7.3	81	0.00
86	C	styrene	2.608	2.770	-6.2	84	0.00
87	C	1,1,2,2-tetrachloroethane	2.588	2.765	-6.8	83	0.00
88	C	o-xylene	3.811	3.864	-1.4	77	0.00
89		1,2,3-trichloropropane	2.226	2.185	1.8	79	0.00
90		nonane	2.767	2.630	5.0	75	0.00
91	s	bromofluorobenzene	3.652	3.369	7.7	105	0.00
92	C	isopropylbenzene	5.170	5.061	2.1	80	0.00
93		bromobenzene	2.745	2.692	1.9	76	0.00
94		2-chlorotoluene	1.513	1.466	3.1	78	0.00
95		n-propylbenzene	1.413	1.421	-0.6	79	0.00
96		4-chlorotoluene	3.879	3.852	0.7	79	0.00
97		4-ethyl toluene	4.775	5.210	-9.1	85	0.00
98		1,3,5-trimethylbenzene	3.926	4.130	-5.2	84	0.00
99		tert-butylbenzene	4.369	4.509	-3.2	78	-0.01
100		1,2,4-trimethylbenzene	3.767	4.151	-10.2	82	-0.01
101		decane	2.477	2.458	0.8	74	-0.01
102	C	Benzyl Chloride	2.660	3.160	-18.8	81	-0.01
103		1,3-dichlorobenzene	3.091	3.227	-4.4	82	-0.01
104	C	1,4-dichlorobenzene	3.082	3.225	-4.6	83	-0.01
105		sec-butylbenzene	5.961	6.065	-1.7	77	-0.01
107		p-isopropyltoluene	5.021	4.988	0.7	74	-0.01
108		1,2-dichlorobenzene	2.864	3.022	-5.5	83	-0.01
109		n-butylbenzene	4.479	4.824	-7.7	80	0.00
112	C	1,2-dibromo-3-chloropropane	1.085	1.221	-12.5	82	0.00
113		undecane	2.279	2.433	-6.8	79	0.00
115		dodecane	1.937	2.256	-16.5	86	0.00
116	C	1,2,4-trichlorobenzene	2.060	2.426	-17.8	81	0.00
117		naphthalene	4.571	4.801	-5.0	79	0.00
118		1,2,3-trichlorobenzene	2.249	2.374	-5.6	79	0.00
120	C	hexachlorobutadiene	2.293	2.668	-16.4	82	0.00

* Evaluation of CC level amount vs concentration.

FORM VII MCP-TO15

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Lab File ID (Standard): R218768 Date Analyzed: 01/05/12

Instrument ID : AIRPIANO2 Time Analyzed: 17:06

		IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
	12 HOUR STD	151117	10.36	485506	12.55	90670	16.91
	UPPER LIMIT	211564	10.69	679708	12.88	126938	17.24
	LOWER LIMIT	90670	10.03	291304	12.22	54402	16.58
	EPA SAMPLE NO.						
01	WG511601-3LCS	151117	10.36	485506	12.55	90670	16.91
02	WG511601-4BLANK	139978	10.36	444228	12.55	82489	16.91
03	VS-TB-28	135729	10.36	410072	12.55	78666	16.91
04	VS-1-28	142731	10.36	423793	12.55	81403	16.91
05	WG511601-5DUP	141133	10.36	416663	12.55	80602	16.91
06	VS-4-28	141334	10.37	425237	12.55	81177	16.91
07	VS-12-28	136252	10.36	406579	12.55	80095	16.91
08	VS-8-28	141326	10.37	423402	12.55	82493	16.91
09	VS-8-28-DUP	141863	10.37	424561	12.55	81732	16.91
10	VS-BG-28	135711	10.36	412859	12.55	77857	16.91

IS1 = BROMOCHLOROMETHANE
IS2 = 1,4-DIFLUOROBENZENE
IS3 = CHLOROBENZENE-D5

AREA UPPER LIMIT = + 40% of internal standard area
AREA LOWER LIMIT = - 40 % of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

* Values outside of QC limits.

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-01	Date Collected	: 12/29/11 00:00
Client ID	: VS-1-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 00:27
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218779	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	0.213	0.100	--	0.680	0.319	--	
67-66-3	Chloroform	0.249	0.020	--	1.22	0.098	--	
127-18-4	Tetrachloroethene	0.081	0.020	--	0.549	0.136	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-02	Date Collected	: 12/29/11 00:00
Client ID	: VS-4-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 01:39
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218781	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	0.343	0.100	--	1.10	0.319	--	
67-66-3	Chloroform	0.260	0.020	--	1.27	0.098	--	
127-18-4	Tetrachloroethene	0.040	0.020	--	0.271	0.136	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-03	Date Collected	: 12/29/11 00:00
Client ID	: VS-12-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 02:15
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218782	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	0.141	0.100	--	0.450	0.319	--	
67-66-3	Chloroform	0.471	0.020	--	2.30	0.098	--	
127-18-4	Tetrachloroethene	0.248	0.020	--	1.68	0.136	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-04	Date Collected	: 12/29/11 00:00
Client ID	: VS-8-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 02:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218783	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	ND	0.100	--	ND	0.319	--	U
67-66-3	Chloroform	0.161	0.020	--	0.786	0.098	--	
127-18-4	Tetrachloroethene	0.122	0.020	--	0.827	0.136	--	
79-01-6	Trichloroethene	0.050	0.020	--	0.269	0.107	--	

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-05	Date Collected	: 12/29/11 00:00
Client ID	: VS-8-28-DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 03:26
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218784	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	0.122	0.100	--	0.390	0.319	--	
67-66-3	Chloroform	0.129	0.020	--	0.630	0.098	--	
127-18-4	Tetrachloroethene	0.036	0.020	--	0.244	0.136	--	
79-01-6	Trichloroethene	0.033	0.020	--	0.177	0.107	--	

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-06	Date Collected	: 12/29/11 00:00
Client ID	: VS-BG-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 04:02
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218785	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	0.123	0.100	--	0.393	0.319	--	
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: L1200006-07	Date Collected	: 12/29/11 00:00
Client ID	: VS-TB-28	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/05/12 20:52
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218773	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	ND	0.100	--	ND	0.319	--	U
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511603-4	Date Collected	: NA
Client ID	: WG511603-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 01/05/12 19:40
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218771	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	ND	0.100	--	ND	0.319	--	U
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Form 1
Volatile Organics

Client	: TRC Environmental Consultants	Lab Number	: L1200006
Project Name	: KEITH MIDDLE SCHOOL	Project Number	: 115058
Lab ID	: WG511603-5	Date Collected	: 12/29/11 00:00
Client ID	: VS-1-28DUP	Date Received	: 12/30/11
Sample Location	:	Date Analyzed	: 01/06/12 01:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 101,TO15-SIM	Analyst	: MB
Lab File ID	: R218780	Instrument ID	: AIRPIANO2
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
71-43-2	Benzene	0.219	0.100	--	0.700	0.319	--	
67-66-3	Chloroform	0.255	0.020	--	1.24	0.098	--	
127-18-4	Tetrachloroethene	0.0830	0.020	--	0.563	0.136	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

3
LAB DUPLICATE
AIR VOLATILE

Lab Name: Alpha Analytical Labs
SDG No.: L1200006 Matrix: Air
Lab Sample ID : WG511603-5 Injected: 01/06/12 01:03 Lab File ID: R218780
Client Sample ID : VS-1-28

COMPOUND	SAMPLE CONCENTRATION (ppbV)	DUP CONCENTRATION (ppbV)	DUP % RPD	DUP RPD LIMIT
Benzene	0.213	0.219	3	25
Chloroform	0.249	0.255	2	25
Tetrachloroethene	0.081	0.083	2	25
Trichloroethene	ND	ND	NC	25

* Values outside of QC limits.

COMMENTS: _____

_____

FORM III MCP-TO15-SIM

3

LAB CONTROL SAMPLE RECOVERY

AIR VOLATILE

Lab Name: Alpha Analytical Labs

SDG No.: L1200006 Matrix: Air

Lab Control Sample: WG511603-3LCS Injected: 01/05/12 18:04 Lab File ID: R218769

COMPOUND	SPIKE ADDED ppbV	SAMPLE CONC ppbV	LCS CONC ppbV	LCS % REC	LCSD CONC ppbV	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC.
Benzene	5	NA	4.74	95	-	-	-		70-130
Chloroform	5	NA	5.10	102	-	-	-		70-130
Tetrachloroethene	5	NA	5.56	111	-	-	-		70-130
Trichloroethene	5	NA	4.93	99	-	-	-		70-130

* Values outside of QC limits.

