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PERIODIC REVIEW REPORT

OCEANSIDE PLAZA
NASSAU COUNTY, NEW YORK

NYSDEC Site Number: C130158

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1.0 EXECUTIVE SUMMARY

1.1 Site Summary

1.1.1 Location and Description

The Site is an irregularly shaped 7.45-acre parcel occupying 3131-3221 Long Beach Road, Oceanside, Nassau County, New York - Section 43, Block 368, Lots 19, 20, 41 thru 45, 75 thru 92, 107 and 355 on the Official Land and Tax Map of Nassau County, New York. The Site contains four single-story buildings used for retail purposes with asphalt-paved driveways and parking areas.

1.1.2 Nature and Extent of Contamination

- An area of soil contamination (tetrachloroethene (PCE) and related compounds) was initially identified immediately east of the dry cleaner facility's rear door - exterior.
- An area of soil contamination (PCE and related compounds) was identified in the vicinity of the dry cleaning machine room - interior.
- A PCE based groundwater plume originating to the east of the dry cleaner facility's rear door and migrating in a southeastern direction was identified.
- A PCE and trichloroethene (TCE) soil vapor plume existed beneath the building.

1.1.3 Summary of Remedial Actions

- Excavation of interior and exterior soils exceeding the unrestricted Soil Cleanup Objectives (SCOs), to a maximum depth of 4.25 feet below grade.
- Active sub-slab depressurization system (SSDS) installation and monitoring to prevent human exposure to vapors emanating from the contaminated soil remaining at the Site. The active SSDS initially extracted vapors through a 2-inch diameter, 10-foot-long horizontal screened pipe. As described in detail on the following sections of this PRR, the SSDS has been expanded to include the following elements, in addition to this 10-foot long extraction pipe:
 - One vertical sub-slab vapor extraction point was added in January 2015, located within the dry cleaner machine room, opposite the Retail Space 12 (current wine store).
 - On September 1, 2015 a wind turbine was added to the SSDS effluent pipe to allow the system to operate in passive mode.
 - One additional 2-inch diameter horizontal vapor extraction pipe, consisting of two legs, was installed on April 19, 2017 directly under the former dry cleaner machine room.
- Execution and recording of an Environmental Easement to restrict groundwater use and prevent future exposure to any contamination remaining at the Site.

1.2 Effectiveness of the Remedial Program

As provided in the Final Engineering Report, dated December 2013, the selected remedy for the site is **No Further Action** with continued short-term operation of the SSDS (≤ 5 years), continued associated monitoring of indoor air quality with institutional controls (IC) and continued site management. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8.

1.3 Compliance

The SSDS operated on a full-time basis for the majority of this monitoring period. During a routine SSDS monitoring visit conducted on September 25, 2017, the SSDS was found to be non-operational upon arrival

due to an inoperable blower motor (note that while the system was down, it was operating with a wind turbine that was installed on September 1, 2015). In accordance with the procedures described in the Corrective Measures Work Plan submitted in the June 2016 Periodic Review Report, the blower motor was replaced and the SSDS was restarted on November 1, 2017. Based on the collection of favorable vapor compliance sample results, and as part of an SSDS termination plan (described below), the SSDS was shut down on March 16, 2018 and remained off for the balance of the monitoring period.

As described in the 2016 Periodic Review Report, all contaminant concentrations were in compliance with the New York State Department of Environmental Concerns (NYSDEC) Groundwater Quality Criteria (GWQC) in both the source area (MW-4) and downgradient (MW-5) groundwater monitoring wells during the December 2015 sampling event. As all parameters exhibited a steady-state/asymptotic concentration trend, it was recommended that the groundwater monitoring program be terminated. NYSDEC approved the recommendation and requested that the wells not be abandoned at this time.

1.4 Recommendations

1. SSDS Termination

A Termination Plan is being submitted in conjunction with this Periodic Review Report, recommending the requirement to operate the SSDS Engineering Control (EC) be terminated and the associated EC inspection, maintenance tasks and vapor monitoring task be discontinued. This recommendation is based on the documented effectiveness of the SSDS system at remediating residual vapors beneath the concrete slab of the facility. When comparing baseline sub-slab vapor data (collected before the active SSDS began operation in 2009) to the most recent compliance sampling results collected on April 27, 2018, PCE concentrations have been reduced by greater than **99.6%**. Further, when evaluated using the New York State Department of Health (NYSDOH) Soil Vapor/Indoor Air Matrices, the data indicates there is no longer a need for vapor mitigation or monitoring at the Site. If approved, the SSDS system will be permanently shut down and removed from the Site.

2.0 SITE OVERVIEW

2.1 Site Description

The Site is an irregularly shaped 7.45-acre parcel occupying 3131-3221 Long Beach Road, Oceanside, Nassau County, New York -- Section 43, Block 368, Lots 19, 20, 41 thru 45, 75 thru 92, 107 and 355 on the Official Land and Tax Map of Nassau County, New York (Figure 1). The Site contains four single-story buildings used for retail purposes with asphalt-paved driveways and parking areas.

The Site retail buildings, reported to have been constructed in 1958 and 1976, contain 21 tenants - including Buffalo Wild Wings (3131 Long Beach Road), Capital One Bank (3151 Long Beach Road), TJ Maxx (3221 Long Beach Road) and multiple tenants occupying addresses 3153 – 3199 Long Beach Road (Figure 2). The surrounding area is comprised of residential and commercial/retail properties.

2.2 Nature and Extent of Contamination

2.2.1 Soils

PCE and related compounds were identified in subsurface soils at the Site, related to a dry cleaning operation located in Retail Space 13 (Figure 2) within the mall. As of January 1, 2017, all dry cleaning related equipment/supplies were removed from Retail Space 13, which remained vacant until occupied by Ear Works Audiology on November 1, 2017. Affected soils were identified both within the facility, near the machine room, and in a grass covered area to the exterior of the rear door of the facility. The interior soils were addressed in 2005, prior to the property owner entering into the Brownfield Cleanup Program (BCP). The delineated exterior soils were identified as the primary source of groundwater contamination in later investigations and were the subject of Interim Remedial Measures (IRMs) designed to remove these soils/contaminants through excavation and disposal and soil vapor extraction.

Prior to the IRMs, PCE concentrations in the soils ranged from 0.51 mg/kg to 1,200 mg/kg (Table 1). The Track 1 Objective - Unrestricted Use SCO for PCE is 1.3 mg/kg.

2.2.2 Groundwater

PCE and related compounds were identified in groundwater at the Site, in groundwater monitoring wells MW-4 and MW-5. The groundwater monitoring well data, in conjunction with the soil data, indicated the plume originated in the vicinity of well MW-4 (located directly behind the rear door of the dry cleaner). From this point, the plume migrated in a southeastern direction, following the groundwater flow pattern, encompassing well MW-5.

Pre-remedial PCE concentrations in the groundwater ranged from non-detect to 360 µg/l in source area well MW-4, and from 74 µg/l to 160 µg/l in downgradient property boundary well MW-5 (Table 2). The Groundwater Standards/Criteria for PCE is 5.0 µg/l. Cis-1,2-Dichloroethene concentrations in the groundwater ranged from non-detect to 54 µg/l in MW-5. The Groundwater Standards/Criteria for cis-1,2-Dichloroethene is 5.0 µg/l. Vinyl Chloride concentrations in the ground water ranged from non-detect to 17 µg/l in MW-5. The Groundwater Standards/Criteria for vinyl chloride is 2.0 µg/l.

2.2.3 Vapor Intrusion

Indoor air quality samples were collected from the retail spaces immediately adjacent to the dry cleaner (i.e. 12 and 14). Pre-remediation PCE levels in indoor air samples ranged from 2.3 µg/m³ to 880 µg/m³. TCE levels in indoor air samples ranged from non-detect to 5.9 µg/m³ (Table 3).

Sub-slab soil vapor samples were collected from three soil vapor ports located within the dry cleaner, four soil vapor ports in adjacent retail spaces (i.e. 9, 12, 14 and 16) and one soil vapor port to the rear (east) of the dry cleaner. Pre-remediation PCE concentrations in the sub-slab soil vapor samples ranged from non-detect to 81,000 $\mu\text{g}/\text{m}^3$. TCE concentrations in the sub-slab soil vapor samples ranged from non-detect to 380 $\mu\text{g}/\text{m}^3$.

Pre-remediation soil vapor data indicates that the PCE plume encompassed approximately 945 square feet and the TCE plume encompassed approximately 415 square feet. Both plumes center on the dry cleaning operation.

2.3 Remedial Program

1. Interior soils were excavated/disposed in 2005, prior to the property owner entering into the BCP.
2. Exterior soils were excavated/disposed in 2010, to a maximum depth of 4.25 feet. Based upon compliance with the **Tract 1 Objectives - Unrestricted Use Soil Cleanup Objectives**, no further soil remediation activities were warranted.
3. In July 2009, an SSDS was constructed utilizing perforated plastic piping installed within the interior soil remediation excavation. After construction of the system, performance monitoring was conducted to demonstrate that the system was reducing impacts to indoor air. The remedial process will be considered complete when monitoring data indicates that the SSDS is no longer required to protect indoor air quality from being impacted by the soil vapor.
 - The 2014 Periodic Review Report recommended the installation of an additional soil vapor extraction point to better capture vapors beneath Retail Space #12. The NYSDEC concurred with this recommendation (Site Management Periodic Review Report Response Letter, November 17, 2014) and the point was installed on January 8, 9 and 12, 2015.
 - The 2017 Periodic Review Report documented the installation of a new, 2-leg horizontal vapor extraction trench on April 19, 2017 (Figure 3). The new extraction piping is 2 inches in diameter and approximately 22 feet in total length. This new piping was installed beneath the footprint of the former dry cleaner machine room.
4. Asymptotic concentration levels/trends of all groundwater contaminants were exhibited through the November 2013 groundwater sampling event. In 2013, an Environmental Easement to restrict groundwater use and prevent future exposure to any contamination remaining at the Site was executed and recorded.
 - The 2016 Periodic Review Report recommended that the groundwater monitoring program be terminated, based on the non-detect and asymptotic patterns demonstrated, and proper abandonment/closure of the existing groundwater monitoring wells in compliance with NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures." The NYSDEC approved termination of the groundwater monitoring program, but requested the wells not be abandoned until site closure has been attained.

3.0 REMEDY EVALUATION

As provided in the Final Engineering Report, dated December 2013, the selected remedy for the site is **No Further Action** with continued short-term operation of the SSDS (≤ 5 years), continued associated monitoring of indoor air quality with the following ICs and continued site management. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8.

3.1 Institutional Controls

A series of ICs is required by the Decision Document to prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination (groundwater). Adherence to these ICs on the Site is required by the Environmental Easement and will be implemented under the Site Management Plan (SMP).

These ICs are:

- Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.
- ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

3.2 Short Term Engineering Control - Sub-Slab Depressurization System

An active SSDS has been installed at the former Jef El dry cleaner (currently Ear Works Audiology/Retail Space 13). Procedures for monitoring the system are included in the Monitoring Plan (Section 3 of the SMP). Generally, remedial processes are considered completed when effectiveness monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.6 of NYSDEC DER-10.

The active SSDS will not be discontinued unless prior written approval is granted by the NYSDEC. In the event that monitoring data indicates that the SSDS is no longer required, a proposal to discontinue the system will be submitted by the property owner to the NYSDEC and NYSDOH. It is expected that the SSDS will be discontinued within 5 years (short-term engineering control).

3.3 Soil Vapor Intrusion Evaluation

Until the SSDS can be discontinued, prior to the construction of any enclosed structures located over areas that contain remaining contamination and/or the potential for soil vapor intrusion (SVI) has been identified (see Figure 10 of the SMP), an SVI evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. Alternatively, an SVI mitigation system may be installed as an element of the building foundation without first conducting an investigation. This mitigation system will include a vapor barrier and passive sub-slab depressurization system that is capable of being converted to an active system.

3.4 Excavation Work Plan

The Site has been remediated for unrestricted use. Any future intrusive work that encounters contamination (e.g. groundwater) will be performed in compliance with the Excavation Work Plan (EWP) that is attached

as Appendix C to the SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) prepared for the Site. Based on future changes to State and federal health and safety requirements, and specific methods employed by future contractors, the HASP and CAMP will be updated and re-submitted with the notification provided in Section B-1 of the EWP. Any intrusive construction work will be performed in compliance with the EWP, HASP and CAMP, and will be included in the periodic inspection and certification reports submitted under the Site Management Reporting Plan.

The Site owner and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all intrusive work, the structural integrity of excavations, proper disposal of excavation de-water, control of runoff from open excavations into remaining contamination, and for structures that may be affected by excavations (such as building foundations and bridge footings). The Site owner will ensure that Site development activities will not interfere with, or otherwise impair or compromise, any short-term engineering controls described in the SMP.

4.0 IC/EC PLAN COMPLIANCE

4.1 Introduction

Since remaining contaminated groundwater/soil vapor exists beneath the Site, IC/ECs are required to protect human health and the environment. This Section summarizes the IC/ECs required by the SMP at the Site, as well as provides a summary of the IC/EC performance and effectiveness. Additionally, as required by the SMP, the IC/EC Certification is provided in Appendix A.

4.2 Engineering Controls

4.2.1 Sub-Slab Depressurization System

As discussed in the SMP, an active SSDS has been installed at the former Jef El dry cleaner (currently Ear Works Audiology) and began operation in July 2009. This SSDS was installed by converting the existing 2-inch diameter horizontal screened sub-slab piping (installed following the 2005 interior excavation activities) to an active system. The 2-inch screened pipe is approximately 10 feet long. A 4.0-Hp regenerative blower was connected to the existing sub-slab piping via 4-inch diameter Schedule 40 PVC piping as shown on Figure 3. The blower is rated for 200 cubic feet per minute and 90 inches of water vacuum. The blower was installed on the roof of the dry cleaning facility and is housed in a weather tight enclosure. The weather tight enclosure has a ventilation fan and thermostat. A knock-out tank was also installed at the inlet to the blower to prevent water from being drawn into the blower. The knock-out tank has a high-level switch to shut down the blower if the knock-out tank fills with water. A dilution valve has been installed at the inlet to the blower to control the vacuum and flow rate. Vacuum gauges have been installed at the knock out tank and the inlet to the blower. A pressure gauge was installed on the discharge of the blower. The discharge from the blower was connected to a vapor phase carbon (VPGAC) drum and away from any roof air intakes.

In addition to the horizontal 2-inch diameter sub-slab piping, on January 8, 9, and 12, 2015 Roux Associates installed a 2-inch diameter vertical extraction point in accordance with the recommendations provided in Section 7.2 of the Periodic Review Report submitted to NYSDEC in September 2014. The purpose of this additional extraction point was to address sub-slab vapor levels persisting beneath Retail Space 12 (current wine store). This new sub-slab extraction point was located in the dry cleaner space, immediately adjacent to the north wall separating the dry cleaner from the wine store (Figure 3).

This extraction point was brought online on January 12, 2015, and significantly increased the vacuum influence beneath the former wine store (Retail Space 12) during SSDS operation.

Additionally, on September 1, 2015 (when the SSDS was non-operational due to faulty blower motor) a wind powered turbine was installed at the termination of the system effluent stack. The purpose of this wind turbine was to allow the system to operate in a passive mode while evaluating the permanent shutdown of the active SSDS with NYSDEC.

Lastly, on April 19, 2017, a second horizontal vapor extraction point was installed beneath the former dry cleaner (currently Ear Works Audiology). Specifically, this extraction trench was installed beneath the footprint of the former dry cleaner machine room (possible as the space was vacant). This horizontal point consists of a 15 foot leg and a 7 foot leg, configured perpendicular to each other (Figure 3). The new point was placed in an "L" shaped excavation approximately 95 square feet in area and 2.5 feet in depth. The 2-inch diameter perforated extraction piping was lined with a geotextile fabric prior to placement in the trench.

The trench was lined with 0.5 feet of gravel, and following installation, the excavation was backfilled with gravel.

A shut off valve was installed on this new horizontal extraction piping. The SSDS system was configured to allow for operation of the previously installed horizontal extraction pipe, the vertical extraction point, and the newest horizontal extraction trench concurrently, or using the shutoff valves such that any of the three points can be shut-down or throttled down.

This newest horizontal extraction trench was bought online on April 24, 2017, and significantly increases the vacuum influence beneath the former machine area and wine store (Retail Space 12) during SSDS operation.

4.2.2 SSDS Corrective Measures Completed

Following a period of blower inactivity due to failure of the blower motor (September to November 1, 2017), the motor was replaced in late October 2017 and the SSDS was re-started on November 1, 2017. The system was temporarily deactivated on February 22, 2018 prior to conducting sub-slab vapor, indoor air, soil vapor and ambient air sampling, and was re-started following the sampling event. Based on the favorable results of the February 22, 2018 sampling event, the system was deactivated on March 16, 2018, to conduct termination sub-slab vapor, indoor air, soil vapor and ambient air sampling on April 27, 2018 – and remains deactivated. Additional details of this non-routine maintenance event are provided in the O&M Compliance Plan Section of this report (Section 6.0).

4.3 Institutional Controls

4.3.1 Environmental Easement

As discussed in the SMP, ICs have been enacted to prevent exposure to remaining contamination by controlling disturbances of the subsurface contamination (soil vapor and groundwater). Adherence to the Institutional Controls that apply to the Controlled Property is required by the Environmental Easement, which set forth the following Site restrictions:

- The property may be used for Restricted Residential use provided that the ICs included in the SMP are employed.
- The use of the groundwater underlying the property is prohibited without testing and/or treatment rendering it safe for intended use;
- The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

4.3.2 Environmental Easement Granted

Pursuant to Article 71, Title 36 of the New York State Environmental Conservation Law, an Environmental Easement was granted for the Site on November 12, 2013. The NYSDEC accepted the Environmental Easement in order to ensure the protection of public health and the environment and to achieve the

requirements for remediation established for the Controlled Property until such time as the Environmental Easement is extinguished.

The controls and requirements listed in the NYSDEC approved SMP, including any and all NYSDEC approved amendments to the SMP, were incorporated into and made part of the Environmental Easement.

4.4 IC/EC Plan Compliance Conclusions and Recommendations

The system was deactivated on March 16, 2018 and remains deactivated. A Termination Plan is being submitted in conjunction with this Periodic Review Report recommending the requirements necessary to permanently terminate operation of the SSDS Engineering Control (EC), and the associated EC inspection, maintenance tasks and vapor monitoring task. This recommendation is based on the documented effectiveness of the SSDS system at remediating residual vapors beneath the concrete slab of the facility (greater than **99.6%** reduction in PCE sub-slab vapor concentrations). When evaluated using the NYSDOH Soil Vapor/Indoor Air Matrices, the data indicates there is no longer a need for vapor mitigation or monitoring at the Site. If approved, the SSDS system will be permanently shut down and removed from the Site.

4.5 IC/EC Certification

IC/ECs have been established for the Site in accordance with the SMP. ICs include the following:

- Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns; and
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.

Engineering Controls include the following:

- Short term (i.e., < 5 years) operation of the active SSDS.

As described above, the IC/ECs were in place, operational and protective of public health over a majority of the period covered by this Periodic Review Report monitoring period. An IC/EC Certification form is included as Appendix A.

5.0 MONITORING PLAN COMPLIANCE

5.1 Introduction

The Monitoring Plan presented in the SMP is designed to provide measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site and all affected media identified below. Monitoring of other short-term Engineering Controls is described in the following section (Section 6.0 O&M Plan Compliance).

Monitoring programs are summarized below in Table 5.1 and outlined in detail in Section 5.2. Results for this monitoring period are provided in Section 5.3.

Table 5.1: Monitoring Schedule			
Monitoring Program	Frequency*	Matrix	Analysis
SSVS	Annual	Soil Vapor	Vinyl Chloride, 1,1-Dichloroethene, Trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, and Tetrachloroethene (USEPA Method TO-15)
SSVS	Annual	Indoor Air Quality	Vinyl Chloride, 1,1-Dichloroethene, Trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, and Tetrachloroethene (USEPA Method TO-15)

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

5.2 Media Monitoring Program

5.2.1 Sub-Slab Vapor, Indoor Air, Soil Vapor and Ambient Air Quality Monitoring

Vapor and Indoor Air Quality monitoring will be performed on an annual basis to assess the performance of the remedy. Indoor air quality samples, sub-slab vapor samples, soil vapor, and outdoor (ambient) air samples are to be collected from the following locations (numbers correspond to the "Retail Space" numbers, as shown in Figure 4):

Indoor Air Quality

Retail Space 14 (IAQ-Book)
Retail Space 12 (IAQ-Vac)

Sub-Slab Vapor

Retail Space 14 (VS-Book)
Retail Space 12 (VS-Vac)
Retail Space 13 (DCF, DCR, MRE, Fence)

Ambient

Retail Space 10 (rear)

All sub-slab vapor, indoor air, soil vapor and ambient air samples were collected following the procedures outlined in the SMP. The annual soil vapor sampling event was conducted on February 22, 2018. A confirmatory soil vapor sampling event was conducted on April 27, 2018. The SSDS was operational for approximately four months (November 2017 through February 2018) prior to the collection of the vapor samples. Note that since there is no longer dry cleaning operations or a dry cleaning drop off store present in Retail Space 13 (currently occupied by Ear Works Audiology), and since this data will be used to support SSDS termination, Indoor Air Quality samples were also collected from within the former dry cleaner (Retail

Space 13). Sample "IA-DCF" and sample "IA-DCR" were indoor air samples collected from the front and rear of the former dry cleaner, respectively.

5.3 Monitoring Program Results

5.3.1 Sub-Slab Vapor, Indoor Air, Soil Vapor and Ambient Air Quality Monitoring Results

The results for the annual vapor sampling event conducted on February 22, 2018, and subsequent confirmatory sampling event conducted on April 27, 2018, are provided in Table 3, attached. For reference, in addition to providing the analytical results for these two events, Table 3 provides the analytical results for all vapor sampling events conducted at the Site since 2007 (prior to the startup of the SSDS on July 30, 2009). All data packages were reviewed by a qualified data validator, and a Data Usability Summary Report (DUSR) was prepared. All data was found to be usable without modification. The following sections provide a summary of the February 22 and April 27, 2018 vapor data results.

Laboratory analytical data sheets are provided in Appendix B. DUSRs are provided in Appendix C.

5.3.1.1 Sub-Slab Vapor Results

PCE and TCE were the only analytes detected in the sub-slab vapor samples. Concentrations from the February 22 and April 27, 2018 sampling events were comparable, with the highest PCE and TCE concentrations being reported in sample VS-Vac, collected from Retail Space 12 - directly opposite the former machine room:

PCE - 438 $\mu\text{g}/\text{m}^3$ on February 22, 2018 and 228 $\mu\text{g}/\text{m}^3$ on April 27, 2018
TCE - 2.79 $\mu\text{g}/\text{m}^3$ on February 22, 2018 and 1.39 $\mu\text{g}/\text{m}^3$ on April 27, 2018

5.3.1.2 Indoor Air Results

PCE was the only analyte detected in the facility indoor air, with no concentration being greater than the NYSDOH Ambient Air Guideline for PCE of 30 $\mu\text{g}/\text{m}^3$ (September 2013).

5.3.1.4 Sub-Slab/Indoor Air Results Evaluation

The sub-slab and indoor air results described above and presented in Table 3 were compared to the NYSDOH Soil Vapor/Indoor Air Matrices for TCE and PCE (Matrix 1 and 2, respectively). A summary of this evaluation is provided below:

Retail Unit	Action Required with Respect to PCE	Action Required with Respect to TCE
Retail Unit 12 (Wine Store)	No Further Action	No Further Action
Retail Unit 13 (Ear Work Audiology)	No Further Action	No Further Action
Retail Unit 14 (Yogurt Store)	No Further Action	No Further Action

The data collected in February 2018 shows a substantial decrease in PCE and TCE vapor concentrations (over 99.6% in sub-slab, Appendix D), confirming that the additional 2017 soil excavation activities and operation of the expanded SSDS have permanently reduced vapor impacts beneath the Site. Additionally, the vapor data generated in April 2018 (collected after more than 1 month with the SSDS inactive) show minimal rebound and vapor concentrations remain low (below NYSDOH monitoring or mitigation levels). Based on this evaluation, the results indicate that no further action is required based on PCE and TCE

concentrations in Retail Spaces 12, 13 and 14, and as such, a Termination Plan for decommissioning the SSDS system was prepared submitted in conjunction with this Periodic Review Report.

5.4 Site-Wide Inspection

5.4.1 Inspection Procedures

As presented in the SMP, site-wide inspections will be performed on a regular schedule at a minimum of once a year. Site-wide inspections will also be performed after all severe weather conditions that may affect Engineering Controls or monitoring devices. During these inspections, an inspection form will be completed, for the purpose of compiling sufficient information to assess the following:

- Compliance with all ICs, including Site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General Site conditions at the time of the inspection;
- The Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the Operation and Maintenance Plan; and
- Confirm that Site records are up to date.

5.4.2 Inspection Findings

A site-wide inspection was conducted on March 2, 2018 and included a reconnaissance of the Site exterior and the interior of Retail Space 13. A copy of the Site-Inspection Form is provided in Appendix E and summarized below.

- The Site was found to be in compliance with all ICs, as the Site usage has not changed, groundwater beneath the Site is not being used and the remaining contaminated material has not been disturbed.
- All potential sources have been removed from Retail Space 13, currently occupied by Ear Works Audiology.
- The SSDS was operational upon arrival. There were no odors found within either Retail Space 12, 13 or 14.
- The Site was reported to be in good condition with no foreign debris being identified on the grounds and all structures being of sound construction.
- A review of the Site records indicated all inspection, operation and maintenance, and monitoring activities have been completed, as outlined in the SMP.
- No additional observations relevant to the remedy were documented.

5.5 Monitoring Plan Compliance Conclusions and Recommendations

In accordance with the Termination Plan (submitted in conjunction with this report), as vapor results fall within the "No Further Action" parameters set forth in the NYSDOH Soil Vapor/Indoor Air Matrices 1 and 2, the NYSDEC will be petitioned to fully terminate and remove the SSDS system.

6.0 OPERATION & MAINTENANCE PLAN COMPLIANCE

6.1 Introduction

Section 4.2 of the SMP describes the operation and maintenance (O&M) activities that are to be performed at the Site. These activities include:

- Sub-slab vapor monitoring (described above in Section 5.0);
- Performance monitoring of the SSDS; and
- Inspection and maintenance of the SSDS.

This section details the O&M Plan activities that are currently implemented as part of the SMP to achieve overall effectiveness of the remedy selected for the site.

6.1.1 O&M Plan Requirements

Table 6.1.1 outlines the O&M Plan components as detailed in the SMP.

Table 6.1.1 O&P Plan Components	
Component	Frequency
Site Inspection & Maintenance	Monthly
Regulatory Reporting	Annual Periodic Review Report

6.2 Evaluation of O&M Plan Activities

The following sections describe the actions taken to satisfy the O&M components and provide a summary of the current status of the O&M component.

6.2.1 Site Inspection and Maintenance

The Site inspection and routine maintenance activities include visual inspections, operating data collection and general maintenance. Visual inspection is the routine part of the SSDS operator's activities.

The specific routine maintenance tasks completed as part of the SMP are outlined below:

- Inspect SSDS piping to confirm operation of appropriate valves (i.e., dilution valve);
- Inspect vacuum/pressure gauges for proper operation;
- Check and clean air filter on knockout tank; and
- Check for the presence of water in the knockout tank.

A summary of the Site Inspection and Maintenance tasks completed during this PRR period are provided below.

Date	Major Observations	Follow Up Completed (if applicable)
5/23/2017	System Operational (3 extraction points operating). Vacuum readings comparable to previous inspection rounds.	None required
8/8/2017	System Operational (3 extraction points operating). Vacuum readings comparable to previous inspection rounds.	None required
8/18/2017	System Operational (3 extraction points operating). Vacuum readings comparable to previous inspection rounds.	None required
9/25/2017	Blower found to be non-operational	Blower failure was a result of manufacturer's defect, and was replaced with identical, new blower.
11/1/2017	Blower replace with new, identical part and re-started. SSDS is fully operational.	None required
11/9/2017	System Operational (3 extraction points operating). Vacuum readings comparable to previous inspection rounds.	None required
12/6/2017	System Operational (3 extraction points operating). Vacuum readings comparable to previous inspection rounds.	None required
1/18/2018	System Operational (3 extraction points operating). Vacuum readings comparable to previous inspection rounds.	None required
2/22/2018	System Operational. System shutdown for full vapor sampling round and restarted on same day.	None required
3/16/2018	System Operational. System shutdown as part of termination plan.	None required
4/27/2018	System shutdown as part of termination plan. Full Vapor sampling round completed.	None required

6.2.2 SSDS Non-Routine Maintenance

Due to a manufacturing defect, the blower was inoperable between September and October 2017, with the motor being replaced and restated on November 1, 2017. The SSDS was operational up to February 22, 2018, when the system was deactivated for annual sampling on February 22, 2018. The system was again operational through March 16, 2018, when the system was deactivated for termination sampling.

7.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

The following sections present conclusions from inspections and maintenance activities and summarize recommendations for modifications the SSDS and the Monitoring Plan and O&M Plan.

7.1 Conclusions

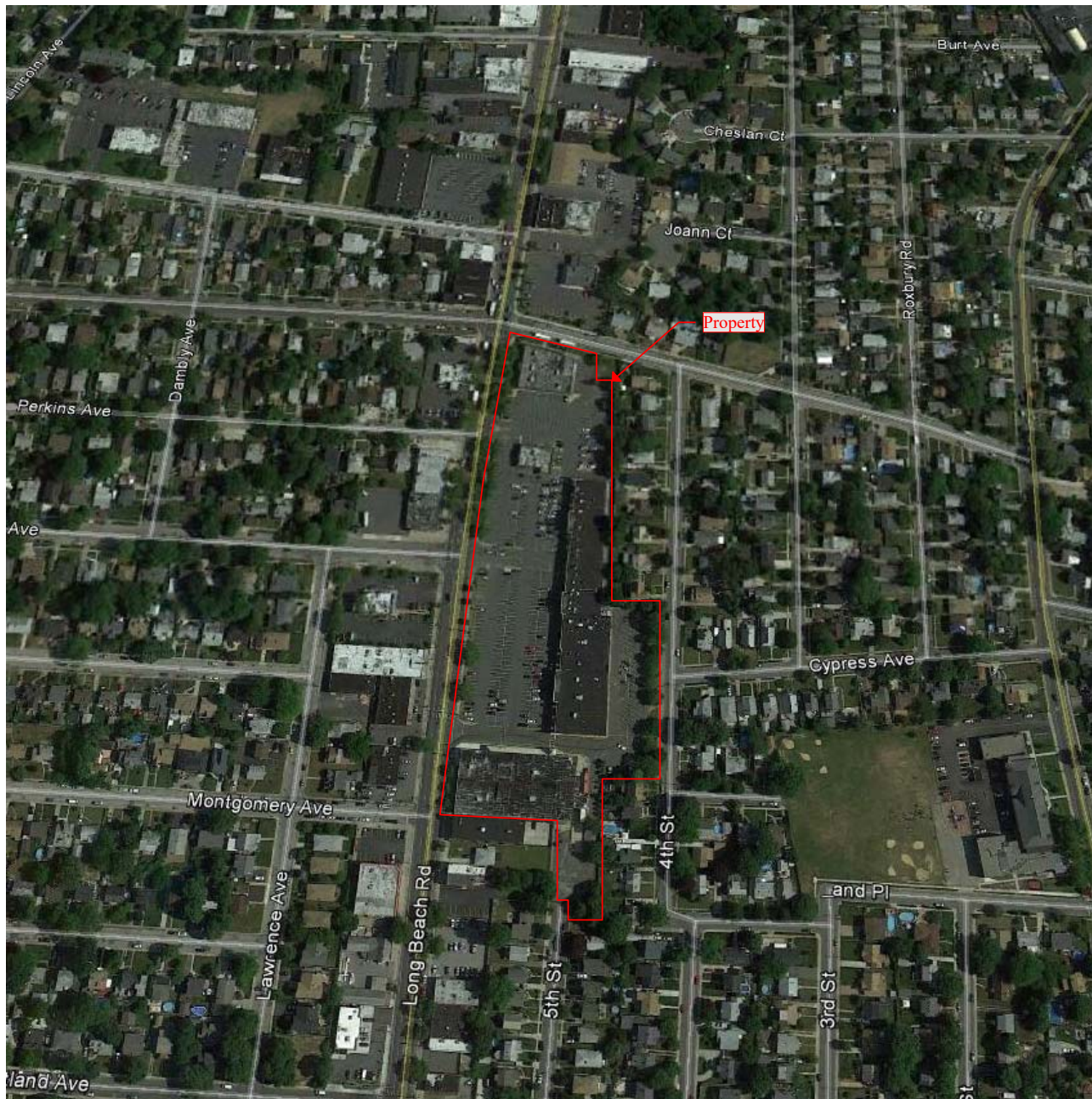
1. A faulty blower motor was replaced in later October 2017 and the SSDS restarted on November 1, 2017. The system was operational through March 16, 2018, when it was deactivated as part of the SSDS termination plan. All three extraction points (the original horizontal trench, the vertical extraction point, and the new horizontal extraction trench) were fully functional.
2. The SSDS was deactivated prior to conducting annual and termination sub-slab vapor, indoor air, soil vapor and ambient air sampling.
3. February 22 and April 27, 2018 analytical data reported all indoor air concentrations below the NYSDOH Indoor Air guidance values in all retail spaces tested. When sub-slab and indoor air results are compared to the NYSDOH decision matrices, "No Further Action" is necessary.

7.2 Recommendations

1. SSDS EC System

It is recommended that SSDS system remain deactivated pending NYSDEC review/approval of the Termination Plan (submitted in conjunction with this Periodic Review Report).

FIGURES



235 North Duke Street, Lancaster, PA 17602
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www.relianceenv.com

Figure 1:
 Site Location Map

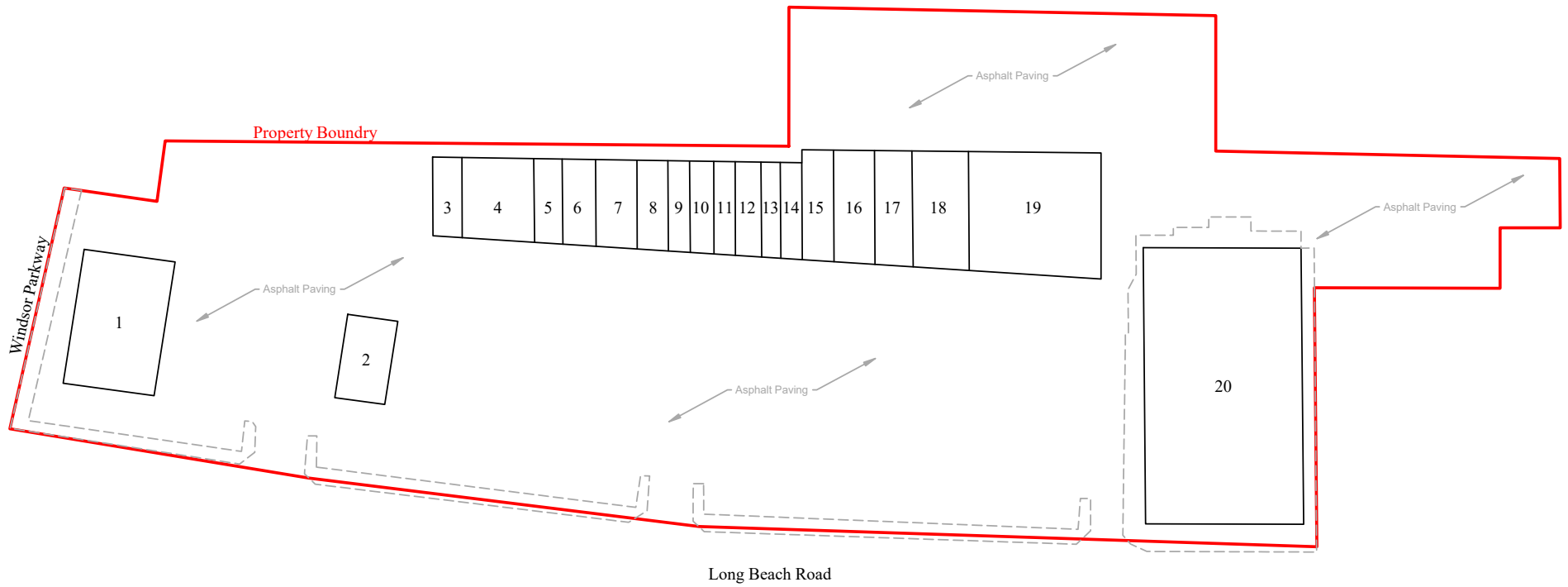
Google Earth (June 17, 2010)

Oceanside Plaza

3131-3221 Long Beach Road, Oceanside, NY

Town of Hempstead, Nassau County

Scale: 1" = 350'



- 1 : Buffalo Wild Wings
- 2 : Capital One Bank
- 3 : Massage Envy
- 4 : Capri Nail & Spa
- 5 : Chipotle Mexican Grill
- 6 : Chipotle Mexican Grill
- 7 : Gamestop
- 8 : Spring Communications
- 9 : Lifetime Fashion
- 10 : Temptations Boutique
- 11 : Nassau Vision Center
- 12 : The Cellar Enterprises
- 13 : Ear Works Audiology
- 14 : Swirls & Twirls Yogurt
- 15 : Kravitt Jewelers
- 16 : Pizziola Italian Restaurant
- 17 : Jos. A Bank
- 18 : Vacant
- 19 : Rite Aid
- 20 : TJ Maxx



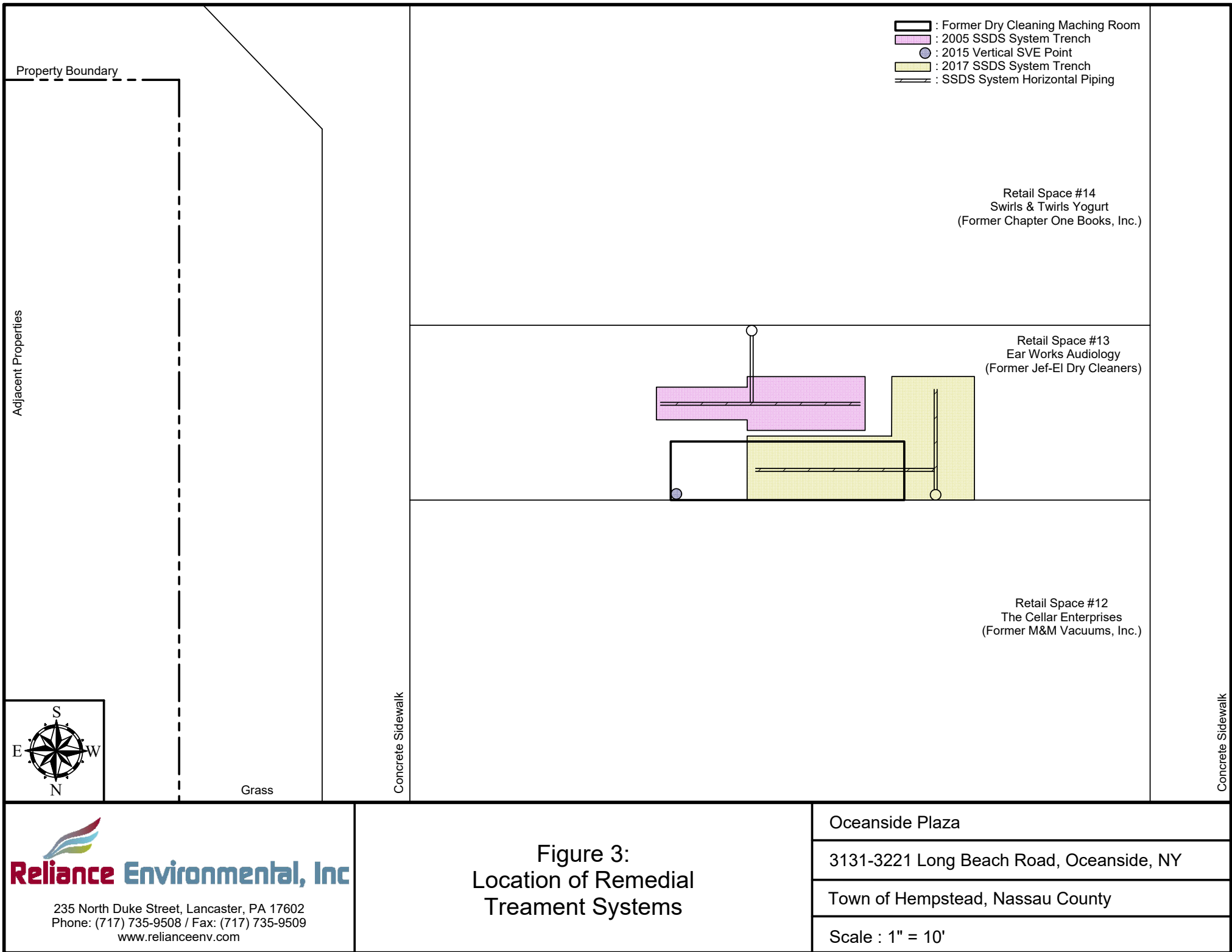
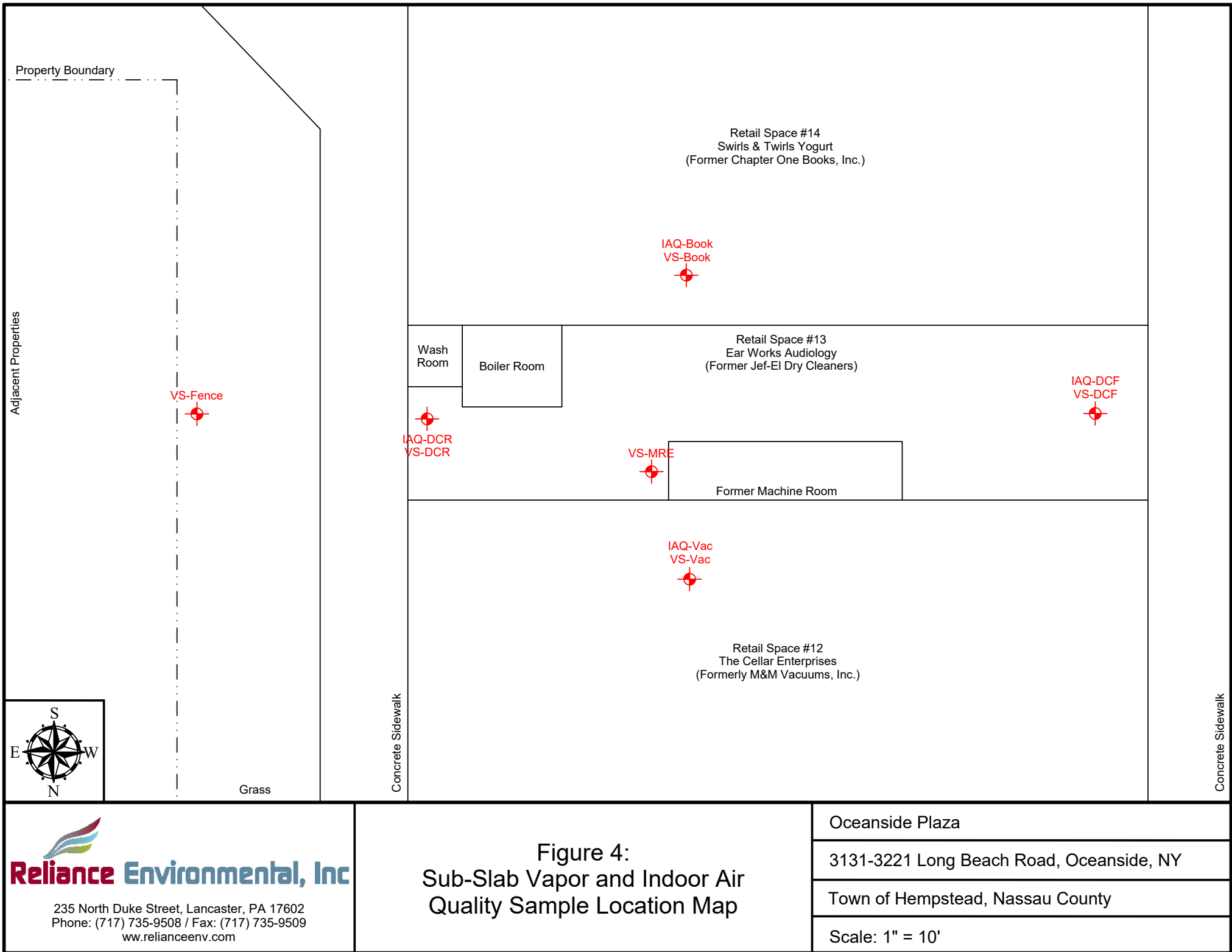


Figure 3:
Location of Remedial
Treatment Systems



TABLES

TABLE 1 Remedial Investigation Soil Contamination Summary Oceanside Plaza (NYSDEC Site Number: C130158) 3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York								
Sample ID	Sample Date	Sample Depth (feet)	1,1-Dichloroethene (mg/kg)	cis-1,2-Dichloroethene (mg/kg)	Tetrachloroethene (mg/kg)	Toluene (mg/kg)	Trichloroethene (mg/kg)	Vinyl Chloride (mg/kg)
SCO ^a	na	na	0.33	0.25	1.3	0.70	0.47	0.02
BK-Ocean-1	7/13/2004	8	ND	ND	ND	ND	ND	ND
BK-Ocean-2	7/13/2004	6	ND	ND	0.51	ND	ND	ND
BK-Ocean-3	7/13/2004	6	ND	ND	0.67	ND	ND	ND
BK-Ocean-4	7/13/2004	2	ND	ND	85	ND	0.11	ND
BKO-1	2/23/2005	1	ND	ND	0.41	ND	ND	ND
		3	ND	ND	0.075	ND	ND	ND
BKO-2	2/23/2005	1	ND	ND	0.20	ND	ND	ND
		3	ND	ND	0.14	ND	ND	ND
BKO-3	2/23/2005	1	ND	ND	1.6	ND	0.0017	ND
		3	ND	ND	0.057	ND	ND	ND
		7	ND	ND	0.016	ND	ND	ND
BKO-SB1 ^b	10/1/2007	3	ND	ND	ND	4.1	ND	ND
BKO-SB2	10/1/2007	18	ND	ND	0.52	ND	ND	ND
BKO-SB3	10/1/2007	12	ND	ND	740	ND	ND	ND
BKO-SB4	10/1/2007	18	ND	ND	1,200	ND	ND	ND
E1	12/20/10	39	ND	ND	ND	ND	ND	ND
		80 ^c	ND	ND	ND	ND	ND	ND
E2	12/20/10	51	ND	ND	0.031	ND	ND	ND
		80c	ND	ND	ND	ND	ND	ND
E3	12/20/10	42	ND	ND	0.005	ND	ND	ND
		80c	ND	ND	ND	ND	ND	ND
E4	7/21/09	42	ND	ND	1.1	ND	ND	ND
E5	7/21/09	18	ND	ND	1.3	ND	ND	ND
E6	12/20/10	24	ND	ND	0.022	ND	ND	ND
		80c	ND	ND	0.019	ND	ND	ND

^aTrack 1 - Unrestricted Use Soil Cleanup Objectives (Chapter 4, Subpart 375-6, Table 375-6.8(a))

^bCollected from storm water dry well located in the eastern parking lot.