COMMENTS: _____

_____

FORM III MCP-TO15-SIM

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

WG511603-4BLANK

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Lab File ID: R218771 Lab Sample ID: WG511603-4

Date Analyzed: 01/05/12 Time Analyzed: 19:40

Instrument ID: AIRPIANO2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	WG511603-3LCS	WG511603-3	R218769	01/05/12 18:04
02	VS-TB-28	L1200006-07	R218773	01/05/12 20:52
03	VS-1-28	L1200006-01	R218779	01/06/12 00:27
04	VS-1-28DUP	WG511603-5	R218780	01/06/12 01:03
05	VS-4-28	L1200006-02	R218781	01/06/12 01:39
06	VS-12-28	L1200006-03	R218782	01/06/12 02:15
07	VS-8-28	L1200006-04	R218783	01/06/12 02:51
08	VS-8-28-DUP	L1200006-05	R218784	01/06/12 03:26
09	VS-BG-28	L1200006-06	R218785	01/06/12 04:02

COMMENTS: _____

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FORM IV MCP-TO15-SIM LOW

5A
VOLATILE INSTRUMENT PERFORMANCE CHECK
BROMOFLOUROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Lab File ID: R218555_tune BFB Injection Date: 12/21/11

Instrument ID: AIRPIANO2 BFB Injection Time: 16:06

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	8.0 - 40.0% of mass 95	20.9
75	30.0 - 66.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (.6)1
174	50.0 - 120.0% of mass 95	102.5
175	4.0 - 9.0% of mass 174	7.5 (7.3)1
176	93.0 - 101% of mass 174	99.4 (97)1
177	5.0 - 9.0% of mass 176	6.6 (6.7)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0.02	0.02	R218556	12/21/11	16:43
02	0.04	0.04	R218557	12/21/11	17:19
03	0.1	0.1	R218558	12/21/11	17:55
04	0.2	0.2	R218559	12/21/11	18:32
05	0.5	0.5	R218560	12/21/11	19:09
06	1.0	1.0	R218561	12/21/11	19:47
07	2.5	2.5	R218562	12/21/11	20:23
08	5.0	5.0	R218563	12/21/11	21:01
09	10.0	10.0	R218564	12/21/11	21:37
10	50.0	50.0	R218566	12/21/11	22:51
11	ICV QUANT REPORT	ICV QUANT REPO	R218571	12/22/11	01:56

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FORM V MCP-TO15-SIM

5A
VOLATILE INSTRUMENT PERFORMANCE CHECK
BROMOFLOUROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Lab File ID: R218767_tune BFB Injection Date: 01/05/12

Instrument ID: AIRPIANO2 BFB Injection Time: 16:30

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	8.0 - 40.0% of mass 95	18.2
75	30.0 - 66.0% of mass 95	47.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.9 (.8)1
174	50.0 - 120.0% of mass 95	108.9
175	4.0 - 9.0% of mass 174	8 (7.4)1
176	93.0 - 101% of mass 174	106.7 (98)1
177	5.0 - 9.0% of mass 176	7 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCAL	WG511603-2	R218769	01/05/12	18:04
02	WG511603-3LCS	WG511603-3	R218769	01/05/12	18:04
03	WG511603-4BLANK	WG511603-4	R218771	01/05/12	19:40
04	VS-TB-28	L1200006-07	R218773	01/05/12	20:52
05	VS-1-28	L1200006-01	R218779	01/06/12	00:27
06	VS-1-28DUP	WG511603-5	R218780	01/06/12	01:03
07	VS-4-28	L1200006-02	R218781	01/06/12	01:39
08	VS-12-28	L1200006-03	R218782	01/06/12	02:15
09	VS-8-28	L1200006-04	R218783	01/06/12	02:51
10	VS-8-28-DUP	L1200006-05	R218784	01/06/12	03:26
11	VS-BG-28	L1200006-06	R218785	01/06/12	04:02

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FORM V MCP-TO15-SIM

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Instrument ID: AIRPIANO2 Calibration Date(s): 12/21/11 12/21/11

Calibration Times: 16:43 22:51

Calibration Files
0.02=R218556.D 0.04=R218557.D 0.1 =R218558.D 0.2 =R218559.D 0.5 =R218560.D 1.0 =R218561.D
2.5 =R218562.D 5.0 =R218563.D 10 =R218564.D 50 =R218566.D

		Compound	0.02	0.04	0.1	0.2	0.5	1.0	2.5	5.0	10	50	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------											
2)		dichlorodifluoromethane	3.534	2.899	2.624	2.335	2.589	2.420	2.349	2.442	2.580	2.594	2.637	13.50
3)	C	chloromethane			0.809	0.708	0.756	0.703	0.663	0.717	0.753	0.740	0.731	5.99
4)		Freon-114	3.521	2.881	2.636	2.418	2.651	2.525	2.348	2.615	2.614	2.627	2.684	12.20
5)	C	vinyl chloride	1.141	0.897	0.844	0.770	0.866	0.814	0.774	0.841	0.881	0.868	0.870	12.01
6)	C	1,3-butadiene	0.708	0.565	0.535	0.497	0.547	0.528	0.477	0.553	0.564	0.561	0.554	11.15
7)	C	bromomethane	1.226	1.033	0.871	0.795	0.895	0.846	0.778	0.888	0.905	0.866	0.910	14.37
8)	C	chloroethane	0.518	0.453	0.369	0.349	0.377	0.370	0.326	0.383	0.386	0.367	0.390	14.24
9)		acetone					1.119	1.094	0.848	1.050	0.990	0.660	0.960	18.34
10)		trichlorofluoromethane	3.395	2.852	2.645	2.417	2.688	2.554	2.315	2.650	2.584	2.407	2.651	11.50
11)	C	acrylonitrile	0.616	0.509	0.352	0.389	0.349	0.382	0.330	0.441	0.436	0.339	0.414	21.82
12)	C	1,1-dichloroethene	1.875	1.548	1.441	1.306	1.465	1.390	1.249	1.438	1.401	1.254	1.437	12.58
13)	C	methylene chloride					1.244	1.092	0.908	1.021	0.986	0.857	1.018	13.58
14)		Freon 113	2.557	2.088	1.859	1.733	1.896	1.841	1.622	1.905	1.866	1.691	1.906	13.79
15)		Halothane	1.553	1.388	1.155	1.104	1.171	1.166	1.112	1.290	1.378	1.129	1.245	12.14
16)		trans-1,2-dichloroethene	2.032	1.666	1.518	1.402	1.556	1.509	1.348	1.565	1.554	1.392	1.554	12.44
17)	C	1,1-dichloroethane	2.015	1.679	1.467	1.378	1.490	1.478	1.319	1.530	1.555	1.342	1.525	13.28
18)	C	MTBE	2.461	2.329	1.539	1.698	1.550	1.676	1.479	1.866	1.844	1.276	1.772	21.03
19)	C	2-butanone			1.355	1.431	1.201	1.315	1.122	1.448	1.365	0.868	1.263	15.37
20)		cis-1,2-dichloroethene	1.469	1.114	0.973	1.058	1.002	1.093	0.899	1.189	1.193	0.947	1.094	15.06
21)	C	chloroform	2.188	1.833	1.597	1.522	1.649	1.631	1.477	1.705	1.750	1.593	1.695	11.95
22)	C	1,2-dichloroethane	1.416	1.183	1.009	0.982	1.046	1.060	0.957	1.107	1.138	1.002	1.090	12.39
23)	I	1,4-difluorobenzene	----------ISTD----------											
24)	s	1,2-dichloroethane-D4	0.405	0.350	0.462	0.433	0.395	0.451	0.496	0.362	0.336	0.364	0.405	13.25
25)	C	1,1,1-trichloroethane	0.833	0.607	0.552	0.563	0.576	0.571	0.497	0.565	0.580	0.526	0.587	15.57
26)	C	benzene			0.771	0.738	0.692	0.679	0.589	0.671	0.697	0.625	0.683	8.46
27)	C	carbon tetrachloride	0.862	0.626	0.583	0.598	0.622	0.612	0.538	0.624	0.637	0.604	0.631	13.64
28)	C	1,2-dichloropropane	0.341	0.277	0.224	0.244	0.229	0.236	0.206	0.241	0.260	0.232	0.249	15.18
29)		bromodichloromethane	0.741	0.540	0.489	0.510	0.512	0.512	0.457	0.529	0.560	0.518	0.537	14.36
30)	C	trichloroethene	0.571	0.383	0.370	0.378	0.390	0.383	0.336	0.372	0.390	0.364	0.394	16.32
31)	C	1,4-Dioxane			0.141	0.147	0.128	0.133	0.113	0.137	0.137	0.108	0.130	10.46
32)	C	cis-1,3-dichloropropene	0.490	0.361	0.309	0.344	0.326	0.341	0.296	0.355	0.385	0.360	0.356	15.05
33)	C	4-methyl-2-pentanone		0.575	0.377	0.433	0.381	0.425	0.373	0.430	0.443	0.341	0.420	16.13
34)		trans-1,3-dichloropropene	0.447	0.340	0.279	0.326	0.302	0.328	0.277	0.353	0.376	0.342	0.337	14.73
35)	C	1,1,2-trichloroethane	0.398	0.307	0.254	0.283	0.266	0.275	0.236	0.283	0.299	0.263	0.286	15.43
36)	I	chlorobenzene-D5	----------ISTD----------											
37)	C	toluene		6.368	4.382	4.359	3.902	4.078	3.361	4.130	4.578	3.864	4.336	19.41
38)	s	toluene-D8	5.156	4.434	5.876	5.412	5.042	5.835	6.269	4.688	4.429	5.054	5.220	12.01
39)		dibromochloromethane	3.470	2.599	2.269	2.438	2.455	2.586	2.324	2.857	3.238	2.987	2.722	14.81
40)	C	1,2-dibromoethane	3.238	2.445	2.017	2.253	2.193	2.337	1.948	2.412	2.679	2.359	2.388	15.30
41)	C	tetrachloroethene	3.851	2.745	2.561	2.624	2.708	2.704	2.363	2.720	2.959	2.664	2.790	14.40
42)		1,1,1,2-tetrachloroethane	2.417	1.882	1.592	1.746	1.730	1.811	1.604	1.965	2.102	1.781	1.863	13.34
43)	C	chlorobenzene	5.635	3.878	3.105	3.396	3.313	3.462	2.910	3.576	3.848	3.407	3.653	20.71
44)	C	ethylbenzene	8.260	5.825	3.959	4.621	4.168	4.675	3.832	5.121	5.413	4.396	5.027	25.89
45)	C	m+p-xylene	6.099	4.294	2.955	3.526	3.155	3.588	2.970	4.071	4.290	3.445	3.839	24.39
46)	C	bromoform	4.582	2.887	2.260	2.460	2.436	2.661	2.411	3.224	3.745	3.413	3.008	24.55
47)	C	styrene	3.662	2.678	2.007	2.431	2.222	2.582	2.151	3.002	3.222	2.674	2.663	19.29