^cSample collected at the soil/water interface.

na = Not Applicable.

ND = Non Detect.

BOLD = Exceeds the Track 1 Soil Cleanup Objectives.

TABLE 2
Remedial Investigation Ground Water Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
CAS Registry Number			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
NYSDEC GWQS ^a			5.0	5.0	5.0	5.0	5.0	2.0	10
MW-1	11/16/2005	5.54	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	2/22/2006	5.77	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	5.79	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	10/1/2007	6.51	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-2	11/16/2005	6.06	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	12
	2/22/2006	6.28	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	6.23	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	13
	10/1/2007	6.99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-3	11/16/2005	6.53	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	2/22/2006	6.74	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	6.78	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	10/1/2007	7.48	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA

NA = Not Analyzed.

All concentrations are reported in µg/l.

^aGround Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)

BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
Remedial Investigation Ground Water Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
CAS Registry Number			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
NYSDEC GWQS ^a			5.0	5.0	5.0	5.0	5.0	2.0	10
MW-4	11/16/2005	6.60	<2.0	<2.0	360	<2.0	<1.0	<2.0	<2.0
	2/22/2006	6.82	<2.0	<2.0	230	<2.0	<1.0	<2.0	<2.0
	5/17/2006	6.84	<2.0	<2.0	100	<2.0	<1.0	<2.0	<2.0
	10/1/2007	7.57	<5.0	<5.0	110	<5.0	<5.0	<5.0	NA
	7/21/2009	6.90	<0.8	<0.8	77	<0.8	<1.0	<1.0	NA
	10/7/2009	7.33	<5.0	<5.0	21	<5.0	<5.0	<5.0	NA
	1/21/2010	7.09	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/7/2010	5.95	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/22/2010	7.53	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/26/2011	7.05	<5.0	<5.0	11	<5.0	<5.0	<5.0	NA
	7/19/2011	7.49	<5.0	<5.0	10	<5.0	<5.0	<5.0	NA
	10/26/2011	7.00	<5.0	<5.0	10	<5.0	<5.0	<5.0	NA
	1/24/2012	7.13	<5.0	<5.0	11	<5.0	<5.0	<5.0	NA
	4/25/2012	7.23	<5.0	<5.0	9	<5.0	<5.0	<5.0	NA
	7/20/2012	7.21	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/18/2012	7.46	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/13/2013	7.94	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	7.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	12/9/2015	7.60	<0.5	<0.5	3	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.

All concentrations are reported in µg/l.

^aGround Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)

BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
Remedial Investigation Ground Water Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
CAS Registry Number			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
NYSDEC GWQS ^a			5.0	5.0	5.0	5.0	5.0	2.0	10
MW-5	7/21/2009	6.44	<0.8	<0.8	160	<0.8	1.00	<1.0	NA
	10/7/2009	6.88	<5.0	54	74	<5.0	<5.0	17	NA
	1/21/2010	6.64	<5.0	<5.0	80	<5.0	<5.0	<5.0	NA
	4/7/2010	5.49	<5.0	<5.0	37	<5.0	<5.0	<5.0	NA
	7/22/2010	7.06	<5.0	74	69	<5.0	<5.0	<5.0	NA
	1/26/2011	6.56	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/19/2011	7.03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/26/2011	6.55	<5.0	57	8	<5.0	<5.0	13	NA
	1/24/2012	6.67	<5.0	80	7	<5.0	<5.0	10	NA
	4/25/2012	6.76	<5.0	11	10	<5.0	<5.0	<5.0	NA
	7/20/2012	6.75	<5.0	9	14	<5.0	<5.0	<5.0	NA
	10/18/2012	6.99	<5.0	11	10	<5.0	<5.0	<5.0	NA
	11/13/2013	7.46	<5.0	13	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	6.90	<0.5	18	2	<0.5	<0.5	0.8	NA
	12/9/2015	7.16	<0.5	<0.5	3	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.

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Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
CAS Registry Number			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
NYSDEC GWQS ^a			5.0	5.0	5.0	5.0	5.0	2.0	10
Duplicate (MW-4)	10/1/2007	na	<5.0	<5.0	160	<5.0	<5.0	<5.0	NA
	7/21/2009	na	<0.8	<0.8	75	<0.8	<1.0	<1.0	NA
	10/7/2009	na	<5.0	<5.0	20	<5.0	<5.0	<5.0	NA
	1/21/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/7/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/22/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/26/2011	na	<5.0	<5.0	13	<5.0	<5.0	<5.0	NA
	7/19/2011	na	<5.0	<5.0	10	<5.0	<5.0	<5.0	NA
	10/26/2011	na	<5.0	<5.0	10	<5.0	<5.0	<5.0	NA
	1/24/2012	na	<5.0	<5.0	12	<5.0	<5.0	<5.0	NA
	4/25/2012	na	<5.0	<5.0	9	<5.0	<5.0	<5.0	NA
	7/20/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/18/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/13/2013	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	12/9/2015	na	<0.5	<0.5	3	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.

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CAS Registry Number			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
NYSDEC GWQS ^a			5.0	5.0	5.0	5.0	5.0	2.0	10
Field Blank	11/16/2005	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	2/22/2006	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	10/1/2007	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/21/2009	na	<0.8	<0.8	<0.8	<0.8	<1.0	<1.0	NA
	10/7/2009	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/21/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/7/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/22/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/26/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/19/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/26/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/24/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/25/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/20/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/18/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/13/2013	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	12/9/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.

All concentrations are reported in µg/l.

^aGround Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)

BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
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Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
CAS Registry Number			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
NYSDEC GWQS ^a			5.0	5.0	5.0	5.0	5.0	2.0	10
Trip Blank	11/16/2005	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	2/22/2006	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	10/1/2007	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/21/2009	na	<0.8	<0.8	<0.8	<0.8	<1.0	<1.0	NA
	10/7/2009	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/21/2020	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/7/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/22/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/26/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/19/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/26/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/24/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/25/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/20/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/18/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/13/2013	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	12/9/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.

All concentrations are reported in µg/l.

^aGround Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)

BOLD = Exceeds the Ground Water Quality Standard.

TABLE 3 Remedial Investigation Soil Vapor Data Oceanside Plaza (NYSDEC Site Number: C130158) 3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York								
Sample Location	Sample Date	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Sub-Slab Vapor								
Chapter One Books, Inc. (Retail Space 14)	12/6/2007	48U	48U	48U	8,100	48U	64U	31U
	10/28/2009	0.63U	0.63U	0.63U	2.5	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	467	0.79U	7	0.51U
	3/1/2012	3.2U	3.1U	3.2U	232	3.2U	1.2	2U
	12/18/2012	3.2U	3.1U	3.2U	131	3.2U	0.86U	2U
	3/20/2014	0.793U	0.793U	0.793U	187	0.793U	1.07U	0.511U
	3/25/2015	0.793U	0.793U	0.793U	4.92	0.793U	1.07U	0.511U
	9/21/2015	0.159 U	0.159 U	0.159 U	363	0.159 U	1.76	0.102 U
	2/22/2018	0.793 U	0.793 U	0.793 U	5.62	0.793 U	1.07 U	0.511 U
	4/27/2018	0.079 U	0.079 U	0.079 U	6.2	0.079 U	0.118	0.051 U
Vino 100 (Retail Space 12)	12/6/2007	120U	120U	120U	18,000	120U	160U	77U
	10/28/2009	0.63U	0.63U	0.63U	2.4	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	4,180	0.79U	78.5	0.51U
	3/1/2012	44U	43U	44U	21,100	44U	97.8	28U
	12/18/2012	13U	13U	13U	9,830	13U	36U	8.2U
	3/20/2014	3.96U	3.96U	3.96U	2,070	3.96U	11.8	2.56U
	3/25/2015	0.793 U	0.793 U	0.793 U	66.3	0.793 U	1.07 U	0.511 U
	9/21/2015	0.396 U	0.396 U	0.396 U	1,660	0.396 U	10.5	0.256 U
	2/22/2018	0.793 U	0.793 U	0.793 U	438	0.793 U	2.79	0.511 U
	4/27/2018	0.079 U	0.079 U	0.079 U	228	0.079 U	1.39	0.051 U
Jef-EI Dry Cleaners (DCF) (Retail Space 13)	12/6/2007	1.2U	1.2U	1.2U	350	1.2U	2.5	0.77U
	10/28/2009	0.63U	0.63U	0.63U	2.2	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	150	0.79U	2.6	0.51U
	3/1/2012	3.2U	3.1U	3.2U	766	3.2U	3.7	2U
	12/18/2012	3.2U	3.1U	3.2U	11	3.2U	0.86U	2U
	3/20/2014	0.793U	0.793U	0.793U	4.62	0.793U	1.07U	0.511U
	3/25/2015	0.793 U	0.793U	0.793U	21.9	0.793U	1.07U	0.511U
	9/21/2015	0.079 U	0.079 U	0.079 U	78	0.079 U	0.43	0.072
	2/22/2018	0.793 U	0.793 U	0.793 U	1.36 U	0.793 U	1.07 U	0.511 U
	4/27/2018	0.079 U	0.079 U	0.079 U	1.76	0.079 U	0.683	0.051 U

All concentrations are reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

^aNYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (Indoor Air Quality Only).

^bAmbient air quality sample.

BOLD = Exceeds the Air Guideline Value.

DNE = Does Not Exist.

TABLE 3 Remedial Investigation Soil Vapor Data Oceanside Plaza (NYSDEC Site Number: C130158) 3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York								
Sample Location	Sample Date	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Indoor Air Quality								
Air Guideline Value ^a		DNE	DNE	DNE	30	DNE	2	DNE
Chapter One Books, Inc. (Retail Space 14)	12/6/2007	0.63U	0.63U	0.63U	88	0.63U	5.9	0.41U
	9/2/2009	2U	2U	2U	500	2U	2.7U	1.3U
	10/28/2009	0.63U	0.63U	0.63U	11	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	2.3	0.79U	0.21U	0.51U
	3/1/2012	0.79U	0.79U	0.79U	32	0.79U	0.21U	0.51U
	12/18/2012	0.79U	0.79U	0.79U	8.1	0.79U	0.33	0.51U
	3/20/2014	0.079U	0.099	0.079U	2.62	0.099	0.134	0.051U
	3/25/2015	0.079U	0.167	0.079U	39.8	0.167	0.231	0.051U
	9/21/2015	0.079U	0.079U	0.079U	9.9	0.079U	0.296	0.051U
	2/22/2018	0.079 U	0.079 U	0.079 U	0.366	0.079 U	0.107 U	0.051 U
	4/27/2018	0.079 U	0.079 U	0.079 U	0.163	0.079 U	0.107 U	0.051 U
Vino 100 (Retail Space 12)	12/6/2007	0.63U	0.63U	0.63U	2.6	0.63U	0.86U	0.41U
	9/2/2009	4U	4U	4U	880	4U	5.4U	2.6U
	10/28/2009	0.63U	0.63U	0.63U	7.5	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	5.2	0.79U	0.21U	0.51U
	3/1/2012	0.79U	0.79U	0.79U	28	0.79U	0.21U	0.51U
	12/18/2012	0.79U	0.79U	0.79U	13	0.79U	0.21U	0.51U
	3/20/2014	0.079U	0.079U	0.079U	3.4	0.079U	0.107U	0.051U
	3/25/2015	0.079U	0.079U	0.079U	3.31	0.079U	0.107U	0.051U
	9/21/2015	0.079 U	0.079U	0.079U	16.7	0.079U	0.107U	0.051U
	2/22/2018	0.079 U	0.079 U	0.079 U	0.475	0.079 U	0.107 U	0.051 U
	4/27/2018	0.079 U	0.079 U	0.079 U	0.366	0.079 U	0.107 U	0.051 U
Jef-EI Dry Cleaners (DCR) (Retail Space 13)	9/21/2015	0.079 U	0.079 U	0.079 U	117	0.079 U	0.403	0.051 U
	2/22/2018	0.079 U	0.079 U	0.079 U	0.224	0.079 U	0.107 U	0.051 U
	4/27/2018	0.079 U	0.079 U	0.079 U	0.136	0.079 U	0.107 U	0.051 U
Jef-EI Dry Cleaners (DCF) (Retail Space 13)	9/21/2015	0.079 U	0.079 U	0.079 U	60.5	0.079 U	0.242	0.051 U
	2/22/2018	0.079 U	0.079 U	0.079 U	0.21	0.079 U	0.107 U	0.051 U
	4/27/2018	0.079 U	0.079 U	0.079 U	0.136 U	0.079 U	0.107 U	0.051 U

All concentrations are reported in micrograms per cubic meter (µg/m³).

^aNYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (Indoor Air Quality Only).

^bAmbient air quality sample.

BOLD = Exceeds the Air Guideline Value.

DNE = Does Not Exist.

TABLE 3 Remedial Investigation Soil Vapor Data Oceanside Plaza (NYSDEC Site Number: C130158) 3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York								
Sample Location	Sample Date	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Sub-Slab Vapor								
Jef-EI Dry Cleaners (DCR) (Retail Space 13)	12/6/2007	320U	320U	320U	81,000	320U	430U	200U
	10/28/2009	0.63U	0.63U	0.63U	2.9	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	3,480	0.79U	21	0.51U
	3/1/2012	3.2U	3.1U	3.2U	1,990	3.2U	2.2	2U
	12/18/2012	3.2U	3.1U	3.2U	164	3.2U	0.86U	2U
	3/20/2014	0.793U	0.793U	0.793U	148	0.793U	1.07U	0.511U
	3/25/2015	0.793U	0.793U	0.793U	8.88	0.793U	1.07U	0.511U
	9/21/2015	0.396 U	0.396 U	0.396 U	1,520	0.396 U	5.59	0.256 U
	2/22/2018	0.793 U	0.793 U	0.793 U	8.48	0.793 U	1.07 U	0.511 U
	4/27/2018	0.079 U	0.079 U	0.079 U	6.4	0.079 U	0.93	0.051 U
Jef-EI Dry Cleaners (MRE) (Retail Space 13)	12/6/2007	280U	280U	280U	50,000	280U	380	180U
	9/4/2009	3.2U	3.2U	3.2U	37	3.2U	51	2U
	10/28/2009	0.63U	0.63U	0.63U	2.5	0.63U	15	0.41U
	1/13/2012	0.79U	0.79U	0.79U	1,080	0.79U	56.4	0.51U
	3/1/2012	3.2U	3.1U	3.2U	902	3.2U	3.5	2U
	12/18/2012	3.2U	3.1U	3.2U	205	3.2U	0.86U	2U
	3/20/2014	1.98U	1.98U	1.98U	963	1.98U	9.14	1.28U
	3/25/2015	0.793 U	0.793 U	0.793 U	23.2	0.793 U	1.07 U	0.511 U
	9/21/2015	0.793 U	0.793 U	0.793 U	2,820	0.793 U	15.2	0.511 U
	2/22/2018	0.793 U	0.793 U	0.793 U	54.6	0.793 U	1.07 U	0.511 U
	4/27/2018	0.079 U	0.079 U	0.079 U	67.1	0.079 U	1.41	0.051 U
Jef-EI Dry Cleaners (Fence) (Retail Space 13)	12/6/2007	1.2U	1.2U	1.2U	240	1.2U	1.6U	0.77U
	1/13/2012	0.79U	0.79U	0.79U	46	0.79U	0.39	0.51U
	3/1/2012	3.2U	3.1U	3.2U	224	3.2U	0.86U	2U
	12/18/2012	3.2U	3.1U	3.2U	1.1U	3.2U	0.86U	2U
	3/20/2014	0.793U	0.793U	0.793U	1.36U	0.793U	1.07U	0.511U
	3/25/2015	0.793U	0.793U	0.793U	10.7	0.793U	1.07U	0.511U
	9/21/2015	0.079 U	0.079 U	0.079 U	102	0.079 U	0.113	0.102
	2/22/2018	0.793 U	0.793 U	0.793 U	3.99	0.793 U	1.07 U	0.511 U
	4/27/2018	0.079 U	0.079 U	0.079 U	0.136	0.079 U	0.994	0.051 U

All concentrations are reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

^aNYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (Indoor Air Quality Only).

^bAmbient air quality sample.

BOLD = Exceeds the Air Guideline Value.

DNE = Does Not Exist.

TABLE 3 Remedial Investigation Soil Vapor Data Oceanside Plaza (NYSDEC Site Number: C130158) 3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York								
Sample Location	Sample Date	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Sub-Slab Vapor								
Pizzaiola (Retail Space 13)	6/14/2010	0.63U	0.63U	0.63U	5	0.63U	0.86U	0.41U
Protass (Retail Space 9)	6/14/2010	0.63U	0.63U	0.63U	17	0.63U	0.86U	0.41U
Ambient								
AMB ^b	12/6/2007	0.63U	0.63U	0.63U	1.1U	0.63U	0.86U	0.41U
	9/2/2009	0.63U	0.63U	0.63U	1.1U	0.63U	0.86U	0.41U
	6/14/2010	0.63U	0.63U	0.63U	13	0.63U	1.40	0.41U
	1/13/2012	0.79U	0.79U	0.79U	0.6	0.79U	0.21U	0.51U
	3/1/2012	0.79U	0.79U	0.79U	0.57	0.79U	0.21U	0.51U
	12/18/2012	0.79U	0.79U	0.79U	1.2	0.79U	0.21U	0.51U
	9/21/2015	0.079 U	0.079 U	0.079 U	0.197	0.079 U	0.107 U	0.051 U
	2/22/2018	0.079 U	0.079 U	0.079U	0.19	0.079 U	0.107 U	0.051 U
	4/27/2018	0.079 U	0.079 U	0.079 U	0.136 U	0.079 U	0.107 U	0.051 U

All concentrations are reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

^aNYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (Indoor Air Quality Only).

^bAmbient air quality sample.

BOLD = Exceeds the Air Guideline Value.

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**APPENDIX A
IC/EC CERTIFICATION**



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details

Box 1

Site No. C130158

Site Name Oceanside Plaza

Site Address: 3131-3221 Long Beach Road Zip Code: 11572

City/Town: Oceanside

County: Nassau

Site Acreage: 7.5

Reporting Period: May 12, 2017 to May 12, 2018

YES NO

1. Is the information above correct?

☒ ☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

☐ ☒

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

☐ ☒

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

☐ ☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

☐ ☒

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
Unrestricted, Residential, Restricted-Residential, Commercial, and Industrial

☒ ☐

7. Are all ICs/ECs in place and functioning as designed?

☒ ☐

See note below

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

SSDS is functional, but as discussed/approved by NYSDEC, the SSDS is currently offline (since 3/16/2018) as part of termination plan.

		Box 2A
		YES NO
8.	Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐ ☒
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9.	Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☐ ☒
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C130158	Box 3						
Description of Institutional Controls <table style="width: 100%;"> <tr> <td style="width: 33%;"><u>Parcel</u></td> <td style="width: 33%;"><u>Owner</u></td> <td style="width: 34%;"><u>Institutional Control</u></td> </tr> <tr> <td>43-368-18,19, 20, 41 thru 45.</td> <td>Oceanside Plaza Associates, LLC</td> <td> Ground Water Use Restriction Landuse Restriction O&M Plan IC/EC Plan Monitoring Plan Site Management Plan </td> </tr> </table> An environmental easement has been recorded on the property which restricts the use of the property to Restricted Residential use. The use of on-site groundwater is restricted as a source of drinking water or for industrial use without necessary water quality treatment as determined by either the state or local health department. Monitoring of environmental media and operation, maintenance and monitoring of the engineering control must comply with the DEC approved Site Management Plan.		<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>	43-368-18,19, 20, 41 thru 45.	Oceanside Plaza Associates, LLC	Ground Water Use Restriction Landuse Restriction O&M Plan IC/EC Plan Monitoring Plan Site Management Plan
<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>					
43-368-18,19, 20, 41 thru 45.	Oceanside Plaza Associates, LLC	Ground Water Use Restriction Landuse Restriction O&M Plan IC/EC Plan Monitoring Plan Site Management Plan					

Description of Engineering Controls	Box 4				
<table style="width: 100%;"> <tr> <td style="width: 40%;"><u>Parcel</u></td> <td style="width: 60%;"><u>Engineering Control</u></td> </tr> <tr> <td>43-368-18,19, 20, 41 thru 45...</td> <td>Vapor Mitigation</td> </tr> </table> A sub-slab depressurization system was installed to create negative pressure beneath the building's slab and to mitigate soil vapor intrusion in the overlying shopping mall building.		<u>Parcel</u>	<u>Engineering Control</u>	43-368-18,19, 20, 41 thru 45...	Vapor Mitigation
<u>Parcel</u>	<u>Engineering Control</u>				
43-368-18,19, 20, 41 thru 45...	Vapor Mitigation				

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

- (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

As described above in Box 2 and detailed in the PRR, the SSDS is functional, but as discussed/approved by NYSDEC, is currently offline (since 3/16/2018) as part of termination plan. Permanent shutdown of the SSDS is supported by recent data generated at the Site.

IC CERTIFICATIONS
SITE NO. C130158

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Mark Sr. Zunicke, P.E. at 235 North Duke St, Lancaster, PA
print name print business address

am certifying as Oceanside Plaza Associates, LLC (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

[Signature]
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

6/11/18
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Charles McGuckin at Roux, 209 Shafter St., Islandia, NY
print name print business address

am certifying as a Professional Engineer for the Oceanside Plaza Associates, LLC
(Owner or Remedial Party)

Charles McGuckin
Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification



6/11/18

Date

APPENDIX B
SUB-SLAB VAPOR AND INDOOR AIR QUALITY SAMPLING
LABORATORY ANALYTICAL DATA REPORT



www.alphalab.com



Alpha Analytical

Laboratory Code: 11148

SDG Number: L1806385

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Project Name: OCEANSIDE PLAZA
Project Number: 1802.001Y000

Lab Number: L1806385
Report Date: 03/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1806385-01	VS-DCF	SOIL_VAPOR	OCEANSIDE, NY	02/22/18 18:33	02/23/18
L1806385-02	IA-DCF	AIR	OCEANSIDE, NY	02/22/18 18:34	02/23/18
L1806385-03	VS-MRE	SOIL_VAPOR	OCEANSIDE, NY	02/22/18 18:57	02/23/18
L1806385-04	IA-DCR	AIR	OCEANSIDE, NY	02/22/18 18:27	02/23/18
L1806385-05	VS-DCR	SOIL_VAPOR	OCEANSIDE, NY	02/22/18 18:31	02/23/18
L1806385-06	AMBIENT	AIR	OCEANSIDE, NY	02/22/18 18:22	02/23/18
L1806385-07	VS-FENCE	SOIL_VAPOR	OCEANSIDE, NY	02/22/18 18:06	02/23/18
L1806385-08	IA-WINE	AIR	OCEANSIDE, NY	02/22/18 18:51	02/23/18
L1806385-09	VS-VAC	SOIL_VAPOR	OCEANSIDE, NY	02/22/18 18:48	02/23/18
L1806385-10	VS-BOOK	SOIL_VAPOR	OCEANSIDE, NY	02/22/18 18:44	02/23/18
L1806385-11	IA-YOGURT	AIR	OCEANSIDE, NY	02/22/18 18:42	02/23/18

Project Name: OCEANSIDE PLAZA
Project Number: 1802.001Y000

Lab Number: L1806385
Report Date: 03/06/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

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.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: OCEANSIDE PLAZA
Project Number: 1802.001Y000

Lab Number: L1806385
Report Date: 03/06/18

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on February 22, 2018. The canister certification results are provided as an addendum.

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: 

Report Date: 03/06/18

Title: Technical Director/Representative

GLOSSARY

Acronyms

EDL	- Estimated 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 EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report



Project Name: OCEANSIDE PLAZA
Project Number: 1802.001Y000

Lab Number: L1806385
Report Date: 03/06/18

Data Qualifiers

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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- 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 lower value for the two columns 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.
- 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.



Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 5975MSD (or equivalent)	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.52 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-1701	df: 0.25
Column B: Restek RTX-5	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

EPH

Instrument: Agilent 6890N w/FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (ECD):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L1806385

Received : 23-FEB-2018

Reviewer : Bethany Bedard

Account Name : Roux Associates, Inc.

Project Number : 1802.001Y000

Project Name : OCEANSIDE PLAZA

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Absent/			

Condition Information

All samples on COC received? **YES**

Extra samples received? **NO**

Are there any sample container discrepancies? **NO**

Are there any discrepancies between sample labels & COC? **NO**

Are samples in appropriate containers for requested analysis? **YES**

Are samples properly preserved for requested analysis? **YES**

Are samples within holding time for requested analysis? **YES**

All sampling equipment returned? **YES**

Volatile Organics/VPH

Reagent Water Vials Frozen by Client? **NA**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 06 2018, 11:24 am

Login Number: L1806385

Account: ROUX-NY Roux Associates, Inc. Project: 1802.001Y000

Received: 23FEB18 Due Date: 02MAR18
Mat PR Collected Container

Sample # Client ID

L1806385-01 VS-DCF 11 S0 22FEB18 18:33 1-Can-6

Report 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,2-DCE Total, PCE, TCE and VC target list: 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,2-dichloroethene(total), tetrachloroethene, trichloroethene, VC ASP-B Package Due Date: 03/02/18

ASP-B, CAN-RENT, FLOW-RENT, T015-LL

L1806385-02 IA-DCF 10 S0 22FEB18 18:34 1-Can-6

Report 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,2-DCE Total, PCE, TCE and VC. Package Due Date: 03/02/18

CAN-RENT, FLOW-RENT, T015-SIM

L1806385-03 VS-MRE 11 S0 22FEB18 18:57 1-Can-6

Report 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,2-DCE Total, PCE, TCE and VC. Package Due Date: 03/02/18

CAN-RENT, FLOW-RENT, T015-LL

L1806385-04 IA-DCR 10 S0 22FEB18 18:27 1-Can-6

Report 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,2-DCE Total, PCE, TCE and VC. Package Due Date: 03/02/18

CAN-RENT, FLOW-RENT, T015-SIM

L1806385-05 VS-DCR 11 S0 22FEB18 18:31 1-Can-6

Report 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,2-DCE Total, PCE, TCE and VC. Package Due Date: 03/02/18

CAN-RENT, FLOW-RENT, T015-LL

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 06 2018, 11:24 am

Login Number: L1806385

Account: ROUX-NY Roux Associates, Inc. Project: 1802.001Y000

Received: 23FEB18 Due Date: 02MAR18
Mat PR Collected Container

Sample # Client ID

L1806385-06 AMBIENT 10 S0 22FEB18 18:22 1-Can-6
Report 1, 1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,2-DCE Total, PCE, TCE and VC. Package Due Date:
03/02/18

CAN-RENT, FLOW-RENT, T015-SIM

L1806385-07 VS-FENCE 11 S0 22FEB18 18:06 1-Can-6
Report 1, 1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,2-DCE Total, PCE, TCE and VC. Package Due Date:
03/02/18

CAN-RENT, FLOW-RENT, T015-LL

L1806385-08 IA-WINE 10 S0 22FEB18 18:51 1-Can-6
Report 1, 1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,2-DCE Total, PCE, TCE and VC. Package Due Date:
03/02/18

CAN-RENT, FLOW-RENT, T015-SIM

L1806385-09 VS-VAC 11 S0 22FEB18 18:48 1-Can-6
Report 1, 1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,2-DCE Total, PCE, TCE and VC. Package Due Date:
03/02/18

CAN-RENT, FLOW-RENT, T015-LL

L1806385-10 VS-BOOK 11 S0 22FEB18 18:44 1-Can-6
Report 1, 1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,2-DCE Total, PCE, TCE and VC. Package Due Date:
03/02/18

CAN-RENT, FLOW-RENT, T015-LL

L1806385-11 IA-YOGURT 10 S0 22FEB18 18:42 1-Can-6
Report 1, 1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,2-DCE Total, PCE, TCE and VC. Package Due Date:
03/02/18

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 06 2018, 11:24 am

Login Number: L1806385

Account: ROUX-NY Roux Associates, Inc. Project: 1802.001Y000

Sample #	Client ID	Received: 23FEB18 Mat PR Collected	Due Date: 02MAR18 Container

CAN-RENT, FLOW-RENT, T015-SIM

Page 3

Logged By: Chris Anderson



CHAIN OF CUSTODY

AIR ANALYSIS

PAGE 1 OF 2

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Project Name: Oceanside Plaza
Project Location: Oceanside, NY
Project #: 1802.00014000
Project Manager: Rob Kovacs
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Time:

Date Rec'd in Lab: 2/24/18

ALPHA Job #: L1806385

Report Information - Data Deliverables

☐ FAX☐ ADEx

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

Other Formats:

☒ EMAIL (standard pdf report)☒ Additional Deliverables:

NYSDEC ASP Cat B

Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

Client Information

Client: Roux Associates
Address: 209 Shafter St.
Islandia, NY 11749

Phone: 631-232-2600

Fax: 631-232-9898

Email: rkovacs@rouxinc.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒Detection Limit: 1 µg/m³ or lessAnalyze for:
1,1-Dichloroethene
cis-1,2-Dichloroethenetrans-1,2-dichloroethene
1,2-Dichloroethene (total)
tetrachloroethene
trichloroethene
vinyl chloride

All Columns Below Must Be Filled Out

ALPHA Lab ID
(Lab Use Only)

Sample ID

COLLECTION

End Date Start Time End Time Initial Vacuum Final Vacuum

Sample Matrix*

Sampler's Initials

Can Size

ID Can

ID - Flow Controller

TO-15

TO-15 SIM

APH

Fixed Gases

Sulfides & Mercaptans by TO-15

Sample Comments (i.e. PID)

406385-01	VS-DCF	2/22/18	10:31	18:33	-30.76	-7.10	SV	VS	GL	2320	01029	X							
-02	IA-DCF	2/22/18	10:29	18:34	-39.03	-18.18	IA	VS	GL	1825	0833	X							
-03	VS-MRE	2/22/18	10:35	18:57	-30.86	-11.40	SV	VS	GL	2479	01031	X							
-04	IA-PCR	2/22/18	10:39	18:27	-30.95	-7.12	IA	VS	GL	2430	0964	X							
-05	VS-DCR	2/22/18	10:45	18:31	-30.63	-7.11	SV	VS	GL	2046	0080	X							
-06	Ambient	2/22/18	10:48	18:22	-30.73	-7.86	AA	VS	GL	934	01020	X							
-07	VS-Fence	2/22/18	10:49	18:06	-31.07	-5.18	SV	VS	GL	1909	0756	X							
-08	IA-Wine	2/22/18	11:02	18:51	-30.69	-7.24	IA	VS	GL	1837	0981	X							
-09	VS-VAC	2/22/18	11:05	18:48	-31.43	-5.66	SV	VS	GL	1558	0973	X							
-10	VS-BOOK	2/22/18	10:56	18:44	-30.52	-10.67	SV	VS	GL	2448	01036	X							

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)

SV = Soil Vapor/Landfill Gas/SVE

Other = Please Specify:

Container Type

CS

Relinquished By:

Date/Time

Received By:

Date/Time:

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Supporting Documentation

Project Name: OCEANSIDE PLAZA

Lab Number: L1806385

Project Number: 1802.001Y000

Report Date: 03/06/18

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1806385-01	VS-DCF	01029	Flow 4	02/22/18	259899		-	-	-	Pass	9.8	10.6	8
L1806385-01	VS-DCF	2320	6.0L Can	02/22/18	259899	L1805804-02	Pass	-29.7	-6.1	-	-	-	-
L1806385-02	IA-DCF	0833	FLOW 5	02/22/18	259899		-	-	-	Pass	10.0	9.5	5
L1806385-02	IA-DCF	1825	6.0L Can	02/22/18	259899	L1805804-02	Pass	-29.7	-6.4	-	-	-	-
L1806385-03	VS-MRE	01031	Flow 4	02/22/18	259899		-	-	-	Pass	9.8	11.2	13
L1806385-03	VS-MRE	2479	6.0L Can	02/22/18	259899	L1805804-03	Pass	-29.7	-10.7	-	-	-	-
L1806385-04	IA-DCR	0964	Flow 5	02/22/18	259899		-	-	-	Pass	10.0	10.1	1
L1806385-04	IA-DCR	2430	2.7L Can	02/22/18	259899	L1806357-01	Pass	-29.8	-6.7	-	-	-	-
L1806385-04	IA-DCR	2430	2.7L Can	02/28/18	260191	L1806357-01	Pass	-29.9	-6.7	-	-	-	-
L1806385-05	VS-DCR	0080	Flow 4	02/22/18	259899		-	-	-	Pass	10.0	10.2	2
L1806385-05	VS-DCR	2046	6.0L Can	02/22/18	259899	L1805804-02	Pass	-29.7	-6.2	-	-	-	-
L1806385-06	AMBIENT	01020	Flow 5	02/22/18	259899		-	-	-	Pass	10.0	10.1	1
L1806385-06	AMBIENT	934	6.0L Can	02/22/18	259899	L1805804-02	Pass	-29.5	-5.7	-	-	-	-
L1806385-07	VS-FENCE	0756	Flow 3	02/22/18	259899		-	-	-	Pass	9.9	10.7	8
L1806385-07	VS-FENCE	1909	6.0L Can	02/22/18	259899	L1805804-02	Pass	-29.7	-2.5	-	-	-	-

Project Name: OCEANSIDE PLAZA

Lab Number: L1806385

Project Number: 1802.001Y000

Report Date: 03/06/18

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1806385-08	IA-WINE	0981	Flow 5	02/22/18	259899		-	-	-	Pass	10.0	10.0	0
L1806385-08	IA-WINE	1837	6.0L Can	02/22/18	259899	L1805804-02	Pass	-29.8	-6.5	-	-	-	-
L1806385-09	VS-VAC	0973	Flow 3	02/22/18	259899		-	-	-	Pass	9.8	11.3	14
L1806385-09	VS-VAC	1558	6.0L Can	02/22/18	259899	L1805804-02	Pass	-29.8	-4.4	-	-	-	-
L1806385-10	VS-BOOK	01036	Flow 4	02/22/18	259899		-	-	-	Pass	10.0	10.2	2
L1806385-10	VS-BOOK	2448	6.0L Can	02/22/18	259899	L1805804-02	Pass	-29.7	-9.3	-	-	-	-
L1806385-11	IA-YOGURT	0872	Flow 5	02/22/18	259899		-	-	-	Pass	9.3	10.1	8
L1806385-11	IA-YOGURT	582	6.0L Can	02/22/18	259899	L1805804-02	Pass	-29.7	-5.5	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-02
 Client ID: CAN 2121 SHELF 47
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 02/20/18 15:27
 Analyst: RY

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		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
Methanol	ND	5.00	--	ND	6.55	--		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	5.00	--	ND	9.42	--		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	0.500	--	ND	1.09	--		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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-02
 Client ID: CAN 2121 SHELF 47
 Sample Location:

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-02
 Client ID: CAN 2121 SHELF 47
 Sample Location:

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		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	1.21	--		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
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-02
 Client ID: CAN 2121 SHELF 47
 Sample Location:

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
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-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
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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-02
Client ID: CAN 2121 SHELF 47
Sample Location:

Date Collected: 02/19/18 16:00
Date Received: 02/20/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-02
 Client ID: CAN 2121 SHELF 47
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 02/20/18 19:36
 Analyst: RY

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		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	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		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
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-02
 Client ID: CAN 2121 SHELF 47
 Sample Location:

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		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	0.100	--	ND	0.461	--		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	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-02
 Client ID: CAN 2121 SHELF 47
 Sample Location:

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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	88		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	84		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-03
 Client ID: CAN 1572 SHELF 48
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 02/20/18 16:37
 Analyst: RY

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		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
Methanol	ND	5.00	--	ND	6.55	--		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	5.00	--	ND	9.42	--		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	0.500	--	ND	1.09	--		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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-03
 Client ID: CAN 1572 SHELF 48
 Sample Location:

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-03
 Client ID: CAN 1572 SHELF 48
 Sample Location:

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		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
1,1,1,2,2-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	1.21	--		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
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-03
 Client ID: CAN 1572 SHELF 48
 Sample Location:

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
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-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
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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-03
Client ID: CAN 1572 SHELF 48
Sample Location:

Date Collected: 02/19/18 16:00
Date Received: 02/20/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-03
 Client ID: CAN 1572 SHELF 48
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 02/20/18 20:09
 Analyst: RY

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		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	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		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
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-03
 Client ID: CAN 1572 SHELF 48
 Sample Location:

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		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	0.100	--	ND	0.461	--		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	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1805804
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1805804-03
 Client ID: CAN 1572 SHELF 48
 Sample Location:

Date Collected: 02/19/18 16:00
 Date Received: 02/20/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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	86		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	83		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1806357
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1806357-01
Client ID: CAN 2430 SHELF 1
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 02/23/18 17:16
Analyst: GJ

Date Collected: 02/22/18 16:00
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		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
Methanol	ND	5.00	--	ND	6.55	--		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	5.00	--	ND	9.42	--		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	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1806357
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1806357-01
 Client ID: CAN 2430 SHELF 1
 Sample Location:

Date Collected: 02/22/18 16:00
 Date Received: 02/23/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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
Project Number: CANISTER QC BAT

Lab Number: L1806357
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1806357-01
Client ID: CAN 2430 SHELF 1
Sample Location:

Date Collected: 02/22/18 16:00
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		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
1,1,1,2,2-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	1.21	--		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
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1806357
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1806357-01
 Client ID: CAN 2430 SHELF 1
 Sample Location:

Date Collected: 02/22/18 16:00
 Date Received: 02/23/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
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-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
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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1806357
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1806357-01
Client ID: CAN 2430 SHELF 1
Sample Location:

Date Collected: 02/22/18 16:00
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	92		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1806357
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1806357-01
 Client ID: CAN 2430 SHELF 1
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 02/23/18 16:05
 Analyst: RY

Date Collected: 02/22/18 16:00
 Date Received: 02/23/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		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	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		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
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1806357
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1806357-01
 Client ID: CAN 2430 SHELF 1
 Sample Location:

Date Collected: 02/22/18 16:00
 Date Received: 02/23/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		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	0.100	--	ND	0.461	--		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
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1806357
Report Date: 03/06/18

Air Canister Certification Results

Lab ID: L1806357-01
Client ID: CAN 2430 SHELF 1
Sample Location:

Date Collected: 02/22/18 16:00
Date Received: 02/23/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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	86		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	86		60-140



Organics

Volatile Organics in Air TO-15 Low Level

Volatiles QC Summary

Lab Duplicates Form 3

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Client Sample ID : VS-MRE
 Lab Sample ID : L1806385-03
 Lab File ID : R252724
 Dup Sample ID : WG1094274-5

Lab Number : L1806385
 Project Number : 1802.001Y000
 Matrix : SOIL_VAPOR
 Analysis Date : 03/03/18 22:48
 DUP File ID : R252725
 DUP Analysis Date : 03/03/18 23:22

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Vinyl chloride	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
cis-1,2-Dichloroethene	ND	ND	NC	25
Trichloroethene	ND	ND	NC	25
Tetrachloroethene	8.05	8.24	2	25
1,2-Dichloroethene (total)	ND	ND	NC	25

Laboratory Control Sample Form 3

Client	: Roux Associates, Inc.	Lab Number	: L1806385
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.001Y000
Matrix	: SOIL_VAPOR		
LCS Sample ID	: WG1094274-3	Analysis Date	: 03/03/18 12:01
LCSD Sample ID	:	File ID	: R252708
		Analysis Date	:
		File ID	:

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Vinyl chloride	10	8.49	85				-	70-130	-
1,1-Dichloroethene	10	8.17	82				-	70-130	-
trans-1,2-Dichloroethene	10	8.36	84				-	70-130	-
1,1-Dichloroethane	10	8.36	84				-	70-130	-
cis-1,2-Dichloroethene	10	7.82	78				-	70-130	-
1,2-Dichloroethane	10	9.41	94				-	70-130	-
1,1,1-Trichloroethane	10	8.04	80				-	70-130	-
Trichloroethene	10	7.84	78				-	70-130	-
Tetrachloroethene	10	10.9	109				-	70-130	-
1,2-Dichloroethene (total)	20	16.2	81				-	70-130	-

Method Blank Summary Form 4

Client	: Roux Associates, Inc.	Lab Number	: L1806385
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.001Y000
Lab Sample ID	: WG1094274-4	Lab File ID	: R252710
Instrument ID	: AIRPIANO2		
Matrix	: SOIL_VAPOR	Analysis Date	: 03/03/18 13:38

Client Sample No.	Lab Sample ID	Analysis Date
WG1094274-3LCS	WG1094274-3	03/03/18 12:01
VS-DCF	L1806385-01	03/03/18 22:13
VS-MRE	L1806385-03	03/03/18 22:48
VS-MREDUP	WG1094274-5	03/03/18 23:22
VS-DCR	L1806385-05	03/03/18 23:57
VS-FENCE	L1806385-07	03/04/18 00:32
VS-VAC	L1806385-09	03/04/18 01:06
VS-BOOK	L1806385-10	03/04/18 01:41



Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRPIANO2
 Tune Standard : WG1087627-1

Lab Number : L1806385
 Project Number : 1802.001Y000
 Analysis Date : 02/07/18 13:53
 Tune File ID : R252402_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	30.9
75	30.0 - 66.0% of mass 95	59
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	73.3
175	4.0 - 9.0% of mass 174	6.2 (8.4)1
176	93.0 - 101% of mass 174	71.7 (97.9)1
177	5.0 - 9.0% of mass 176	4.5 (6.3)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 ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1045644-1	R252406	02/07/18 16:09
STD0.5	R1045644-2	R252407	02/07/18 16:42
STD1.0	R1045644-3	R252408	02/07/18 17:18
STD5.0	R1045644-4	R252409	02/07/18 17:52
STD10.0	R1045644-5	R252410	02/07/18 18:28
STD20.0	R1045644-7	R252411	02/07/18 19:01
STD50.0	R1045644-6	R252412	02/07/18 19:35
STD100.0	R1045644-8	R252413	02/07/18 20:11
ICV QUANT REPORT	R1045644-9	R252416	02/08/18 10:50



Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : Roux Associates, Inc.	Lab Number : L1806385
Project Name : OCEANSIDE PLAZA	Project Number : 1802.001Y000
Instrument ID : AIRPIANO2	Analysis Date : 03/03/18 11:24
Tune Standard : WG1094274-1	Tune File ID : R252707_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	24.1
75	30.0 - 66.0% of mass 95	55
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	84.7
175	4.0 - 9.0% of mass 174	6 (7.1)1
176	93.0 - 101% of mass 174	81.6 (96.3)1
177	5.0 - 9.0% of mass 176	5.3 (6.5)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 ID	Lab Sample ID	File ID	Analysis Date/Time
WG1094274-2CCAL	WG1094274-2	R252708	03/03/18 12:01
WG1094274-3LCS	WG1094274-3	R252708	03/03/18 12:01
WG1094274-4BLANK	WG1094274-4	R252710	03/03/18 13:38
VS-DCF	L1806385-01	R252723	03/03/18 22:13
VS-MRE	L1806385-03	R252724	03/03/18 22:48
WG1094274-5DUP	WG1094274-5	R252725	03/03/18 23:22
VS-DCR	L1806385-05	R252726	03/03/18 23:57
VS-FENCE	L1806385-07	R252727	03/04/18 00:32
VS-VAC	L1806385-09	R252728	03/04/18 01:06
VS-BOOK	L1806385-10	R252729	03/04/18 01:41

Internal Standard Area and RT Summary Form 8

Client : Roux Associates, Inc.
Project Name : OCEANSIDE PLAZA
Instrument ID : AIRPIANO2
Sample No : WG1094274-2

Lab Number : L1806385
Project Number : 1802.001Y000
Analysis Date : 03/03/18 12:01
Lab File ID : R252708

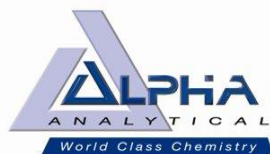
	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1094274-2	107164	10.55	219446	12.74	54259	17.06
Upper Limit	150030	10.88	307224	13.07	75963	17.39
Lower Limit	64298	10.22	131668	12.41	32555	16.73
Sample ID						
WG1094274-3 LCS	107164	10.55	219446	12.74	54259	17.06
WG1094274-4 BLANK	92503	10.55	170506	12.74	41734	17.06
VS-DCF	88053	10.55	167506	12.74	42235	17.06
VS-MRE	87337	10.55	163148	12.74	42058	17.05
VS-MRE DUP	86339	10.55	163615	12.74	40656	17.06
VS-DCR	86796	10.55	166979	12.74	42368	17.06
VS-FENCE	90107	10.55	168854	12.74	41727	17.06
VS-VAC	90143	10.55	173546	12.74	45156	17.06
VS-BOOK	86373	10.55	164145	12.74	39706	17.06

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





Date Created: 08/16/17
Created By: Jason Hebert
File: PM3922-1
Page: 1

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.2	0.057	ppbV	70-130			25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.0548	ppbV	70-130			25	25			
1,1,2-Trichloroethane	79-00-5	0.2	0.0667	ppbV	70-130			25	25			
1,1-Dichloroethane	75-34-3	0.2	0.0771	ppbV	70-130			25	25			
1,1-Dichloroethene	75-35-4	0.2	0.0566	ppbV	70-130			25	25			
1,2,3-Trimethylbenzene	526-73-8	0.2	0.0751	ppbV	70-130			25	25			
1,2,4-Trichlorobenzene	120-82-1	0.2	0.0611	ppbV	70-130			25	25			
1,2,4-Trimethylbenzene	95-63-6	0.2	0.0694	ppbV	70-130			25	25			
1,2,4,5-Tetramethylbenzene	95-93-2	0.2	0.0795	ppbV	70-130			25	25			
1,2-Dibromoethane	106-93-4	0.2	0.0779	ppbV	70-130			25	25			
1,2-Dichlorobenzene	95-50-1	0.2	0.0614	ppbV	70-130			25	25			
1,2-Dichloroethane	107-06-2	0.2	0.0552	ppbV	70-130			25	25			
1,2-Dichloropropane	78-87-5	0.2	0.0697	ppbV	70-130			25	25			
1,3,5-Trimethylbenzene	108-67-8	0.2	0.0584	ppbV	70-130			25	25			
1,3-Butadiene	106-99-0	0.2	0.0799	ppbV	70-130			25	25			
1,3-Dichlorobenzene	541-73-1	0.2	0.0637	ppbV	70-130			25	25			
1,4-Dichlorobenzene	106-46-7	0.2	0.0418	ppbV	70-130			25	25			
1,4-Dioxane	123-91-1	0.2	0.078	ppbV	70-130			25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.0659	ppbV	70-130			25	25			
2-Butanone	78-93-3	0.5	0.0522	ppbV	70-130			25	25			
2-Hexanone	591-78-6	0.2	0.0604	ppbV	70-130			25	25			
2-Methylthiophene	554-14-3	0.2	0.0789	ppbV	70-130			25	25			
3-Methylthiophene	616-44-4	0.2	0.0669	ppbV	70-130			25	25			
3-Chloropropene	107-05-1	0.2	0.0812	ppbV	70-130			25	25			
2-Ethylthiophene	872-55-9	0.2	0.0571	ppbV	70-130			25	25			
4-Ethyltoluene	622-96-8	0.2	0.0776	ppbV	70-130			25	25			
Acetone	67-64-1	1	0.165	ppbV	70-130			25	25			
Benzene	71-43-2	0.2	0.0537	ppbV	70-130			25	25			
Benzyl chloride	100-44-7	0.2	0.0645	ppbV	70-130			25	25			
Benzothiophene	95-15-8	0.5	0.0468	ppbV	70-130			25	25			
Bromodichloromethane	75-27-4	0.2	0.0656	ppbV	70-130			25	25			
Bromoform	75-25-2	0.2	0.0523	ppbV	70-130			25	25			
Bromomethane	74-83-9	0.2	0.0696	ppbV	70-130			25	25			
Carbon disulfide	75-15-0	0.2	0.0345	ppbV	70-130			25	25			
Carbon tetrachloride	56-23-5	0.2	0.0471	ppbV	70-130			25	25			
Chlorobenzene	108-90-7	0.2	0.0789	ppbV	70-130			25	25			
Chloroethane	75-00-3	0.2	0.0767	ppbV	70-130			25	25			
Chloroform	67-66-3	0.2	0.0452	ppbV	70-130			25	25			
Chloromethane	74-87-3	0.2	0.0958	ppbV	70-130			25	25			
cis-1,2-Dichloroethene	156-59-2	0.2	0.0587	ppbV	70-130			25	25			
cis-1,3-Dichloropropene	10061-01-5	0.2	0.0745	ppbV	70-130			25	25			
Cyclohexane	110-82-7	0.2	0.0656	ppbV	70-130			25	25			

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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromochloromethane	124-48-1	0.2	0.0747	ppbV	70-130			25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0466	ppbV	70-130			25	25			
Ethyl Alcohol	GCDAl06	5	0.542	ppbV	70-130			25	25			
Ethyl Acetate	141-78-6	0.5	0.131	ppbV	70-130			25	25			
Ethylbenzene	100-41-4	0.2	0.0555	ppbV	70-130			25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0511	ppbV	70-130			25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0419	ppbV	70-130			25	25			
Hexachlorobutadiene	87-68-3	0.2	0.0732	ppbV	70-130			25	25			
Iso-Propyl Alcohol	67-63-0	0.5	0.084	ppbV	70-130			25	25			
Methylene chloride	75-09-2	0.5	0.0622	ppbV	70-130			25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.0607	ppbV	70-130			25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0452	ppbV	70-130			25	25			
Methyl Methacrylate	80-62-6	0.5	0.147	ppbV	70-130			25	25			
p/m-Xylene	179601-23-1	0.4	0.139	ppbV	70-130			25	25			
o-Xylene	95-47-6	0.2	0.0631	ppbV	70-130			25	25			
Xylene (Total)	1330-20-7	0.2	0.0631	ppbV	70-130			25	25			
Heptane	142-82-5	0.2	0.0553	ppbV	70-130			25	25			
n-Heptane	142-82-5	0.2	0.0553	ppbV	70-130			25	25			
n-Hexane	110-54-3	0.2	0.0518	ppbV	70-130			25	25			
Propylene	115-07-1	0.5	0.0929	ppbV	70-130			25	25			
Styrene	100-42-5	0.2	0.0799	ppbV	70-130			25	25			
Tetrachloroethene	127-18-4	0.2	0.0758	ppbV	70-130			25	25			
Thiophene	110-02-1	0.2	0.0528	ppbV	70-130			25	25			
Tetrahydrofuran	109-99-9	0.5	0.0608	ppbV	70-130			25	25			
Toluene	108-88-3	0.2	0.0628	ppbV	70-130			25	25			
trans-1,2-Dichloroethene	156-60-5	0.2	0.074	ppbV	70-130			25	25			
1,2-Dichloroethene (total)	540-59-0	0.2	0.0587	ppbV	70-130			25	25			
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0693	ppbV	70-130			25	25			
1,3-Dichloropropene, Total	542-75-6	0.2	0.0693	ppbV	70-130			25	25			
Trichloroethene	79-01-6	0.2	0.071	ppbV	70-130			25	25			
Trichlorofluoromethane	75-69-4	0.2	0.0416	ppbV	70-130			25	25			
Vinyl acetate	108-05-4	1	0.0567	ppbV	70-130			25	25			
Vinyl bromide	593-60-2	0.2	0.0699	ppbV	70-130			25	25			
Vinyl chloride	75-01-4	0.2	0.0394	ppbV	70-130			25	25			
Naphthalene	91-20-3	0.2	0.0425	ppbV	70-130			25	25			
Total HC As Hexane	NONE	10	0.0518	ppbV	70-130			25	25			
Total VOCs As Toluene	NONE	10	0.0628	ppbV	70-130			25	25			
Propane	74-98-6	0.5	0.114	ppbV	70-130			25	25			
Acrylonitrile	107-13-1	0.5	0.079	ppbV	70-130			25	25			
Acrolein	107-02-8	0.5	0.114	ppbV	70-130			25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0547	ppbV	70-130			25	25			
Isopropylbenzene	98-82-8	0.2	0.043	ppbV	70-130			25	25			

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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,2,3-Trichloropropane	96-18-4	0.2	0.0767	ppbV	70-130			25	25			
Acetonitrile	75-05-8	0.2	0.0761	ppbV	70-130			25	25			
Bromobenzene	108-86-1	0.2	0.079	ppbV	70-130			25	25			
Chlorodifluoromethane	75-45-6	0.2	0.0626	ppbV	70-130			25	25			
Dichlorofluoromethane	75-43-4	0.2	0.0572	ppbV	70-130			25	25			
Dibromomethane	74-95-3	0.2	0.0476	ppbV	70-130			25	25			
Pentane	109-66-0	0.2	0.0475	ppbV	70-130			25	25			
Octane	111-65-9	0.2	0.0421	ppbV	70-130			25	25			
Tertiary-Amyl Methyl Ether	994-05-8	0.2	0.0795	ppbV	70-130			25	25			
o-Chlorotoluene	95-49-8	0.2	0.0487	ppbV	70-130			25	25			
p-Chlorotoluene	106-43-4	0.2	0.0764	ppbV	70-130			25	25			
2,2-Dichloropropane	594-20-7	0.2	0.0581	ppbV	70-130			25	25			
1,1-Dichloropropene	563-58-6	0.2	0.0715	ppbV	70-130			25	25			
Isopropyl Ether	108-20-3	0.2	0.0656	ppbV	70-130			25	25			
Ethyl-Tert-Butyl-Ether	637-92-3	0.2	0.0515	ppbV	70-130			25	25			
1,2,3-Trichlorobenzene	87-61-6	0.2	0.0431	ppbV	70-130			25	25			
Ethyl ether	60-29-7	0.2	0.0591	ppbV	70-130			25	25			
n-Butylbenzene	104-51-8	0.2	0.0639	ppbV	70-130			25	25			
sec-Butylbenzene	135-98-8	0.2	0.0731	ppbV	70-130			25	25			
tert-Butylbenzene	98-06-6	0.2	0.0402	ppbV	70-130			25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.2	0.0744	ppbV	70-130			25	25			
p-Isopropyltoluene	99-87-6	0.2	0.0608	ppbV	70-130			25	25			
n-Propylbenzene	103-65-1	0.2	0.0559	ppbV	70-130			25	25			
1,3-Dichloropropane	142-28-9	0.2	0.0776	ppbV	70-130			25	25			
Methanol	67-56-1	5	0.736	ppbV	70-130			25	25			
Acetaldehyde	75-07-0	2.5	0.547	ppbV	70-130			25	25			
Butane	106-97-8	0.2	0.0442	ppbV	70-130			25	25			
Nonane (C9)	111-84-2	0.2	0.0644	ppbV	70-130			25	25			
Decane (C10)	124-18-5	0.2	0.0484	ppbV	70-130			25	25			
Undecane	1120-21-4	0.2	0.0528	ppbV	70-130			25	25			
Indane	496-11-7	0.2	0.0795	ppbV	70-130			25	25			
Indene	95-13-6	0.2	0.0608	ppbV	70-130			25	25			
1-Methylnaphthalene	90-12-0	1	0.286	ppbV	70-130			25	25			
Dodecane (C12)	112-40-3	0.2	0.0564	ppbV	70-130			25	25			
Butyl Acetate	123-86-4	0.5	0.114	ppbV	70-130			25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.0599	ppbV	70-130			25	25			
2-Methylnaphthalene	91-57-6	1	0.0273	ppbV	70-130			25	25			
1,2-Dichloroethane-d4	17060-07-0									70-130		
Toluene-d8	2037-26-5									70-130		
Bromofluorobenzene	460-00-4									70-130		

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Volatiles Sample Data

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1806385-01
 Client ID : VS-DCF
 Sample Location : OCEANSIDE, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R252723
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:33
 Date Received : 02/23/18
 Date Analyzed : 03/03/18 22:13
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
540-59-0	1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--	U

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1806385-03
 Client ID : VS-MRE
 Sample Location : OCEANSIDE, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R252724
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:57
 Date Received : 02/23/18
 Date Analyzed : 03/03/18 22:48
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	8.05	0.200	--	54.6	1.36	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--	U

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1806385-05
 Client ID : VS-DCR
 Sample Location : OCEANSIDE, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R252726
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:31
 Date Received : 02/23/18
 Date Analyzed : 03/03/18 23:57
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	1.25	0.200	--	8.48	1.36	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--	U

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1806385-07
 Client ID : VS-FENCE
 Sample Location : OCEANSIDE, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R252727
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:06
 Date Received : 02/23/18
 Date Analyzed : 03/04/18 00:32
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	0.588	0.200	--	3.99	1.36	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--	U

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1806385-09
 Client ID : VS-VAC
 Sample Location : OCEANSIDE, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R252728
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:48
 Date Received : 02/23/18
 Date Analyzed : 03/04/18 01:06
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	0.519	0.200	--	2.79	1.07	--	
127-18-4	Tetrachloroethene	64.6	0.200	--	438	1.36	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--	U

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1806385-10
 Client ID : VS-BOOK
 Sample Location : OCEANSIDE, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R252729
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:44
 Date Received : 02/23/18
 Date Analyzed : 03/04/18 01:41
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	0.829	0.200	--	5.62	1.36	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--	U

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1094274-4
 Client ID : WG1094274-4BLANK
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R252710
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/03/18 13:38
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	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
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
540-59-0	1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--	U

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1094274-5
 Client ID : VS-MREDUP
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R252725
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:57
 Date Received : 02/23/18
 Date Analyzed : 03/03/18 23:22
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	8.24	0.200	--	55.9	1.36	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--	U

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
 Data File : R252723.D
 Acq On : 3 Mar 2018 10:13 pm
 Operator : AIRPIAN02:GJ
 Sample : L1806385-01,3,250,250
 Misc : WG1094274,ICAL14412
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 04 07:49:40 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303T\R252708.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.55	49	88053	10.000	ppbV	# 0.00
Standard Area = 107164			Recovery =		82.17%	
43) 1,4-difluorobenzene	12.74	114	167506	10.000	ppbV	0.00
Standard Area = 219446			Recovery =		76.33%	
67) chlorobenzene-D5	17.06	54	42235	10.000	ppbV	# 0.00
Standard Area = 54259			Recovery =		77.84%	

System Monitoring Compounds

Target Compounds					Qvalue
9) vinyl chloride	0.00		0	N.D.	
26) 1,1-dichloroethene	0.00		0	N.D.	
32) trans-1,2-dichloroethene	0.00		0	N.D.	
33) 1,1-dichloroethane	0.00		0	N.D.	
37) cis-1,2-dichloroethene	0.00		0	N.D.	
42) 1,2-dichloroethane	11.54		0	N.D.	
48) 1,1,1-trichloroethane	0.00		0	N.D.	
59) trichloroethene	0.00		0	N.D.	
78) tetrachloroethene	16.53	166	944	0.118 ppbV	# 83

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

Sub List : 9_Chlorinateds - .AIR2\2018\180303T\R252708.D

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\

Data File : R252723.D

Acq On : 3 Mar 2018 10:13 pm

Operator : AIRPIAN02:GJ

Sample : L1806385-01,3,250,250

Misc : WG1094274,ICAL14412

ALS Vial : 11 Sample Multiplier: 1

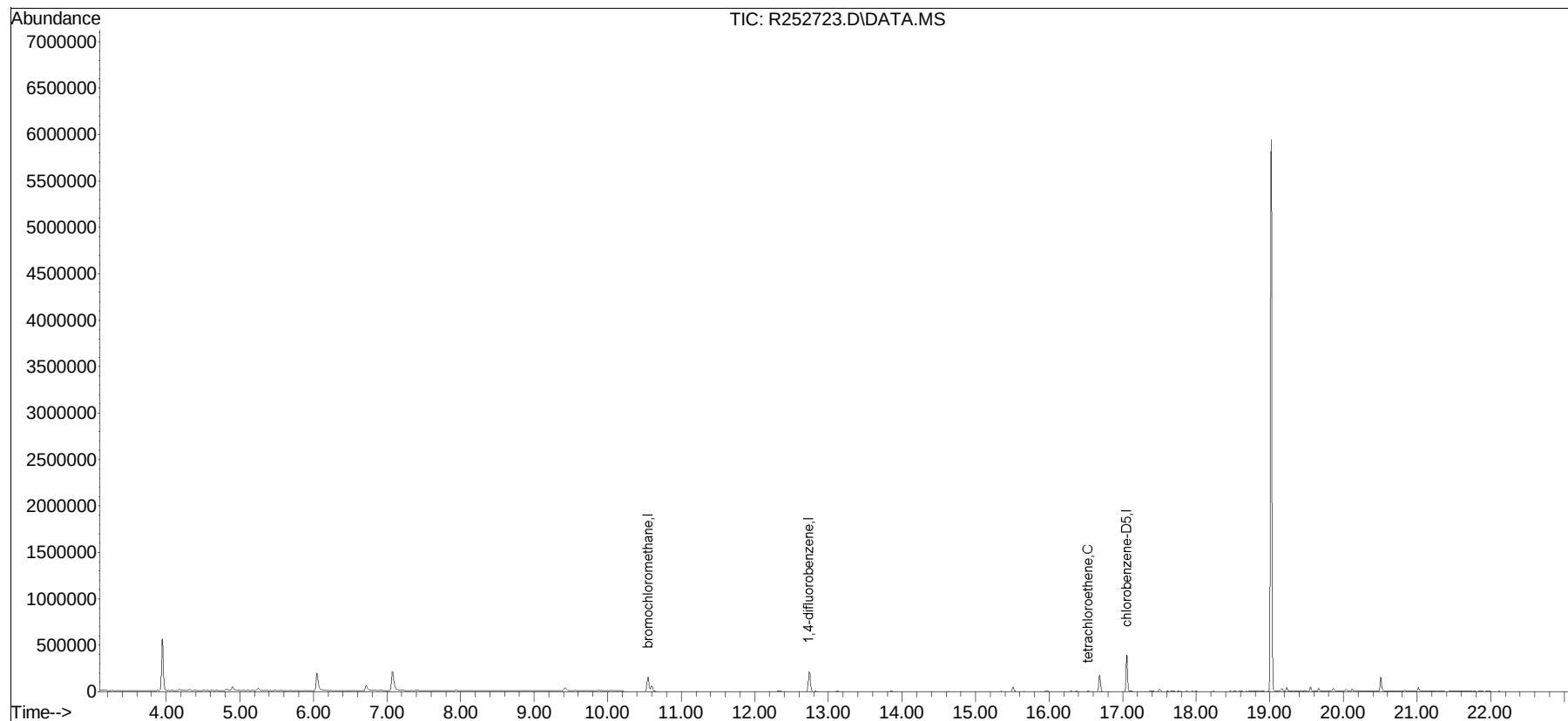
Quant Time: Mar 04 07:49:40 2018

Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

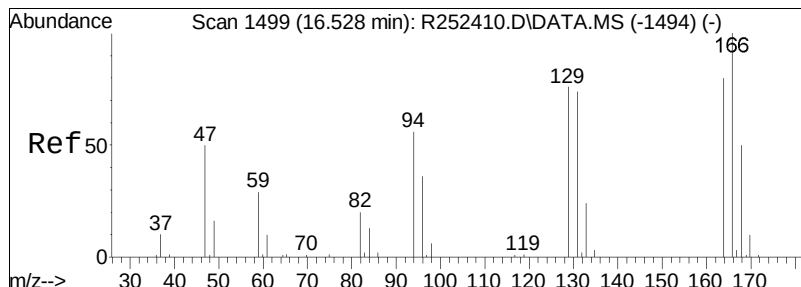
QLast Update : Thu Feb 08 09:29:36 2018

Response via : Initial Calibration



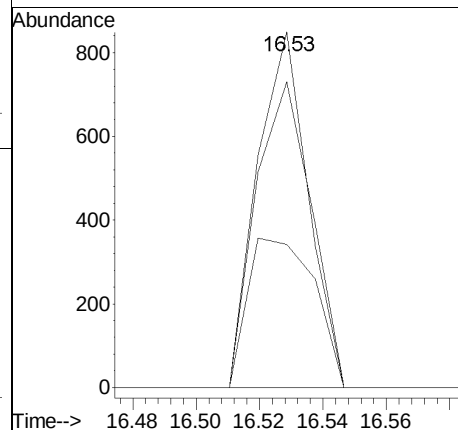
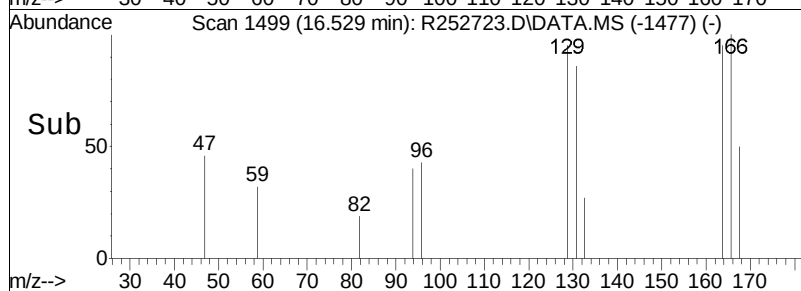
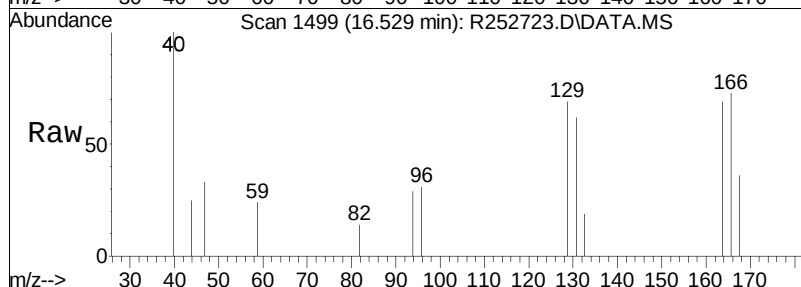
TALL180207.M Sun Mar 04 15:04:44 2018

Page: 2



#78
 tetrachloroethene
 Concen: 0.12 ppbV
 RT: 16.53 min Scan# 1499
 Delta R.T. 0.000 min
 Lab File: R252723.D
 Acq: 3 Mar 2018 10:13 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
131	86.0	59.0	88.4	
94	40.3	44.4	66.6	



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TALL180207.M
Data File	: R252723.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 10:13 pm	Instrument	: Airpiano 2
Sample	: L1806385-01,3,250,250	Quant Date	: 3/4/2018 7:49 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
 Data File : R252724.D
 Acq On : 3 Mar 2018 10:48 pm
 Operator : AIRPIAN02:GJ
 Sample : L1806385-03,3,250,250
 Misc : WG1094274,ICAL14412
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 04 07:49:43 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303T\R252708.D
 Sub List : 9_Chlorinateds - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.55	49	87337	10.000	ppbV	# 0.00
Standard Area = 107164			Recovery =		81.50%	
43) 1,4-difluorobenzene	12.74	114	163148	10.000	ppbV	# 0.00
Standard Area = 219446			Recovery =		74.35%	
67) chlorobenzene-D5	17.05	54	42058	10.000	ppbV	0.00
Standard Area = 54259			Recovery =		77.51%	

System Monitoring Compounds

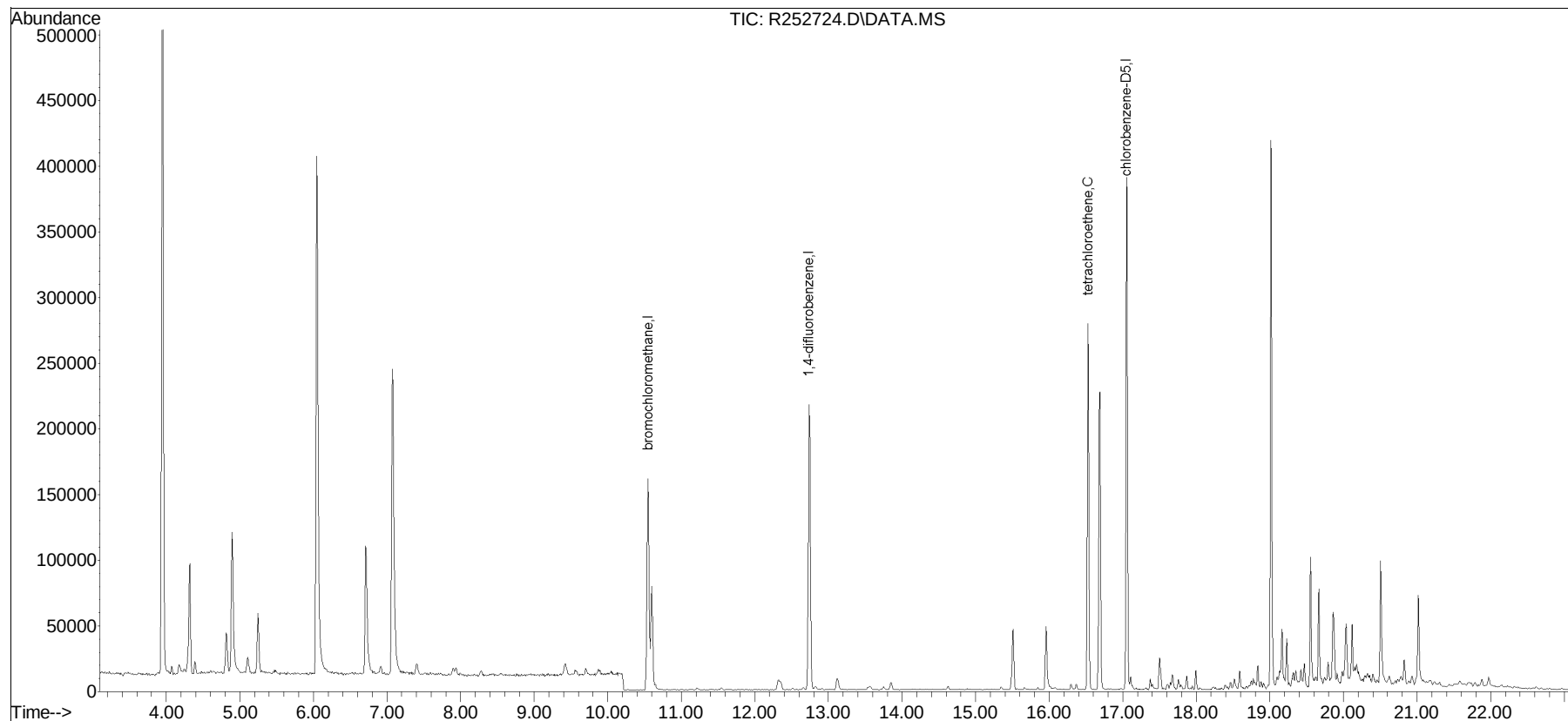
Target Compounds					Qvalue
9) vinyl chloride	0.00		0	N.D.	
26) 1,1-dichloroethene	0.00		0	N.D.	
32) trans-1,2-dichloroethene	0.00		0	N.D.	
33) 1,1-dichloroethane	0.00		0	N.D.	
37) cis-1,2-dichloroethene	0.00		0	N.D.	
42) 1,2-dichloroethane	0.00		0	N.D.	
48) 1,1,1-trichloroethane	0.00		0	N.D.	
59) trichloroethene	13.53		0	N.D.	
78) tetrachloroethene	16.53	166	64204	8.047 ppbV	92

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

Sub List : 9_Chlorinateds - .AIR2\2018\180303T\R252708.D

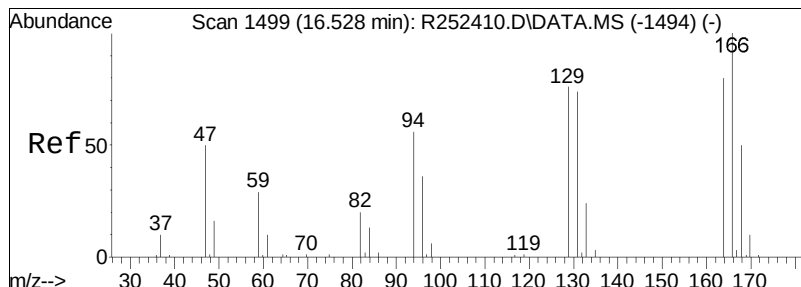
Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
Data File : R252724.D
Acq On : 3 Mar 2018 10:48 pm
Operator : AIRPIAN02:GJ
Sample : L1806385-03,3,250,250
Misc : WG1094274,ICAL14412
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 04 07:49:43 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:29:36 2018
Response via : Initial Calibration



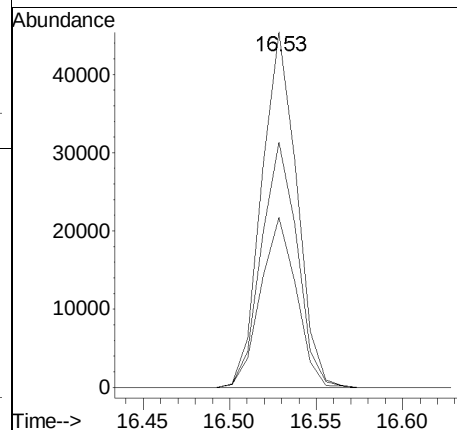
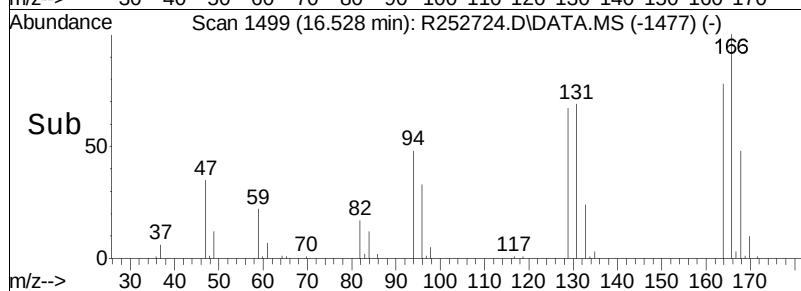
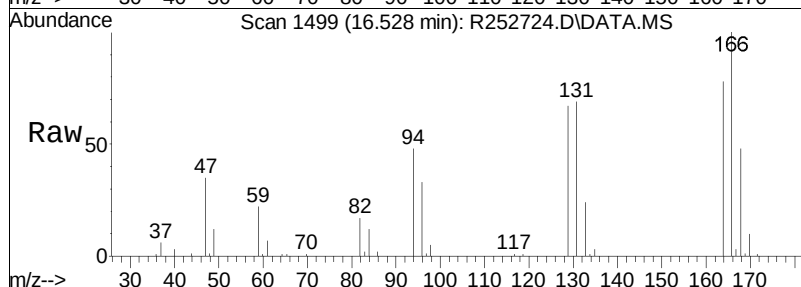
TALL180207.M Sun Mar 04 15:04:49 2018

Page: 2



#78
 tetrachloroethene
 Concen: 8.05 ppbV
 RT: 16.53 min Scan# 1499
 Delta R.T. 0.000 min
 Lab File: R252724.D
 Acq: 3 Mar 2018 10:48 pm

Tgt Ion:	166	Resp:	64204
Ion Ratio	Lower	Upper	
166	100		
131	69.0	59.0	88.4
94	47.8	44.4	66.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TALL180207.M
Data File	: R252724.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 10:48 pm	Instrument	: Airpiano 2
Sample	: L1806385-03,3,250,250	Quant Date	: 3/4/2018 7:49 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
 Data File : R252726.D
 Acq On : 3 Mar 2018 11:57 pm
 Operator : AIRPIAN02:GJ
 Sample : L1806385-05,3,250,250
 Misc : WG1094274,ICAL14412
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 04 07:49:49 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303T\R252708.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.55	49	86796	10.000	ppbV	# 0.00
Standard Area = 107164			Recovery =		80.99%	
43) 1,4-difluorobenzene	12.74	114	166979	10.000	ppbV	0.00
Standard Area = 219446			Recovery =		76.09%	
67) chlorobenzene-D5	17.06	54	42368	10.000	ppbV	# 0.00
Standard Area = 54259			Recovery =		78.08%	

System Monitoring Compounds

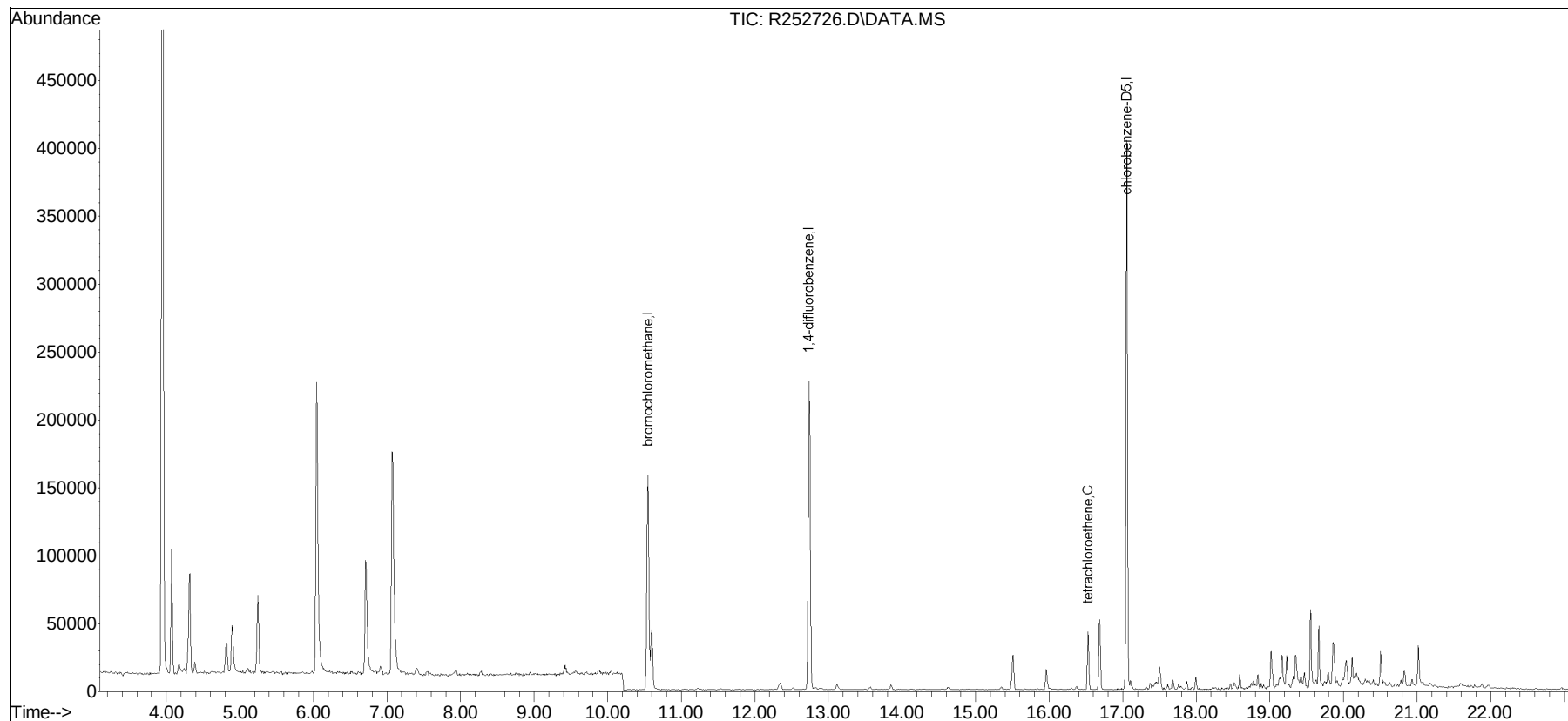
Target Compounds					Qvalue
9) vinyl chloride	0.00		0	N.D.	
26) 1,1-dichloroethene	0.00		0	N.D.	
32) trans-1,2-dichloroethene	0.00		0	N.D.	
33) 1,1-dichloroethane	0.00		0	N.D.	
37) cis-1,2-dichloroethene	0.00		0	N.D.	
42) 1,2-dichloroethane	0.00		0	N.D.	
48) 1,1,1-trichloroethane	0.00		0	N.D.	
59) trichloroethene	0.00		0	N.D.	
78) tetrachloroethene	16.53	166	10068	1.253 ppbV	# 87

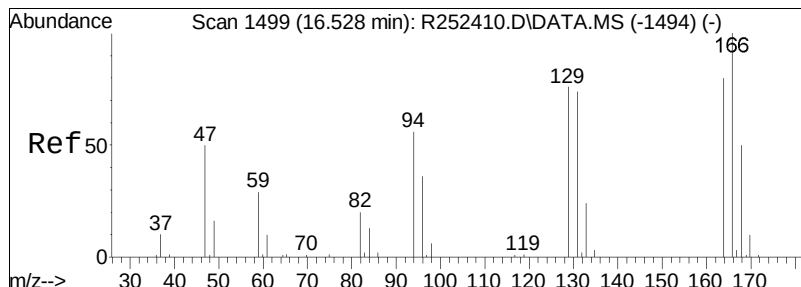
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 9_Chlorinateds - .AIR2\2018\180303T\R252708.D

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
Data File : R252726.D
Acq On : 3 Mar 2018 11:57 pm
Operator : AIRPIAN02:GJ
Sample : L1806385-05,3,250,250
Misc : WG1094274,ICAL14412
ALS Vial : 13 Sample Multiplier: 1

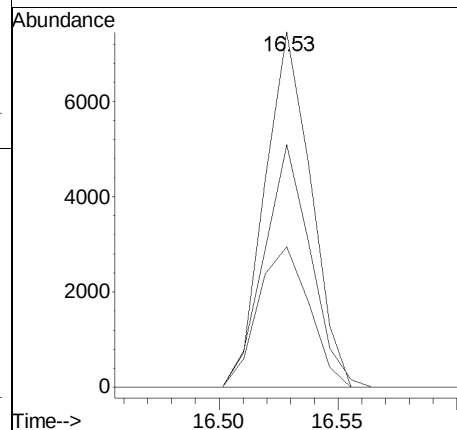
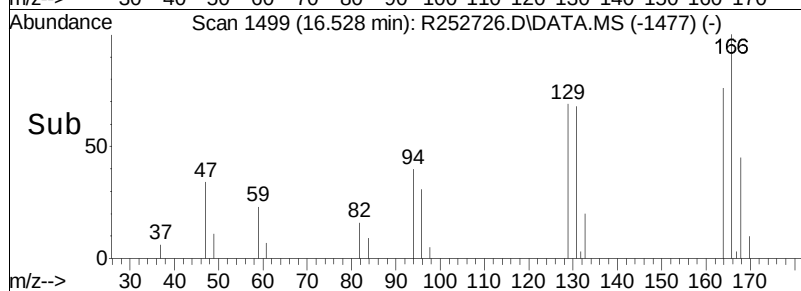
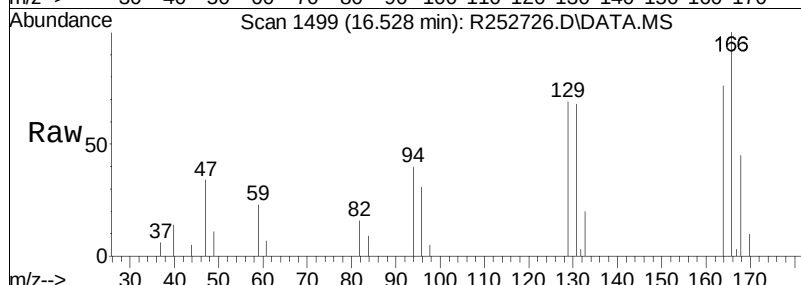
Quant Time: Mar 04 07:49:49 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:29:36 2018
Response via : Initial Calibration





#78
 tetrachloroethene
 Concen: 1.25 ppbV
 RT: 16.53 min Scan# 1499
 Delta R.T. 0.000 min
 Lab File: R252726.D
 Acq: 3 Mar 2018 11:57 pm

Tgt Ion:	166	Resp:	10068
Ion Ratio	Lower	Upper	
166	100		
131	68.3	59.0	88.4
94	39.6	44.4	66.6#



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TALL180207.M
Data File	: R252726.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 11:57 pm	Instrument	: Airpiano 2
Sample	: L1806385-05,3,250,250	Quant Date	: 3/4/2018 7:49 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
 Data File : R252727.D
 Acq On : 4 Mar 2018 12:32 am
 Operator : AIRPIAN02:GJ
 Sample : L1806385-07,3,250,250
 Misc : WG1094274,ICAL14412
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 04 07:49:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303T\R252708.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.55	49	90107	10.000	ppbV	# 0.00
Standard Area = 107164			Recovery =		84.08%	
43) 1,4-difluorobenzene	12.74	114	168854	10.000	ppbV	0.00
Standard Area = 219446			Recovery =		76.95%	
67) chlorobenzene-D5	17.06	54	41727	10.000	ppbV	# 0.00
Standard Area = 54259			Recovery =		76.90%	

System Monitoring Compounds

Target Compounds					Qvalue
9) vinyl chloride	0.00		0	N.D.	
26) 1,1-dichloroethene	0.00		0	N.D.	
32) trans-1,2-dichloroethene	0.00		0	N.D.	
33) 1,1-dichloroethane	0.00		0	N.D.	
37) cis-1,2-dichloroethene	0.00		0	N.D.	
42) 1,2-dichloroethane	0.00		0	N.D.	
48) 1,1,1-trichloroethane	0.00		0	N.D.	
59) trichloroethene	0.00		0	N.D.	
78) tetrachloroethene	16.53	166	4658	0.588 ppbV	89