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Instrument ID: AIRPIANO2 Calibration Date(s): 12/21/11 12/21/11

Calibration Times: 16:43 22:51

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	2.5	5.0	10	50	Avg	%RSD
48) C	1,1,2,2-tetrachloroethane	3.462	2.934	2.208	2.612	2.422	2.721	2.344	3.159	3.346	2.683	2.789	15.30
49) C	o-xylene	7.054	4.804	3.035	3.646	3.257	3.701	3.060	4.229	4.452	3.546	4.078	29.42
50) s	bromofluorobenzene	3.680	3.042	4.201	3.902	3.754	4.422	4.605	3.657	3.267	4.038	3.857	12.60
51) C	isopropylbenzene	8.535	6.222	3.995	5.085	4.481	5.167	4.402	6.031	6.212	4.921	5.505	23.95
52)	4-ethyl toluene	5.863	4.603	3.097	4.157	3.852	4.527	4.078	5.846	5.983	4.744	4.675	20.56
53)	1,3,5-trimethylbenzene	7.030	4.830	2.686	3.563	3.185	3.734	3.362	4.781	4.857	3.879	4.191	29.68
54)	1,2,4-trimethylbenzene	5.053	3.789	2.375	3.174	2.854	3.500	3.199	4.626	4.892	3.872	3.733	23.92
55)	1,3-dichlorobenzene	5.380	3.262	2.570	2.937	2.832	3.198	2.714	3.834	4.212	3.697	3.464	24.67
56) C	1,4-dichlorobenzene	5.336	3.310	2.590	2.904	2.804	3.186	2.679	3.777	4.187	3.745	3.452	24.50
57)	sec-butylbenzene	7.112	5.825	3.736	5.133	4.644	5.679	5.153	7.380	7.660	6.007	5.833	21.52
58)	p-isopropyltoluene	7.745	5.298	2.885	4.082	3.522	4.570	4.321	6.233	6.499	5.078	5.023	29.33
59)	1,2-dichlorobenzene	5.321	3.065	2.293	2.686	2.608	2.961	2.605	3.674	3.933	3.376	3.252	27.37
60)	n-butylbenzene				3.333	3.094	4.085	4.084	5.888	6.168	4.828	4.497	26.46
61) C	1,2,4-trichlorobenzene		2.216	1.794	1.757	1.909	2.194	1.995	2.832	3.363	3.149	2.356	25.64
62)	naphthalene		1.040	0.494	0.393	0.349	0.394	0.378	0.540	0.612	0.550	0.528	40.29#
63)	1,2,3-Trichlorobenzene		2.441	1.836	1.764	1.949	2.217	2.135	2.914	3.374	3.114	2.416	24.28
64) C	hexachlorobutadiene		1.884	1.741	2.013	2.004	2.416	2.249	3.304	3.654	3.402	2.518	29.10

FORM VI-MCP-TO15-SIM

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Instrument ID: AIRPIANO2 Calibration Date: 01/05/2012 Time: 18:04

Lab File ID: R218769 Init. Calib. Date(s): 12/21/11 12/21/11

Sample No: WG511603-2,3,25 Init. Calib. Times : 16:43 22:51

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	73	-0.01
21	C	chloroform	1.695	1.727	-1.9	74	0.00
23	I	1,4-difluorobenzene	1.000	1.000	0.0	74	0.00
26	C	benzene	0.683	0.647	5.3	71	0.00
30	C	trichloroethene	0.394	0.389	1.3	77	0.00
36	I	chlorobenzene-D5	1.000	1.000	0.0	70	0.00
41	C	tetrachloroethene	2.790	3.099	-11.1	80	0.00

* Evaluation of CC level amount vs concentration.

FORM VII MCP-TO15-SIM

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Instrument ID: AIRPIANO2 Calibration Date: 12/22/2011 Time: 01:56