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

Sub List : 9_Chlorinateds - .AIR2\2018\180303T\R252708.D

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\

Data File : R252727.D

Acq On : 4 Mar 2018 12:32 am

Operator : AIRPIAN02:GJ

Sample : L1806385-07,3,250,250

Misc : WG1094274,ICAL14412

ALS Vial : 14 Sample Multiplier: 1

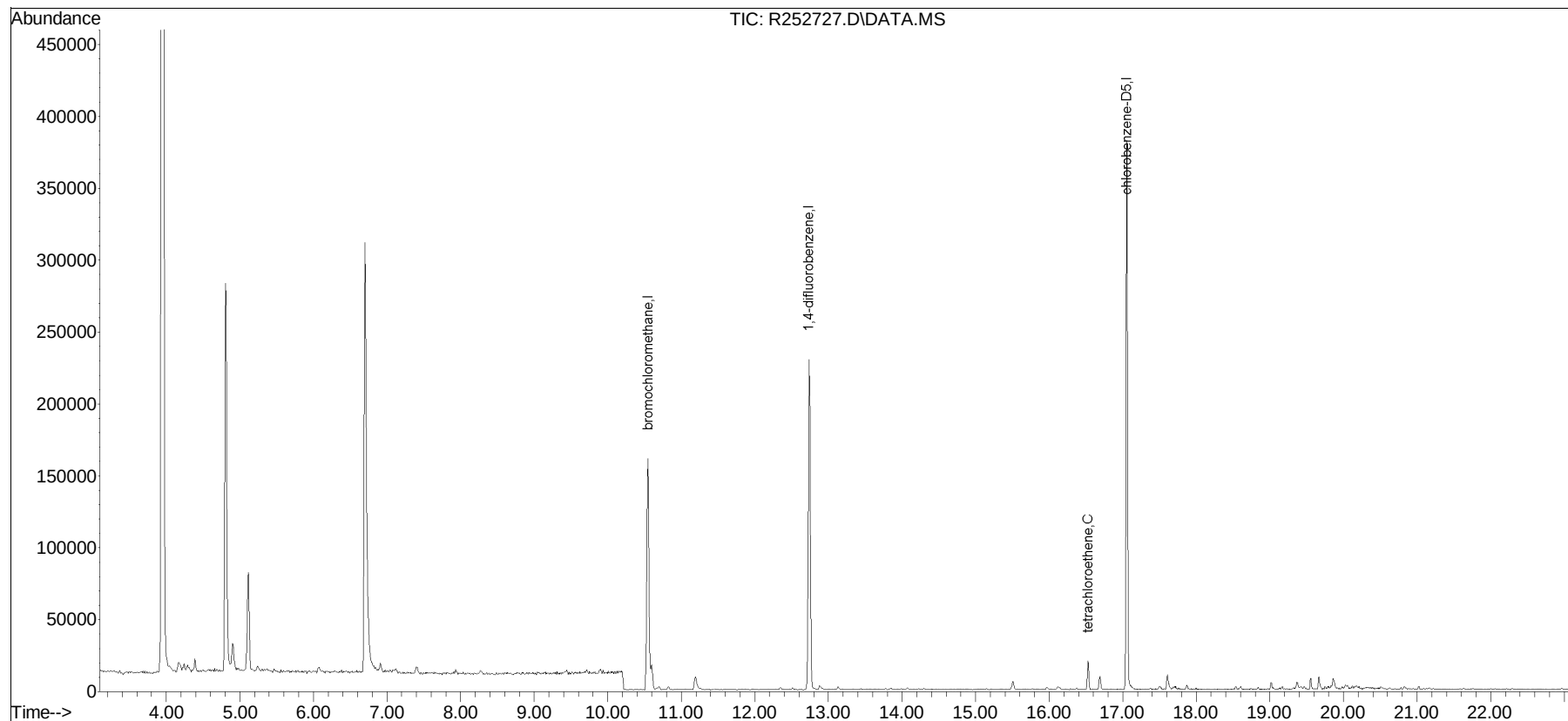
Quant Time: Mar 04 07:49:52 2018

Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

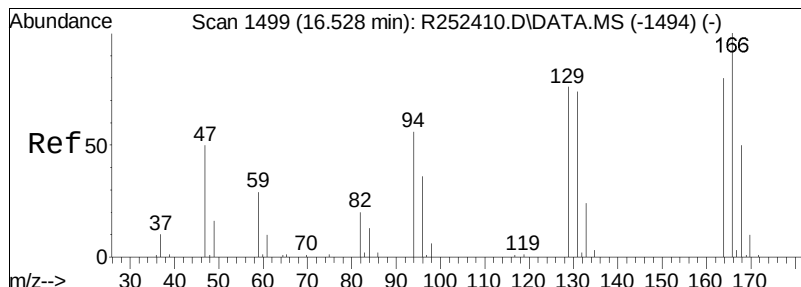
QLast Update : Thu Feb 08 09:29:36 2018

Response via : Initial Calibration



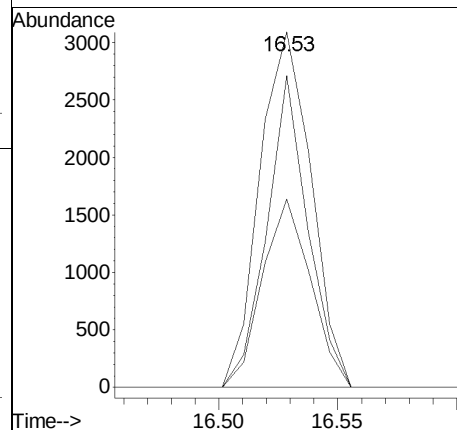
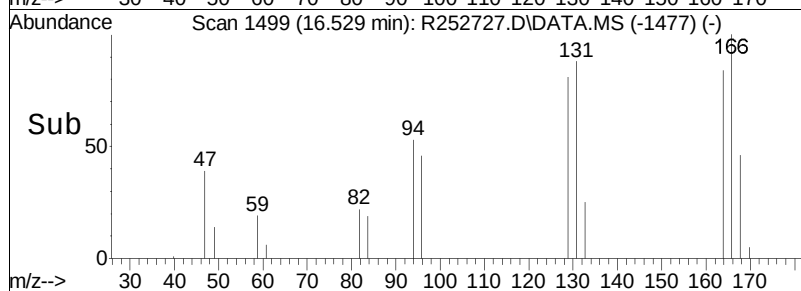
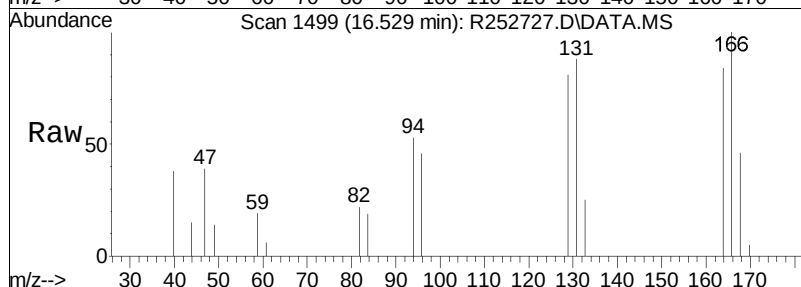
TALL180207.M Sun Mar 04 15:05:04 2018

Page: 2



#78
 tetrachloroethene
 Concen: 0.59 ppbV
 RT: 16.53 min Scan# 1499
 Delta R.T. 0.000 min
 Lab File: R252727.D
 Acq: 4 Mar 2018 12:32 am

Tgt Ion:	166	Resp:	4658
Ion Ratio	Lower	Upper	
166	100		
131	87.7	59.0	88.4
94	53.0	44.4	66.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TALL180207.M
Data File	: R252727.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/4/2018 12:32 am	Instrument	: Airpiano 2
Sample	: L1806385-07,3,250,250	Quant Date	: 3/4/2018 7:49 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
 Data File : R252728.D
 Acq On : 4 Mar 2018 1:06 am
 Operator : AIRPIAN02:GJ
 Sample : L1806385-09,3,250,250
 Misc : WG1094274,ICAL14412
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 04 07:49:55 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303T\R252708.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.55	49	90143	10.000	ppbV	# 0.00
Standard Area = 107164			Recovery =		84.12%	
43) 1,4-difluorobenzene	12.74	114	173546	10.000	ppbV	0.00
Standard Area = 219446			Recovery =		79.08%	
67) chlorobenzene-D5	17.06	54	45156	10.000	ppbV	# 0.00
Standard Area = 54259			Recovery =		83.22%	

System Monitoring Compounds

Target Compounds						Qvalue
9) vinyl chloride	0.00		0		N.D.	
26) 1,1-dichloroethene	7.71		0		N.D.	
32) trans-1,2-dichloroethene	0.00		0		N.D.	
33) 1,1-dichloroethane	0.00		0		N.D.	
37) cis-1,2-dichloroethene	0.00		0		N.D.	
42) 1,2-dichloroethane	0.00		0		N.D.	
48) 1,1,1-trichloroethane	11.83		0		N.D.	
59) trichloroethene	13.53	130	4459	0.519	ppbV	92
78) tetrachloroethene	16.53	166	553752	64.645	ppbV	95

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

Sub List : 9_Chlorinateds - .AIR2\2018\180303T\R252708.D

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\

Data File : R252728.D

Acq On : 4 Mar 2018 1:06 am

Operator : AIRPIAN02:GJ

Sample : L1806385-09,3,250,250

Misc : WG1094274,ICAL14412

ALS Vial : 15 Sample Multiplier: 1

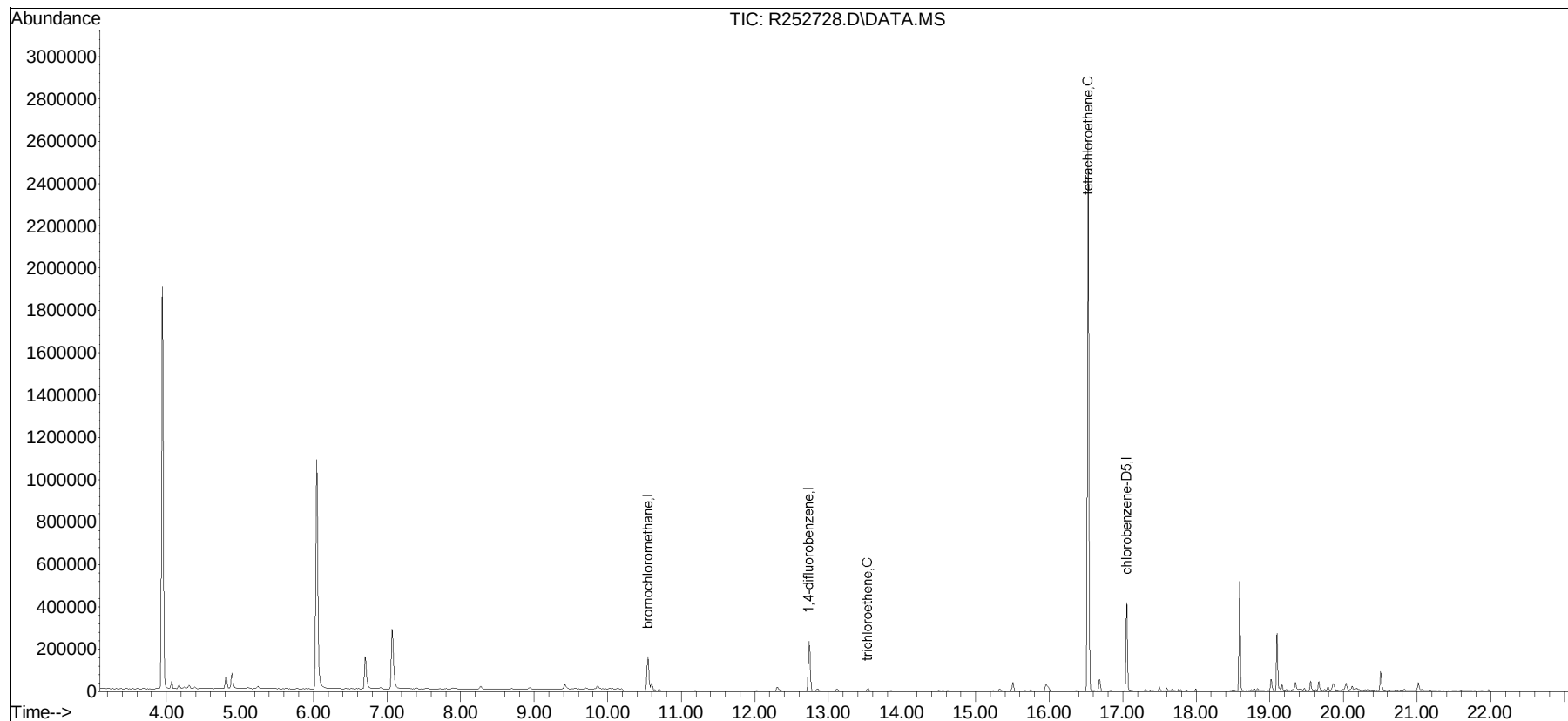
Quant Time: Mar 04 07:49:55 2018

Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

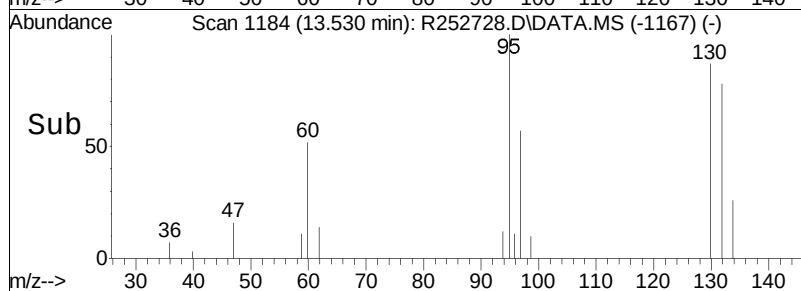
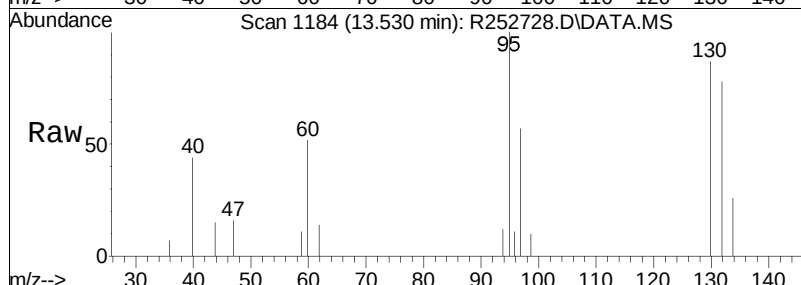
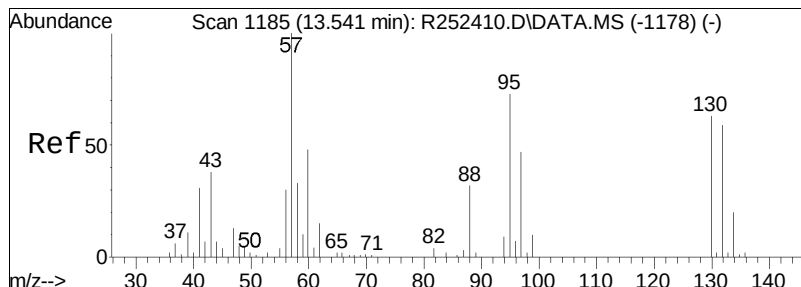
QLast Update : Thu Feb 08 09:29:36 2018

Response via : Initial Calibration



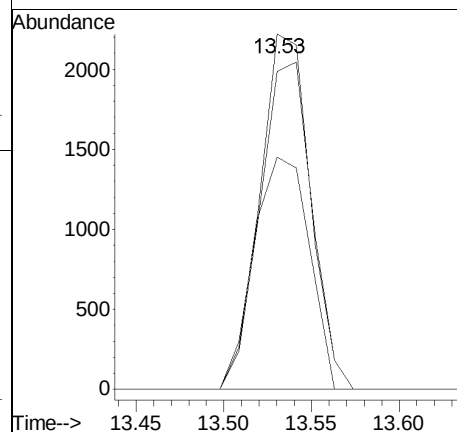
TALL180207.M Sun Mar 04 15:05:09 2018

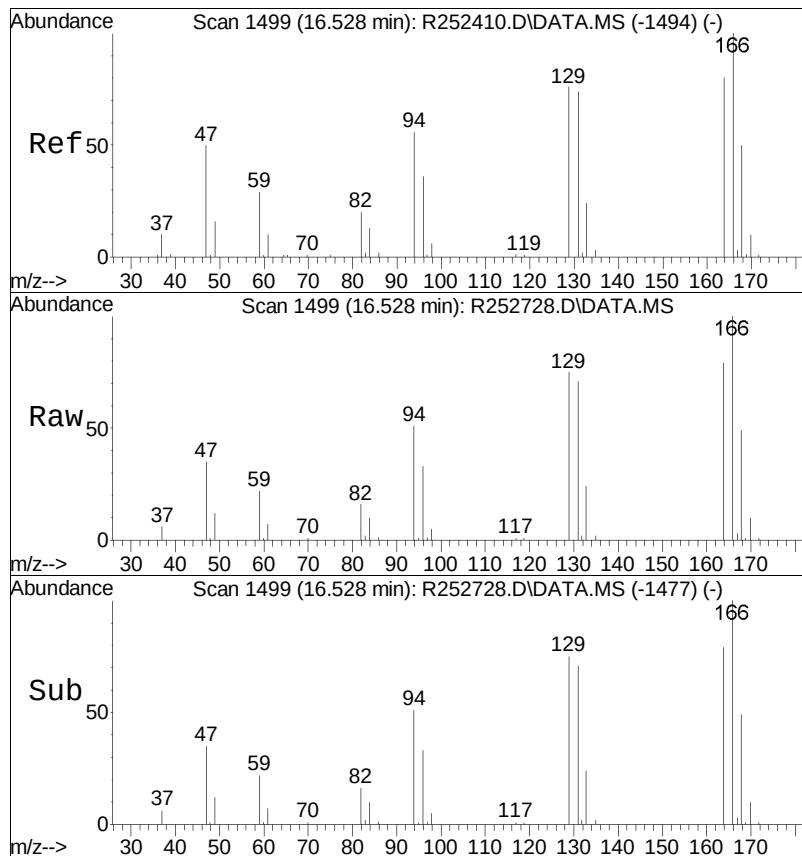
Page: 2



#59
trichloroethene
Concen: 0.52 ppbV
RT: 13.53 min Scan# 1184
Delta R.T. -0.011 min
Lab File: R252728.D
Acq: 4 Mar 2018 1:06 am

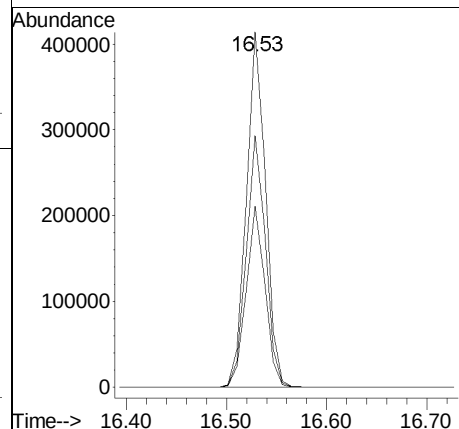
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	4459		
132	89.5		75.5	113.3
97	65.4		60.2	90.2





#78
 tetrachloroethene
 Concen: 64.64 ppbV
 RT: 16.53 min Scan# 1499
 Delta R.T. -0.000 min
 Lab File: R252728.D
 Acq: 4 Mar 2018 1:06 am

Tgt Ion	Ratio	Lower	Upper
166	100		
131	70.9	59.0	88.4
94	51.0	44.4	66.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TALL180207.M
Data File	: R252728.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/4/2018 1:06 am	Instrument	: Airpiano 2
Sample	: L1806385-09,3,250,250	Quant Date	: 3/4/2018 7:49 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
 Data File : R252729.D
 Acq On : 4 Mar 2018 1:41 am
 Operator : AIRPIAN02:GJ
 Sample : L1806385-10,3,250,250
 Misc : WG1094274,ICAL14412
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 04 07:49:58 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303T\R252708.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.55	49	86373	10.000	ppbV	# 0.00
Standard Area = 107164			Recovery =		80.60%	
43) 1,4-difluorobenzene	12.74	114	164145	10.000	ppbV	0.00
Standard Area = 219446			Recovery =		74.80%	
67) chlorobenzene-D5	17.06	54	39706	10.000	ppbV	# 0.00
Standard Area = 54259			Recovery =		73.18%	

System Monitoring Compounds

Target Compounds						Qvalue
9) vinyl chloride	0.00		0		N.D.	
26) 1,1-dichloroethene	0.00		0		N.D.	
32) trans-1,2-dichloroethene	0.00		0		N.D.	
33) 1,1-dichloroethane	0.00		0		N.D.	
37) cis-1,2-dichloroethene	0.00		0		N.D.	
42) 1,2-dichloroethane	0.00		0		N.D.	
48) 1,1,1-trichloroethane	0.00		0		N.D.	
59) trichloroethene	0.00		0		N.D.	
78) tetrachloroethene	16.53	166	6247	0.829	ppbV #	77

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

Sub List : 9_Chlorinateds - .AIR2\2018\180303T\R252708.D

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\

Data File : R252729.D

Acq On : 4 Mar 2018 1:41 am

Operator : AIRPIAN02:GJ

Sample : L1806385-10,3,250,250

Misc : WG1094274,ICAL14412

ALS Vial : 16 Sample Multiplier: 1

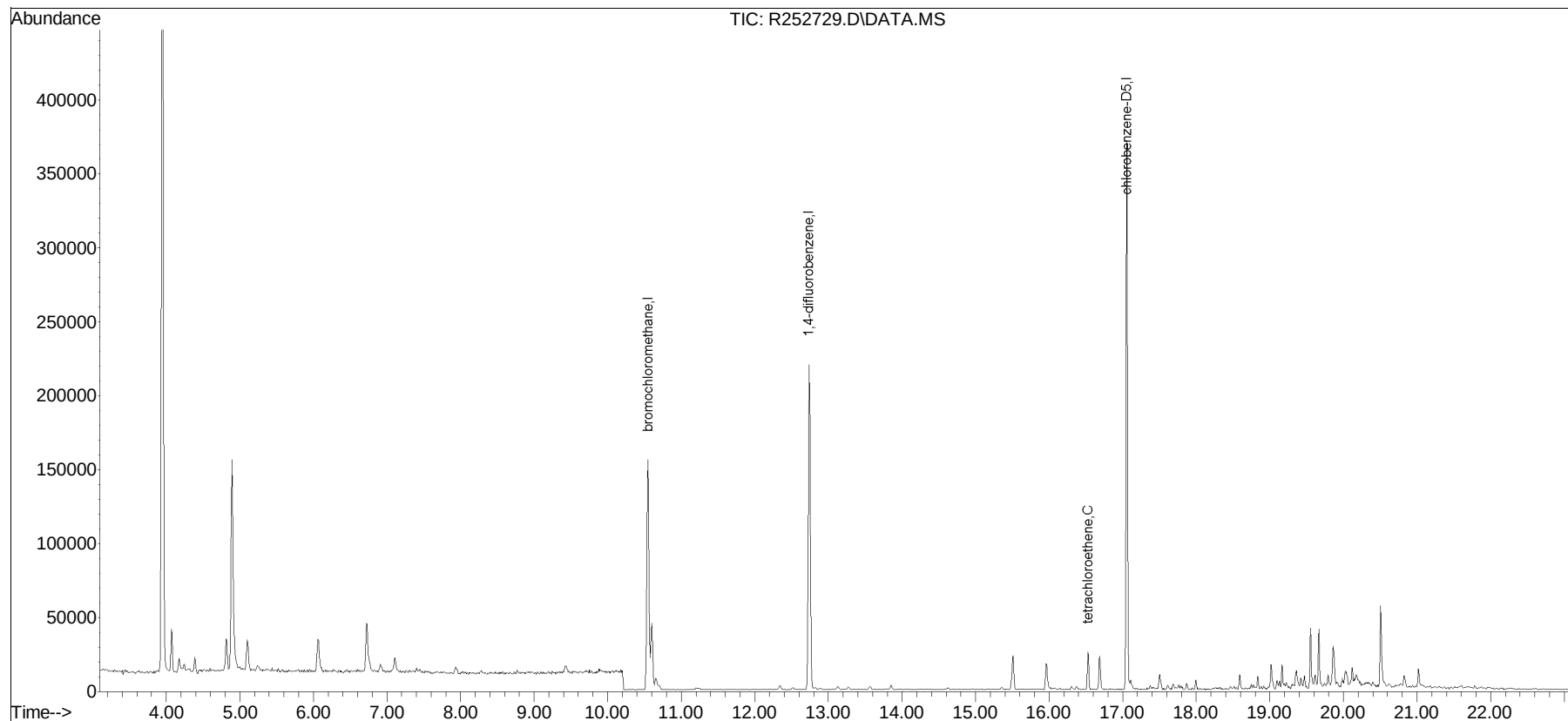
Quant Time: Mar 04 07:49:58 2018

Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

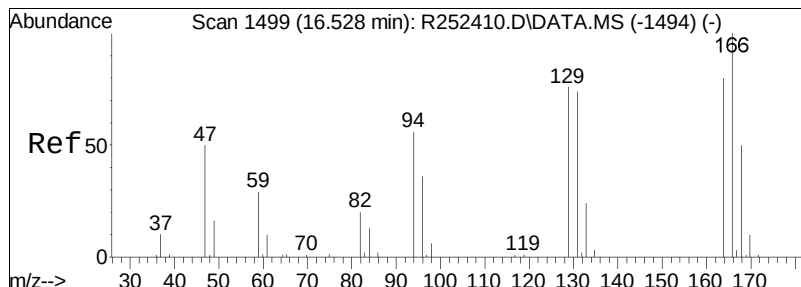
QLast Update : Thu Feb 08 09:29:36 2018

Response via : Initial Calibration



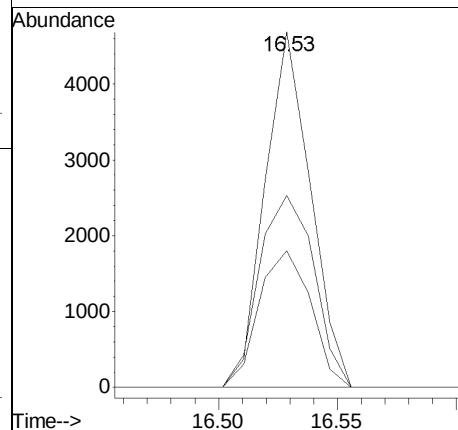
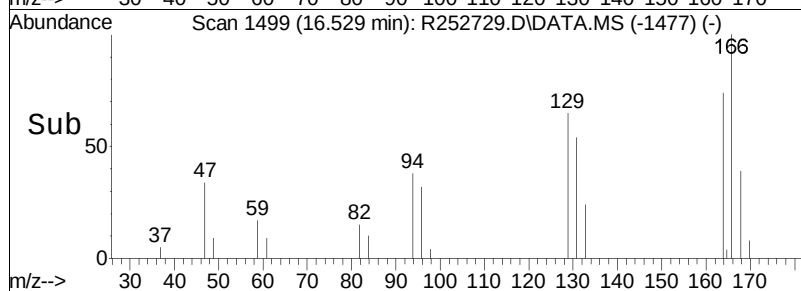
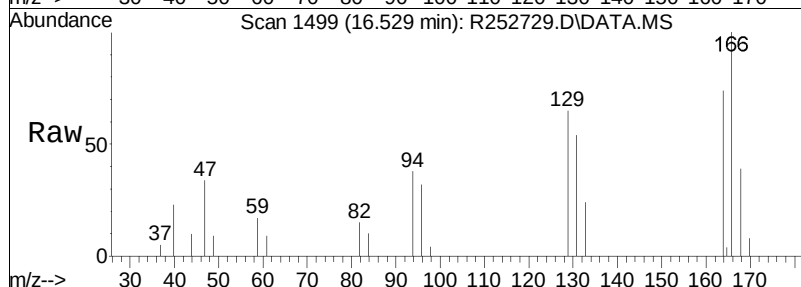
TALL180207.M Sun Mar 04 15:05:14 2018

Page: 2



#78
 tetrachloroethene
 Concen: 0.83 ppbV
 RT: 16.53 min Scan# 1499
 Delta R.T. 0.000 min
 Lab File: R252729.D
 Acq: 4 Mar 2018 1:41 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	6247		
131	54.0		59.0	88.4#
94	38.5		44.4	66.6#



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TALL180207.M
Data File	: R252729.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/4/2018 1:41 am	Instrument	: Airpiano 2
Sample	: L1806385-10,3,250,250	Quant Date	: 3/4/2018 7:49 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRPIANO2
 Calibration dates : 02/07/18 16:09 02/07/18 20:11

Lab Number : L1806385
 Project Number : 1802.001Y000
 Ical Ref : ICAL14412

Calibration Files

0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D 5.0 =R252409.D 10 =R252410.D 20 =R252411.D
 50 =R252412.D 100 =R252413.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoromethane	1.493	1.401	1.265	1.157	1.060	1.077	1.309	1.395	1.2697	12.57
3) propylene	0.675	0.641	0.661	0.657	0.605	0.618	0.761	0.820	0.6797	10.85
4) propane	0.894	0.881	0.723	0.653	0.557	0.561	0.663	0.685	0.7020	18.23
5) dichlorodifluoromethane	0.635	0.492	0.526	0.430	0.377	0.419	0.494	0.485	0.4823	16.27
6) C chloromethane	0.980	0.929	0.857	0.815	0.689	0.682	0.776	0.866	0.8244	12.89
7) Freon-114	1.906	1.502	1.589	1.087	0.978	0.846	0.816	0.769	1.1867	35.74#
8) C methanol			0.454	0.387	0.336	0.318	0.327	0.346	0.3614	14.19
9) C vinyl chloride	0.960	0.840	0.848	0.772	0.698	0.675	0.740	0.844	0.7970	11.80
10) C 1,3-butadiene	0.736	0.601	0.634	0.579	0.538	0.513	0.548	0.628	0.5972	11.82
11) butane	1.746	1.619	1.568	1.449	1.265	1.235	1.256	1.518	1.4569	13.02
12) C acetaldehyde		0.611	0.590	0.476	0.423	0.442	0.466	0.483	0.4987	14.54
13) C bromomethane	0.618	0.618	0.615	0.573	0.546	0.519	0.530	0.622	0.5801	7.52
14) C chloroethane	0.454	0.426	0.419	0.387	0.355	0.335	0.324	0.393	0.3865	11.89
15) ethanol		0.902	0.791	0.747	0.714	0.700	0.637	0.677	0.7383	11.82
16) dichlorofluoromethane	1.961	1.719	1.642	1.586	1.497	1.436	1.359	1.593	1.5992	11.62
17) C vinyl bromide	0.534	0.525	0.552	0.518	0.509	0.501	0.465	0.563	0.5207	5.91
18) C acrolein		0.332	0.333	0.314	0.315	0.306	0.277	0.337	0.3165	6.55
19) acetone	1.510	1.367	1.297	1.146	1.120	1.160	1.021	1.100	1.2151	13.37
20) C acetonitrile	1.152	1.003	1.010	0.917	0.853	0.804	0.724	0.861	0.9156	14.80
21) trichlorofluoromethane	1.810	1.740	1.712	1.591	1.538	1.553	1.432	1.616	1.6240	7.59
22) isopropyl alcohol	1.991	1.607	1.399	1.189	1.165	1.259	1.111	1.225	1.3683	21.72
23) C acrylonitrile	0.614	0.672	0.607	0.621	0.591	0.601	0.521	0.602	0.6037	6.87
24) pentane	1.835	1.692	1.714	1.605	1.536	1.583	1.343	1.456	1.5955	9.70
25) ethyl ether	1.427	1.377	1.358	1.319	1.355	1.372	1.170	1.222	1.3250	6.51
26) C 1,1-dichloroethene	1.423	1.447	1.342	1.287	1.282	1.305	1.127	1.252	1.3082	7.68
27) tertiary butyl alcohol		1.165	1.149	1.126	1.147	1.249	1.148	1.299	1.1831	5.46
28) C methylene chloride		1.317	1.237	1.139	1.119	1.113	0.945	1.022	1.1274	11.03
29) C 3-chloropropene	1.473	1.400	1.343	1.250	1.257	1.273	1.088	1.170	1.2818	9.61
30) C carbon disulfide	2.092	2.136	2.029	1.982	1.989	2.096	1.863	2.025	2.0268	4.21
31) Freon 113	1.448	1.294	1.262	1.185	1.195	1.243	1.132	1.254	1.2517	7.54
32) trans-1,2-dichloroethene	1.157	1.192	1.238	1.178	1.171	1.232	1.073	1.076	1.1647	5.36
33) C 1,1-dichloroethane	1.829	1.661	1.626	1.505	1.485	1.543	1.351	1.262	1.5328	11.64
34) C MTBE	1.727	1.646	1.618	1.565	1.621	1.770	1.641	1.550	1.6422	4.54
35) C vinyl acetate	1.724	1.514	1.572	1.714	1.871	2.185	2.057	1.817	1.8068	12.67
36) C 2-butanone	2.682	2.308	2.212	2.094	2.137	2.255	2.010	1.607	2.1631	13.97
37) cis-1,2-dichloroethene	1.243	1.273	1.221	1.164	1.152	1.227	1.124	0.935	1.1672	9.14
38) Ethyl Acetate		0.158	0.164	0.208	0.222	0.257	0.256	0.225	0.2131	18.61



Initial Calibration Summary

Form 6

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRPIANO2
 Calibration dates : 02/07/18 16:09 02/07/18 20:11

Lab Number : L1806385
 Project Number : 1802.001Y000
 Ical Ref : ICAL14412

Calibration Files

0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D 5.0 =R252409.D 10 =R252410.D 20 =R252411.D
 50 =R252412.D 100 =R252413.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
39) C chloroform	1.503	1.465	1.422	1.355	1.321	1.432	1.363	1.253	1.3893	5.88
40) Tetrahydrofuran	0.902	0.946	0.929	0.931	0.999	1.123	1.090	1.014	0.9917	8.09
41) 2,2-dichloropropane	0.985	0.936	0.963	0.973	1.005	1.147	1.126	1.080	1.0269	7.78
42) C 1,2-dichloroethane	1.155	1.119	1.092	1.045	1.034	1.072	1.026	0.981	1.0654	5.24
43) I 1,4-difluorobenzene	-----ISTD-----									
44) C hexane	0.923	0.740	0.729	0.787	0.777	0.895	0.832	0.717	0.7999	9.60
45) diisopropyl ether	0.231	0.253	0.256	0.277	0.284	0.330	0.317	0.281	0.2784	11.91
46) tert-butyl ethyl ether	1.032	1.068	1.115	1.228	1.260	1.478	1.456	1.375	1.2515	13.83
47) s 1,2-dichloroethane-D4	0.412	0.411	0.414	0.398	0.406	0.393	0.392	0.382	0.4010	2.86
48) C 1,1,1-trichloroethane	0.912	0.849	0.797	0.773	0.768	0.844	0.810	0.790	0.8179	5.91
49) 1,1-dichloropropene	0.677	0.553	0.550	0.617	0.610	0.687	0.659	0.642	0.6244	8.34
50) C benzene	1.323	1.240	1.240	1.291	1.270	1.400	1.302	1.242	1.2887	4.25
51) thiophene	0.714	0.582	0.647	0.623	0.618	0.737	0.715	0.706	0.6678	8.57
52) C carbon tetrachloride	0.883	0.839	0.843	0.813	0.767	0.873	0.838	0.837	0.8366	4.26
53) cyclohexane	0.747	0.713	0.726	0.772	0.758	0.855	0.798	0.789	0.7699	5.88
54) tert-amyl methyl ether	0.792	0.725	0.730	0.816	0.852	0.992	1.017	1.056	0.8724	15.06
55) dibromomethane	0.571	0.513	0.476	0.489	0.470	0.526	0.508	0.507	0.5076	6.29
56) C 1,2-dichloropropane	0.592	0.588	0.570	0.554	0.554	0.615	0.594	0.597	0.5829	3.73
57) bromodichloromethane	1.136	0.975	0.988	0.982	0.960	1.059	1.018	1.024	1.0178	5.63
58) C 1,4-dioxane	0.181	0.198	0.194	0.234	0.240	0.294	0.295	0.307	0.2428	20.73
59) C trichloroethene	0.535	0.522	0.438	0.461	0.461	0.519	0.508	0.516	0.4950	7.29
60) C 2,2,4-trimethylpentane	2.417	2.223	2.357	2.610	2.584	2.863	2.737	2.638	2.5535	8.20
61) methyl methacrylate	0.482	0.564	0.528	0.557	0.603	0.762	0.748	0.719	0.6203	17.37
62) heptane	1.234	1.055	1.067	1.133	1.149	1.284	1.207	1.156	1.1605	6.82
63) C cis-1,3-dichloropropene	0.541	0.571	0.638	0.690	0.713	0.809	0.774	0.796	0.6915	14.68
64) C 4-methyl-2-pentanone	1.210	1.127	1.123	1.469	1.517	1.751	1.689	1.625	1.4389	17.63
65) trans-1,3-dichloropropene	0.623	0.618	0.616	0.686	0.730	0.816	0.800	0.842	0.7163	13.19
66) C 1,1,2-trichloroethane	0.561	0.549	0.509	0.485	0.472	0.527	0.494	0.522	0.5150	5.96
67) I chlorobenzene-D5	-----ISTD-----									
68) C toluene	4.297	4.137	4.253	4.524	4.528	4.993	4.745	4.288	4.4705	6.42
69) s toluene-D8	2.866	2.852	2.875	2.822	2.897	2.903	2.914	2.756	2.8606	1.81
70) 2-methylthiophene	2.624	2.420	2.513	2.616	2.684	3.190	3.055	2.786	2.7360	9.67
71) 1,3-dichloropropane	2.402	2.251	2.323	2.320	2.300	2.504	2.364	2.167	2.3289	4.31
72) 2-hexanone	3.108	3.339	3.461	4.248	4.526	5.281	5.175	4.299	4.1797	19.63
73) 3-methylthiophene	2.578	2.396	2.409	2.738	2.784	3.299	3.134	2.859	2.7747	11.62
74) dibromochloromethane	2.364	2.232	2.335	2.421	2.399	2.687	2.661	2.563	2.4577	6.60
75) C 1,2-dibromoethane	2.587	2.109	2.134	2.217	2.253	2.464	2.371	2.336	2.3088	7.11
76) butyl acetate	0.219	0.232	0.348	0.429	0.475	0.561	0.565	0.545	0.4219	33.62#

Initial Calibration Summary

Form 6

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRPIANO2
 Calibration dates : 02/07/18 16:09 02/07/18 20:11

Lab Number : L1806385
 Project Number : 1802.001Y000
 Ical Ref : ICAL14412

Calibration Files

0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D 5.0 =R252409.D 10 =R252410.D 20 =R252411.D
 50 =R252412.D 100 =R252413.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
77)	octane	0.961	0.936	1.066	1.181	1.232	1.377	1.305	1.297	1.1693	14.11
78) C	tetrachloroethene	2.099	1.775	1.773	1.792	1.773	1.983	1.996	1.986	1.8970	6.97
79)	1,1,1,2-tetrachloroethane	1.791	1.598	1.661	1.642	1.652	1.817	1.809	1.857	1.7284	5.76
80) C	chlorobenzene	3.585	3.244	3.206	3.277	3.268	3.556	3.487	3.662	3.4107	5.30
81) C	ethylbenzene	4.798	4.596	5.073	5.733	5.814	6.354	6.123	6.072	5.5704	11.85
82)	2-ethylthiophene	2.181	2.151	2.331	2.531	2.547	2.959	2.857	2.901	2.5573	12.60
83) C	m+p-xylene	3.773	3.934	4.078	4.646	4.698	5.105	5.074	4.908	4.5270	11.64
84) C	bromoform	2.188	2.081	2.128	2.338	2.371	2.680	2.807	2.812	2.4255	12.41
85) C	styrene	2.589	2.408	2.663	3.262	3.304	3.618	3.492	3.632	3.1211	15.79
86) C	1,1,2,2-tetrachloroethane	3.672	3.663	3.736	3.996	3.990	4.372	4.485	3.556	3.9338	8.73
87) C	o-xylene	3.684	3.834	4.192	4.795	4.879	5.384	5.528	4.692	4.6235	14.59
88)	1,2,3-trichloropropane	2.877	2.975	2.881	2.972	2.964	3.162	3.066	3.240	3.0170	4.29
89)	nonane	4.237	4.373	4.807	5.356	5.344	5.752	5.590	5.019	5.0597	10.94
90) s	bromofluorobenzene	1.229	1.403	1.404	1.490	1.414	1.385	1.435	1.635	1.4244	7.93
91) C	isopropylbenzene	4.791	4.664	5.029	5.606	5.634	6.110	6.056	6.188	5.5099	11.08
92)	bromobenzene	3.386	3.227	3.319	3.507	3.448	3.737	3.759	3.999	3.5477	7.36
93)	2-chlorotoluene	1.182	1.139	1.245	1.428	1.438	1.571	1.657	1.694	1.4192	15.09
94)	n-propylbenzene	1.093	1.259	1.327	1.565	1.589	1.716	1.846	1.856	1.5314	18.32
95)	4-chlorotoluene	4.364	4.129	4.508	4.702	4.684	5.023	4.967	5.268	4.7055	7.93
96)	4-ethyl toluene	4.255	4.771	5.355	6.114	6.189	6.699	6.820	6.901	5.8879	16.85
97)	1,3,5-trimethylbenzene	4.683	4.398	4.851	5.326	5.514	6.052	6.448	6.726	5.4997	15.43
98)	tert-butylbenzene	3.786	4.072	4.557	5.305	5.356	5.879	6.466	4.981	5.0501	17.80
99)	1,2,4-trimethylbenzene	3.808	4.166	4.489	5.270	5.422	6.051	6.696	5.028	5.1162	18.83
100)	decane	2.676	3.133	3.851	4.568	4.598	4.937	5.100	4.811	4.2092	21.25
101) C	Benzyl Chloride	2.949	2.779	2.946	4.040	4.258	4.936	5.522	5.735	4.1456	28.56
102)	1,3-dichlorobenzene	3.100	3.170	3.162	3.445	3.400	3.702	4.008	4.110	3.5121	11.11
103) C	1,4-dichlorobenzene	3.130	3.081	3.297	3.445	3.471	3.832	4.361	3.553	3.5211	11.80
104)	sec-butylbenzene	5.682	5.922	6.528	7.495	7.544	8.214	9.106	7.261	7.2190	15.93
105)	1,2,3-trimethylbenzene	3.186	3.152	3.488	3.642	3.671	4.160	4.583	4.428	3.7889	14.36
106)	p-isopropyltoluene	4.484	4.494	5.137	6.282	6.320	6.890	7.674	6.692	5.9965	19.49
107)	1,2-dichlorobenzene	2.824	2.893	2.961	3.238	3.184	3.432	3.765	3.899	3.2745	12.17
108)	n-butylbenzene	4.636	4.907	5.493	6.758	6.697	7.089	7.863	7.381	6.3529	18.76
109)	indan	2.943	3.132	3.519	3.796	3.825	4.317	4.653	4.811	3.8744	17.54
110)	indene	1.531	1.579	1.694	2.026	2.043	2.292	2.487	2.638	2.0363	20.44
111) C	1,2-dibromo-3-chloropropane	1.760	1.487	1.549	1.809	1.913	2.064	2.446	2.446	1.9342	18.90
112)	undecane	2.498	2.354	3.311	5.019	5.188	5.476	6.284	5.146	4.4095	33.48#
113)	1,2,4,5-tetramethylbenzene	2.925	3.385	3.929	5.592	5.724	6.538	7.686	6.680	5.3074	32.31#
114)	dodecane	1.816	2.245	2.889	5.248	5.786	5.806	7.076	4.474	4.4176	43.11#



Initial Calibration Summary

Form 6

Client : Roux Associates, Inc.
Project Name : OCEANSIDE PLAZA
Instrument ID : AIRPIANO2
Calibration dates : 02/07/18 16:09 02/07/18 20:11

Lab Number : L1806385
Project Number : 1802.001Y000
Ical Ref : ICAL14412

Calibration Files

0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D 5.0 =R252409.D 10 =R252410.D 20 =R252411.D
 50 =R252412.D 100 =R252413.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
115) C	1,2,4-trichlorobenzene	2.061	2.072	2.249	2.916	3.065	3.252	4.342	3.188	2.8931	26.55
116)	naphthalene	3.886	4.638	4.813	6.569	6.889	7.011	8.712	8.519	6.3796	28.05
117)	1,2,3-trichlorobenzene	1.947	1.898	1.898	2.730	2.844	2.947	3.828	3.807	2.7375	29.04
118)	benzothiophene		3.916	4.366	4.989	5.301	6.592	8.317	8.057	5.9340	29.54
119) C	hexachlorobutadiene	1.902	1.925	2.033	2.492	2.701	2.825	3.762	3.051	2.5864	24.84
120)	2-methylnaphthalene			0.614	1.030	1.369	1.764	2.433	2.567	1.6296	47.54#
121)	1-methylnaphthalene			0.857	1.476	1.829	2.132	2.967	3.093	2.0590	41.97#