Lab File ID: R218571 Init. Calib. Date(s): 12/21/11 12/21/11

Sample No: CTO15-SIMSTD5.0 Init. Calib. Times : 16:43 22:51

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	98	0.00
2		dichlorodifluoromethane	2.637	2.505	5.0	101	0.00
3	C	chloromethane	0.731	0.719	1.6	99	0.00
4		Freon-114	2.684	2.641	1.6	99	0.00
5	C	vinyl chloride	0.870	0.850	2.3	99	0.00
6	C	1,3-butadiene	0.554	0.565	-2.0	101	0.00
7	C	bromomethane	0.910	0.876	3.7	97	0.00
8	C	chloroethane	0.390	0.349	10.5	90	0.00
9		acetone	0.960	0.774	19.4	73	0.00
10		trichlorofluoromethane	2.651	2.651	0.0	99	0.00
11	C	acrylonitrile	0.414	0.323	22.0	72	0.00
12	C	1,1-dichloroethene	1.437	1.403	2.4	96	0.00
13	C	methylene chloride	1.018	0.934	8.3	90	0.00
14		Freon 113	1.906	1.789	6.1	93	0.00
15		Halothane	1.245	1.187	4.7	91	0.00
16		trans-1,2-dichloroethene	1.554	1.147	26.2	72	0.00
17	C	1,1-dichloroethane	1.525	1.365	10.5	88	0.00
18	C	MTBE	1.772	1.432	19.2	76	0.00
19	C	2-butanone	1.263	0.927	26.6	63	0.00
20		cis-1,2-dichloroethene	1.094	0.956	12.6	79	0.00
21	C	chloroform	1.695	1.575	7.1	91	0.00
22	C	1,2-dichloroethane	1.090	0.986	9.5	88	0.00
23	I	1,4-difluorobenzene	1.000	1.000	0.0	103	0.00
24	s	1,2-dichloroethane-D4	0.405	0.377	6.9	107	0.00
25	C	1,1,1-trichloroethane	0.587	0.508	13.5	93	0.00
26	C	benzene	0.683	0.578	15.4	89	0.00
27	C	carbon tetrachloride	0.631	0.568	10.0	94	0.00
28	C	1,2-dichloropropane	0.249	0.204	18.1	87	0.00
29		bromodichloromethane	0.537	0.469	12.7	91	0.00
30	C	trichloroethene	0.394	0.339	14.0	94	0.00
31	C	1,4-Dioxane	0.130	0.109	16.2	82	0.00
32	C	cis-1,3-dichloropropene	0.356	0.310	12.9	90	0.00
33	C	4-methyl-2-pentanone	0.420	0.340	19.0	82	0.00
34		trans-1,3-dichloropropene	0.337	0.246	27.0	72	0.00
35	C	1,1,2-trichloroethane	0.286	0.236	17.5	86	0.00
36	I	chlorobenzene-D5	1.000	1.000	0.0	100	0.00
37	C	toluene	4.336	3.433	20.8	83	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR2\2011\111221SIM\
Data File : R218571.D
Acq On : 22 Dec 2011 1:56 am
Operator : AIRPIANO2:RY
Sample : CTO15-SIMSTD5.0
Misc : wg509972
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 11:27:01 2011
Quant Method : O:\Forensics\Data\AIR2\2011\111221SIM\TSIM111221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Dec 22 11:24:44 2011

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	s	toluene-D8	5.220	5.138	1.6	110	0.00
39		dibromochloromethane	2.722	2.467	9.4	87	0.00
40	C	1,2-dibromoethane	2.388	2.010	15.8	84	0.00
41	C	tetrachloroethene	2.790	2.440	12.5	90	0.00
42		1,1,1,2-tetrachloroethane	1.863	1.537	17.5	78	0.00
43	C	chlorobenzene	3.653	3.006	17.7	84	0.00
44	C	ethylbenzene	5.027	3.922	22.0	77	0.00
45	C	m+p-xylene	3.839	3.043	20.7	75	0.00
46	C	bromoform	3.008	2.588	14.0	80	0.00
47	C	styrene	2.663	2.268	14.8	76	0.00
48	C	1,1,2,2-tetrachloroethane	2.789	2.333	16.3	74	0.00
49	C	o-xylene	4.078	3.170	22.3	75	0.00
50	s	bromofluorobenzene	3.857	3.942	-2.2	108	0.00
51	C	isopropylbenzene	5.505	4.295	22.0	71	0.00
52		4-ethyl toluene	4.675	4.182	10.5	72	0.00
53		1,3,5-trimethylbenzene	4.191	3.390	19.1	71	0.00
54		1,2,4-trimethylbenzene	3.733	3.337	10.6	72	0.00
55		1,3-dichlorobenzene	3.464	2.826	18.4	74	0.00
56	C	1,4-dichlorobenzene	3.452	2.778	19.5	74	0.00
57		sec-butylbenzene	5.833	4.957	15.0	67	0.00
58		p-isopropyltoluene	5.023	3.964	21.1	64	-0.01
59		1,2-dichlorobenzene	3.252	2.670	17.9	73	-0.01
60		n-butylbenzene	4.497	3.751	16.6	64	-0.01
61	C	1,2,4-trichlorobenzene	2.356	2.024	14.1	72	-0.03
62		naphthalene	5.278	3.711	29.7	69	-0.02
63		1,2,3-Trichlorobenzene	2.416	2.023	16.3	70	-0.03
64	C	hexachlorobutadiene	2.518	2.160	14.2	66	-0.03

* Evaluation of CC level amount vs concentration.

FORM VII MCP-TO15-SIM

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alpha Analytical Labs

SDG No.: L1200006

Lab File ID (Standard): R218769 Date Analyzed: 01/05/12

Instrument ID : AIRPIANO2 Time Analyzed: 18:04

		IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
	12 HOUR STD	150860	10.36	481130	12.55	89624	16.90
	UPPER LIMIT	211204	10.69	673582	12.88	125474	17.23
	LOWER LIMIT	90516	10.03	288678	12.22	53774	16.57
	EPA SAMPLE NO.						
01	WG511603-3LCS	150860	10.36	481130	12.55	89624	16.90
02	WG511603-4BLANK	165082	10.36	534835	12.55	93870	16.91
03	VS-TB-28	159395	10.36	502690	12.54	88661	16.91
04	VS-1-28	167793	10.36	518808	12.55	92750	16.90
05	WG511603-5DUP	164731	10.36	507758	12.55	90831	16.90
06	VS-4-28	166960	10.36	520432	12.55	91891	16.91
07	VS-12-28	160671	10.36	497007	12.55	90661	16.90
08	VS-8-28	164555	10.36	516824	12.55	93660	16.90
09	VS-8-28-DUP	167255	10.36	519102	12.55	92959	16.91
10	VS-BG-28	159217	10.36	502758	12.55	88459	16.90

IS1 = BROMOCHLOROMETHANE
IS2 = 1,4-DIFLUOROBENZENE
IS3 = CHLOROBENZENE-D5

AREA UPPER LIMIT = + 40% of internal standard area
AREA LOWER LIMIT = - 40 % of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

* Values outside of QC limits.

APPENDIX F

LABORATORY DATA VALIDATION MEMORANDA

Memo

To: David Sullivan

From: Lorie MacKinnon

CC:

Date: 02/13/12

Re: Data Validation Review: Air Samples: Keith Middle School/New Bedford, MA: SDG 12010053

SUMMARY

Limited (Tier II) validation was performed on the data for 11 air samples and two trip blank samples collected at the Keith Middle School in New Bedford, Massachusetts. The samples were collected on December 29, 2011 and submitted to Pace Analytical Services, Inc. in Schenectady, New York for analysis. All air vent samples were collected on polyurethane foam (PUF) cartridges in accordance with EPA method TO-10A; all ambient air samples were collected on particulate filters and PUF cartridges in accordance with EPA method TO-4A. The samples were analyzed for polychlorinated biphenyl (PCB) homologues using EPA method 680. NEA reported the results under job number 12010053.

The sample results were assessed using the *EPA New England Data Validation Functional Guidelines for Evaluating Environmental Analyses*, revised December 1996. Modification of these guidelines was performed to accommodate the non-CLP methodology.

In general, the data appear to be valid as reported and may be used for decision-making purposes. Potential high bias exists for trichlorobiphenyl and total PCB in samples A-28, B-28, and C-28 due to high surrogate recoveries. Potential low bias exists for samples VS-1-28, VS-4-28, VS-12-28, VS-8-28, VS-8-28-DUP, VS-BG-28, and VS-TB-28 due to low surrogate and laboratory control sample recoveries. These issues have a minor impact on the data usability; all results are still usable for project objectives.

SAMPLES

Samples included in this review are listed below:

VS-1-28	VS-4-28	VS-12-28
VS-8-28	VS-8-28-DUP (1)	VS-BG-28
VS-TB-28	A-28	B-28

C-28 BG-28 BG-28 DUP (2)
TB-28

(1) Field duplicate of VS-8-28
(2) Field duplicate of BG-28

REVIEW ELEMENTS

Sample data were reviewed for the following parameters:

- Agreement of analyses conducted with TRC requests
- Holding times and sample preservation
- Gas chromatography/mass spectrometry (GC/MS) tunes
- Initial and continuing calibrations
- Blanks
- Surrogate spike recoveries
- Laboratory control sample (LCS) results
- Internal standard performance
- Field duplicate results
- Quantitation limits and sample results

DISCUSSION

Agreement of Analyses Conducted with TRC Requests

Sample reports were checked to verify that the results corresponded to analytical requests as designated on the chain-of-custody and any correspondence between TRC and the laboratory.

Holding Times and Sample Preservation

All samples were extracted and analyzed within the method-specified holding time.

GC/MS Tunes

The frequency and abundance of all decafluorotriphenylphosphine (DFTPP) tunes were within the acceptance criteria. The samples were analyzed within 12 hours from the DFTPP tunes. Window defining mixtures were analyzed following each DFTPP tune.

Initial and Continuing Calibrations

The %RSDs and %Ds of all PCB congeners used in the initial and continuing calibrations were within the acceptance criteria.

Blanks

Target compounds were not detected in the laboratory method blanks or trip blanks associated with the PCB homologue analyses.

Target compounds were not detected in the VER PUF samples (Lot#s: 120811-1, 121911-2, and 121911-3), which were analyzed and reported under job numbers 11120177 and 11120209.

Surrogate Spike Recoveries

Select samples exhibited surrogate recoveries outside the acceptance criteria. The following tables summarize the surrogate recoveries in the affected samples.

Sample ID Control Limit	TCMX 17.9-137	DCB 42.5-134	Validation Actions
A-28	138%	Criteria Met	Estimate (J) the positive results for trichlorobiphenyl and total PCB in these samples.
B-28	160%	Criteria Met	
C-28	150%	Criteria Met	

Sample ID Control Limit	TCMX 44.4-104	DCB 70.1-116	Validation Actions
VS-1-28	Criteria Met	67.4%	Estimate (UJ) the nondetect results for these samples.
VS-4-28	Criteria Met	68.1%	
VS-12-28	Criteria Met	65.5%	
VS-8-28	Criteria Met	67.5%	
VS-8-28-DUP	Criteria Met	65.9%	
VS-BG-28	Criteria Met	68.7%	
VS-TB-28	Criteria Met	65.2%	

LCS Results

An LCS and LCSD was extracted and analyzed with each extraction batch. The following table summarizes the compounds recovered outside of the control limits and the resulting validation actions.

Compound	LCS ID: Associated Samples	Recovery (%)	RPD (%)	Control Limits	
Chlorobiphenyl	LCS-60: VS-1-28, VS-4-28, VS-12-28, VS-8-28, VS-8-28-DUP, VS-BG-28, VS-TB-28	12.5	200	28.7-78.9/40	Estimate (UJ) the nondetect results for these results in the associated samples.
Dichlorobiphenyl		14.1	200	30.8-82.6/40	
Trichlorobiphenyl		17.4	200	34.4-86.8/40	
Tetrachlorobiphenyl		16.3	200	34.6-86.9/40	
Pentachlorobiphenyl		21.2	200	37.8-91.9/40	
Hexachlorobiphenyl		22.1	200	40.9-94.8/40	
Heptachlorobiphenyl		21.4	200	41.7-98.0/40	
Octachlorobiphenyl		21.7	200	43.2-102/40	
Decachlorobiphenyl		27.6	200	46.4-102/40	

Internal Standard Performance

The following table lists the internal standards recovered outside of the control limits and the resulting validation actions.

Sample	Internal Standard	Recovery (%)	Control Limits	
A-28	Phenanthrene-d10	131.8	70-130	Validation action was not required as this internal standard was not used for compound quantitation.

Field Duplicate Results

Samples VS-8-28/VS-8-28-DUP and BG-28/BG-28 DUP were submitted as the field duplicate (collocated) pairs with this sample set. PCBs were not detected in these samples.

Quantitation Limits and Sample Results

The quantitation limits met the requirements in the Sampling Plan for this program.

Two-fold dilutions were performed for samples A-28, B-28, and C-28. Quantitation limits were elevated accordingly.

Memo

To: David Sullivan

From: Lorie MacKinnon

CC:

Date: 02/13/12

Re: Data Validation Review: Air Samples: Keith Middle School/New Bedford, MA: SDGs L1200005 and L1200006

SUMMARY

Limited (Tier II) validation was performed on the data for 11 air samples and two trip blank samples collected at the Keith Middle School, Massachusetts. The samples were collected on December 29, 2010 and submitted to Alpha Woods Hole Labs (Alpha) in Westborough, MA for analysis. All air vent samples were collected in 2 liter SUMMA® canisters in accordance with EPA method TO-15A; all ambient air samples were collected in 6 liter SUMMA® canisters in accordance with EPA method TO-15A. The samples were analyzed for volatile organic compounds using EPA method TO-15A. Alpha reported the results under job numbers L1200005 and L1200006.

The sample results were assessed using the *EPA New England Data Validation Functional Guidelines for Evaluating Environmental Analyses*, revised December 1996. Modification of these guidelines was performed to accommodate the non-CLP methodology.

In general, the data appear to be valid as reported and may be used for decision-making purposes. The positive and nondetect results for sample VS-12-28 were estimated (J/UJ) due to high pre and post flow controller calibration check relative percent differences. The nondetect results for 1,2,4-trimethylbenzene, 1,2-dichlorobenzene, n-butylbenzene, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, naphthalene, 1,2,3-trichlorobenzene, and hexachlorobutadiene in all samples should be qualified as estimated (J/UJ) due to calibration nonconformances. The results for 2-butanone, ethylbenzene, styrene, chloroform, and tetrachloroethene in samples VS-8-28 and VS-8-28 DUP should be qualified as estimated (J/UJ) due to field duplicate precision results. The positive results for acetone in samples C-28 and B-28 and chloromethane in samples C-28 and A-28 should be qualified as estimated (J) due to possible co-elution with non-target compounds. The direction of the bias cannot be determined from these nonconformances. Due to the interference of non-target compounds, the presence of chloromethane in samples VS-1-28, VS-4-28, VS-12-28, VS-8-28, and VS-8-28 DUP could not confirmed and these affected nondetect results were qualified as estimated (UJ).

SAMPLES

Samples included in this review are listed below:

L1200005

C-28	B-28	A-28
BG-28	BG-28-DUP (1)	TB-28

L1200006

VS-1-28	VS-4-28	VS-12-28
VS-8-28	VS-8-28-DUP	VS-BG-28
VS-TB-28		

1) Field duplicate of BG-28
2) Field duplicate of VS-8-28

REVIEW ELEMENTS

Sample data were reviewed for the following parameters:

- Agreement of analyses conducted with TRC requests
- Holding times and sample preservation
- Gas chromatography/mass spectrometry (GC/MS) tunes
- Initial and continuing calibrations
- Method blanks
- Laboratory Duplicate results
- Laboratory control sample (LCS) results
- Internal standard performance
- Field duplicate results
- Quantitation limits and sample results

DISCUSSION

Agreement of Analyses Conducted with TRC Requests

Sample reports were checked to verify that the results corresponded to analytical requests as designated on the chain-of-custody and any correspondence between TRC and the laboratory.

Holding Times and Sample Preservation

All samples were analyzed within the method-specified holding time.

The pre and post flow controller calibration check relative percent difference (RPD) exceeded the acceptance limit of 20 in sample VS-12-28 (29), indicating that the flow was not consistent over the time of collection. The positive and nondetect results for sample VS-12-28 were estimated (J/UJ).

GC/MS Tunes

The frequency and abundance of all bromofluorobenzene (BFB) tunes were within the acceptance criteria.

Initial and Continuing Calibrations

The relative standard deviations (%RSDs) of 1,2,4-trichlorobenzene (30.4), naphthalene (31.0), and 1,2,3-trichlorobenzene (34.9%) were outside of the acceptance criteria in the initial calibration associated with all samples. The nondetect results for 1,2,4-trichlorobenzene, naphthalene, and 1,2,3-trichlorobenzene were estimated (UJ) in all samples due to initial calibration nonconformances.

The percent differences (%Ds) for 1,2,4-trimethylbenzene (29.8), 1,2-dichlorobenzene (26.3), n-butylbenzene (30.9), 1,2-dibromo-3-chloropropane (28.1), 1,2,4-trichlorobenzene (47.9), naphthalene (30.6), 1,2,3-trichlorobenzene (47.0), and hexachlorobutadiene (47.8) were outside of the acceptance criteria in the continuing calibration associated with all samples. The nondetect results for 1,2,4-trimethylbenzene, 1,2-dichlorobenzene, n-butylbenzene, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, naphthalene, 1,2,3-trichlorobenzene, and hexachlorobutadiene were estimated (UJ) in these samples due to continuing calibration nonconformances.