Response Factor Report Airpiano 2

Method Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Method File : TALL180207.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Thu Feb 08 09:31:39 2018
 Response Via : Initial Calibration

Calibration Files

0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D 5.0 =R252409.D 10 =R252410.D 20 =R252411.D
 50 =R252412.D 100 =R252413.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD

1) I	bromochloromethane	-----ISTD-----									
2)	chlorodifluoromethane	1.493	1.401	1.265	1.157	1.060	1.077	1.309	1.395	1.2697	12.57
3)	propylene	0.675	0.641	0.661	0.657	0.605	0.618	0.761	0.820	0.6797	10.85
4)	propane	0.894	0.881	0.723	0.653	0.557	0.561	0.663	0.685	0.7020	18.23
5)	dichlorodifluoromethane	0.635	0.492	0.526	0.430	0.377	0.419	0.494	0.485	0.4823	16.27
6) C	chloromethane	0.980	0.929	0.857	0.815	0.689	0.682	0.776	0.866	0.8244	12.89
7)	Freon-114	1.906	1.502	1.589	1.087	0.978	0.846	0.816	0.769	1.1867	35.74#
8) C	methanol			0.454	0.387	0.336	0.318	0.327	0.346	0.3614	14.19
9) C	vinyl chloride	0.960	0.840	0.848	0.772	0.698	0.675	0.740	0.844	0.7970	11.80
10) C	1,3-butadiene	0.736	0.601	0.634	0.579	0.538	0.513	0.548	0.628	0.5972	11.82
11)	butane	1.746	1.619	1.568	1.449	1.265	1.235	1.256	1.518	1.4569	13.02
12) C	acetaldehyde		0.611	0.590	0.476	0.423	0.442	0.466	0.483	0.4987	14.54
13) C	bromomethane	0.618	0.618	0.615	0.573	0.546	0.519	0.530	0.622	0.5801	7.52
14) C	chloroethane	0.454	0.426	0.419	0.387	0.355	0.335	0.324	0.393	0.3865	11.89
15)	ethanol		0.902	0.791	0.747	0.714	0.700	0.637	0.677	0.7383	11.82
16)	dichlorofluoromethane	1.961	1.719	1.642	1.586	1.497	1.436	1.359	1.593	1.5992	11.62
17) C	vinyl bromide	0.534	0.525	0.552	0.518	0.509	0.501	0.465	0.563	0.5207	5.91
18) C	acrolein		0.332	0.333	0.314	0.315	0.306	0.277	0.337	0.3165	6.55
19)	acetone	1.510	1.367	1.297	1.146	1.120	1.160	1.021	1.100	1.2151	13.37
20) C	acetonitrile	1.152	1.003	1.010	0.917	0.853	0.804	0.724	0.861	0.9156	14.80
21)	trichlorofluoromethane	1.810	1.740	1.712	1.591	1.538	1.553	1.432	1.616	1.6240	7.59
22)	isopropyl alcohol	1.991	1.607	1.399	1.189	1.165	1.259	1.111	1.225	1.3683	21.72
23) C	acrylonitrile	0.614	0.672	0.607	0.621	0.591	0.601	0.521	0.602	0.6037	6.87
24)	pentane	1.835	1.692	1.714	1.605	1.536	1.583	1.343	1.456	1.5955	9.70
25)	ethyl ether	1.427	1.377	1.358	1.319	1.355	1.372	1.170	1.222	1.3250	6.51
26) C	1,1-dichloroethene	1.423	1.447	1.342	1.287	1.282	1.305	1.127	1.252	1.3082	7.68
27)	tertiary butyl alcohol		1.165	1.149	1.126	1.147	1.249	1.148	1.299	1.1831	5.46
28) C	methylene chloride		1.317	1.237	1.139	1.119	1.113	0.945	1.022	1.1274	11.03
29) C	3-chloropropene	1.473	1.400	1.343	1.250	1.257	1.273	1.088	1.170	1.2818	9.61
30) C	carbon disulfide	2.092	2.136	2.029	1.982	1.989	2.096	1.863	2.025	2.0268	4.21
31)	Freon 113	1.448	1.294	1.262	1.185	1.195	1.243	1.132	1.254	1.2517	7.54

Response Factor Report Airpiano 2

Method Path : O:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Method File : TALL180207.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Thu Feb 08 09:31:39 2018
 Response Via : Initial Calibration

Calibration Files

0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D 5.0 =R252409.D 10 =R252410.D 20 =R252411.D
 50 =R252412.D 100 =R252413.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)	trans-1,2-dichloroethene	1.157	1.192	1.238	1.178	1.171	1.232	1.073	1.076	1.1647	5.36
33) C	1,1-dichloroethane	1.829	1.661	1.626	1.505	1.485	1.543	1.351	1.262	1.5328	11.64
34) C	MTBE	1.727	1.646	1.618	1.565	1.621	1.770	1.641	1.550	1.6422	4.54
35) C	vinyl acetate	1.724	1.514	1.572	1.714	1.871	2.185	2.057	1.817	1.8068	12.67
36) C	2-butanone	2.682	2.308	2.212	2.094	2.137	2.255	2.010	1.607	2.1631	13.97
37)	cis-1,2-dichloroethene	1.243	1.273	1.221	1.164	1.152	1.227	1.124	0.935	1.1672	9.14
38)	Ethyl Acetate		0.158	0.164	0.208	0.222	0.257	0.256	0.225	0.2131	18.61
39) C	chloroform	1.503	1.465	1.422	1.355	1.321	1.432	1.363	1.253	1.3893	5.88
40)	Tetrahydrofuran	0.902	0.946	0.929	0.931	0.999	1.123	1.090	1.014	0.9917	8.09
41)	2,2-dichloropropane	0.985	0.936	0.963	0.973	1.005	1.147	1.126	1.080	1.0269	7.78
42) C	1,2-dichloroethane	1.155	1.119	1.092	1.045	1.034	1.072	1.026	0.981	1.0654	5.24
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.923	0.740	0.729	0.787	0.777	0.895	0.832	0.717	0.7999	9.60
45)	diisopropyl ether	0.231	0.253	0.256	0.277	0.284	0.330	0.317	0.281	0.2784	11.91
46)	tert-butyl ethyl ether	1.032	1.068	1.115	1.228	1.260	1.478	1.456	1.375	1.2515	13.83
47) s	1,2-dichloroethane-D4	0.412	0.411	0.414	0.398	0.406	0.393	0.392	0.382	0.4010	2.86
48) C	1,1,1-trichloroethane	0.912	0.849	0.797	0.773	0.768	0.844	0.810	0.790	0.8179	5.91
49)	1,1-dichloropropene	0.677	0.553	0.550	0.617	0.610	0.687	0.659	0.642	0.6244	8.34
50) C	benzene	1.323	1.240	1.240	1.291	1.270	1.400	1.302	1.242	1.2887	4.25
51)	thiophene	0.714	0.582	0.647	0.623	0.618	0.737	0.715	0.706	0.6678	8.57
52) C	carbon tetrachloride	0.883	0.839	0.843	0.813	0.767	0.873	0.838	0.837	0.8366	4.26
53)	cyclohexane	0.747	0.713	0.726	0.772	0.758	0.855	0.798	0.789	0.7699	5.88
54)	tert-amyl methyl ether	0.792	0.725	0.730	0.816	0.852	0.992	1.017	1.056	0.8724	15.06
55)	dibromomethane	0.571	0.513	0.476	0.489	0.470	0.526	0.508	0.507	0.5076	6.29
56) C	1,2-dichloropropane	0.592	0.588	0.570	0.554	0.554	0.615	0.594	0.597	0.5829	3.73
57)	bromodichloromethane	1.136	0.975	0.988	0.982	0.960	1.059	1.018	1.024	1.0178	5.63
58) C	1,4-dioxane	0.181	0.198	0.194	0.234	0.240	0.294	0.295	0.307	0.2428	20.73
59) C	trichloroethene	0.535	0.522	0.438	0.461	0.461	0.519	0.508	0.516	0.4950	7.29
60) C	2,2,4-trimethylpentane	2.417	2.223	2.357	2.610	2.584	2.863	2.737	2.638	2.5535	8.20
61)	methyl methacrylate	0.482	0.564	0.528	0.557	0.603	0.762	0.748	0.719	0.6203	17.37
62)	heptane	1.234	1.055	1.067	1.133	1.149	1.284	1.207	1.156	1.1605	6.82

Response Factor Report Airpiano 2

Method Path : O:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Method File : TALL180207.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Thu Feb 08 09:31:39 2018
 Response Via : Initial Calibration

Calibration Files

0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D 5.0 =R252409.D 10 =R252410.D 20 =R252411.D
 50 =R252412.D 100 =R252413.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63) C	cis-1,3-dichloropropene	0.541	0.571	0.638	0.690	0.713	0.809	0.774	0.796	0.6915	14.68
64) C	4-methyl-2-pentanone	1.210	1.127	1.123	1.469	1.517	1.751	1.689	1.625	1.4389	17.63
65)	trans-1,3-dichloropropene	0.623	0.618	0.616	0.686	0.730	0.816	0.800	0.842	0.7163	13.19
66) C	1,1,2-trichloroethane	0.561	0.549	0.509	0.485	0.472	0.527	0.494	0.522	0.5150	5.96
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	4.297	4.137	4.253	4.524	4.528	4.993	4.745	4.288	4.4705	6.42
69) s	toluene-D8	2.866	2.852	2.875	2.822	2.897	2.903	2.914	2.756	2.8606	1.81
70)	2-methylthiophene	2.624	2.420	2.513	2.616	2.684	3.190	3.055	2.786	2.7360	9.67
71)	1,3-dichloropropane	2.402	2.251	2.323	2.320	2.300	2.504	2.364	2.167	2.3289	4.31
72)	2-hexanone	3.108	3.339	3.461	4.248	4.526	5.281	5.175	4.299	4.1797	19.63
73)	3-methylthiophene	2.578	2.396	2.409	2.738	2.784	3.299	3.134	2.859	2.7747	11.62
74)	dibromochloromethane	2.364	2.232	2.335	2.421	2.399	2.687	2.661	2.563	2.4577	6.60
75) C	1,2-dibromoethane	2.587	2.109	2.134	2.217	2.253	2.464	2.371	2.336	2.3088	7.11
76)	butyl acetate	0.219	0.232	0.348	0.429	0.475	0.561	0.565	0.545	0.4219	33.62#
77)	octane	0.961	0.936	1.066	1.181	1.232	1.377	1.305	1.297	1.1693	14.11
78) C	tetrachloroethene	2.099	1.775	1.773	1.792	1.773	1.983	1.996	1.986	1.8970	6.97
79)	1,1,1,2-tetrachloroethane	1.791	1.598	1.661	1.642	1.652	1.817	1.809	1.857	1.7284	5.76
80) C	chlorobenzene	3.585	3.244	3.206	3.277	3.268	3.556	3.487	3.662	3.4107	5.30
81) C	ethylbenzene	4.798	4.596	5.073	5.733	5.814	6.354	6.123	6.072	5.5704	11.85
82)	2-ethylthiophene	2.181	2.151	2.331	2.531	2.547	2.959	2.857	2.901	2.5573	12.60
83) C	m+p-xylene	3.773	3.934	4.078	4.646	4.698	5.105	5.074	4.908	4.5270	11.64
84) C	bromoforn	2.188	2.081	2.128	2.338	2.371	2.680	2.807	2.812	2.4255	12.41
85) C	styrene	2.589	2.408	2.663	3.262	3.304	3.618	3.492	3.632	3.1211	15.79
86) C	1,1,2,2-tetrachloroethane	3.672	3.663	3.736	3.996	3.990	4.372	4.485	3.556	3.9338	8.73
87) C	o-xylene	3.684	3.834	4.192	4.795	4.879	5.384	5.528	4.692	4.6235	14.59
88)	1,2,3-trichloropropane	2.877	2.975	2.881	2.972	2.964	3.162	3.066	3.240	3.0170	4.29
89)	nonane	4.237	4.373	4.807	5.356	5.344	5.752	5.590	5.019	5.0597	10.94
90) s	bromofluorobenzene	1.229	1.403	1.404	1.490	1.414	1.385	1.435	1.635	1.4244	7.93
91) C	isopropylbenzene	4.791	4.664	5.029	5.606	5.634	6.110	6.056	6.188	5.5099	11.08
92)	bromobenzene	3.386	3.227	3.319	3.507	3.448	3.737	3.759	3.999	3.5477	7.36
93)	2-chlorotoluene	1.182	1.139	1.245	1.428	1.438	1.571	1.657	1.694	1.4192	15.09

Response Factor Report Airpiano 2

Method Path : O:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Method File : TALL180207.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Thu Feb 08 09:31:39 2018
 Response Via : Initial Calibration

Calibration Files

0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D 5.0 =R252409.D 10 =R252410.D 20 =R252411.D
 50 =R252412.D 100 =R252413.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)	n-propylbenzene	1.093	1.259	1.327	1.565	1.589	1.716	1.846	1.856	1.5314	18.32
95)	4-chlorotoluene	4.364	4.129	4.508	4.702	4.684	5.023	4.967	5.268	4.7055	7.93
96)	4-ethyl toluene	4.255	4.771	5.355	6.114	6.189	6.699	6.820	6.901	5.8879	16.85
97)	1,3,5-trimethylbenzene	4.683	4.398	4.851	5.326	5.514	6.052	6.448	6.726	5.4997	15.43
98)	tert-butylbenzene	3.786	4.072	4.557	5.305	5.356	5.879	6.466	4.981	5.0501	17.80
99)	1,2,4-trimethylbenzene	3.808	4.166	4.489	5.270	5.422	6.051	6.696	5.028	5.1162	18.83
100)	decane	2.676	3.133	3.851	4.568	4.598	4.937	5.100	4.811	4.2092	21.25
101) C	Benzyl Chloride	2.949	2.779	2.946	4.040	4.258	4.936	5.522	5.735	4.1456	28.56
102)	1,3-dichlorobenzene	3.100	3.170	3.162	3.445	3.400	3.702	4.008	4.110	3.5121	11.11
103) C	1,4-dichlorobenzene	3.130	3.081	3.297	3.445	3.471	3.832	4.361	3.553	3.5211	11.80
104)	sec-butylbenzene	5.682	5.922	6.528	7.495	7.544	8.214	9.106	7.261	7.2190	15.93
105)	1,2,3-trimethylbenzene	3.186	3.152	3.488	3.642	3.671	4.160	4.583	4.428	3.7889	14.36
106)	p-isopropyltoluene	4.484	4.494	5.137	6.282	6.320	6.890	7.674	6.692	5.9965	19.49
107)	1,2-dichlorobenzene	2.824	2.893	2.961	3.238	3.184	3.432	3.765	3.899	3.2745	12.17
108)	n-butylbenzene	4.636	4.907	5.493	6.758	6.697	7.089	7.863	7.381	6.3529	18.76
109)	indan	2.943	3.132	3.519	3.796	3.825	4.317	4.653	4.811	3.8744	17.54
110)	indene	1.531	1.579	1.694	2.026	2.043	2.292	2.487	2.638	2.0363	20.44
111) C	1,2-dibromo-3-chloropropane	1.760	1.487	1.549	1.809	1.913	2.064	2.446	2.446	1.9342	18.90
112)	undecane	2.498	2.354	3.311	5.019	5.188	5.476	6.284	5.146	4.4095	33.48#
113)	1,2,4,5-tetramethylbenzene	2.925	3.385	3.929	5.592	5.724	6.538	7.686	6.680	5.3074	32.31#
114)	dodecane	1.816	2.245	2.889	5.248	5.786	5.806	7.076	4.474	4.4176	43.11#
115) C	1,2,4-trichlorobenzene	2.061	2.072	2.249	2.916	3.065	3.252	4.342	3.188	2.8931	26.55
116)	naphthalene	3.886	4.638	4.813	6.569	6.889	7.011	8.712	8.519	6.3796	28.05
117)	1,2,3-trichlorobenzene	1.947	1.898	1.898	2.730	2.844	2.947	3.828	3.807	2.7375	29.04
118)	benzothiophene		3.916	4.366	4.989	5.301	6.592	8.317	8.057	5.9340	29.54
119) C	hexachlorobutadiene	1.902	1.925	2.033	2.492	2.701	2.825	3.762	3.051	2.5864	24.84
120)	2-methylnaphthalene			0.614	1.030	1.369	1.764	2.433	2.567	1.6296	47.54#
121)	1-methylnaphthalene			0.857	1.476	1.829	2.132	2.967	3.093	2.0590	41.97#

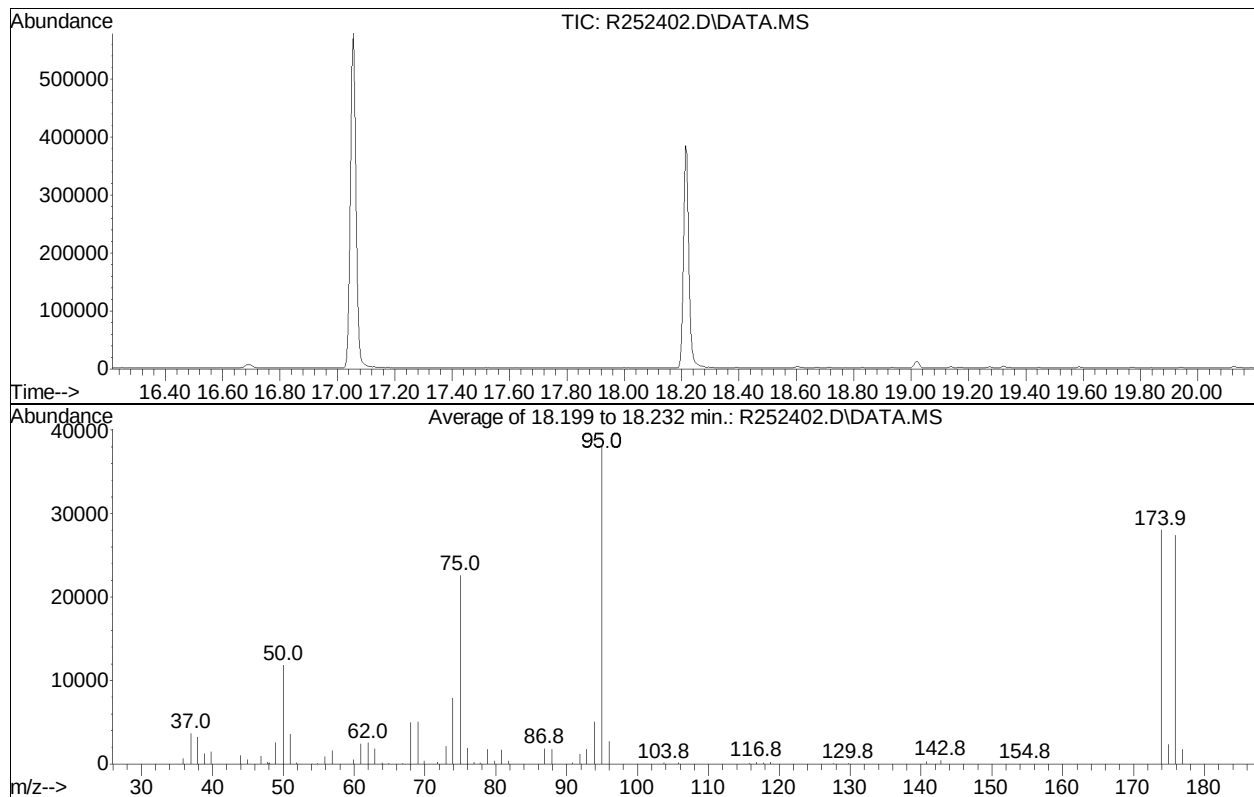
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252402.D
 Acq On : 7 Feb 2018 1:53 pm
 Operator : AIRPIAN02:RY
 Sample : WG1087627-1,3,250,250
 Misc : WG1087627
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Thu Feb 08 09:31:39 2018



Spectrum Information: Average of 18.199 to 18.232 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	30.9	11832	PASS
75	95	30	66	59.0	22590	PASS
95	95	100	100	100.0	38263	PASS
96	95	5	9	7.2	2745	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	73.3	28043	PASS
175	174	4	9	8.4	2368	PASS
176	174	93	101	97.9	27448	PASS
177	176	5	9	6.3	1731	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252406.D
 Acq On : 7 Feb 2018 4:09 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1087627
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:19:36 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.55	49	142689	10.000	ppbV	0.00
Standard Area = 143433			Recovery =		99.48%	
43) 1,4-difluorobenzene	12.74	114	196092	10.000	ppbV	0.00
Standard Area = 211997			Recovery =		92.50%	
67) chlorobenzene-D5	17.05	54	65165	10.000	ppbV	0.00
Standard Area = 69513			Recovery =		93.75%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.42	65	80731	10.144	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		101.44%	
69) toluene-D8	15.41	98	186742	9.893	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.93%	
90) bromofluorobenzene	18.21	95	80095	8.690	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		86.90%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.25	51	4262	0.282	ppbV #	91
3) propylene	4.29	41	1926M6	0.223	ppbV	
4) propane	4.32	29	2552M4	0.321	ppbV	
5) dichlorodifluoromethane	4.39	85	1811	0.337	ppbV	95
6) chloromethane	4.63	50	2797	0.285	ppbV #	87
7) Freon-114	4.78	85	5438	0.389	ppbV #	88
8) methanol	4.91	31	7562	1.576	ppbV #	1
9) vinyl chloride	4.96	62	2740	0.275	ppbV #	78
10) 1,3-butadiene	5.18	54	2100	0.273	ppbV	89
11) butane	5.25	43	4982	0.276	ppbV #	94
12) acetaldehyde	4.83	29	8316M4	1.377	ppbV	
13) bromomethane	5.57	94	1763	0.226	ppbV	98
14) chloroethane	5.83	64	1295	0.256	ppbV #	86
15) ethanol	6.07	31	14730	1.445	ppbV	92
16) dichlorofluoromethane	5.99	67	5595	0.262	ppbV #	95
17) vinyl bromide	6.33	106	1524	0.210	ppbV	95
18) acrolein	6.54	56	907	0.202	ppbV #	1
19) acetone	6.74	43	21542	1.348	ppbV #	99
20) acetonitrile	6.36	41	3288	0.270	ppbV #	12
21) trichlorofluoromethane	6.93	101	5165	0.235	ppbV	93
22) isopropyl alcohol	7.11	45	14208	0.855	ppbV	99
23) acrylonitrile	7.36	53	1752	0.208	ppbV #	90
24) pentane	7.41	43	5237	0.239	ppbV #	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252406.D
 Acq On : 7 Feb 2018 4:09 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1087627
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:19:36 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) ethyl ether	7.48	31	4071	0.211	ppbV	#	92
26) 1,1-dichloroethene	7.77	61	4061	0.222	ppbV		96
27) tertiary butyl alcohol	7.92	59	3315	0.203	ppbV	#	72
28) methylene chloride	7.94	49	3878	0.243	ppbV		91
29) 3-chloropropene	8.08	41	4204	0.234	ppbV		95
30) carbon disulfide	8.28	76	5971	0.210	ppbV	#	1
31) Freon 113	8.28	101	4132	0.242	ppbV	#	90
32) trans-1,2-dichloroethene	9.11	61	3303	0.198	ppbV		95
33) 1,1-dichloroethane	9.36	63	5220	0.246	ppbV		100
34) MTBE	9.48	73	4928	0.213	ppbV	#	86
35) vinyl acetate	9.57	43	4921	0.184	ppbV	#	86
36) 2-butanone	9.89	43	7655	0.251	ppbV	#	87
37) cis-1,2-dichloroethene	10.36	61	3548	0.216	ppbV		95
38) Ethyl Acetate	10.66	61	363	0.115	ppbV	#	95
39) chloroform	10.70	83	4288	0.227	ppbV		95
40) Tetrahydrofuran	11.22	42	2574	0.181	ppbV		96
41) 2,2-dichloropropane	10.73	77	2812	0.196	ppbV	#	96
42) 1,2-dichloroethane	11.54	62	3297	0.224	ppbV	#	90
44) hexane	10.60	57	3619	0.237	ppbV	#	39
45) diisopropyl ether	10.62	87	904	0.163	ppbV	#	61
46) tert-butyl ethyl ether	11.24	59	4049	0.164	ppbV	#	90
48) 1,1,1-trichloroethane	11.82	97	3578	0.238	ppbV	#	87
49) 1,1-dichloropropene	12.18	75	2654	0.222	ppbV		96
50) benzene	12.35	78	5190	0.208	ppbV	#	88
51) thiophene	12.50	84	2802	0.231	ppbV		92
52) carbon tetrachloride	12.52	117	3464	0.230	ppbV	#	94
53) cyclohexane	12.66	56	2929	0.197	ppbV	#	89
54) tert-amyl methyl ether	13.04	73	3107	0.186	ppbV		95
55) dibromomethane	13.25	93	2241	0.243	ppbV		95
56) 1,2-dichloropropane	13.27	63	2322	0.214	ppbV	#	75
57) bromodichloromethane	13.50	83	4454	0.237	ppbV		88
58) 1,4-dioxane	13.58	88	708	0.151	ppbV	#	73
59) trichloroethene	13.53	130	2098	0.232	ppbV	#	89
60) 2,2,4-trimethylpentane	13.56	57	9480	0.187	ppbV	#	86
61) methyl methacrylate	13.76	41	1891	0.160	ppbV	#	81
62) heptane	13.85	43	4839	0.215	ppbV	#	87
63) cis-1,3-dichloropropene	14.50	75	2121	0.152	ppbV		93
64) 4-methyl-2-pentanone	14.57	43	4745	0.160	ppbV	#	96
65) trans-1,3-dichloropropene	15.06	75	2442	0.171	ppbV		95
66) 1,1,2-trichloroethane	15.24	97	2199	0.237	ppbV		88

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252406.D
 Acq On : 7 Feb 2018 4:09 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1087627
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:19:36 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
68) toluene	15.51	91	5600	0.190	ppbV		94
70) 2-methylthiophene	15.57	97	3420	0.196	ppbV	#	91
71) 1,3-dichloropropane	15.53	76	3131	0.209	ppbV	#	78
72) 2-hexanone	15.76	43	4051	0.137	ppbV	#	87
73) 3-methylthiophene	15.74	97	3360	0.185	ppbV		92
74) dibromochloromethane	15.90	129	3081	0.197	ppbV	#	83
75) 1,2-dibromoethane	16.14	107	3372	0.230	ppbV		97
76) butyl acetate	16.30	73	285	0.092	ppbV	#	6
77) octane	16.37	85	1252	0.156	ppbV	#	92
78) tetrachloroethene	16.53	166	2735	0.237	ppbV	#	89
79) 1,1,1,2-tetrachloroethane	17.07	131	2334	0.217	ppbV		90
80) chlorobenzene	17.09	112	4672	0.219	ppbV		91
81) ethylbenzene	17.37	91	6253	0.165	ppbV	#	85
82) 2-ethylthiophene	17.41	97	2843	0.171	ppbV	#	78
83) m+p-xylene	17.50	91	9834	0.321	ppbV		95
84) bromoform	17.60	173	2851	0.185	ppbV		96
85) styrene	17.79	104	3374	0.157	ppbV		91
86) 1,1,2,2-tetrachloroethane	17.87	83	4786	0.184	ppbV		95
87) o-xylene	17.87	91	4802	0.151	ppbV		92
88) 1,2,3-trichloropropane	17.97	75	3750	0.194	ppbV		93
89) nonane	17.99	43	5522	0.159	ppbV	#	96
91) isopropylbenzene	18.30	105	6244	0.170	ppbV		99
92) bromobenzene	18.39	77	4413	0.196	ppbV		98
93) 2-chlorotoluene	18.67	126	1540	0.164	ppbV	#	46
94) n-propylbenzene	18.67	120	1425	0.138	ppbV		97
95) 4-chlorotoluene	18.72	91	5687	0.186	ppbV		98
96) 4-ethyl toluene	18.78	105	5546	0.138	ppbV	#	95
97) 1,3,5-trimethylbenzene	18.83	105	6103	0.170	ppbV	#	93
98) tert-butylbenzene	19.13	119	4934	0.141	ppbV		95
99) 1,2,4-trimethylbenzene	19.14	105	4963	0.140	ppbV		93
100) decane	19.17	57	3488	0.116	ppbV	#	91
101) Benzyl Chloride	19.25	91	3843	0.138	ppbV		98
102) 1,3-dichlorobenzene	19.27	146	4040	0.182	ppbV		96
103) 1,4-dichlorobenzene	19.32	146	4079	0.180	ppbV		95
104) sec-butylbenzene	19.33	105	7406	0.151	ppbV		97
105) 1,2,3-trimethylbenzene	19.46	105	4152	0.174	ppbV		94
106) p-isopropyltoluene	19.45	119	5844	0.142	ppbV		97
107) 1,2-dichlorobenzene	19.58	146	3681	0.177	ppbV		93
108) n-butylbenzene	19.77	91	6042	0.138	ppbV		95
109) indan	19.63	117	3835	0.154	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252406.D
 Acq On : 7 Feb 2018 4:09 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1087627
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:19:36 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.70	115	1995	0.150	ppbV	85
111)	1,2-dibromo-3-chloropr...	19.94	75	2294	0.184	ppbV	91
112)	undecane	20.12	57	3255	0.096	ppbV #	88
113)	1,2,4,5-tetramethylben...	20.38	119	3812	0.102	ppbV	96
114)	dodecane	21.03	57	2367	0.063	ppbV	96
115)	1,2,4-trichlorobenzene	21.04	180	2686	0.134	ppbV	97
116)	naphthalene	21.16	128	5065	0.113	ppbV	97
117)	1,2,3-trichlorobenzene	21.41	180	2538	0.137	ppbV	94
118)	benzothiophene	21.22	134	4327	0.125	ppbV	95
119)	hexachlorobutadiene	21.47	225	2479	0.141	ppbV #	90
120)	2-methylnaphthalene	22.35		0	N.D.		
121)	1-methylnaphthalene	22.55	142	796	0.067	ppbV #	85