Blanks

Target compounds were not detected in the laboratory method blank and trip blank samples associated with the volatile organic compound analyses.

Target compounds were not detected in the canister certification samples Can 1630 Shelf 54 (L1119609), Can 124 Shelf 3 (L1120561), and Can 131 Shelf 2 (L1120812) which were associated with all samples in these sample sets.

Laboratory Duplicate Results

The laboratory performed a duplicate analysis on sample VS-1-28. All relative percent differences (RPDs) were within the laboratory control limit of 25.

LCS Results

LCS samples were analyzed along with the field samples. The recoveries for n-butylbenzene (131) and 1,2,3-trichlorobenzene (147) were above the control limits of 70-130 in the LCS associated with all samples. Validation actions were not required on this basis as the affected results were nondetect and therefore not affected by the potential high bias.

Internal Standard Performance

Internal standards were within the acceptance criteria in all sample analyses.

Field Duplicate Results

Samples VS-8-28 and VS-8-28 DUP were submitted as the field duplicate (collocated) pair with this sample set. The following table summarizes the relative percent differences (RPDs) of the target VOCs detected in either sample, all of which were within the acceptance criteria of 20%RPD or the difference of <2 times the reporting limit (RL) with the exception of 2-butanone, ethylbenzene, styrene, chloroform, and tetrachloroethene. The positive and nondetect results for 2-butanone, ethylbenzene, styrene, chloroform, and tetrachloroethene in samples VS-8-28 and VS-8-28 DUP were estimated (J/UJ).

VOCs	RL ($\mu g/m^3$)	VS-8-28 ($\mu g/m^3$)	VS-8-285 DUP ($\mu g/m^3$)	RPD (%)
Dichlorodifluoromethane	0.99	2.0	2.0	0
Acetone	2.38	6.56	7.17	8.9
Trichlorofluoromethane	1.12	1.90	2.03	6.6
2-Butanone	0.59	2.27	4.25	60.7
Tetrahydrofuran	0.59	2.58	1.80	35.6, Within 2xRL
Toluene	0.754	1.87	0.754 U	NC, Within 2xRL
Ethylbenzene	0.869	11.3	0.869 U	NC, Not within 2xRL
p/m-Xylene	1.74	2.03	1.74 U	NC, Within 2xRL
Styrene	0.852	5.28	0.852 U	NC, Not within 2xRL
2-Hexanone	0.82	0.82 U	0.844	NC, Within 2xRL
Benzene	0.319	0.319 U	0.390	NC, Within 2xRL
Chloroform	0.098	0.786	0.63	22.0
Tetrachloroethene	0.136	0.827	0.244	108.9
Trichloroethene	0.107	0.269	0.177	41.3, Within 2xRL

Samples BG-28 and BG-28 DUP were submitted as the field duplicate (collocated) pair with this sample set. The following table summarizes the relative percent differences (RPDs) of the target VOCs detected in either sample, all of which were within the acceptance criteria of 20%RPD or the difference of <2 times the reporting limit (RL).

VOCs	RL ($\mu g/m^3$)	BG-28 ($\mu g/m^3$)	BG-28 DUP ($\mu g/m^3$)	RPD (%)
Dichlorodifluoromethane	0.989	2.24	2.30	2.6
Chloromethane	0.413	1.09	0.968	11.9
Trichlorofluoromethane	1.12	1.16	1.12 U	NC, Within 2xRL
Benzene	0.319	0.393	0.402	2.3

Quantitation Limits and Sample Results

The laboratory noted in the case narrative that the presence of select compounds could not be determined or select compounds should be considered estimates due to non-target compound interferences. The following table summarizes these compound identification issues.

Sample	Compound	Identification Issue	Validation Action
C-28	Chloromethane	Co-elution with non-target compound	Estimate (J) the positive results for chloromethane in samples C-28 and A-28.
A-28			
C-28	Acetone	Co-elution with non-target compound	Estimate (J) the positive results for acetone in samples C-28 and B-28.
B-28			

Sample	Compound	Identification Issue	Validation Action
VS-1-28	Chloromethane	Non-target compounds interfered with possible identification of this compound	Estimate (UJ) the nondetect results for chloromethane in these samples.
VS-4-28			
VS-12-28			
VS-8-28			
VS-8-28 DUP			

APPENDIX G

DISCUSSION OF RISK-BASED COMPARISON CRITERIA

DISCUSSION OF RISK-BASED COMPARISON CRITERIA

PCBs

Two PCB risk-based air concentrations (RBACs) have been developed for the KMS, assuming occupational exposures within the school (8 hours/day, 250 days/year, for 25 years). Both non-carcinogenic and carcinogenic health endpoints were considered in the calculation of the RBACs; however, RBACs are based on noncarcinogenic effects as the most sensitive endpoint. The first RBAC is the Action Level (AL; 0.05 ug/m^3) used as an initial indicator that PCB air concentrations above background levels have been detected. The risk basis for the AL is a noncarcinogenic hazard index of approximately 0.2. The second RBAC is the Acceptable Long-Term Average Exposure Concentration (ALTAEC; 0.3 ug/m^3), indicative of the maximum acceptable air concentration that should not be exceeded for an extended time period. The ALTAEC could be exceeded over the short-term and still result in acceptable risk levels. The risk basis for the ALTAEC is a noncarcinogenic hazard index of one.

Both RBACs were developed to be applied to a total PCB air concentration. PCB homologues have been quantified and summed to generate total PCB air concentrations. By quantifying PCB homologues, total PCB air data gathered at the KMS are directly comparable to total PCB air data gathered at the high school since both are based on homologues rather than congeners, which greatly facilitates communication and discussion with the general public on the results of analyses.

In September 2009, EPA published Public Health Levels (PHLs) for PCBs which are calculated indoor air concentrations that maintain PCB exposures below a level that EPA = believes does not cause harm. PHLs were calculated for all ages of children from toddlers in day care to adolescents in high school as well as for adult school employees. In this report, indoor air PCB concentrations are compared to the PHL (0.45 ug/m^3) for adult school employees and children 12 to <15 years old, representative of the middle school age range. In calculating the PHL, EPA considered average PCB exposures from both school (e.g., school indoor and outdoor air, indoor dust and nearby outside soils) and non-school (e.g., diet, outside soils, indoor dust, and indoor and outdoor air) environments. EPA assumed that middle school children spend 6.5-hours per day at school (with 6 hours spent inside the school) for a 180-day school year.

The LTMMIP specifies that both indoor air and vent stack air gas-phase total PCB concentrations are to be compared to RBACs. This comparison is appropriate for indoor air results since exposures to indoor air at the KMS are occurring over a similar duration and frequency as that assumed for RBAC development (8 hours/day, 250 days/year for 25 years). However, this comparison is less appropriate for vent stack air results. The vent system is designed to capture gas-phase PCBs from the subsurface beneath the KMS and convey the gases through PVC piping to outdoor air, limiting migration through the building slab and into indoor air. Little if any human exposure to air within the vent stack system itself is taking place. Air from the vent stack is vented to outdoor air where the PCBs are quickly diluted and dispersed. Therefore, comparison of vent stack air results to RBACs developed assuming exposures of 8

hours/day, 250 days/year for 25 years is highly conservative, if not conceptually irrelevant. The results of the comparison of vent stack air results to RBACs should be interpreted with caution due to the significantly reduced degree of exposure to vent stack air that can be experienced by individuals in comparison to indoor air.

VOCs

Comparison criteria for VOC data include MassDEP Threshold Effects Exposure Limits (TELs) and Allowable Ambient Limits (AALs), primarily developed between 1990 and 1995, consistent with the LTMMIP. MassDEP is in the process of updating the TELs/AALs, and published updated values for tetrachloroethene in January 2012. TELs are developed to be applicable to short-term exposure concentrations (average 24-hour levels) while AALs are developed to be protective of long-term exposure concentrations (average annual levels over 30 years). AALs and TELs are risk-based values, corresponding to the lower of a non-carcinogenic hazard of 0.2 or an excess lifetime cancer risk of one in one million (1×10^{-6}) for potentially carcinogenic compounds. Indoor air and vent stack air VOC concentrations are conservatively compared to both criteria even though it is unlikely that actual exposures to measured air concentrations would occur for either an entire 24-hour day or continually for 30 years. Short-term exposures at the KMS are likely to occur for approximately 8 hours per day, while long-term exposures are likely to occur for approximately 250 days/year for an exposure duration of 25 years.