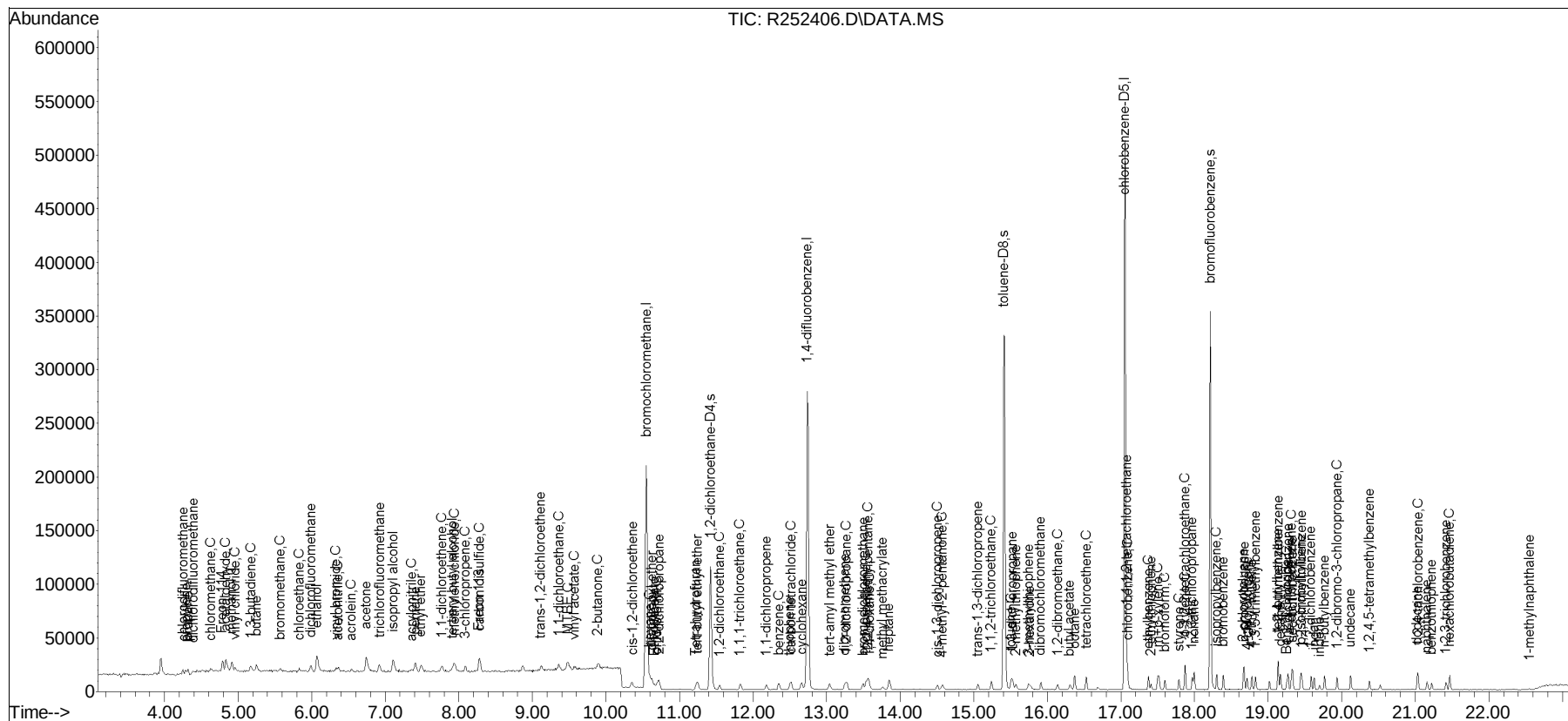
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
Data File : R252406.D
Acq On    : 7 Feb 2018 4:09 pm
Operator  : AIRPIAN02:RY
Sample    : IT015-SIMSTD0.2
Misc      : WG1087627
ALS Vial  : 6 Sample Multiplier: 1
```

Quant Time: Feb 08 09:19:36 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:17:36 2018
Response via : Initial Calibration

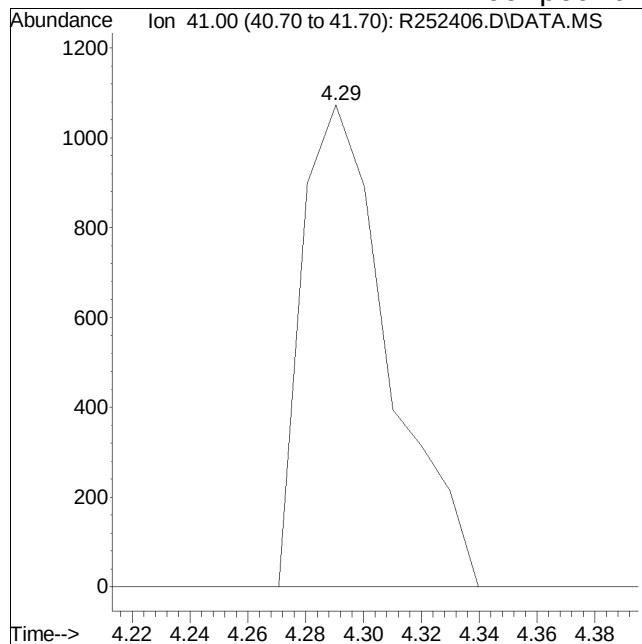
Sub List : Default - All compounds listed0207T_ICAL\R252410.D



Manual Integration/Negative Proof Report

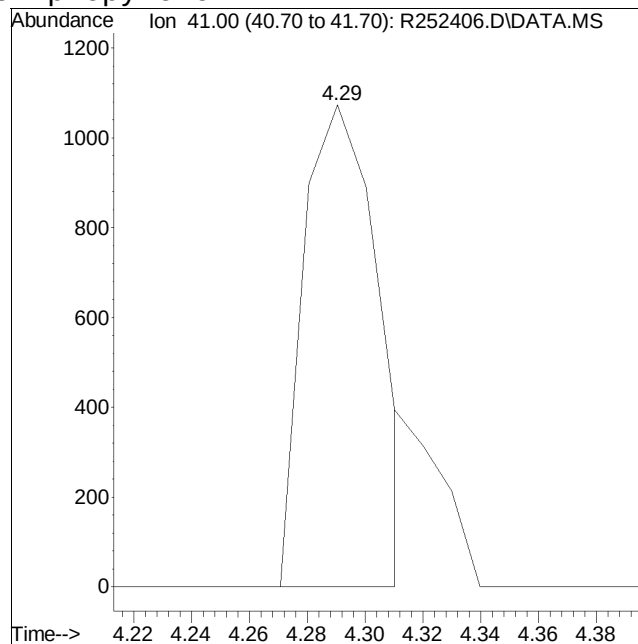
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252406.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 4:09 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2018 9:17 am

Compound #3: propylene



Original Peak Response = 2239

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

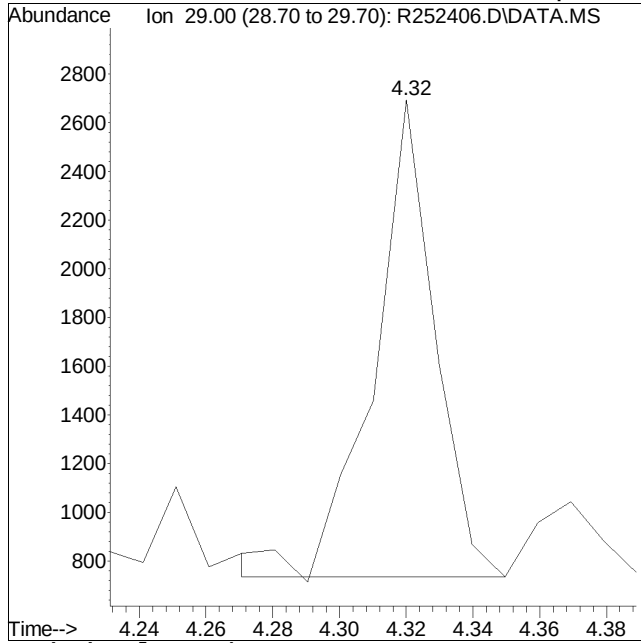


Manual Peak Response = 1926 M6

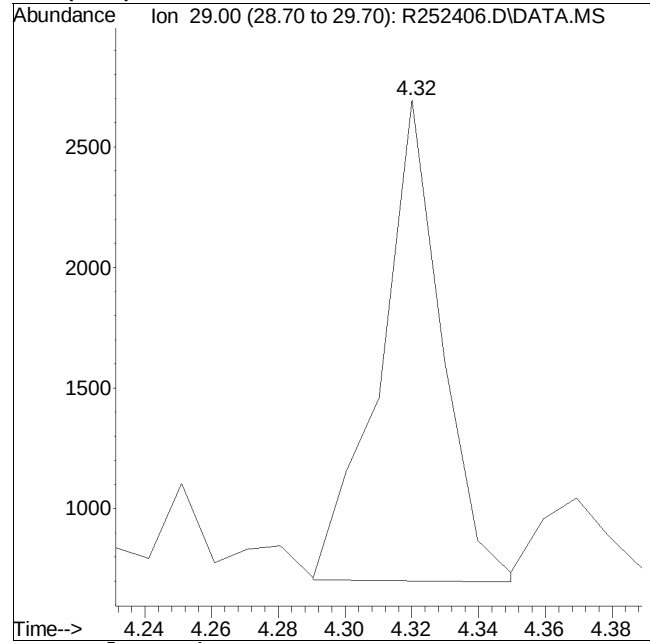
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252406.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 4:09 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2018 9:17 am

Compound #4: propane



Original Peak Response = 2483



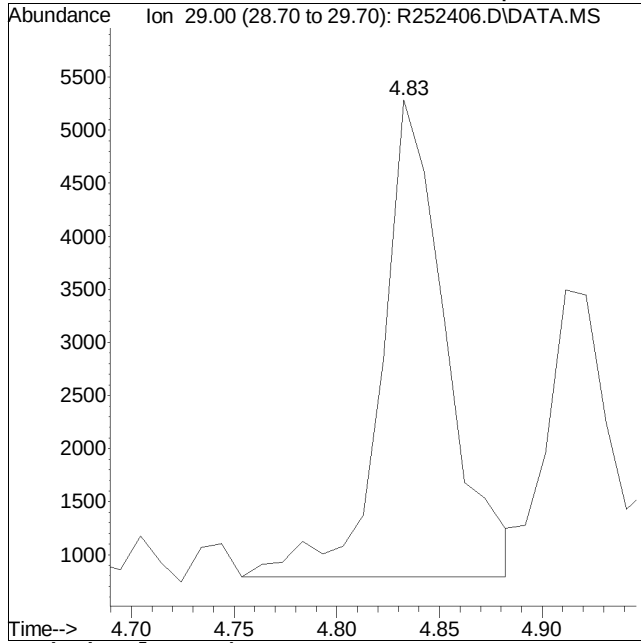
Manual Peak Response = 2552 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

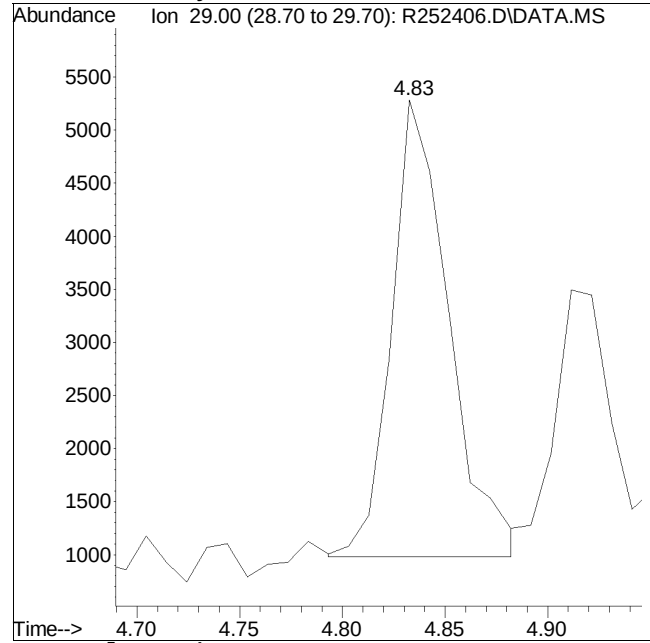
Data Path : O:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252406.D Operator : AIRPIANO2:RY
Date Inj'd : 2/7/2018 4:09 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2018 9:17 am

Compound #12: acetaldehyde



Original Peak Response = 9801

M4 = Poor automated baseline construction.



Manual Peak Response = 8316 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252407.D
 Acq On : 7 Feb 2018 4:42 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1087627
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:21:59 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.55	49	136808	10.000	ppbV	0.00
Standard Area = 143433			Recovery =		95.38%	
43) 1,4-difluorobenzene	12.74	114	198040	10.000	ppbV	0.00
Standard Area = 211997			Recovery =		93.42%	
67) chlorobenzene-D5	17.05	54	66633	10.000	ppbV	0.00
Standard Area = 69513			Recovery =		95.86%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.42	65	81390	10.126	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		101.26%	
69) toluene-D8	15.41	98	190059	9.847	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.47%	
90) bromofluorobenzene	18.21	95	93508	9.921	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.21%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.25	51	9583	0.661	ppbV	95
3) propylene	4.29	41	4382M6	0.530	ppbV	
4) propane	4.32	29	6027M6	0.791	ppbV	
5) dichlorodifluoromethane	4.39	85	3365	0.652	ppbV	97
6) chloromethane	4.63	50	6355	0.674	ppbV	95
7) Freon-114	4.78	85	10275	0.768	ppbV	95
8) methanol	4.91	31	17396	3.781	ppbV #	1
9) vinyl chloride	4.96	62	5744	0.602	ppbV	96
10) 1,3-butadiene	5.17	54	4112	0.558	ppbV #	73
11) butane	5.25	43	11073	0.640	ppbV	96
12) acetaldehyde	4.82	29	20888	3.607	ppbV	93
13) bromomethane	5.57	94	4228	0.566	ppbV	95
14) chloroethane	5.83	64	2913	0.600	ppbV #	86
15) ethanol	6.06	31	30849	3.156	ppbV	98
16) dichlorofluoromethane	5.99	67	11762	0.574	ppbV #	97
17) vinyl bromide	6.33	106	3588	0.516	ppbV	96
18) acrolein	6.53	56	2274	0.527	ppbV #	45
19) acetone	6.73	43	46762	3.053	ppbV #	99
20) acetonitrile	6.35	41	6861	0.588	ppbV #	63
21) trichlorofluoromethane	6.92	101	11905	0.566	ppbV	99
22) isopropyl alcohol	7.09	45	27481	1.725	ppbV	99
23) acrylonitrile	7.35	53	4594	0.568	ppbV #	94
24) pentane	7.41	43	11571	0.551	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252407.D
 Acq On : 7 Feb 2018 4:42 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1087627
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:21:59 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.48	31	9419	0.508	ppbV	94
26) 1,1-dichloroethene	7.76	61	9897	0.564	ppbV	95
27) tertiary butyl alcohol	7.90	59	7966	0.508	ppbV #	90
28) methylene chloride	7.94	49	9008	0.589	ppbV	93
29) 3-chloropropene	8.08	41	9578	0.557	ppbV	97
30) carbon disulfide	8.28	76	14612	0.537	ppbV #	33
31) Freon 113	8.28	101	8850	0.541	ppbV	97
32) trans-1,2-dichloroethene	9.12	61	8156	0.509	ppbV	98
33) 1,1-dichloroethane	9.36	63	11362	0.559	ppbV	92
34) MTBE	9.47	73	11258	0.508	ppbV	96
35) vinyl acetate	9.57	43	10353	0.404	ppbV	98
36) 2-butanone	9.88	43	15787	0.540	ppbV	100
37) cis-1,2-dichloroethene	10.35	61	8710	0.553	ppbV	92
38) Ethyl Acetate	10.65	61	1084	0.357	ppbV #	88
39) chloroform	10.70	83	10024	0.555	ppbV	96
40) Tetrahydrofuran	11.22	42	6471	0.473	ppbV #	90
41) 2,2-dichloropropane	10.73	77	6405	0.466	ppbV	95
42) 1,2-dichloroethane	11.54	62	7654	0.541	ppbV #	91
44) hexane	10.60	57	7326	0.476	ppbV #	52
45) diisopropyl ether	10.61	87	2502	0.446	ppbV	72
46) tert-butyl ethyl ether	11.23	59	10575	0.424	ppbV	97
48) 1,1,1-trichloroethane	11.83	97	8403	0.553	ppbV #	94
49) 1,1-dichloropropene	12.18	75	5479	0.454	ppbV	94
50) benzene	12.34	78	12282	0.488	ppbV	98
51) thiophene	12.50	84	5764	0.471	ppbV #	81
52) carbon tetrachloride	12.52	117	8305	0.547	ppbV	95
53) cyclohexane	12.66	56	7058	0.470	ppbV	98
54) tert-amyl methyl ether	13.03	73	7181	0.425	ppbV #	76
55) dibromomethane	13.25	93	5079	0.545	ppbV	94
56) 1,2-dichloropropane	13.27	63	5818	0.530	ppbV #	91
57) bromodichloromethane	13.49	83	9651	0.508	ppbV	96
58) 1,4-dioxane	13.58	88	1960	0.413	ppbV	86
59) trichloroethene	13.53	130	5172	0.567	ppbV	82
60) 2,2,4-trimethylpentane	13.56	57	22014	0.430	ppbV #	94
61) methyl methacrylate	13.75	41	5589	0.468	ppbV #	82
62) heptane	13.85	43	10442	0.459	ppbV #	96
63) cis-1,3-dichloropropene	14.50	75	5656	0.401	ppbV #	93
64) 4-methyl-2-pentanone	14.56	43	11162	0.372	ppbV #	94
65) trans-1,3-dichloropropene	15.06	75	6118	0.423	ppbV	93
66) 1,1,2-trichloroethane	15.24	97	5436	0.581	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252407.D
 Acq On : 7 Feb 2018 4:42 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1087627
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:21:59 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.51	91	13782	0.457	ppbV	98
70) 2-methylthiophene	15.57	97	8062	0.451	ppbV #	80
71) 1,3-dichloropropane	15.53	76	7499	0.489	ppbV	95
72) 2-hexanone	15.76	43	11126	0.369	ppbV #	96
73) 3-methylthiophene	15.74	97	7982	0.430	ppbV	95
74) dibromochloromethane	15.91	129	7437	0.465	ppbV	98
75) 1,2-dibromoethane	16.14	107	7026	0.468	ppbV	84
76) butyl acetate	16.30	73	773	0.244	ppbV	58
77) octane	16.37	85	3118	0.380	ppbV	90
78) tetrachloroethene	16.53	166	5913	0.500	ppbV	94
79) 1,1,1,2-tetrachloroethane	17.07	131	5325	0.484	ppbV	94
80) chlorobenzene	17.09	112	10807	0.496	ppbV	98
81) ethylbenzene	17.37	91	15313	0.395	ppbV	93
82) 2-ethylthiophene	17.41	97	7168	0.422	ppbV	96
83) m+p-xylene	17.51	91	26211	0.837	ppbV	100
84) bromoform	17.59	173	6934	0.439	ppbV	98
85) styrene	17.79	104	8023	0.364	ppbV	95
86) 1,1,2,2-tetrachloroethane	17.87	83	12203	0.459	ppbV	99
87) o-xylene	17.87	91	12775	0.393	ppbV	98
88) 1,2,3-trichloropropane	17.97	75	9912	0.502	ppbV	98
89) nonane	17.99	43	14570	0.409	ppbV	99
91) isopropylbenzene	18.30	105	15539	0.414	ppbV	99
92) bromobenzene	18.39	77	10752	0.468	ppbV	99
93) 2-chlorotoluene	18.67	126	3795	0.396	ppbV	100
94) n-propylbenzene	18.67	120	4195	0.396	ppbV	82
95) 4-chlorotoluene	18.71	91	13756	0.441	ppbV	94
96) 4-ethyl toluene	18.77	105	15895	0.385	ppbV #	96
97) 1,3,5-trimethylbenzene	18.83	105	14653	0.399	ppbV #	96
98) tert-butylbenzene	19.13	119	13565	0.380	ppbV	98
99) 1,2,4-trimethylbenzene	19.13	105	13880	0.384	ppbV	90
100) decane	19.17	57	10438	0.341	ppbV	95
101) Benzyl Chloride	19.25	91	9258	0.326	ppbV	94
102) 1,3-dichlorobenzene	19.27	146	10560M3	0.466	ppbV	
103) 1,4-dichlorobenzene	19.32	146	10265	0.444	ppbV	94
104) sec-butylbenzene	19.33	105	19730	0.393	ppbV	99
105) 1,2,3-trimethylbenzene	19.46	105	10502	0.429	ppbV	96
106) p-isopropyltoluene	19.44	119	14971	0.356	ppbV	95
107) 1,2-dichlorobenzene	19.58	146	9638	0.454	ppbV #	91
108) n-butylbenzene	19.77	91	16347	0.366	ppbV	98
109) indan	19.62	117	10434	0.409	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252407.D
 Acq On : 7 Feb 2018 4:42 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1087627
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:21:59 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.70	115	5260	0.386	ppbV	95
111) 1,2-dibromo-3-chloropr...	19.93	75	4955	0.389	ppbV	89
112) undecane	20.12	57	7844	0.227	ppbV #	97
113) 1,2,4,5-tetramethylben...	20.38	119	11278	0.296	ppbV	98
114) dodecane	21.03	57	7479	0.194	ppbV	97
115) 1,2,4-trichlorobenzene	21.03	180	6902	0.338	ppbV #	90
116) naphthalene	21.16	128	15452	0.337	ppbV #	91
117) 1,2,3-trichlorobenzene	21.41	180	6324	0.334	ppbV	98
118) benzothiophene	21.22	134	13046	0.369	ppbV #	94
119) hexachlorobutadiene	21.47	225	6412	0.356	ppbV	94
120) 2-methylnaphthalene	22.34	142	1807	0.198	ppbV #	77
121) 1-methylnaphthalene	22.55	142	2259	0.185	ppbV	88

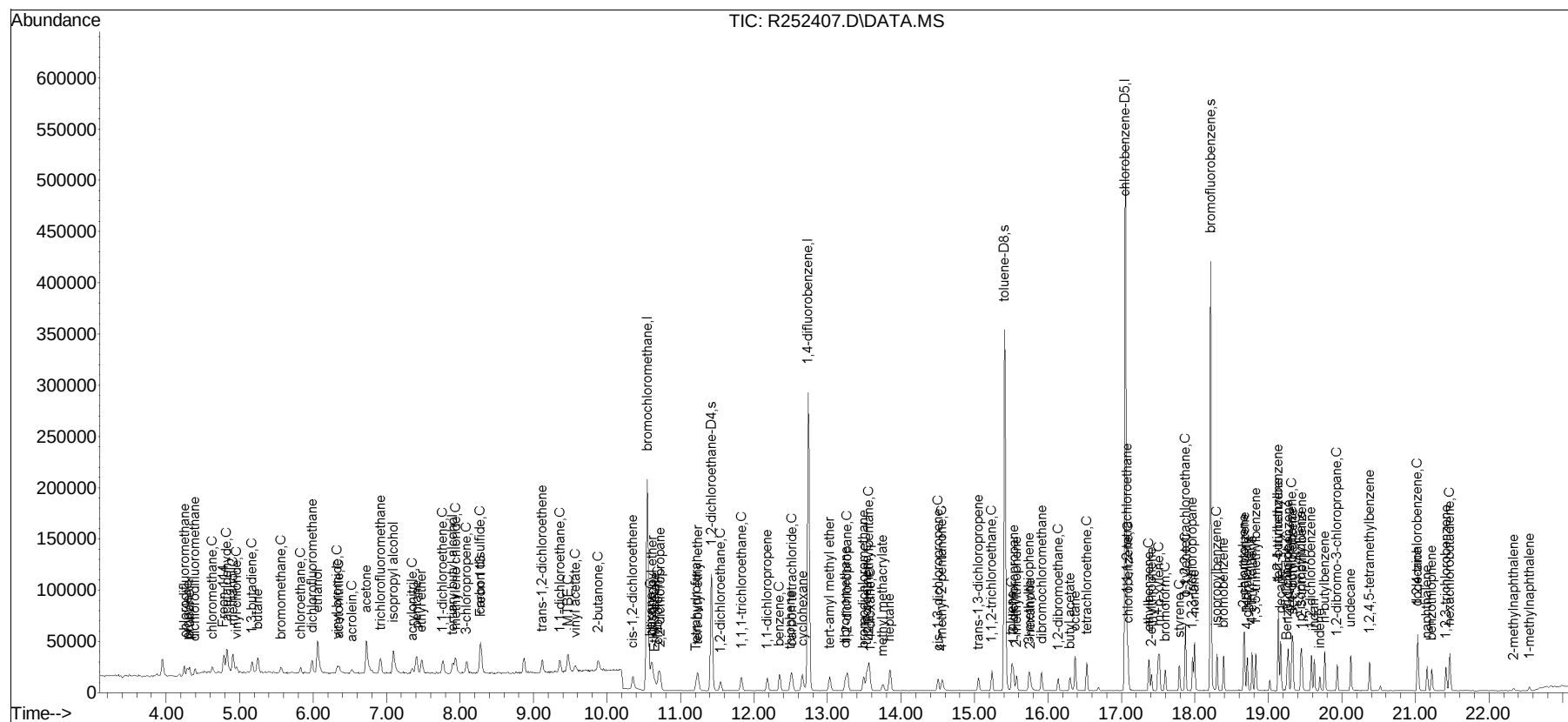
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
Data File : R252407.D
Acq On    : 7 Feb 2018    4:42 pm
Operator  : AIRPIAN02:RY
Sample    : IT015-SIMSTD0.5
Misc      : WG1087627
ALS Vial  : 6    Sample Multiplier: 1
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Quant Time: Feb 08 09:21:59 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:17:36 2018
Response via : Initial Calibration

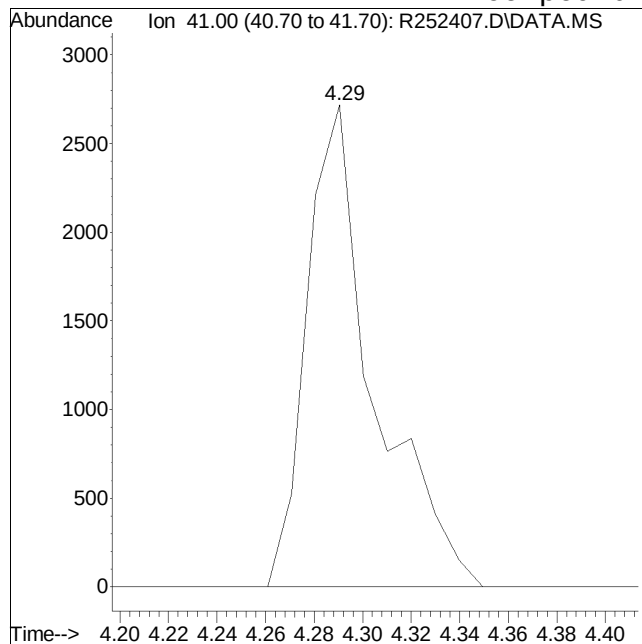
Sub List : Default - All compounds listed0207T_ICAL\R252410.D



Manual Integration/Negative Proof Report

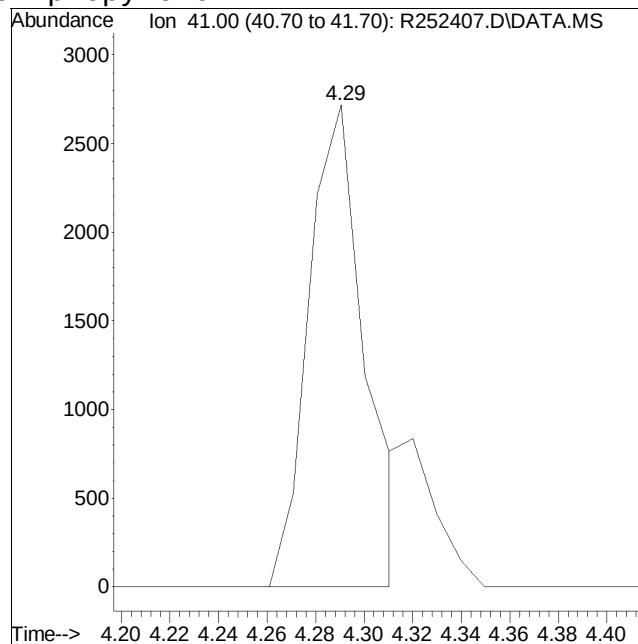
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Data File : R252407.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 4:42 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2018 9:17 am

Compound #3: propylene



Original Peak Response = 5210

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

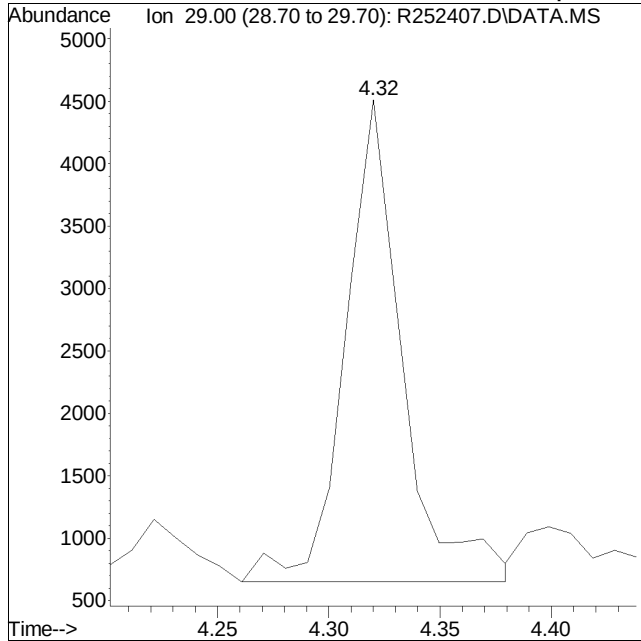


Manual Peak Response = 4382 M6

Manual Integration/Negative Proof Report

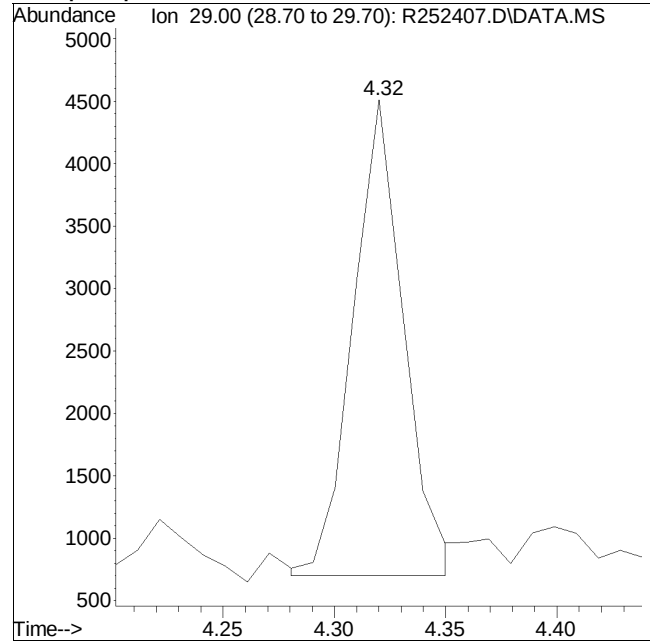
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252407.D Operator : AIRPIANO2:RY
Date Inj'd : 2/7/2018 4:42 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2018 9:17 am

Compound #4: propane



Original Peak Response = 6912

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

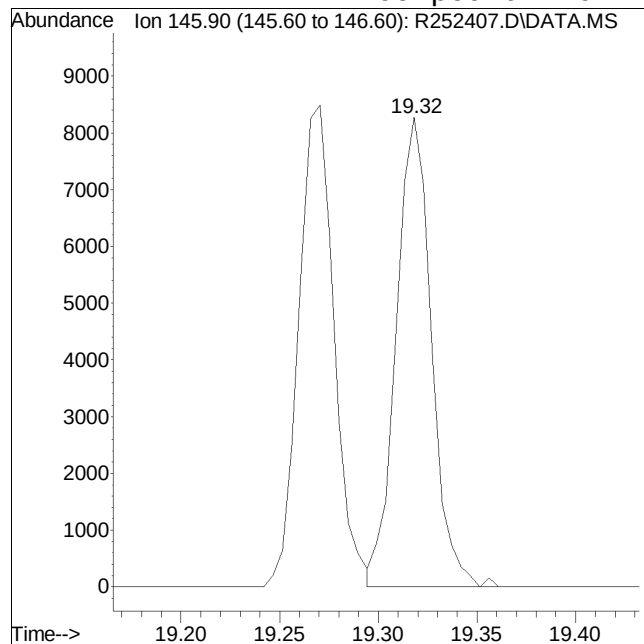


Manual Peak Response = 6027 M6

Manual Integration/Negative Proof Report

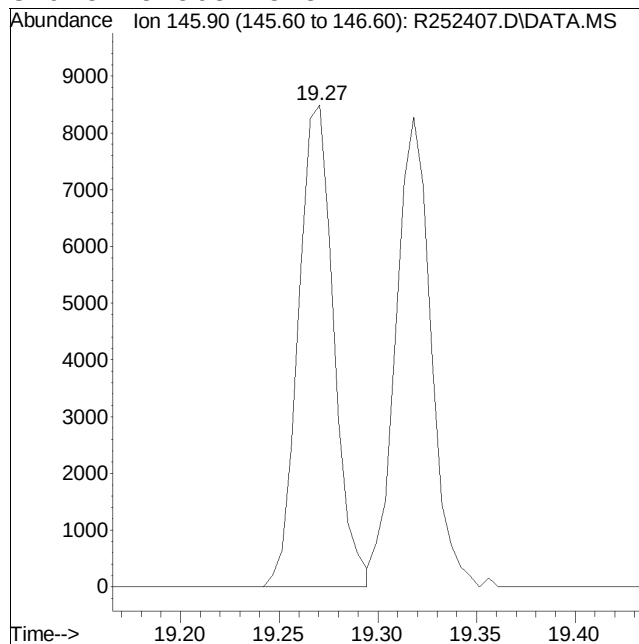
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
 Data File : R252407.D Operator : AIRPIANO2:RY
 Date Inj'd : 2/7/2018 4:42 pm Instrument : Airpiano 2
 Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2018 9:17 am

Compound #102: 1,3-dichlorobenzene



Original Peak Response = 10265

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 Peak Response = 10560 M3

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252408.D
 Acq On : 7 Feb 2018 5:18 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1087627
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:23:09 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.55	49	137257	10.000	ppbV	0.00
Standard Area = 143433			Recovery =		95.69%	
43) 1,4-difluorobenzene	12.74	114	198981	10.000	ppbV	0.00
Standard Area = 211997			Recovery =		93.86%	
67) chlorobenzene-D5	17.05	54	65867	10.000	ppbV	0.00
Standard Area = 69513			Recovery =		94.75%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.42	65	82424	10.206	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		102.06%	
69) toluene-D8	15.41	98	189372	9.926	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.26%	
90) bromofluorobenzene	18.21	95	92506	9.929	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.29%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.25	51	17364	1.193	ppbV	95
3) propylene	4.29	41	9071M6	1.093	ppbV	
4) propane	4.32	29	9917M4	1.297	ppbV	
5) dichlorodifluoromethane	4.39	85	7220	1.395	ppbV	93
6) chloromethane	4.63	50	11767	1.245	ppbV	92
7) Freon-114	4.78	85	21813	1.624	ppbV	99
8) methanol	4.90	31	31158	6.749	ppbV #	23
9) vinyl chloride	4.96	62	11642	1.216	ppbV	97
10) 1,3-butadiene	5.17	54	8698	1.177	ppbV	98
11) butane	5.25	43	21523	1.239	ppbV	95
12) acetaldehyde	4.82	29	40461	6.965	ppbV	96
13) bromomethane	5.57	94	8436	1.126	ppbV	98
14) chloroethane	5.83	64	5753	1.181	ppbV	94
15) ethanol	6.05	31	54271	5.534	ppbV	100
16) dichlorofluoromethane	5.99	67	22539	1.097	ppbV	97
17) vinyl bromide	6.33	106	7575	1.085	ppbV	84
18) acrolein	6.53	56	4566	1.055	ppbV #	81
19) acetone	6.71	43	89044	5.794	ppbV #	100
20) acetonitrile	6.34	41	13861	1.184	ppbV #	79
21) trichlorofluoromethane	6.92	101	23497	1.113	ppbV	98
22) isopropyl alcohol	7.08	45	48015	3.004	ppbV	100
23) acrylonitrile	7.34	53	8332M6	1.026	ppbV	
24) pentane	7.40	43	23528	1.116	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252408.D
 Acq On : 7 Feb 2018 5:18 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1087627
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:23:09 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.47	31	18638	1.002	ppbV	96
26) 1,1-dichloroethene	7.76	61	18426	1.047	ppbV	95
27) tertiary butyl alcohol	7.88	59	15765	1.001	ppbV	91
28) methylene chloride	7.94	49	16980	1.106	ppbV	97
29) 3-chloropropene	8.09	41	18440	1.069	ppbV	99
30) carbon disulfide	8.28	76	27852	1.020	ppbV #	66
31) Freon 113	8.28	101	17327	1.056	ppbV	96
32) trans-1,2-dichloroethene	9.11	61	16990	1.057	ppbV	94
33) 1,1-dichloroethane	9.36	63	22322	1.095	ppbV	98
34) MTBE	9.46	73	22215	0.999	ppbV	97
35) vinyl acetate	9.57	43	21575M4	0.840	ppbV	
36) 2-butanone	9.87	43	30355	1.035	ppbV	97
37) cis-1,2-dichloroethene	10.35	61	16759	1.060	ppbV	98
38) Ethyl Acetate	10.65	61	2254	0.739	ppbV	78
39) chloroform	10.70	83	19515	1.076	ppbV	91
40) Tetrahydrofuran	11.21	42	12753M6	0.930	ppbV	
41) 2,2-dichloropropane	10.73	77	13216	0.959	ppbV	98
42) 1,2-dichloroethane	11.54	62	14991	1.057	ppbV	98
44) hexane	10.60	57	14502	0.938	ppbV #	71
45) diisopropyl ether	10.61	87	5090	0.902	ppbV	96
46) tert-butyl ethyl ether	11.22	59	22180	0.885	ppbV	94
48) 1,1,1-trichloroethane	11.82	97	15865	1.038	ppbV	90
49) 1,1-dichloropropene	12.18	75	10951	0.903	ppbV	91
50) benzene	12.34	78	24679	0.977	ppbV	96
51) thiophene	12.50	84	12875	1.047	ppbV #	84
52) carbon tetrachloride	12.52	117	16778	1.099	ppbV	98
53) cyclohexane	12.66	56	14447	0.957	ppbV	92
54) tert-amyl methyl ether	13.03	73	14517	0.856	ppbV	93
55) dibromomethane	13.25	93	9479	1.013	ppbV	91
56) 1,2-dichloropropane	13.27	63	11335	1.029	ppbV	94
57) bromodichloromethane	13.50	83	19661	1.029	ppbV	97
58) 1,4-dioxane	13.56	88	3867	0.811	ppbV #	39
59) trichloroethene	13.53	130	8717	0.951	ppbV	95
60) 2,2,4-trimethylpentane	13.56	57	46893	0.912	ppbV #	88
61) methyl methacrylate	13.75	41	10502	0.876	ppbV	100
62) heptane	13.85	43	21226	0.929	ppbV #	94
63) cis-1,3-dichloropropene	14.50	75	12694	0.895	ppbV	95
64) 4-methyl-2-pentanone	14.55	43	22354	0.741	ppbV	98
65) trans-1,3-dichloropropene	15.06	75	12251	0.844	ppbV	99
66) 1,1,2-trichloroethane	15.24	97	10134	1.078	ppbV	90

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252408.D
 Acq On : 7 Feb 2018 5:18 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1087627
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:23:09 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.51	91	28014	0.939	ppbV	96
70) 2-methylthiophene	15.57	97	16550	0.936	ppbV	98
71) 1,3-dichloropropane	15.53	76	15300	1.010	ppbV	97
72) 2-hexanone	15.75	43	22794	0.765	ppbV	92
73) 3-methylthiophene	15.74	97	15869	0.865	ppbV	90
74) dibromochloromethane	15.91	129	15378	0.973	ppbV	97
75) 1,2-dibromoethane	16.14	107	14053	0.947	ppbV	99
76) butyl acetate	16.29	73	2294	0.733	ppbV	68
77) octane	16.37	85	7021	0.865	ppbV #	96
78) tetrachloroethene	16.53	166	11680	1.000	ppbV	95
79) 1,1,1,2-tetrachloroethane	17.07	131	10941	1.005	ppbV	94
80) chlorobenzene	17.09	112	21120	0.981	ppbV	98
81) ethylbenzene	17.37	91	33412	0.873	ppbV	100
82) 2-ethylthiophene	17.41	97	15355	0.915	ppbV	92
83) m+p-xylene	17.51	91	53726	1.736	ppbV	98
84) bromoform	17.60	173	14016	0.898	ppbV	98
85) styrene	17.79	104	17540	0.806	ppbV	93
86) 1,1,2,2-tetrachloroethane	17.87	83	24610	0.936	ppbV	95
87) o-xylene	17.87	91	27609	0.859	ppbV	100
88) 1,2,3-trichloropropane	17.97	75	18974	0.972	ppbV	94
89) nonane	17.99	43	31659	0.899	ppbV	95
91) isopropylbenzene	18.30	105	33122	0.892	ppbV	97
92) bromobenzene	18.39	77	21859	0.962	ppbV	93
93) 2-chlorotoluene	18.67	126	8198	0.866	ppbV	100
94) n-propylbenzene	18.67	120	8738	0.835	ppbV	87
95) 4-chlorotoluene	18.71	91	29696	0.963	ppbV	99
96) 4-ethyl toluene	18.77	105	35273	0.865	ppbV	99
97) 1,3,5-trimethylbenzene	18.83	105	31951	0.880	ppbV	97
98) tert-butylbenzene	19.13	119	30017	0.851	ppbV	95
99) 1,2,4-trimethylbenzene	19.13	105	29569	0.828	ppbV	94
100) decane	19.17	57	25364	0.838	ppbV	98
101) Benzyl Chloride	19.25	91	19403	0.692	ppbV	98
102) 1,3-dichlorobenzene	19.27	146	20830	0.930	ppbV	95
103) 1,4-dichlorobenzene	19.32	146	21714	0.950	ppbV	95
104) sec-butylbenzene	19.33	105	43000	0.865	ppbV	99
105) 1,2,3-trimethylbenzene	19.46	105	22974	0.950	ppbV	98
106) p-isopropyltoluene	19.44	119	33834	0.813	ppbV	97
107) 1,2-dichlorobenzene	19.58	146	19504	0.930	ppbV	94
108) n-butylbenzene	19.77	91	36180	0.820	ppbV	98
109) indan	19.62	117	23181	0.920	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252408.D
 Acq On : 7 Feb 2018 5:18 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1087627
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:23:09 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.70	115	11160	0.829	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.93	75	10201	0.810	ppbV	90
112)	undecane	20.12	57	21808	0.638	ppbV	95
113)	1,2,4,5-tetramethylben...	20.38	119	25880	0.686	ppbV	94
114)	dodecane	21.03	57	19029	0.499	ppbV	93
115)	1,2,4-trichlorobenzene	21.03	180	14812	0.734	ppbV	98
116)	naphthalene	21.16	128	31701	0.699	ppbV	98
117)	1,2,3-trichlorobenzene	21.41	180	12502	0.667	ppbV #	83
118)	benzothiophene	21.22	134	28759	0.824	ppbV	95
119)	hexachlorobutadiene	21.47	225	13391	0.753	ppbV #	87
120)	2-methylnaphthalene	22.34	142	4044	0.448	ppbV #	95
121)	1-methylnaphthalene	22.55	142	5648	0.469	ppbV	94

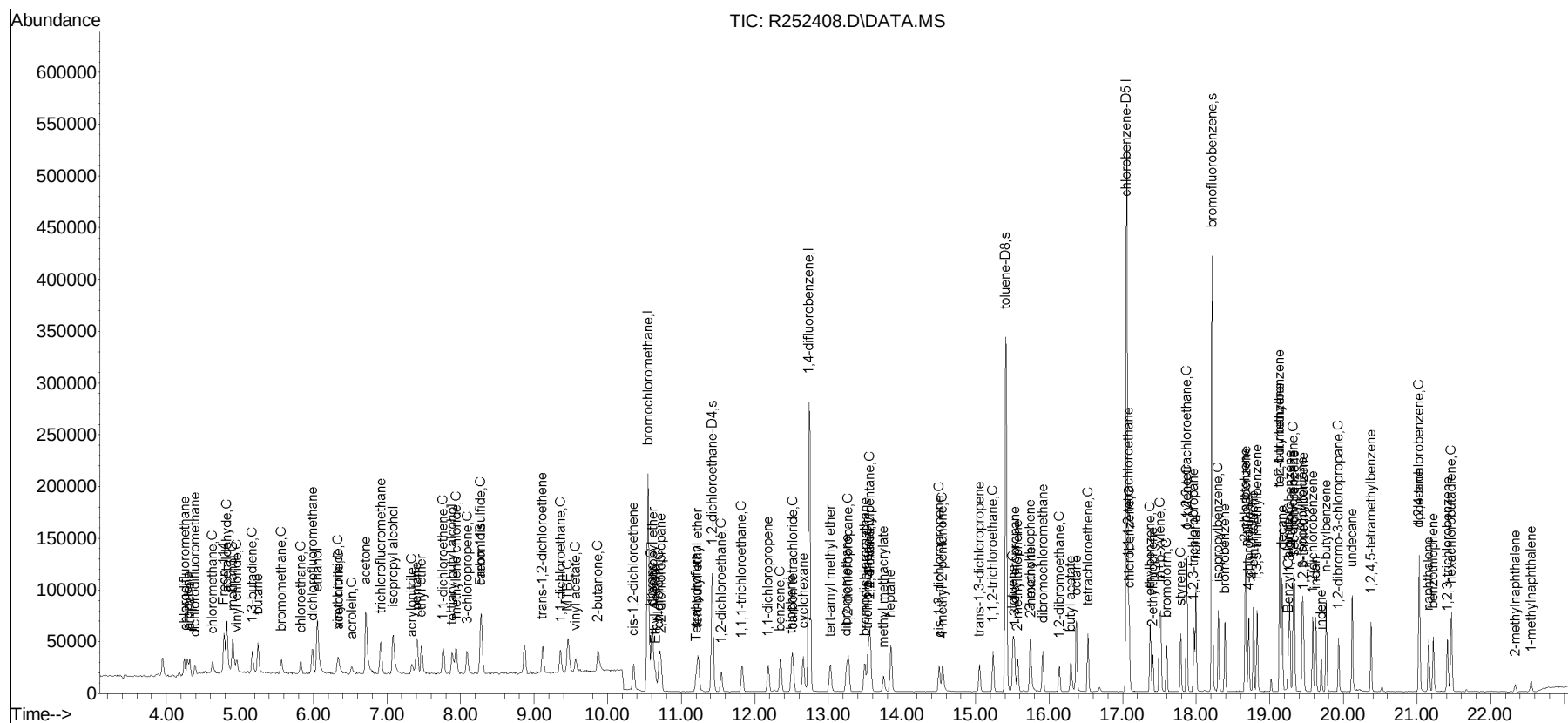
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
Data File : R252408.D
Acq On    : 7 Feb 2018    5:18 pm
Operator  : AIRPIAN02:RY
Sample    : IT015-SIMSTD1.0
Misc      : WG1087627
ALS Vial  : 6    Sample Multiplier: 1
```

Quant Time: Feb 08 09:23:09 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:17:36 2018
Response via : Initial Calibration

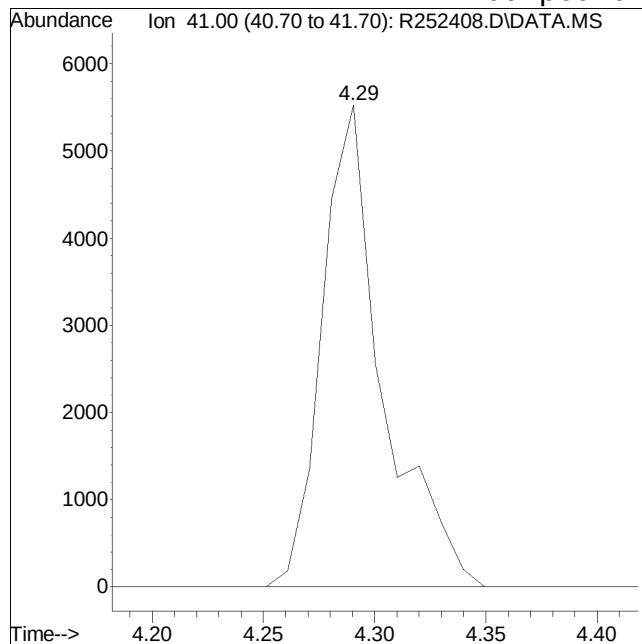
Sub List : Default - All compounds listed0207T_ICAL\R252410.D



Manual Integration/Negative Proof Report

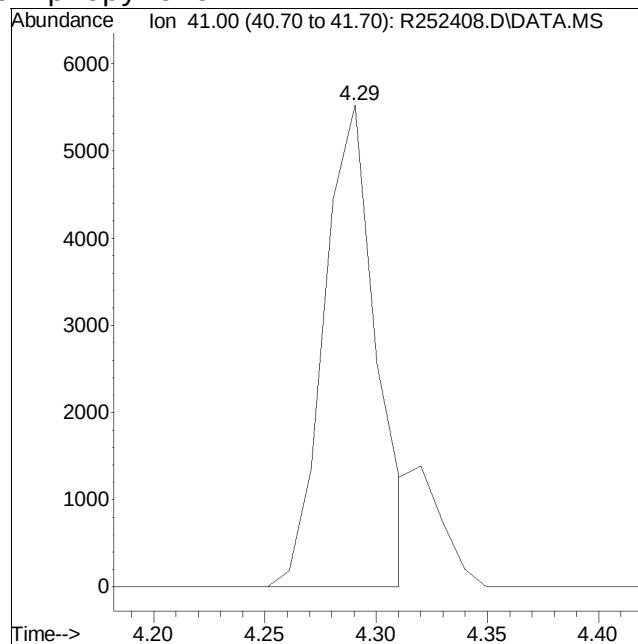
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252408.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 5:18 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2018 9:17 am

Compound #3: propylene



Original Peak Response = 10452

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

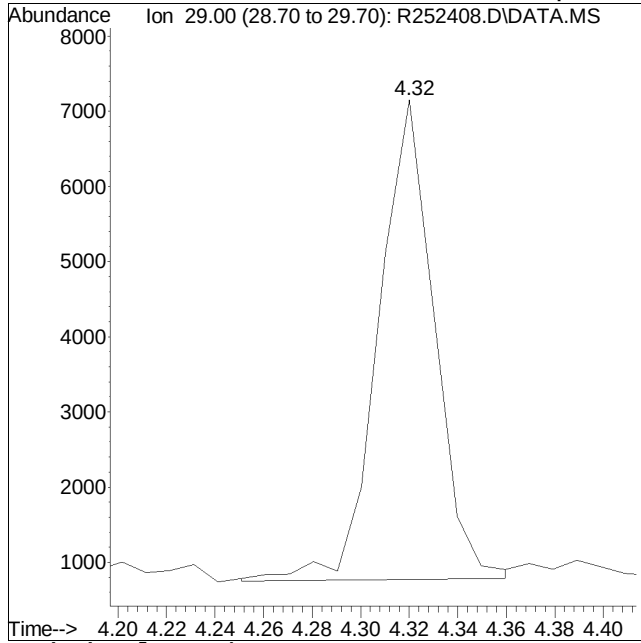


Manual Peak Response = 9071 M6

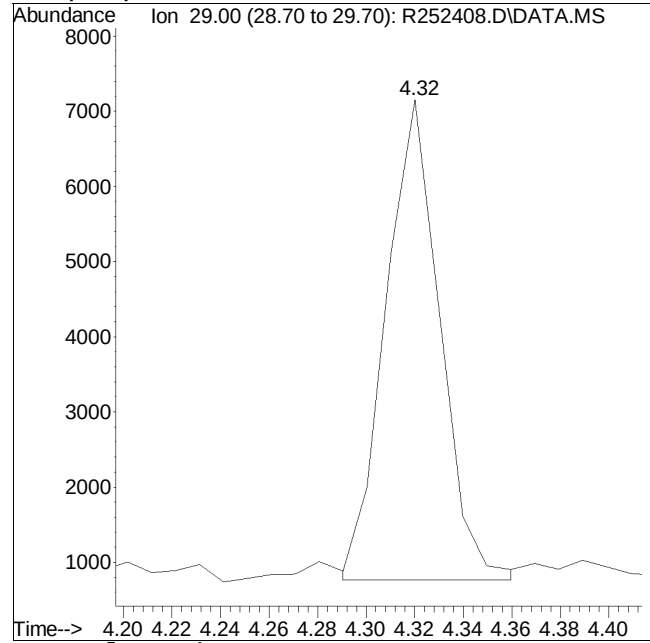
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252408.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 5:18 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2018 9:17 am

Compound #4: propane



Original Peak Response = 10204



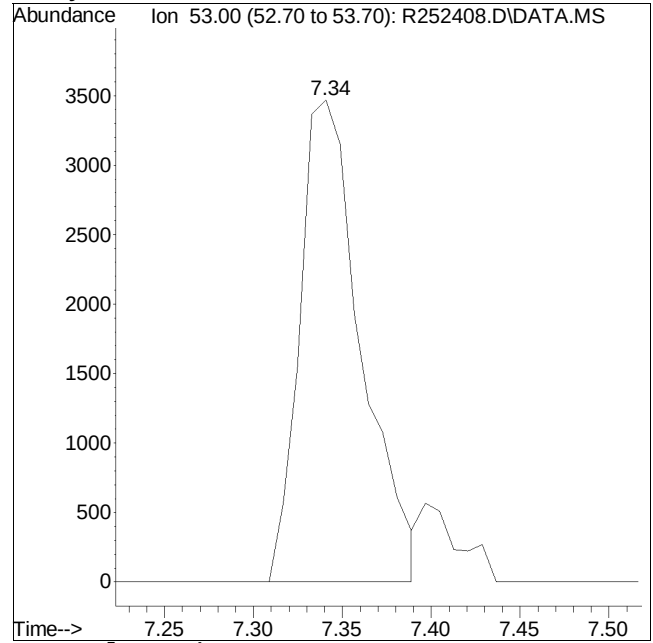
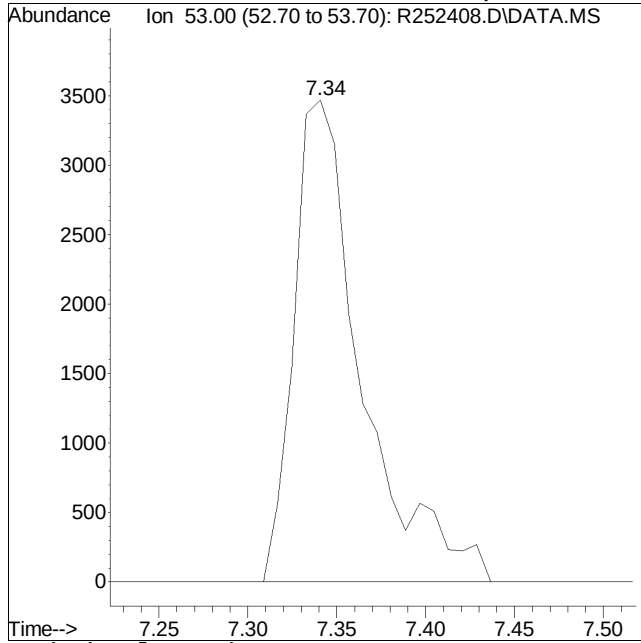
Manual Peak Response = 9917 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252408.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 5:18 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2018 9:17 am

Compound #23: acrylonitrile

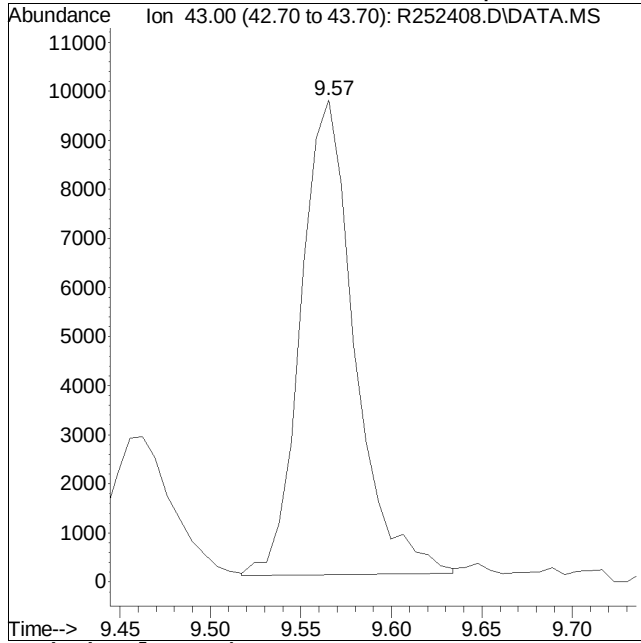


Original Peak Response = 9198
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

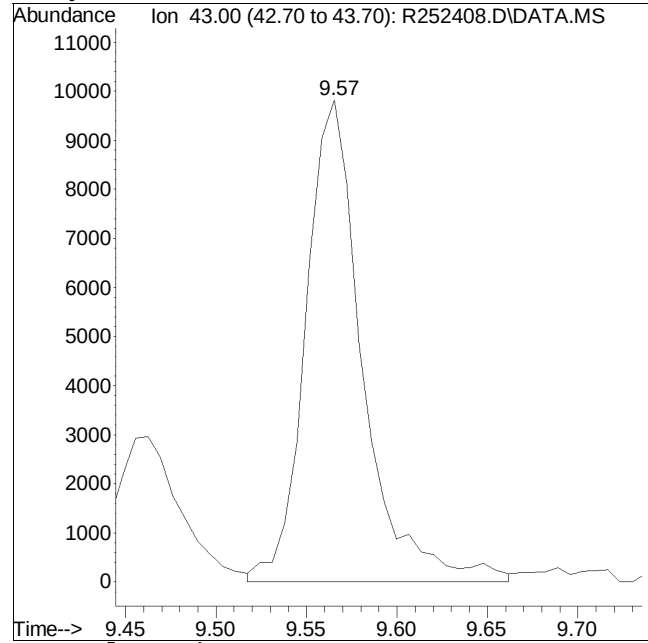
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252408.D Operator : AIRPIANO2:RY
Date Inj'd : 2/7/2018 5:18 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2018 9:17 am