Because TELs and AALs have not been revised since 1995, except for tetrachloroethene, and may not include the most up-to-date toxicity information available, VOC concentrations in excess of AALs and TELs are discussed relative to alternate comparison criteria. The alternate comparison criteria are primarily residential and commercial EPA screening levels (EPA SLs) developed by Oak Ridge National Laboratory (November 2011) using the most current toxicity information available. Similar to AALs, residential EPA SLs are applicable to continuous long-term exposures. Commercial EPA SLs are more applicable to the actual exposures occurring at the KMS (8 hours/day, 250 days/year for 25 years). Residential and commercial EPA SLs are associated with the same cancer risk threshold used in establishing AALs and TELs. However, EPA SLs are based on a hazard of 1 for non-carcinogenic endpoints. Therefore, EPA SLs provided on Tables 6-1 and 6-2 have been adjusted to a non-carcinogenic hazard of 0.2 to be consistent with AALs and TELs based on non-carcinogenic effects. In interpreting concentrations in excess of residential EPA SLs, it is important to consider how the frequency and duration of actual exposures may differ from continuous long-term exposures assumed for residential EPA SL development.

Because AALs, TELs, and EPA SLs are set at risk levels (i.e., non-carcinogenic hazard of 0.2 and excess lifetime cancer risk of 1×10^{-6}) that are only a portion of the MassDEP risk management criteria of a non-carcinogenic hazard of 1 and an excess lifetime cancer risk of one in one-hundred thousand (1×10^{-5}), concentrations that slightly exceed (i.e., less than 5-fold) one or more comparison criteria may not be cause for concern, especially considering that actual exposures may be of lesser duration and frequency than assumed in comparison criteria development.

For compounds lacking comparison criteria, detected concentrations are discussed relative to available comparison criteria for a surrogate compound, selected based on similarities in chemical structure and/or known toxicity. Compounds lacking comparison criteria are also discussed relative to site-specific outdoor and indoor air background concentrations, as available.

Levels of VOCs in air present as a result of background or ambient conditions were not factored into the establishment of comparison criteria. Therefore, comparison criteria may be set at values that are below typical background levels of VOCs in indoor air, present as a result of off-gassing from building materials or consumer products that contain VOCs. To account for anticipated background conditions at the KMS, VOC concentrations in excess of comparison criteria are framed relative to site-specific outdoor air background concentrations, indicating ambient conditions in the vicinity of site. To provide additional perspective, VOC concentrations in excess of comparison criteria are also discussed relative to MassDEP indoor air background values, used by MassDEP in the development of the Massachusetts Contingency Plan (MCP) numeric standards (MassDEP, 2008) and residential and commercial Indoor Air Threshold Values (IATVs; December 2011) developed by MassDEP considering typical indoor air background concentrations and MassDEP risk management criteria. The residential IATVs assume continuous exposure (24 hours per day, 365 days per year for 30 years) while the commercial IATVs were developed to be applicable to exposures of lesser duration and intensity (8 hours per day, 250 days per year for 30 years). MassDEP considers investigation of the vapor intrusion pathway to be unnecessary when measured indoor air concentrations are at or below IATVs, assuming that the indoor air results are consistent with other site information and that adequate sampling has been performed. Therefore, the presence of one or more VOCs at concentrations that exceed comparison criteria should be interpreted with caution and may not indicate the need for immediate action.

There are a small number of compounds in indoor air, vent air, and outdoor air background samples for which reporting limits exceed comparison criteria set at very low values, which are not readily achievable with standard analytical methods. The comparison criteria for each of the affected compounds (i.e., benzene, chloroform, methylene chloride, styrene, tetrachloroethene, and trichloroethene) are based on an excess lifetime cancer risk of 1×10^{-6} for continuous lifetime exposure. For these compounds, the reporting limit typically exceeds the comparison criteria by 10-fold or less, indicating that the reporting limit is associated with an excess lifetime cancer risk of up to 1×10^{-5} for long-term exposures. However, because the development of comparison criteria does not consider airborne levels present as a result of background or ambient activities, it is important to note that comparison criteria for these compounds are set at levels that are below typical indoor air background levels and cannot be distinguished from levels in site-specific outdoor air samples.

APPENDIX H

INDOOR AIR RISK CALCULATIONS – COMMERCIAL WORKER

Table 1 Statistics of Detected Analytical Results for Indoor Air Samples - 2007 through 2011
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte	# of Samples	# of Detects	Freq. of Detects	Min. of Detects (ug/m3)	Max. of Detects (ug/m3)	Location of Max. Detected	Min. of Non-Detects (ug/m3)	Max. of Non-Detects (ug/m3)	Mean Concentration (ug/m3)	EPC (ug/m3)	EPC Basis
VOCs												
(ug/m3)	1,2,4-trichlorobenzene	51	2	3.9%	11.7	12.2	A-11	1.48	3.71	1.6E+00	2.809	95% Chebyshev (Mean, Sd) UCL
	1,2,4-trimethylbenzene	51	12	23.5%	1	4.97	A-26	0.982	2.46	1.1E+00	1.564	95% Chebyshev (Mean, Sd) UCL
	2,2,4-Trimethylpentane	45	4	8.9%	1.11	1.64	A-25	0.934	2.33	8.2E-01	0.914	95% Student's-t UCL
	2-butanone	51	40	78.4%	0.669	23.6	A-11	0.589	1.47	3.3E+00	3.934	95% Approximate Gamma UCL
	acetone(1)	51	47	92.2%	2.56	134	A-13	2.37	13.3	2.2E+01	26.71	95% Approximate Gamma UCL
	Benzene	51	28	54.9%	0.338	1.56	A-26	0.319	1.6	7.2E-01	0.761	95% Student's-t UCL
	Carbon Disulfide	51	4	7.8%	0.666	1.66	A-20	0.622	1.56	5.3E-01	0.577	95% Student's-t UCL
	Chloroform	51	22	43.1%	0.098	0.245	C-17	0.098	2.44	5.0E-01	0.245	Max. of Detects
	chloromethane	51	17	33.3%	0.433	15	C-13	0.413	1.03	8.9E-01	2.109	95% Chebyshev (Mean, Sd) UCL
	cyclohexane	45	7	15.6%	0.713	7.36	C-13	0.688	1.72	8.6E-01	1.612	95% Chebyshev (Mean, Sd) UCL
	Dichlorodifluoromethane	33	33	100.0%	1.99	3.1	C-24	--	--	2.4E+00	2.486	95% Student's-t UCL
	ethanol(1)	45	44	97.8%	4.16	191	C-17	4.71	4.71	2.9E+01	36.75	95% H-UCL
	ethylbenzene	51	17	33.3%	0.868	10.1	A-19	0.868	2.17	1.5E+00	2.602	95% Chebyshev (Mean, Sd) UCL
	Ethyl Acetate	27	1	3.7%	1.94	1.94	C-17	1.8	1.8	9.4E-01	1.004	95% Student's-t UCL
	Freon-113	27	1	3.7%	2.02	2.02	C-17	1.53	1.53	8.1E-01	0..891	95% Student's-t UCL
	isopropanol(1)	45	31	68.9%	1.25	42.6	C-19	1.23	1.23	4.2E+00	8.608	95% Chebyshev (Mean, Sd) UCL
	methylene chloride(1)	51	8	15.7%	3.48	318	C-14	0.694	4.86	8.7E+00	33.9	95% Chebyshev (Mean, Sd) UCL
	Methyl Isobutyl Ketone	33	5	15.2%	1.33	18.8	B-17	0.819	0.82	1.4E+00	3.936	95% Chebyshev (Mean, Sd) UCL
	p/m-xylene	51	20	39.2%	1.74	39	A-19	1.74	4.34	4.6E+00	8.945	95% Chebyshev (Mean, Sd) UCL
	o-xlyene	51	16	31.4%	1.01	14	B-17	0.868	2.17	2.0E+00	3.703	95% Chebyshev (Mean, Sd) UCL
	n-heptane	45	7	15.6%	0.63075	16.5	A-11	0.819	2.05	1.1E+00	2.611	95% Chebyshev (Mean, Sd) UCL
	n-hexane	45	16	35.6%	0.715	145	C-14	0.704	3.52	4.5E+00	18.42	95% Chebyshev (Mean, Sd) UCL
	Propylene	45	5	11.1%	0.392	0.506	B-23	0.344	1.72	4.8E-01	0.506	Max. of Detects
	styrene	51	21	41.2%	0.868	7.26	A-14	0.851	2.13	1.5E+00	2.363	95% Chebyshev (Mean, Sd) UCL
	Tetrachloroethylene	51	13	25.5%	0.136	0.393	A-20	0.136	3.39	6.8E-01	0.393	Max. of Detects
	tetrahydrofuran	51	2	3.9%	4.52	7.05	A-13	0.589	1.47	6.5E-01	1.263	95% Chebyshev (Mean, Sd) UCL
	toluene	51	44	86.3%	0.777	74.1	B-25	0.753	1.88	6.9E+00	8.461	95% H-UCL
	Trichloroethylene	51	7	13.7%	0.107	0.215	A-19	0.107	2.68	5.2E-01	0.215	Max. of Detects
	trichlorofluoromethane	51	28	54.9%	0.85	3.08	C-14	1.12	2.81	1.4E+00	1.439	95% Student's-t UCL
	n-Propylbenzene	6	1	16.7%	1.06	1.06	A-26	0.982	0.983	5.9E-01	0.672	95% Student's-t UCL
	1,3,5-Trimethylbenzene	30	1	3.3%	1.96	1.96	A-26	0.982	0.983	5.4E-01	0.611	95% Student's-t UCL
PCBs												
(ug/m3)	Total PCBs	48	41	85.4%	0.00031	0.013	A-19	0.000071	0.00038	3.4E-03	0.00467	95% Approximate Gamma UCL

Notes:
ug/m3 - micrograms per cubic meter.
Values in **Bold** indicate the compound was detected.
VOCs - Volatile Organic Compounds.
PCBs - polychlorinated biphenyls.
(1) Compound is a common laboratory contaminant and detects may be associated with laboratory contamination for 2007 samples,
EPC - Exposure point concentration.
UCL - Upper concentration limit.

Table 2
Commercial Worker Risk Evaluation
Inhalation of Air Exposure Pathway
Keith Middle School
New Bedford, MA

	EPC	Estimated Dose		Toxicity Values				Risk Estimates	
Constituent	Indoor Air Concentration µg/m3	ADEcancer (Cancer) µg/m3	ADEnon-cancer (Non-cancer) µg/m3	Unit Risk (µg/m3)-1		Chronic Noncancer Reference Concentration µg/m3		Cancer Risk (--)	Hazard Quotient (--)
1,2,4-Trichlorobenzene	2.809	2.3E-01	6.4E-01	NA	(1)	2.0E+00	(7)	NA	3.E-01
2-Butanone	3.934	3.2E-01	9.0E-01	NA	(1)	5.0E+03	(1)	NA	2.E-04
Acetone	26.71	2.2E+00	6.1E+00	NA	(1)	8.0E+02	(1)	NA	8.E-03
Carbon disulfide	0.577	4.7E-02	1.3E-01	NA	(2)	7.0E+02	(2)	NA	2.E-04
Ethyl acetate	1.004	8.2E-02	2.3E-01	NA		3.0E+03	(8)	NA	8.E-05
Benzene	0.761	6.2E-02	1.7E-01	7.8E-06	(1)	3.0E+01	(1)	5.E-07	6.E-03
Chloroform	0.245	2.0E-02	5.6E-02	2.3E-05	(1)	6.6E+02	(1)	5.E-07	8.E-05
Chloromethane	2.109	1.7E-01	4.8E-01	NA	(2)	9.0E+01	(2)	NA	5.E-03
Difluorodichloromethane	2.486	2.0E-01	5.7E-01	NA		2.0E+02	(3)	NA	3.E-03
Ethylbenzene	2.602	2.1E-01	5.9E-01	NA	(1)	1.0E+03	(1)	NA	6.E-04
Freon 113	0.891	7.3E-02	2.0E-01	NA		3.0E+04	(3)	NA	7.E-06
Methylene chloride	33.9	2.8E+00	7.7E+00	1.0E-08	(2)	6.0E+02	(2)	3.E-08	1.E-02
Methyl isobutyl ketone	3.936	3.2E-01	9.0E-01	NA	(1)	3.0E+03	(1)	NA	3.E-04
Styrene	2.363	1.9E-01	5.4E-01	5.7E-07	(1)	1.0E+03	(1)	1.E-07	5.E-04
Tetrachloroethene	0.393	3.2E-02	9.0E-02	5.5E-05	(1)	3.0E+02	(10)	1.8.E-06	3.E-04
Tetrahydrofuran	1.263	1.0E-01	2.9E-01	3.0E-06	(9)	2.0E+03	(2)	3.E-07	1.E-04
Toluene	8.461	6.9E-01	1.9E+00	NA	(1)	5.0E+03	(1)	NA	4.E-04
Trichlorofluoromethane	1.439	1.2E-01	3.3E-01	NA		7.0E+02	(3)	NA	5.E-04
Trichloroethene	0.215	1.8E-02	4.9E-02	4.0E-06	(2)	2.0E+00	(2)	7.E-08	2.E-02
Xylenes	12.648	1.0E+00	2.9E+00	NA	(1)	1.0E+02	(1)	NA	3.E-02
n-Hexane	18.42	1.5E+00	4.2E+00	NA	(4)	2.0E+02	(4)	NA	2.E-02
n-Heptane	2.611	2.1E-01	6.0E-01	NA	(4)	2.0E+02	(4)	NA	3.E-03
Cyclohexane	1.612	1.3E-01	3.7E-01	NA	(4)	2.0E+02	(4)	NA	2.E-03
1,2,4-Trimethylbenzene	1.564	1.3E-01	3.6E-01	NA	(5)	5.0E+01	(5)	NA	7.E-03
2,2,4-Trimethylpentane	0.914	7.5E-02	2.1E-01	NA	(4)	2.0E+02	(4)	NA	1.E-03
Ethanol	36.75	3.0E+00	8.4E+00	NA		4.0E+03	(6)	NA	2.E-03
Isopropanol	8.608	7.0E-01	2.0E+00	NA		4.0E+03	(6)	NA	5.E-04
Propylene	0.506	4.1E-02	1.2E-01	NA	(5)	5.0E+01	(5)	NA	2.E-03
PCBs	0.00467	3.8E-04	1.1E-03	1.0E-04	(1)	2.0E-02	(1)	4.E-08	5.E-02

	Cancer Risk	Hazard Index
TOTAL:	3E-06	5.E-01

Bold = Cancer Risk >1.0E-05 or Hazard Quotient > 1.0E+01

Where:

LADEcancer = IAC x EFx ED x EP/APcancer
ADEnon-cancer = IAC x EF x ED x EP / APnon-cancer
Cancer Risk = LADEcancer x UR
Hazard Quotient = ADEnon-cancer / Inhalation Reference Concentration

LADE = Life Time Average Daily Exposure
ADE = Average Daily Exposure
EPC = Exposure Point Concentration
$\mu g/m^3$ = micrograms per cubic meter

Sources of Toxicity Values:
(1) MassDEP 2008; MCP standards derivation
(2) IRIS, 2012
(3) HEAST, 1997
(4) Used C5-C8 aliphatic value from MassDEP 2008
(5) Used C9-C10 aromatic value from MassDEP 2008
(6) California EPA Reference Exposure Level for methanol
(7) EPA provisional value from the Superfund Technical Support Center
(8) Converted from IRIS RfD (0.9 mg/kg-day x 70 kg x 1/20 m3/day x 1000)
(9) Presented in Appendix B of the IRIS Toxicity Review for Tetrahydrfuran (February 2012)
(10) AAL-based value (MassDEP, 2012)

And where:

Exposure Frequency (EF) =	250	days/year (5 days a week for 50 weeks of exposure)
Exposure Duration (ED) =	8	hrs/event [1]
Exposure Period (EP) =	25	yr [1]
Unit Conversion (UC) =	0.04	days/hr
Averaging Period (APcancer) =	25550	days [1]
Averaging Period (APnon-cancer) =	9125	days [1]

[1] MADEP, 2008