Compound #35: vinyl acetate



Original Peak Response = 20057



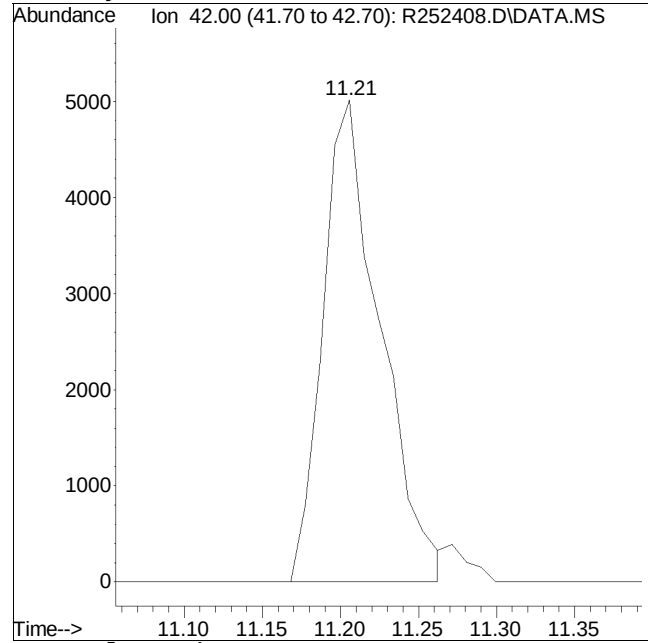
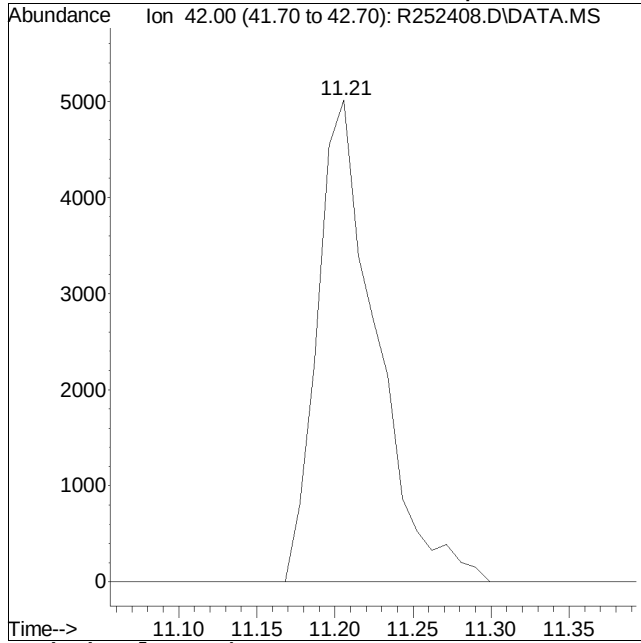
Manual Peak Response = 21575 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252408.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 5:18 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2018 9:17 am

Compound #40: Tetrahydrofuran



M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252409.D
 Acq On : 7 Feb 2018 5:52 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1087627
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:24:27 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.55	49	144081	10.000	ppbV	0.00
Standard Area = 143433			Recovery =	100.45%		
43) 1,4-difluorobenzene	12.74	114	207703	10.000	ppbV	0.00
Standard Area = 211997			Recovery =	97.97%		
67) chlorobenzene-D5	17.05	54	68607	10.000	ppbV	0.00
Standard Area = 69513			Recovery =	98.70%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.42	65	82625	9.802	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.02%		
69) toluene-D8	15.41	98	193612	9.743	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.43%		
90) bromofluorobenzene	18.21	95	102210	10.533	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.33%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.24	51	83332	5.456	ppbV	99
3) propylene	4.28	41	47304M6	5.429	ppbV	
4) propane	4.32	29	47030	5.860	ppbV	97
5) dichlorodifluoromethane	4.39	85	30975	5.703	ppbV	92
6) chloromethane	4.63	50	58711	5.916	ppbV	94
7) Freon-114	4.78	85	78290	5.553	ppbV	99
8) methanol	4.89	31	139396	28.764	ppbV	89
9) vinyl chloride	4.96	62	55604	5.532	ppbV	98
10) 1,3-butadiene	5.17	54	41714	5.377	ppbV	97
11) butane	5.25	43	104379	5.725	ppbV	97
12) acetaldehyde	4.81	29	171540	28.129	ppbV	97
13) bromomethane	5.56	94	41300	5.252	ppbV	100
14) chloroethane	5.82	64	27880	5.454	ppbV	98
15) ethanol	6.04	31	268987	26.130	ppbV	99
16) dichlorofluoromethane	5.98	67	114268	5.296	ppbV	98
17) vinyl bromide	6.33	106	37309	5.091	ppbV	99
18) acrolein	6.51	56	22647	4.986	ppbV	98
19) acetone	6.69	43	412801	25.589	ppbV	100
20) acetonitrile	6.33	41	66083	5.377	ppbV	95
21) trichlorofluoromethane	6.92	101	114599	5.171	ppbV	99
22) isopropyl alcohol	7.06	45	214218	12.767	ppbV	99
23) acrylonitrile	7.33	53	44768	5.254	ppbV	92
24) pentane	7.40	43	115642	5.225	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252409.D
 Acq On : 7 Feb 2018 5:52 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1087627
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:24:27 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.45	31	95043	4.868	ppbV	98
26) 1,1-dichloroethene	7.76	61	92735	5.019	ppbV	100
27) tertiary butyl alcohol	7.86	59	81134	4.909	ppbV	97
28) methylene chloride	7.94	49	82090	5.092	ppbV	98
29) 3-chloropropene	8.08	41	90062	4.973	ppbV	98
30) carbon disulfide	8.28	76	142814	4.982	ppbV	94
31) Freon 113	8.28	101	85393	4.959	ppbV	95
32) trans-1,2-dichloroethene	9.11	61	84855	5.031	ppbV	99
33) 1,1-dichloroethane	9.36	63	108415	5.066	ppbV	96
34) MTBE	9.45	73	112769	4.829	ppbV	97
35) vinyl acetate	9.56	43	123477	4.580	ppbV	100
36) 2-butanone	9.85	43	150877	4.900	ppbV	99
37) cis-1,2-dichloroethene	10.35	61	83841	5.053	ppbV	99
38) Ethyl Acetate	10.63	61	14990	4.683	ppbV	86
39) chloroform	10.70	83	97640	5.129	ppbV	97
40) Tetrahydrofuran	11.18	42	67081M6	4.660	ppbV	
41) 2,2-dichloropropane	10.72	77	70073	4.842	ppbV	91
42) 1,2-dichloroethane	11.54	62	75249	5.052	ppbV	98
44) hexane	10.60	57	81734	5.063	ppbV	96
45) diisopropyl ether	10.60	87	28717	4.877	ppbV	91
46) tert-butyl ethyl ether	11.22	59	127504	4.873	ppbV	98
48) 1,1,1-trichloroethane	11.83	97	80256	5.032	ppbV	95
49) 1,1-dichloropropene	12.18	75	64041	5.057	ppbV	98
50) benzene	12.34	78	134123	5.086	ppbV	99
51) thiophene	12.50	84	64698	5.042	ppbV #	83
52) carbon tetrachloride	12.52	117	84414	5.297	ppbV	95
53) cyclohexane	12.66	56	80156	5.088	ppbV	95
54) tert-amyl methyl ether	13.02	73	84700	4.785	ppbV	98
55) dibromomethane	13.25	93	50821	5.203	ppbV	97
56) 1,2-dichloropropane	13.27	63	57567	5.004	ppbV	94
57) bromodichloromethane	13.50	83	102022	5.117	ppbV	99
58) 1,4-dioxane	13.54	88	24347	4.891	ppbV	96
59) trichloroethene	13.53	130	47830	4.997	ppbV	96
60) 2,2,4-trimethylpentane	13.56	57	271048	5.050	ppbV	98
61) methyl methacrylate	13.75	41	57797	4.617	ppbV	99
62) heptane	13.85	43	117644	4.930	ppbV	97
63) cis-1,3-dichloropropene	14.50	75	71637	4.837	ppbV	98
64) 4-methyl-2-pentanone	14.54	43	152539	4.842	ppbV	99
65) trans-1,3-dichloropropene	15.06	75	71291	4.705	ppbV	96
66) 1,1,2-trichloroethane	15.24	97	50400	5.138	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252409.D
 Acq On : 7 Feb 2018 5:52 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1087627
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:24:27 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.51	91	155188	4.995	ppbV	98
70) 2-methylthiophene	15.57	97	89726	4.872	ppbV	97
71) 1,3-dichloropropane	15.53	76	79572	5.043	ppbV	97
72) 2-hexanone	15.73	43	145730	4.693	ppbV	99
73) 3-methylthiophene	15.74	97	93937	4.918	ppbV	97
74) dibromochloromethane	15.91	129	83037	5.044	ppbV	99
75) 1,2-dibromoethane	16.14	107	76042	4.920	ppbV	96
76) butyl acetate	16.28	73	14723	4.514	ppbV	98
77) octane	16.37	85	40510	4.793	ppbV #	94
78) tetrachloroethene	16.53	166	61455	5.052	ppbV	98
79) 1,1,1,2-tetrachloroethane	17.07	131	56337	4.970	ppbV	100
80) chlorobenzene	17.09	112	112418	5.014	ppbV	98
81) ethylbenzene	17.37	91	196658	4.930	ppbV	99
82) 2-ethylthiophene	17.41	97	86826	4.970	ppbV	99
83) m+p-xylene	17.51	91	318725	9.888	ppbV	100
84) bromoform	17.59	173	80200	4.931	ppbV	99
85) styrene	17.79	104	111915	4.937	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.87	83	137083	5.007	ppbV	100
87) o-xylene	17.87	91	164501	4.915	ppbV	99
88) 1,2,3-trichloropropane	17.97	75	101942	5.012	ppbV	100
89) nonane	17.99	43	183730	5.011	ppbV	100
91) isopropylbenzene	18.30	105	192322	4.975	ppbV	98
92) bromobenzene	18.39	77	120310	5.086	ppbV	95
93) 2-chlorotoluene	18.66	126	48975	4.964	ppbV #	52
94) n-propylbenzene	18.67	120	53689	4.923	ppbV	95
95) 4-chlorotoluene	18.71	91	161304	5.020	ppbV	100
96) 4-ethyl toluene	18.77	105	209729	4.940	ppbV	100
97) 1,3,5-trimethylbenzene	18.83	105	182687	4.830	ppbV	99
98) tert-butylbenzene	19.13	119	181965	4.952	ppbV	97
99) 1,2,4-trimethylbenzene	19.13	105	180765	4.859	ppbV	98
100) decane	19.17	57	156708	4.968	ppbV	97
101) Benzyl Chloride	19.25	91	138594	4.744	ppbV	99
102) 1,3-dichlorobenzene	19.27	146	118185	5.066	ppbV	99
103) 1,4-dichlorobenzene	19.32	146	118159	4.962	ppbV	98
104) sec-butylbenzene	19.33	105	257117	4.968	ppbV	99
105) 1,2,3-trimethylbenzene	19.46	105	124937	4.960	ppbV	98
106) p-isopropyltoluene	19.44	119	215511	4.971	ppbV	99
107) 1,2-dichlorobenzene	19.58	146	111079	5.084	ppbV	98
108) n-butylbenzene	19.76	91	231829	5.046	ppbV	97
109) indan	19.62	117	130205	4.962	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252409.D
 Acq On : 7 Feb 2018 5:52 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1087627
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:24:27 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.70	115	69499	4.957	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.93	75	62047	4.728	ppbV	96
112)	undecane	20.11	57	172178	4.837	ppbV	100
113)	1,2,4,5-tetramethylben...	20.37	119	191841	4.885	ppbV	98
114)	dodecane	21.02	57	180037	4.535	ppbV	97
115)	1,2,4-trichlorobenzene	21.03	180	100018	4.756	ppbV	99
116)	naphthalene	21.16	128	225326	4.768	ppbV	98
117)	1,2,3-trichlorobenzene	21.41	180	93634	4.799	ppbV	99
118)	benzothiophene	21.22	134	171139	4.705	ppbV	99
119)	hexachlorobutadiene	21.47	225	85492	4.613	ppbV	97
120)	2-methylnaphthalene	22.33	142	35340	3.762	ppbV	99
121)	1-methylnaphthalene	22.54	142	50646	4.037	ppbV	97

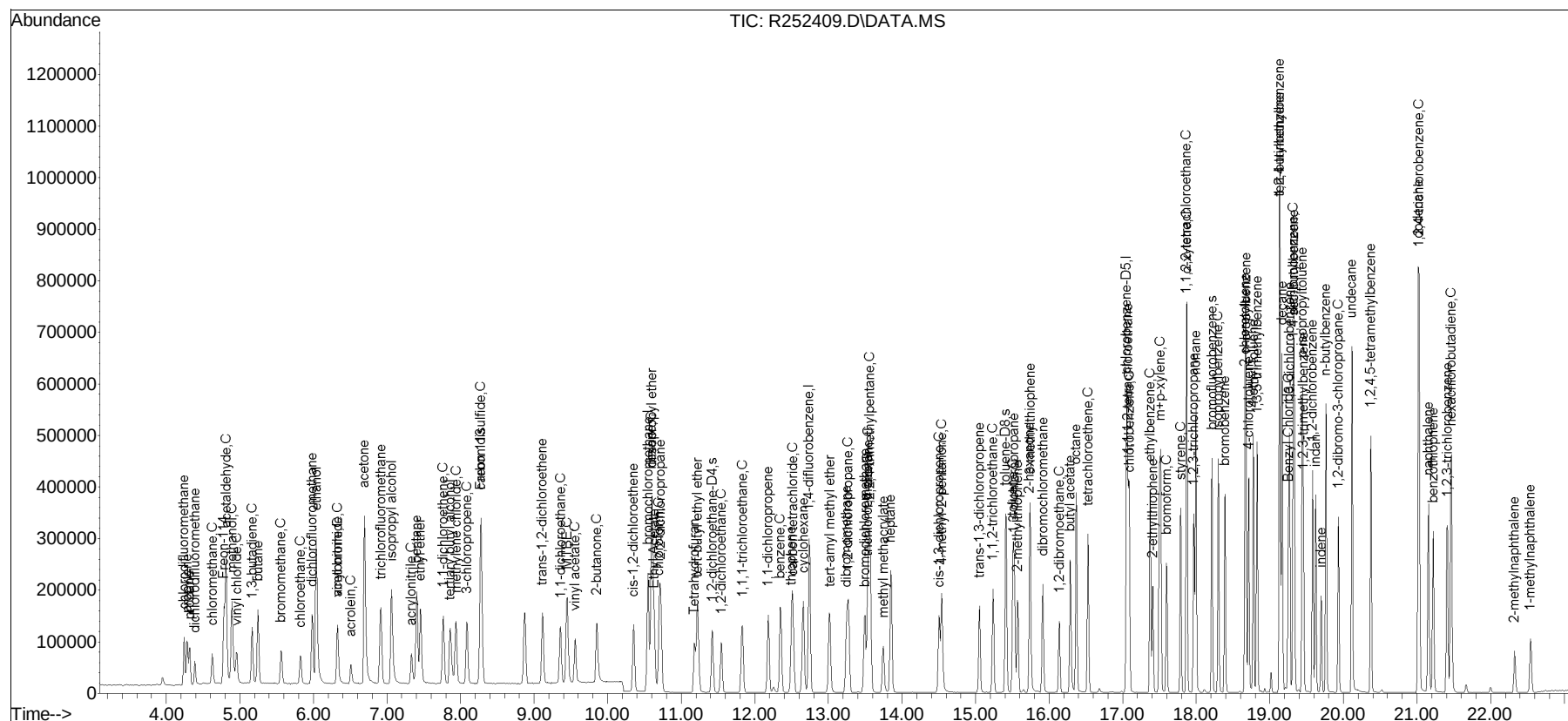
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
Data File : R252409.D
Acq On    : 7 Feb 2018    5:52 pm
Operator  : AIRPIAN02:RY
Sample    : IT015-SIMSTD5.0
Misc      : WG1087627
ALS Vial  : 7    Sample Multiplier: 1
```

Quant Time: Feb 08 09:24:27 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:17:36 2018
Response via : Initial Calibration

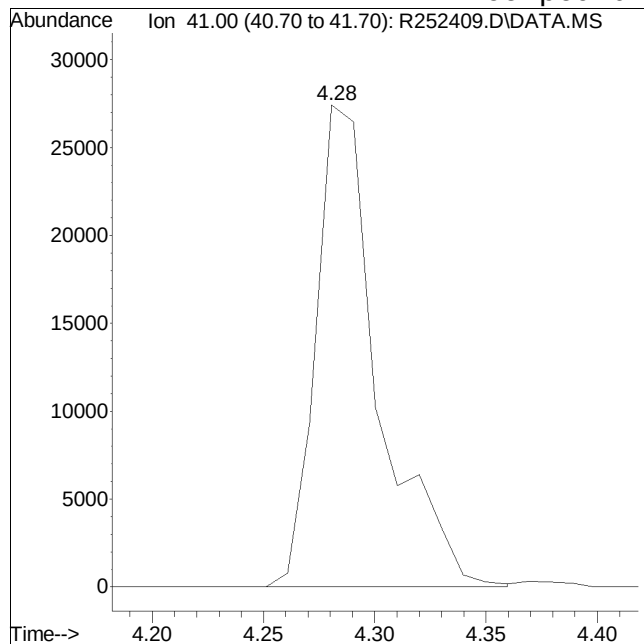
Sub List : Default - All compounds listed0207T_ICAL\R252410.D



Manual Integration/Negative Proof Report

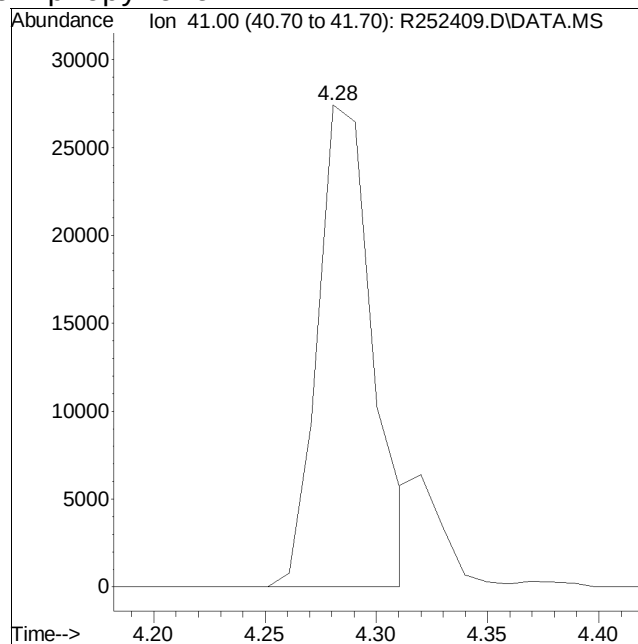
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252409.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 5:52 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2018 9:18 am

Compound #3: propylene



Original Peak Response = 53782

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

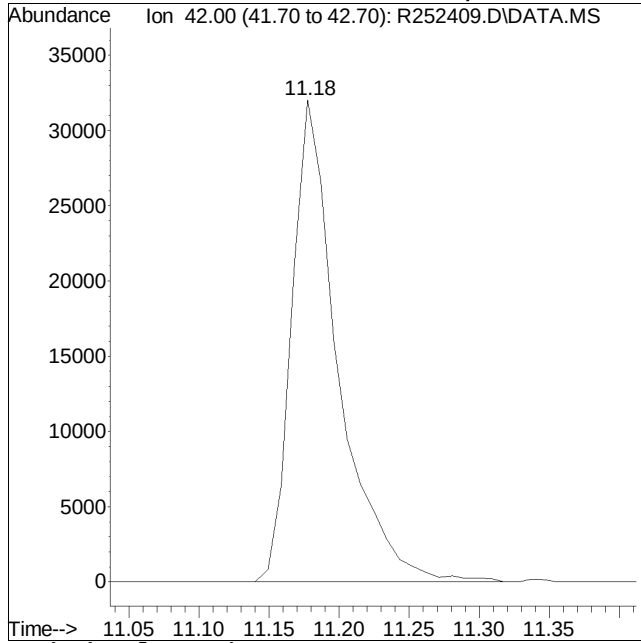


Manual Peak Response = 47304 M6

Manual Integration/Negative Proof Report

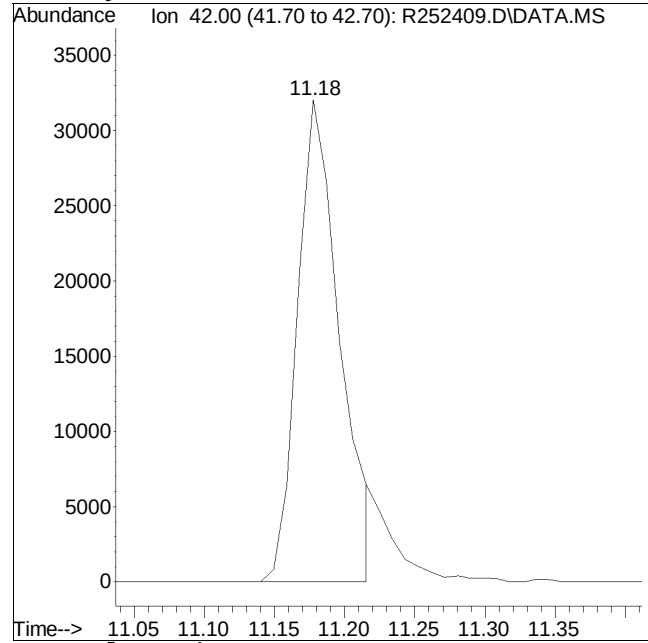
Data Path : O:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252409.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 5:52 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2018 9:18 am

Compound #40: Tetrahydrofuran



Original Peak Response = 73984

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 67081 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252410.D
 Acq On : 7 Feb 2018 6:28 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD10.0
 Misc : WG1087627
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:16:40 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 05 08:56:02 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.55	49	143433	10.000	ppbV	# 0.00
Standard Area = 143433			Recovery =	100.00%		
43) 1,4-difluorobenzene	12.74	114	211997	10.000	ppbV	-0.01
Standard Area = 211997			Recovery =	100.00%		
67) chlorobenzene-D5	17.05	54	69513	10.000	ppbV	# 0.00
Standard Area = 69513			Recovery =	100.00%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.42	65	86041	13.253	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	132.53%#		
69) toluene-D8	15.42	98	201347	7.662	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	76.62%		
90) bromofluorobenzene	18.21	95	98323	7.578	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	75.78%		
Target Compounds						
						Qvalue
2) chlorodifluoromethane	4.24	51	152052	8.433	ppbV	100
3) propylene	4.28	41	86741M6	8.329	ppbV	
4) propane	4.32	29	79891	9.741	ppbV	91
5) dichlorodifluoromethane	4.39	85	54073	7.486	ppbV	95
6) chloromethane	4.63	50	98794	9.115	ppbV	96
7) Freon-114	4.78	85	140343	7.343	ppbV	93
8) methanol	4.89	31	241216	65.163	ppbV	98
9) vinyl chloride	4.95	62	100068	8.576	ppbV	99
10) 1,3-butadiene	5.17	54	77228	9.494	ppbV	82
11) butane	5.25	43	181486	10.052	ppbV	96
12) acetaldehyde	4.81	29	303544	62.146	ppbV	85
13) bromomethane	5.56	94	78276	8.048	ppbV	100
14) chloroethane	5.82	64	50887	9.020	ppbV	99
15) ethanol	6.04	31	512395	67.423	ppbV	87
16) dichlorofluoromethane	5.98	67	214780	9.664	ppbV	# 98
17) vinyl bromide	6.33	106	72957	7.984	ppbV	98
18) acrolein	6.51	56	45213	9.651	ppbV	# 86
19) acetone	6.69	43	802982	56.680	ppbV	92
20) acetonitrile	6.33	41	122345	11.725	ppbV	98
21) trichlorofluoromethane	6.92	101	220608	9.403	ppbV	100
22) isopropyl alcohol	7.06	45	417582	22.788	ppbV	100
23) acrylonitrile	7.33	53	84829	10.272	ppbV	99
24) pentane	7.40	43	220339M6	11.516	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252410.D
 Acq On : 7 Feb 2018 6:28 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD10.0
 Misc : WG1087627
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:16:40 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 05 08:56:02 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) ethyl ether	7.45	31	194347	14.206	ppbV	#	82
26) 1,1-dichloroethene	7.76	61	183925	10.229	ppbV		93
27) tertiary butyl alcohol	7.85	59	164529	8.127	ppbV	#	68
28) methylene chloride	7.94	49	160473	11.648	ppbV	#	81
29) 3-chloropropene	8.08	41	180302	11.413	ppbV	#	91
30) carbon disulfide	8.28	76	285350	9.649	ppbV	#	88
31) Freon 113	8.28	101	171426	8.757	ppbV		90
32) trans-1,2-dichloroethene	9.11	61	167911	10.233	ppbV		92
33) 1,1-dichloroethane	9.36	63	213025	10.674	ppbV		96
34) MTBE	9.44	73	232478	8.830	ppbV	#	94
35) vinyl acetate	9.56	43	268381	12.711	ppbV	#	96
36) 2-butanone	9.85	43	306505	13.157	ppbV	#	91
37) cis-1,2-dichloroethene	10.35	61	165165	11.174	ppbV		88
38) Ethyl Acetate	10.63	61	31866	8.201	ppbV	#	51
39) chloroform	10.71	83	189509	8.378	ppbV	#	95
40) Tetrahydrofuran	11.18	42	143302M6	8.520	ppbV		
41) 2,2-dichloropropane	10.73	77	144082	7.719	ppbV	#	78
42) 1,2-dichloroethane	11.54	62	148265	9.074	ppbV		97
44) hexane	10.60	57	164759	12.083	ppbV		84
45) diisopropyl ether	10.60	87	60104	9.993	ppbV	#	47
46) tert-butyl ethyl ether	11.22	59	267059	9.967	ppbV		97
48) 1,1,1-trichloroethane	11.83	97	162776	10.751	ppbV		89
49) 1,1-dichloropropene	12.18	75	129262	10.039	ppbV	#	84
50) benzene	12.35	78	269149	10.188	ppbV		94
51) thiophene	12.51	84	130962	9.974	ppbV		93
52) carbon tetrachloride	12.52	117	162649	10.714	ppbV		96
53) cyclohexane	12.66	56	160794	10.661	ppbV		87
54) tert-amyl methyl ether	13.01	73	180670	8.273	ppbV		91
55) dibromomethane	13.25	93	99696	10.527	ppbV		94
56) 1,2-dichloropropane	13.27	63	117411	10.699	ppbV	#	90
57) bromodichloromethane	13.50	83	203493	11.394	ppbV		98
58) 1,4-dioxane	13.54	88	50807	9.369	ppbV		84
59) trichloroethene	13.54	130	97706	9.641	ppbV		98
60) 2,2,4-trimethylpentane	13.56	57	547829	11.511	ppbV		91
61) methyl methacrylate	13.75	41	127759	11.391	ppbV	#	86
62) heptane	13.85	43	243549	12.489	ppbV	#	95
63) cis-1,3-dichloropropene	14.50	75	151163	10.446	ppbV	#	84
64) 4-methyl-2-pentanone	14.54	43	321536	12.719	ppbV		92
65) trans-1,3-dichloropropene	15.06	75	154655	10.928	ppbV	#	86
66) 1,1,2-trichloroethane	15.24	97	100123	10.032	ppbV	#	87

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252410.D
 Acq On : 7 Feb 2018 6:28 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD10.0
 Misc : WG1087627
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:16:40 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 05 08:56:02 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.51	91	314760	7.684	ppbV	98
70) 2-methylthiophene	15.57	97	186603	6.985	ppbV #	97
71) 1,3-dichloropropane	15.53	76	159886	8.121	ppbV #	76
72) 2-hexanone	15.73	43	314610	9.967	ppbV #	92
73) 3-methylthiophene	15.74	97	193518	7.593	ppbV #	96
74) dibromochloromethane	15.91	129	166791	7.748	ppbV	97
75) 1,2-dibromoethane	16.14	107	156583	7.559	ppbV	100
76) butyl acetate	16.28	73	33048	7.431	ppbV #	61
77) octane	16.37	85	85638	7.499	ppbV #	62
78) tetrachloroethene	16.53	166	123259	7.292	ppbV	95
79) 1,1,1,2-tetrachloroethane	17.07	131	114849	7.768	ppbV	95
80) chlorobenzene	17.09	112	227160	7.421	ppbV	96
81) ethylbenzene	17.37	91	404138	7.828	ppbV	99
82) 2-ethylthiophene	17.41	97	177016	7.182	ppbV #	93
83) m+p-xylene	17.51	91	653152	16.310	ppbV	100
84) bromoform	17.60	173	164797	7.823	ppbV	99
85) styrene	17.79	104	229659	7.580	ppbV	96
86) 1,1,2,2-tetrachloroethane	17.87	83	277373	9.143	ppbV	99
87) o-xylene	17.87	91	339145	8.412	ppbV	95
88) 1,2,3-trichloropropane	17.97	75	206067	8.257	ppbV #	91
89) nonane	17.99	43	371479	10.286	ppbV	88
91) isopropylbenzene	18.30	105	391663	7.743	ppbV	98
92) bromobenzene	18.39	77	239690	7.807	ppbV	99
93) 2-chlorotoluene	18.67	126	99960	7.600	ppbV	70
94) n-propylbenzene	18.67	120	110490	7.791	ppbV	97
95) 4-chlorotoluene	18.71	91	325581	7.637	ppbV	97
96) 4-ethyl toluene	18.77	105	430202	8.054	ppbV	97
97) 1,3,5-trimethylbenzene	18.83	105	383261	7.652	ppbV	97
98) tert-butylbenzene	19.13	119	372322	8.516	ppbV	97
99) 1,2,4-trimethylbenzene	19.13	105	376932	8.556	ppbV	94
100) decane	19.17	57	319596	9.365	ppbV	83
101) Benzyl Chloride	19.25	91	296003	8.270	ppbV	98
102) 1,3-dichlorobenzene	19.27	146	236364	7.718	ppbV	94
103) 1,4-dichlorobenzene	19.32	146	241286	7.896	ppbV	97
104) sec-butylbenzene	19.33	105	524385	8.427	ppbV	99
105) 1,2,3-trimethylbenzene	19.46	105	255214	7.542	ppbV	96
106) p-isopropyltoluene	19.44	119	439296	8.127	ppbV	99
107) 1,2-dichlorobenzene	19.58	146	221359	7.654	ppbV	96
108) n-butylbenzene	19.77	91	465511	8.673	ppbV	96
109) indan	19.62	117	265880	7.331	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252410.D
 Acq On : 7 Feb 2018 6:28 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD10.0
 Misc : WG1087627
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:16:40 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 05 08:56:02 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.70	115	142049	7.274	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.93	75	132965	9.028	ppbV	84
112) undecane	20.12	57	360637	10.031	ppbV	89
113) 1,2,4,5-tetramethylben...	20.37	119	397867	8.109	ppbV	97
114) dodecane	21.02	57	402226	11.673	ppbV	86
115) 1,2,4-trichlorobenzene	21.03	180	213064	8.637	ppbV	98
116) naphthalene	21.16	128	478868	8.363	ppbV	98
117) 1,2,3-trichlorobenzene	21.41	180	197708	8.439	ppbV	100
118) benzothiophene	21.22	134	368512	7.261	ppbV #	97
119) hexachlorobutadiene	21.47	225	187784	8.936	ppbV	94
120) 2-methylnaphthalene	22.33	142	95187	6.817	ppbV	98
121) 1-methylnaphthalene	22.54	142	127120	7.295	ppbV	98

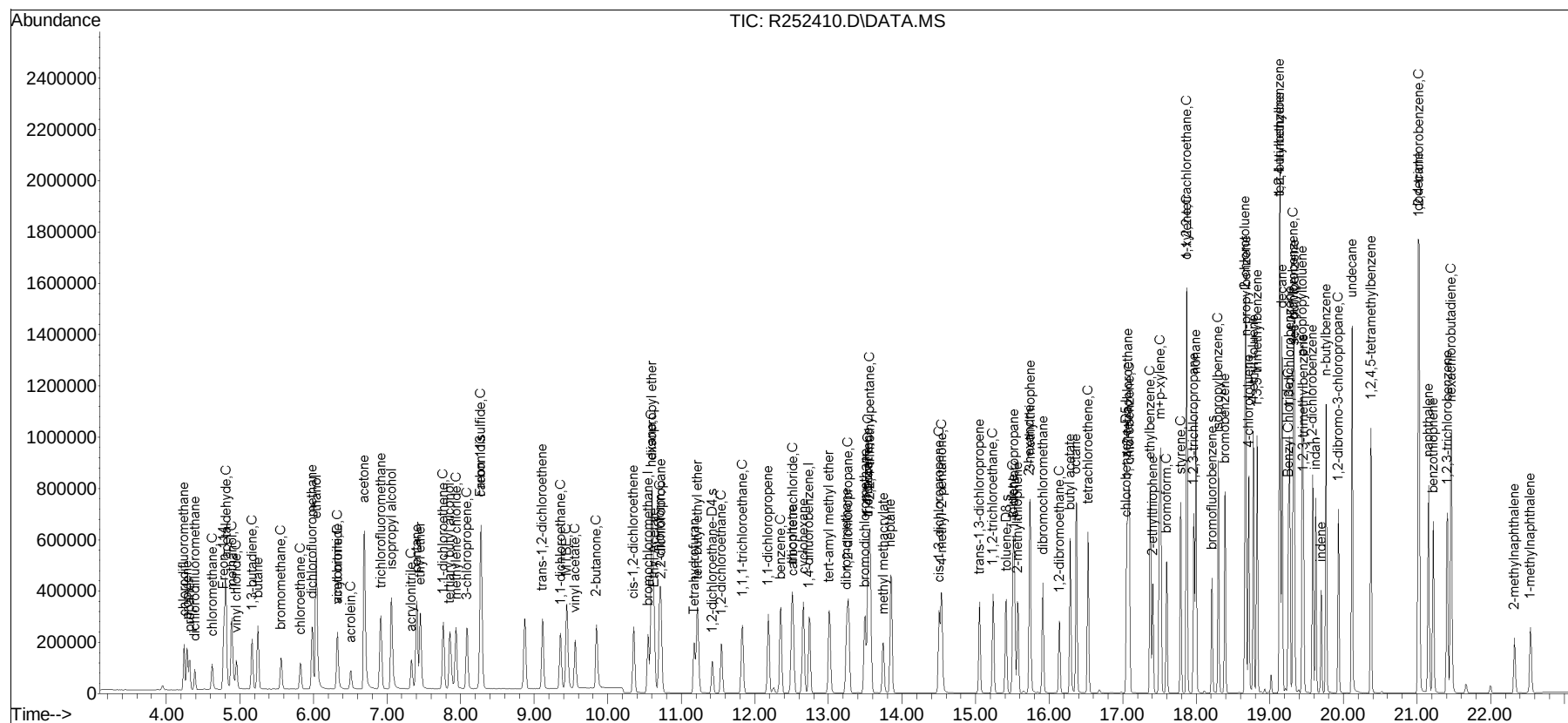
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
Data File : R252410.D
Acq On    : 7 Feb 2018    6:28 pm
Operator  : AIRPIAN02:RY
Sample    : IT015-SIMSTD10.0
Misc      : WG1087627
ALS Vial  : 7    Sample Multiplier: 1
```

Quant Time: Feb 08 09:16:40 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Feb 05 08:56:02 2018
Response via : Initial Calibration

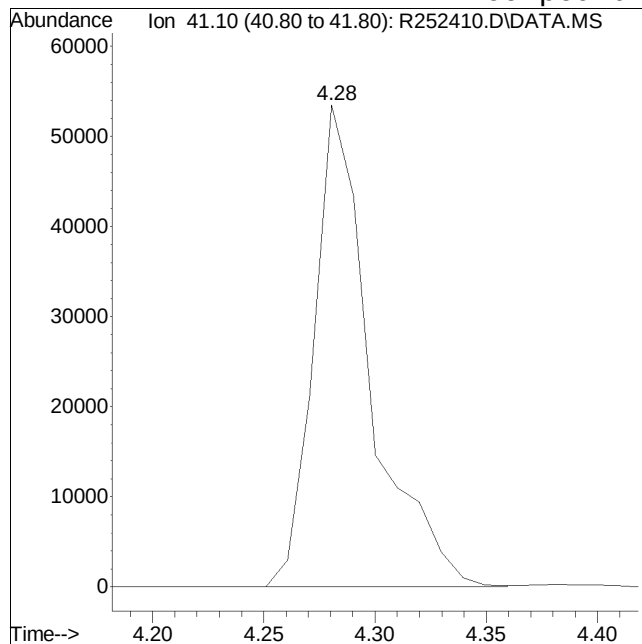
Sub List : Default - All compounds listed0207T_ICAL\R252410.D



Manual Integration/Negative Proof Report

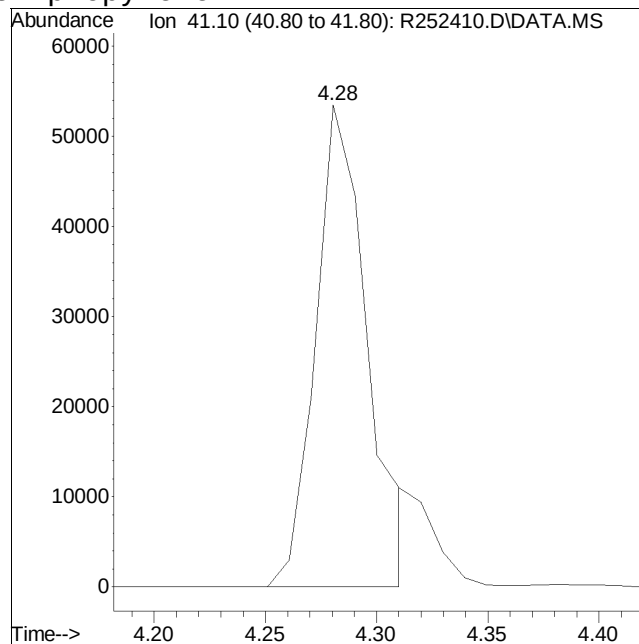
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Data File : R252410.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 6:28 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/8/2018 9:16 am

Compound #3: propylene



Original Peak Response = 95454

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



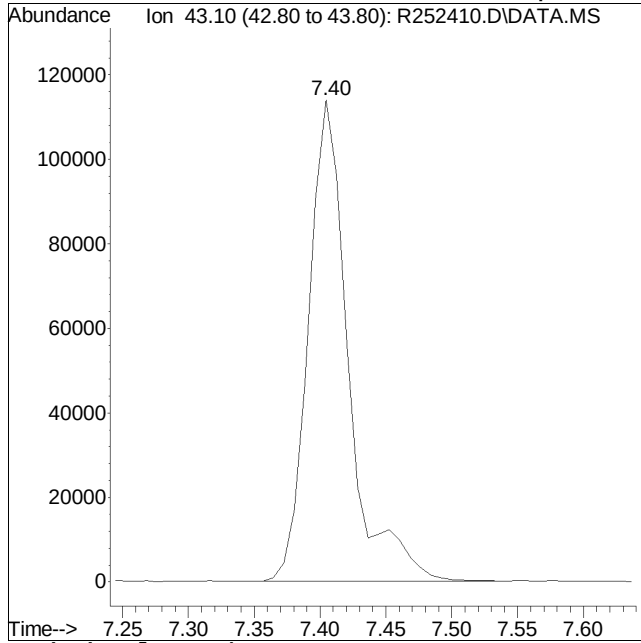
Manual Peak Response = 86741 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

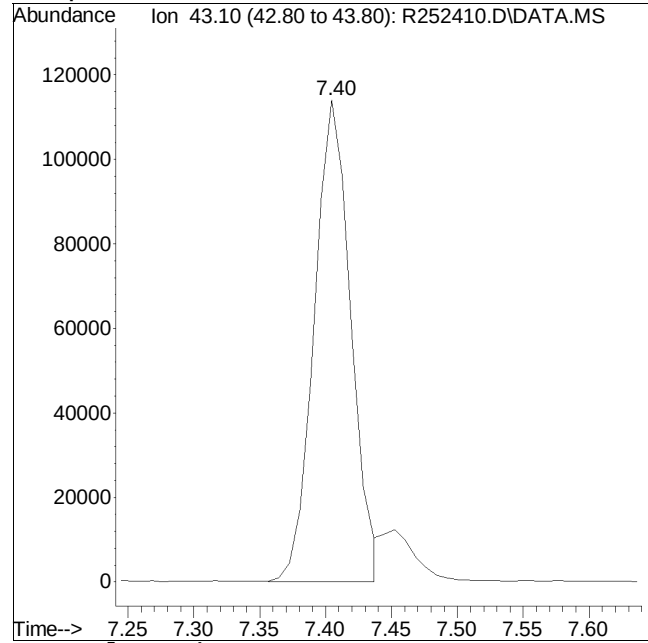
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Data File : R252410.D Operator : AIRPIANO2:RY
Date Inj'd : 2/7/2018 6:28 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/8/2018 9:16 am

Compound #24: pentane



Original Peak Response = 240809

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

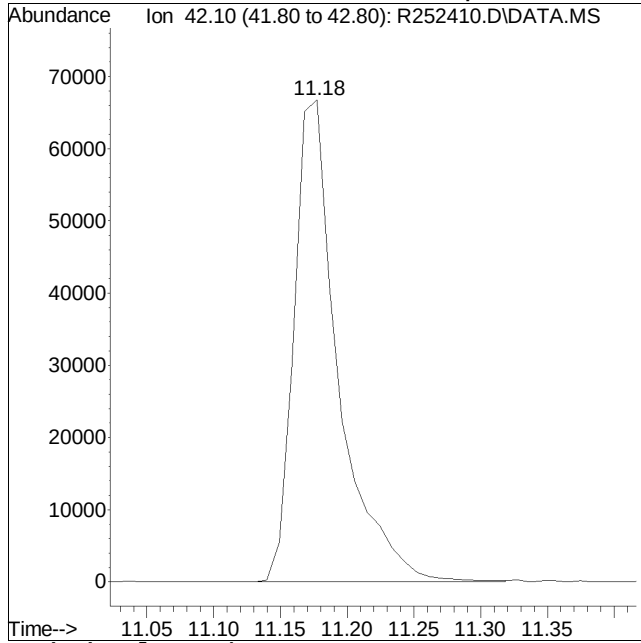


Manual Peak Response = 220339 M6

Manual Integration/Negative Proof Report

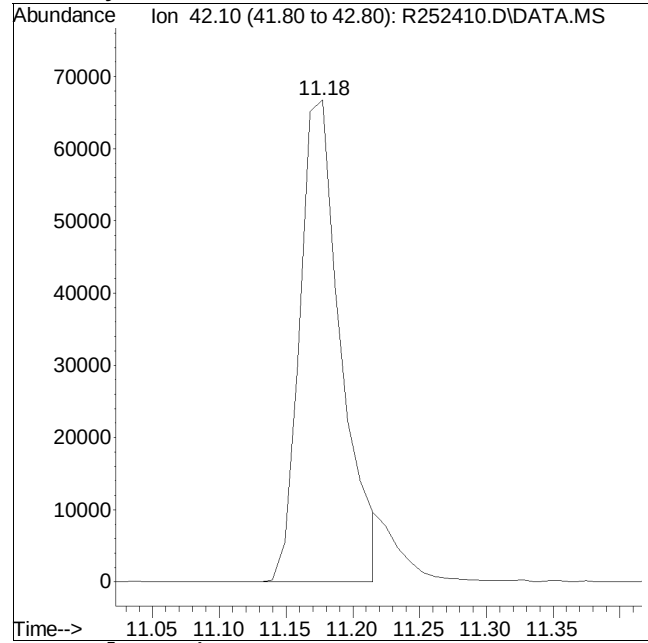
Data Path : O:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252410.D Operator : AIRPIANO2:RY
Date Inj'd : 2/7/2018 6:28 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/8/2018 9:16 am

Compound #40: Tetrahydrofuran



Original Peak Response = 154111

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 143302 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252411.D
 Acq On : 7 Feb 2018 7:01 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD20.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:25:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.55	49	146558	10.000	ppbV	0.00
Standard Area = 143433			Recovery =	102.18%		
43) 1,4-difluorobenzene	12.75	114	212471	10.000	ppbV	0.01
Standard Area = 211997			Recovery =	100.22%		
67) chlorobenzene-D5	17.06	54	70054	10.000	ppbV	0.00
Standard Area = 69513			Recovery =	100.78%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.42	65	83481	9.681	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.81%		
69) toluene-D8	15.42	98	203391	10.024	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.24%		
90) bromofluorobenzene	18.21	95	97000	9.789	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.89%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.24	51	315666	20.318	ppbV	99
3) propylene	4.28	41	181281M6	20.453	ppbV	
4) propane	4.32	29	164477	20.149	ppbV	96
5) dichlorodifluoromethane	4.39	85	122955	22.254	ppbV	96
6) chloromethane	4.63	50	199976	19.810	ppbV	98
7) Freon-114	4.78	85	247986	17.293	ppbV	99
8) methanol	4.89	31	465772	94.488	ppbV	94
9) vinyl chloride	4.95	62	197865	19.351	ppbV	99
10) 1,3-butadiene	5.17	54	150271	19.043	ppbV	96
11) butane	5.25	43	362096	19.526	ppbV	99
12) acetaldehyde	4.80	29	647947	104.455	ppbV	99
13) bromomethane	5.56	94	152085	19.015	ppbV	98
14) chloroethane	5.82	64	98118	18.870	ppbV	97
15) ethanol	6.04	31	1026525	98.033	ppbV	97
16) dichlorofluoromethane	5.99	67	420844	19.176	ppbV	100
17) vinyl bromide	6.33	106	146736	19.684	ppbV	99
18) acrolein	6.50	56	89800	19.438	ppbV	97
19) acetone	6.69	43	1700630	103.637	ppbV	99
20) acetonitrile	6.33	41	235729	18.857	ppbV	97
21) trichlorofluoromethane	6.92	101	455176	20.193	ppbV	100
22) isopropyl alcohol	7.06	45	922610	54.057	ppbV	99
23) acrylonitrile	7.33	53	176140	20.321	ppbV	98
24) pentane	7.40	43	463881M6	20.604	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252411.D
 Acq On : 7 Feb 2018 7:01 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD20.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:25:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.45	31	402275	20.257	ppbV	98
26) 1,1-dichloroethene	7.76	61	382452	20.351	ppbV	97
27) tertiary butyl alcohol	7.85	59	366142	21.779	ppbV	93
28) methylene chloride	7.94	49	326167	19.892	ppbV	99
29) 3-chloropropene	8.09	41	373101	20.252	ppbV	100
30) carbon disulfide	8.28	76	614314	21.069	ppbV	99
31) Freon 113	8.28	101	364309	20.799	ppbV	99
32) trans-1,2-dichloroethene	9.12	61	361212	21.053	ppbV	99
33) 1,1-dichloroethane	9.36	63	452358	20.782	ppbV	97
34) MTBE	9.44	73	518757	21.838	ppbV	99
35) vinyl acetate	9.56	43	640547	23.358	ppbV	99
36) 2-butanone	9.85	43	660928	21.104	ppbV	99
37) cis-1,2-dichloroethene	10.35	61	359563	21.306	ppbV	99
38) Ethyl Acetate	10.63	61	75445	23.171	ppbV	88
39) chloroform	10.71	83	419835	21.681	ppbV	99
40) Tetrahydrofuran	11.17	42	329107M6	22.476	ppbV	
41) 2,2-dichloropropane	10.73	77	336340	22.846	ppbV	96
42) 1,2-dichloroethane	11.54	62	314214	20.741	ppbV	99
44) hexane	10.60	57	380138	23.021	ppbV	96
45) diisopropyl ether	10.60	87	140291	23.289	ppbV	96
46) tert-butyl ethyl ether	11.21	59	628265	23.473	ppbV	99
48) 1,1,1-trichloroethane	11.83	97	358583	21.980	ppbV	99
49) 1,1-dichloropropene	12.18	75	291953	22.536	ppbV	98
50) benzene	12.35	78	594960	22.056	ppbV	100
51) thiophene	12.51	84	313264	23.867	ppbV	92
52) carbon tetrachloride	12.52	117	370842	22.749	ppbV	98
53) cyclohexane	12.66	56	363510	22.557	ppbV	99
54) tert-amyl methyl ether	13.01	73	421685	23.288	ppbV	99
55) dibromomethane	13.25	93	223451	22.363	ppbV	98
56) 1,2-dichloropropane	13.27	63	261512	22.224	ppbV	99
57) bromodichloromethane	13.50	83	450162	22.072	ppbV	97
58) 1,4-dioxane	13.53	88	124748	24.499	ppbV	86
59) trichloroethene	13.54	130	220449	22.512	ppbV	99
60) 2,2,4-trimethylpentane	13.56	57	1216493	22.156	ppbV	99
61) methyl methacrylate	13.74	41	323661	25.277	ppbV	98
62) heptane	13.86	43	545816	22.361	ppbV	100
63) cis-1,3-dichloropropene	14.50	75	343927	22.701	ppbV	99
64) 4-methyl-2-pentanone	14.53	43	743999	23.087	ppbV	99
65) trans-1,3-dichloropropene	15.06	75	346856	22.378	ppbV	98
66) 1,1,2-trichloroethane	15.24	97	223875	22.310	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252411.D
 Acq On : 7 Feb 2018 7:01 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD20.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:25:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.51	91	699572	22.054	ppbV	97
70) 2-methylthiophene	15.58	97	446892	23.764	ppbV	99
71) 1,3-dichloropropane	15.53	76	350813	21.772	ppbV	96
72) 2-hexanone	15.73	43	739898	23.336	ppbV	99
73) 3-methylthiophene	15.74	97	462189	23.699	ppbV	99
74) dibromochloromethane	15.91	129	376434	22.395	ppbV	97
75) 1,2-dibromoethane	16.14	107	345232	21.878	ppbV	100
76) butyl acetate	16.28	73	78630	23.609	ppbV	97
77) octane	16.37	85	192940	22.356	ppbV	97
78) tetrachloroethene	16.53	166	277790	22.363	ppbV	99
79) 1,1,1,2-tetrachloroethane	17.07	131	254568	21.994	ppbV	98
80) chlorobenzene	17.09	112	498279	21.766	ppbV	97
81) ethylbenzene	17.37	91	890270	21.859	ppbV	100
82) 2-ethylthiophene	17.41	97	414575	23.239	ppbV	97
83) m+p-xylene	17.52	91	1430541	43.466	ppbV	100
84) bromoform	17.60	173	375472	22.608	ppbV	99
85) styrene	17.79	104	506954	21.904	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.87	83	612486	21.911	ppbV	98
87) o-xylene	17.87	91	754281	22.069	ppbV	99
88) 1,2,3-trichloropropane	17.97	75	442966	21.330	ppbV	99
89) nonane	17.99	43	805880	21.526	ppbV	99
91) isopropylbenzene	18.30	105	856059	21.688	ppbV	99
92) bromobenzene	18.39	77	523560	21.675	ppbV	98
93) 2-chlorotoluene	18.67	126	220142	21.853	ppbV	86
94) n-propylbenzene	18.67	120	240418	21.591	ppbV	96
95) 4-chlorotoluene	18.71	91	703720	21.447	ppbV	98
96) 4-ethyl toluene	18.77	105	938606	21.649	ppbV	100
97) 1,3,5-trimethylbenzene	18.83	105	847997	21.955	ppbV	98
98) tert-butylbenzene	19.14	119	823665	21.952	ppbV	100
99) 1,2,4-trimethylbenzene	19.14	105	847736	22.317	ppbV	97
100) decane	19.17	57	691670	21.475	ppbV	100
101) Benzyl Chloride	19.25	91	691521	23.182	ppbV	99
102) 1,3-dichlorobenzene	19.27	146	518620	21.772	ppbV	99
103) 1,4-dichlorobenzene	19.32	146	536935	22.081	ppbV	97
104) sec-butylbenzene	19.33	105	1150784	21.776	ppbV	99
105) 1,2,3-trimethylbenzene	19.46	105	582908	22.664	ppbV	99
106) p-isopropyltoluene	19.44	119	965283	21.804	ppbV	100
107) 1,2-dichlorobenzene	19.58	146	480784	21.552	ppbV	100
108) n-butylbenzene	19.77	91	993216	21.171	ppbV	100
109) indan	19.62	117	604819	22.572	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252411.D
 Acq On : 7 Feb 2018 7:01 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD20.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:25:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.70	115	321122	22.432	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.93	75	289180	21.581	ppbV	99
112) undecane	20.12	57	767283	21.111	ppbV	99
113) 1,2,4,5-tetramethylben...	20.37	119	916082	22.847	ppbV	99
114) dodecane	21.02	57	813469	20.068	ppbV	99
115) 1,2,4-trichlorobenzene	21.03	180	455643	21.220	ppbV	99
116) naphthalene	21.16	128	982322	20.355	ppbV	99
117) 1,2,3-trichlorobenzene	21.41	180	412940	20.725	ppbV	97
118) benzothiophene	21.22	134	923608	24.870	ppbV	100
119) hexachlorobutadiene	21.47	225	395832	20.916	ppbV	98
120) 2-methylnaphthalene	22.33	142	247145	25.764	ppbV	98
121) 1-methylnaphthalene	22.54	142	298732	23.319	ppbV	100

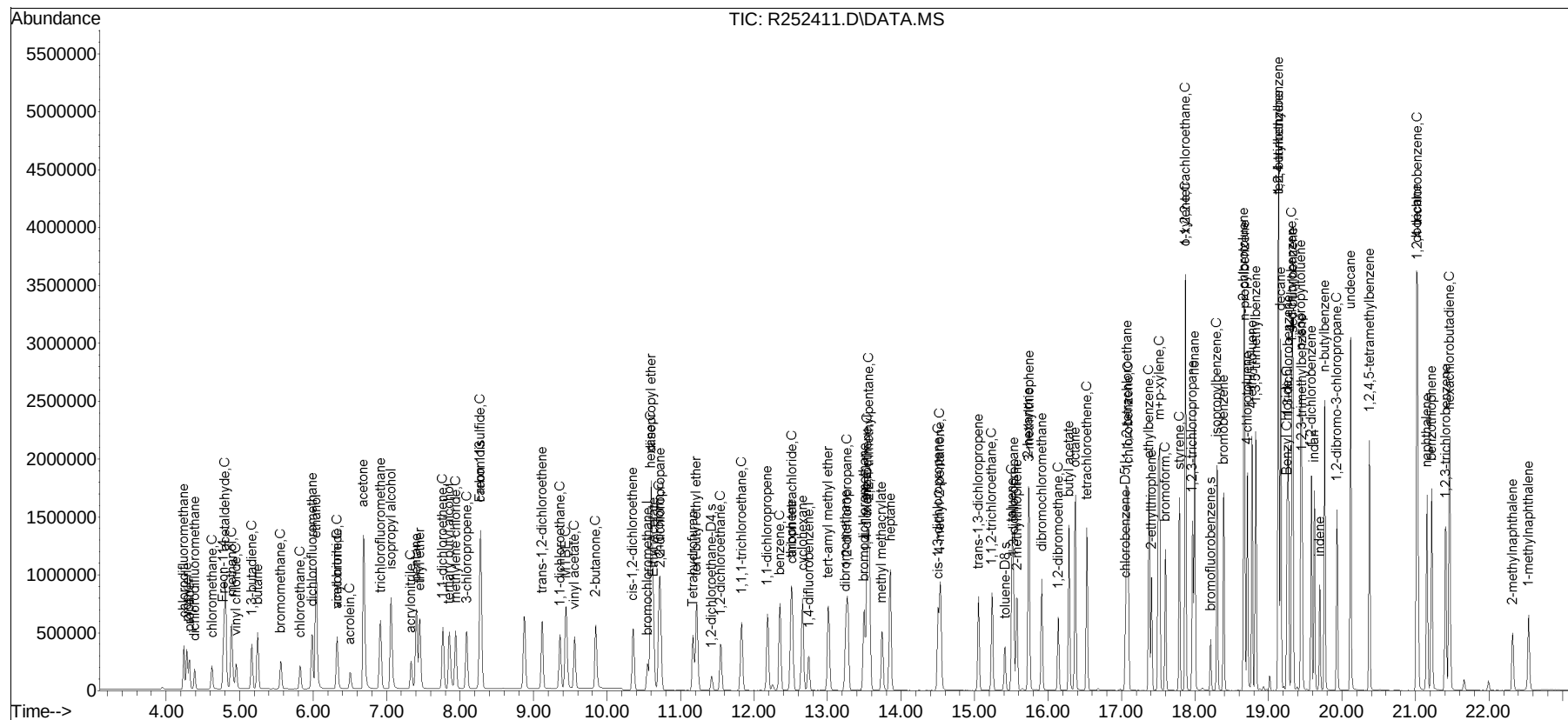
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
Data File : R252411.D
Acq On    : 7 Feb 2018    7:01 pm
Operator  : AIRPIAN02:RY
Sample    : IT015-SIMSTD20.0
Misc      : WG1087627
ALS Vial  : 8    Sample Multiplier: 1
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Quant Time: Feb 08 09:25:52 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:17:36 2018
Response via : Initial Calibration

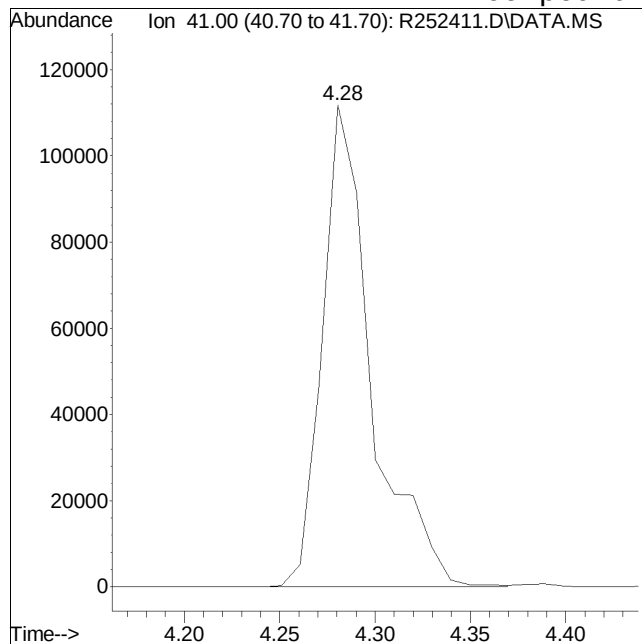
Sub List : Default - All compounds listed0207T_ICAL\R252410.D



Manual Integration/Negative Proof Report

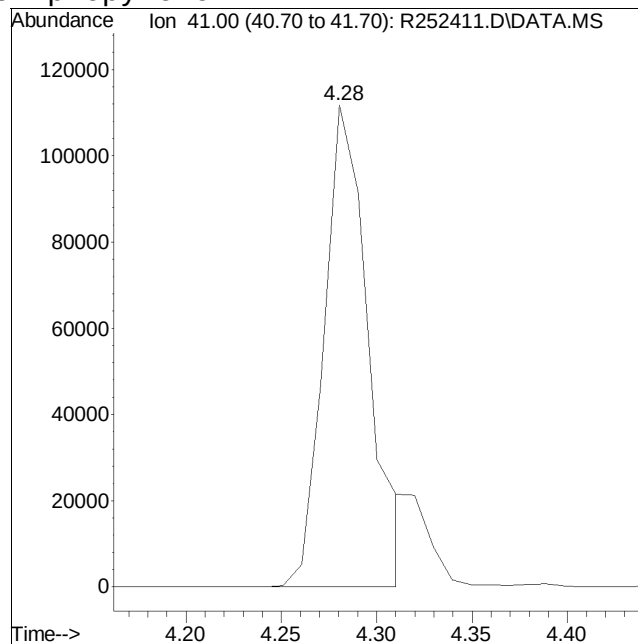
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252411.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 7:01 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2018 9:18 am

Compound #3: propylene



Original Peak Response = 201177

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

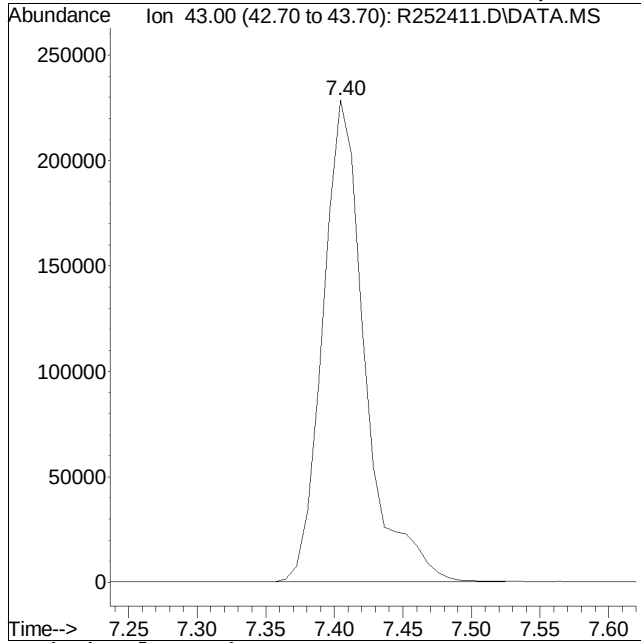


Manual Peak Response = 181281 M6

Manual Integration/Negative Proof Report

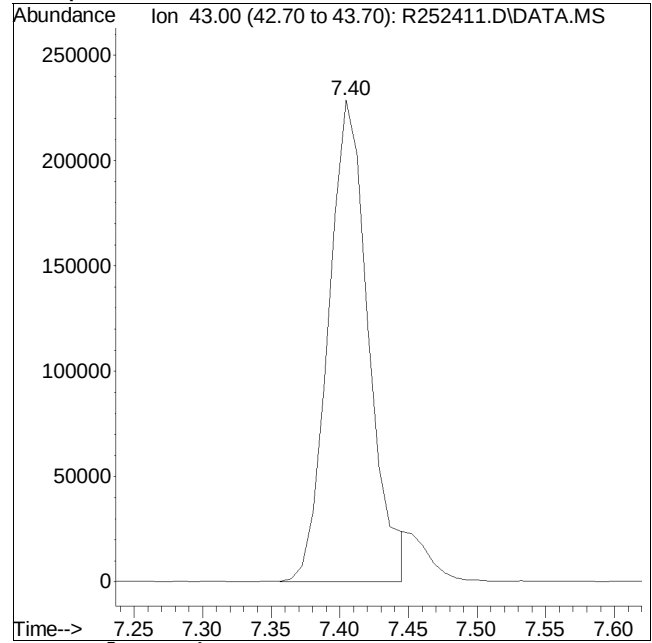
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252411.D Operator : AIRPIANO2:RY
Date Inj'd : 2/7/2018 7:01 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2018 9:18 am

Compound #24: pentane



Original Peak Response = 490286

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

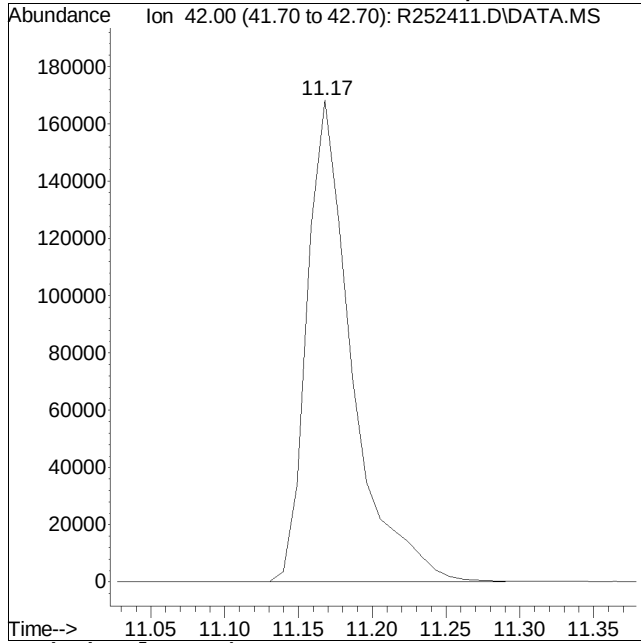


Manual Peak Response = 463881 M6

Manual Integration/Negative Proof Report

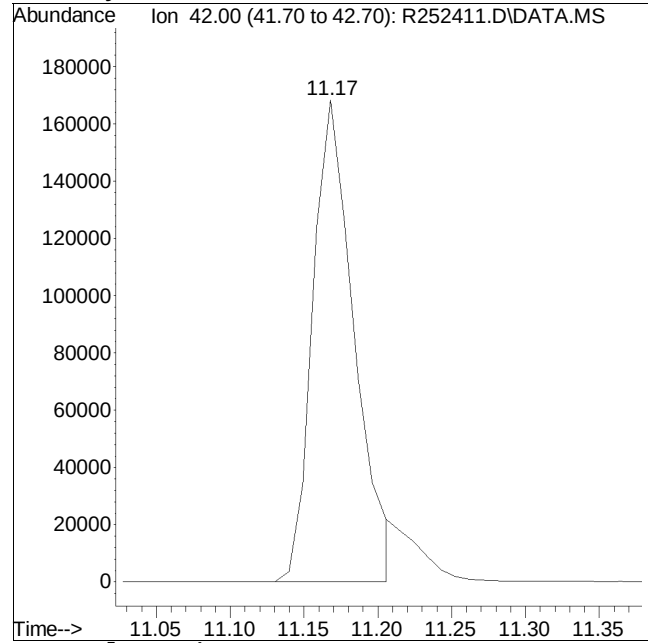
Data Path : O:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252411.D Operator : AIRPIANO2:RY
Date Inj'd : 2/7/2018 7:01 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2018 9:18 am

Compound #40: Tetrahydrofuran



Original Peak Response = 356907

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 329107 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252412.D
 Acq On : 7 Feb 2018 7:35 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD50.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:27:26 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.56	49	142649	10.000	ppbV	0.00
Standard Area = 143433			Recovery =	99.45%		
43) 1,4-difluorobenzene	12.75	114	209190	10.000	ppbV	0.01
Standard Area = 211997			Recovery =	98.68%		
67) chlorobenzene-D5	17.06	54	68433	10.000	ppbV	0.00
Standard Area = 69513			Recovery =	98.45%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.43	65	81962	9.654	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.54%		
69) toluene-D8	15.42	98	199417	10.060	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.60%		
90) bromofluorobenzene	18.21	95	98184	10.143	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.43%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.24	51	933960	61.761	ppbV	100
3) propylene	4.28	41	542995M6	62.944	ppbV	
4) propane	4.32	29	472542	59.473	ppbV	97
5) dichlorodifluoromethane	4.39	85	352051	65.464	ppbV	97
6) chloromethane	4.63	50	553832	56.367	ppbV	96
7) Freon-114	4.78	85	582192	41.712	ppbV	99
8) methanol	4.89	31	1167016	243.232	ppbV	93
9) vinyl chloride	4.95	62	527554	53.009	ppbV	100
10) 1,3-butadiene	5.17	54	391177	50.931	ppbV	97
11) butane	5.25	43	895680	49.624	ppbV	100
12) acetaldehyde	4.80	29	1661339	275.161	ppbV	99
13) bromomethane	5.56	94	377939	48.548	ppbV	95
14) chloroethane	5.83	64	231032	45.651	ppbV	99
15) ethanol	6.06	31	2270412	222.767	ppbV	100
16) dichlorofluoromethane	5.99	67	969256	45.376	ppbV	98
17) vinyl bromide	6.33	106	331551	45.694	ppbV	99
18) acrolein	6.51	56	197890	44.009	ppbV	94
19) acetone	6.69	43	3639938	227.897	ppbV	100
20) acetonitrile	6.33	41	516334	42.435	ppbV	99
21) trichlorofluoromethane	6.92	101	1021460	46.557	ppbV	99
22) isopropyl alcohol	7.08	45	1980348	119.212	ppbV	98
23) acrylonitrile	7.34	53	371572	44.043	ppbV	98
24) pentane	7.40	43	957879M6	43.712	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252412.D
 Acq On : 7 Feb 2018 7:35 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD50.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:27:26 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.45	31	834226	43.160	ppbV	98
26) 1,1-dichloroethene	7.76	61	803804	43.943	ppbV	98
27) tertiary butyl alcohol	7.86	59	818600	50.028	ppbV #	87
28) methylene chloride	7.94	49	674080	42.237	ppbV	96
29) 3-chloropropene	8.09	41	775832	43.266	ppbV	99
30) carbon disulfide	8.28	76	1329117	46.834	ppbV	100
31) Freon 113	8.28	101	807304	47.352	ppbV	98
32) trans-1,2-dichloroethene	9.12	61	765534	45.842	ppbV	99
33) 1,1-dichloroethane	9.36	63	963527	45.479	ppbV	99
34) MTBE	9.44	73	1170526	50.627	ppbV	99
35) vinyl acetate	9.56	43	1467267	54.972	ppbV	99
36) 2-butanone	9.85	43	1433340	47.021	ppbV	99
37) cis-1,2-dichloroethene	10.36	61	801395	48.788	ppbV	99
38) Ethyl Acetate	10.63	61	182615	57.622	ppbV	96
39) chloroform	10.72	83	972108	51.578	ppbV	98
40) Tetrahydrofuran	11.17	42	777408M6	54.548	ppbV	
41) 2,2-dichloropropane	10.73	77	803151	56.049	ppbV	96
42) 1,2-dichloroethane	11.55	62	731547	49.612	ppbV	99
44) hexane	10.60	57	870076	53.518	ppbV	85
45) diisopropyl ether	10.61	87	331970	55.974	ppbV	92
46) tert-butyl ethyl ether	11.22	59	1523412	57.809	ppbV	99
48) 1,1,1-trichloroethane	11.83	97	847134	52.741	ppbV	99
49) 1,1-dichloropropene	12.19	75	689653	54.069	ppbV	99
50) benzene	12.35	78	1361901	51.279	ppbV	99
51) thiophene	12.51	84	747433	57.838	ppbV	87
52) carbon tetrachloride	12.52	117	876200	54.593	ppbV	96
53) cyclohexane	12.66	56	834923	52.622	ppbV	99
54) tert-amyl methyl ether	13.02	73	1063399	59.648	ppbV	97
55) dibromomethane	13.26	93	530871	53.963	ppbV	97
56) 1,2-dichloropropane	13.28	63	621290	53.626	ppbV	98
57) bromodichloromethane	13.50	83	1064814	53.029	ppbV	98
58) 1,4-dioxane	13.54	88	308984	61.631	ppbV	89
59) trichloroethene	13.54	130	531608	55.139	ppbV	100
60) 2,2,4-trimethylpentane	13.57	57	2862427	52.951	ppbV	97
61) methyl methacrylate	13.75	41	782714	62.087	ppbV	98
62) heptane	13.86	43	1262085	52.516	ppbV	99
63) cis-1,3-dichloropropene	14.50	75	809792	54.290	ppbV	98
64) 4-methyl-2-pentanone	14.54	43	1766629	55.681	ppbV	98
65) trans-1,3-dichloropropene	15.06	75	836668	54.825	ppbV	99
66) 1,1,2-trichloroethane	15.25	97	517182	52.348	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252412.D
 Acq On : 7 Feb 2018 7:35 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD50.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:27:26 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.52	91	1623511	52.393	ppbV	98
70) 2-methylthiophene	15.58	97	1045422	56.908	ppbV	99
71) 1,3-dichloropropane	15.53	76	808835	51.387	ppbV	98
72) 2-hexanone	15.74	43	1770750	57.172	ppbV	97
73) 3-methylthiophene	15.74	97	1072404	56.291	ppbV	98
74) dibromochloromethane	15.92	129	910555	55.454	ppbV	98
75) 1,2-dibromoethane	16.14	107	811266	52.628	ppbV	99
76) butyl acetate	16.28	73	193378	59.438	ppbV	96
77) octane	16.37	85	446668	52.981	ppbV	98
78) tetrachloroethene	16.53	166	683123	56.296	ppbV	99
79) 1,1,1,2-tetrachloroethane	17.08	131	618935	54.742	ppbV	98
80) chlorobenzene	17.09	112	1193059	53.350	ppbV	98
81) ethylbenzene	17.37	91	2095219	52.662	ppbV	99
82) 2-ethylthiophene	17.41	97	977580	56.097	ppbV	98
83) m+p-xylene	17.52	91	3472553	108.010	ppbV	99
84) bromoform	17.60	173	960298	59.191	ppbV	98
85) styrene	17.79	104	1194826	52.847	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.87	83	1534497	56.196	ppbV	99
87) o-xylene	17.87	91	1891480	56.652	ppbV	96
88) 1,2,3-trichloropropane	17.97	75	1049075	51.713	ppbV	100
89) nonane	18.00	43	1912746	52.303	ppbV	97
91) isopropylbenzene	18.30	105	2072294	53.745	ppbV	98
92) bromobenzene	18.39	77	1286219	54.509	ppbV	99
93) 2-chlorotoluene	18.67	126	567112	57.629	ppbV #	42
94) n-propylbenzene	18.68	120	631569	58.063	ppbV	83
95) 4-chlorotoluene	18.72	91	1699372	53.019	ppbV	97
96) 4-ethyl toluene	18.78	105	2333428	55.096	ppbV	98
97) 1,3,5-trimethylbenzene	18.83	105	2206326	58.476	ppbV	99
98) tert-butylbenzene	19.14	119	2212381	60.359	ppbV	98
99) 1,2,4-trimethylbenzene	19.14	105	2290968	61.739	ppbV	94
100) decane	19.17	57	1745020	55.463	ppbV	94
101) Benzyl Chloride	19.26	91	1889351	64.836	ppbV	99
102) 1,3-dichlorobenzene	19.28	146	1371255	58.930	ppbV	98
103) 1,4-dichlorobenzene	19.32	146	1492116	62.816	ppbV	96
104) sec-butylbenzene	19.33	105	3115598	60.352	ppbV	97
105) 1,2,3-trimethylbenzene	19.46	105	1568273	62.419	ppbV	97
106) p-isopropyltoluene	19.45	119	2625639	60.713	ppbV	97
107) 1,2-dichlorobenzene	19.59	146	1288109	59.109	ppbV	99
108) n-butylbenzene	19.77	91	2690494	58.709	ppbV	98
109) indan	19.63	117	1592182	60.829	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252412.D
 Acq On : 7 Feb 2018 7:35 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD50.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:27:26 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.70	115	851134	60.864	ppbV	100
111)	1,2-dibromo-3-chloropr...	19.94	75	836847	63.931	ppbV	95
112)	undecane	20.12	57	2150062	60.559	ppbV	95
113)	1,2,4,5-tetramethylben...	20.38	119	2629715	67.138	ppbV	99
114)	dodecane	21.02	57	2421144	61.144	ppbV	93
115)	1,2,4-trichlorobenzene	21.03	180	1485824	70.837	ppbV	98
116)	naphthalene	21.16	128	2980973	63.233	ppbV	99
117)	1,2,3-trichlorobenzene	21.41	180	1309900	67.300	ppbV	97
118)	benzothiophene	21.22	134	2845671	78.439	ppbV	99
119)	hexachlorobutadiene	21.47	225	1287201	69.629	ppbV	97
120)	2-methylnaphthalene	22.33	142	832635	88.854	ppbV	98
121)	1-methylnaphthalene	22.54	142	1015114	81.115	ppbV	98

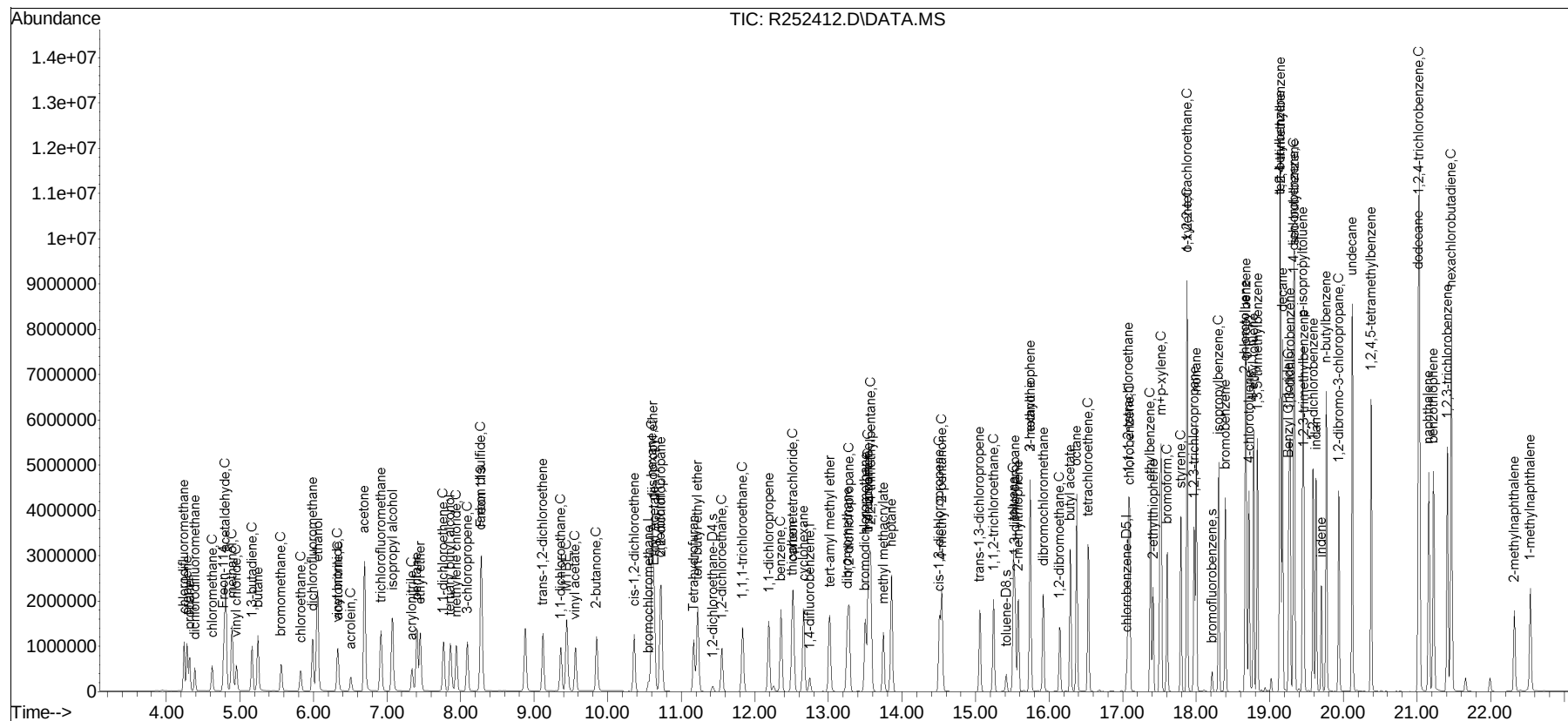
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
Data File : R252412.D
Acq On    : 7 Feb 2018    7:35 pm
Operator  : AIRPIAN02:RY
Sample    : IT015-SIMSTD50.0
Misc      : WG1087627
ALS Vial  : 8    Sample Multiplier: 1
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Quant Time: Feb 08 09:27:26 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:17:36 2018
Response via : Initial Calibration

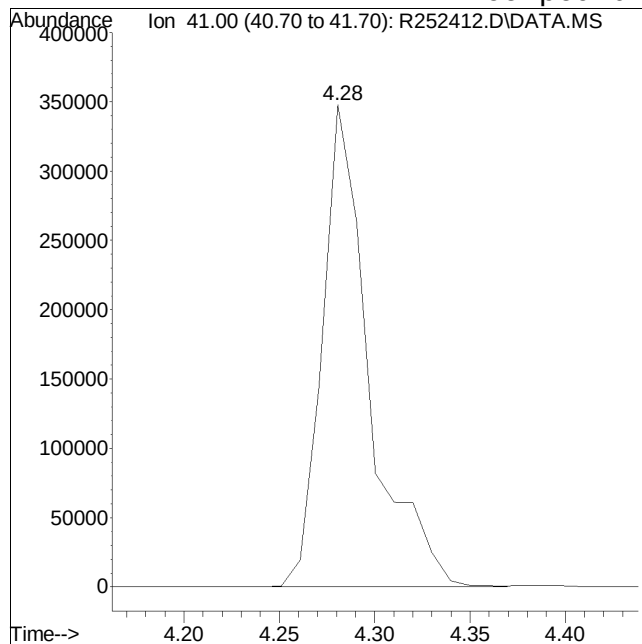
Sub List : Default - All compounds listed0207T_ICAL\R252410.D



Manual Integration/Negative Proof Report

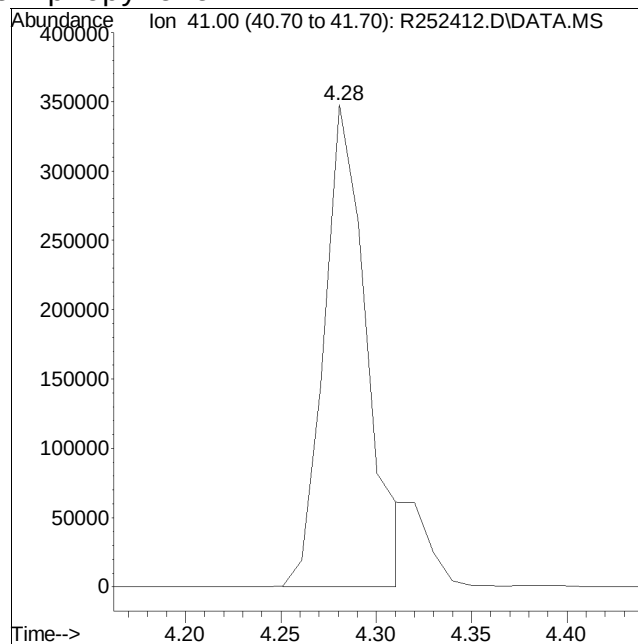
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252412.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 7:35 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2018 9:18 am

Compound #3: propylene



Original Peak Response = 598451

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

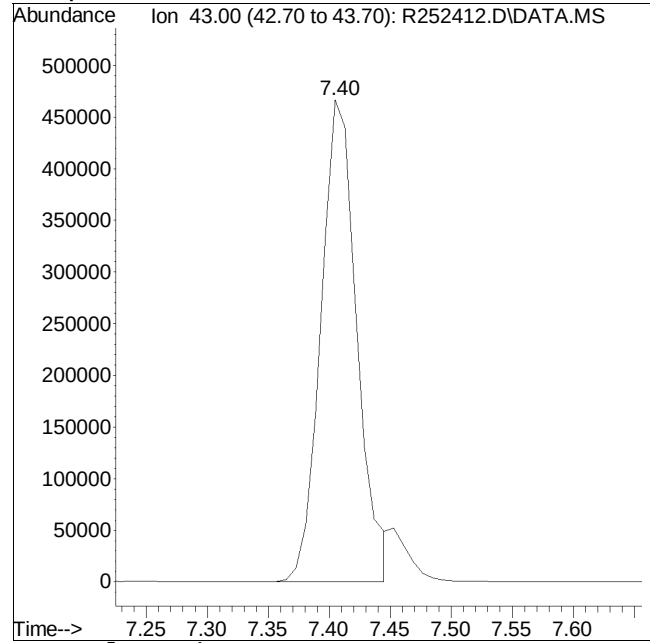
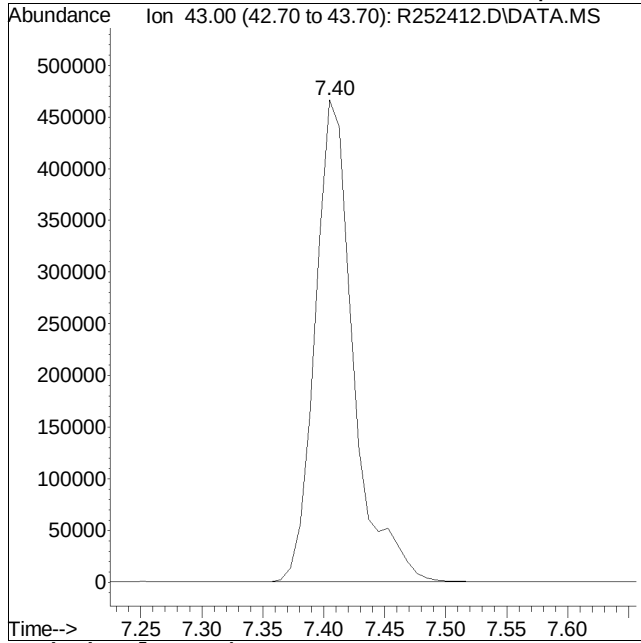


Manual Peak Response = 542995 M6

Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252412.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 7:35 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2018 9:18 am

Compound #24: pentane

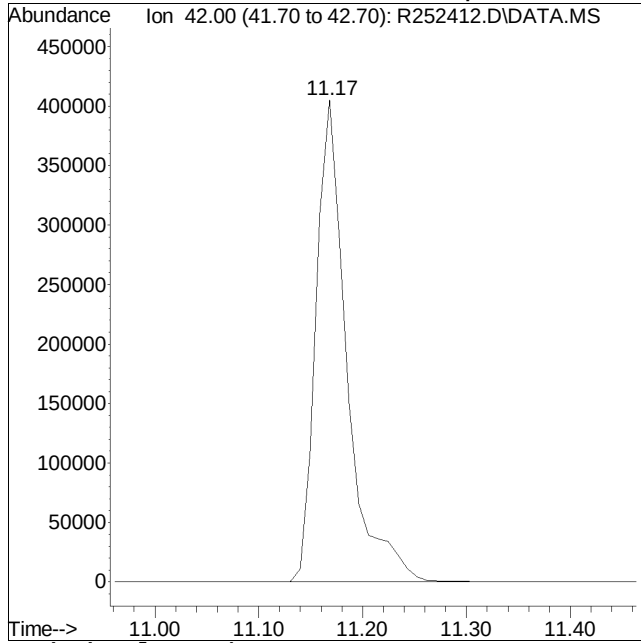


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

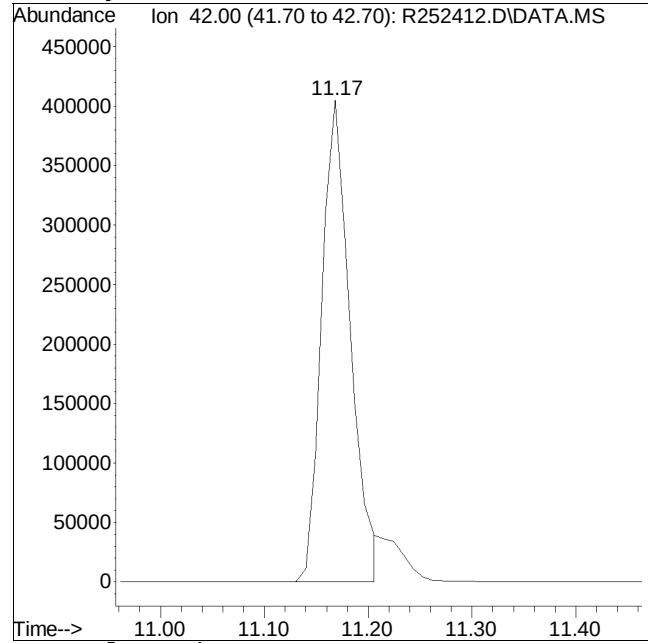
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252412.D Operator : AIRPIANO2:RY
Date Inj'd : 2/7/2018 7:35 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2018 9:18 am

Compound #40: Tetrahydrofuran



Original Peak Response = 841647

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 777408 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252413.D
 Acq On : 7 Feb 2018 8:11 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD100.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:28:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.56	49	164401	10.000	ppbV	0.00
Standard Area = 143433			Recovery =	114.62%		
43) 1,4-difluorobenzene	12.75	114	244074	10.000	ppbV	0.01
Standard Area = 211997			Recovery =	115.13%		
67) chlorobenzene-D5	17.06	54	91184	10.000	ppbV	# 0.00
Standard Area = 69513			Recovery =	131.18%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.43	65	93317	9.420	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.20%		
69) toluene-D8	15.42	98	251271	9.514	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.14%		
90) bromofluorobenzene	18.22	95	149081	11.559	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	115.59%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.24	51	2292768	131.557	ppbV	100
3) propylene	4.28	41	1347608M6	135.545	ppbV	
4) propane	4.32	29	1125664	122.929	ppbV	95
5) dichlorodifluoromethane	4.39	85	798069	128.767	ppbV	96
6) chloromethane	4.63	50	1423891	125.745	ppbV	97
7) Freon-114	4.78	85	1264857	78.631	ppbV	99
8) methanol	4.90	31	2845297	514.560	ppbV	92
9) vinyl chloride	4.95	62	1387768	120.995	ppbV	98
10) 1,3-butadiene	5.17	54	1033188	116.721	ppbV	96
11) butane	5.25	43	2494798	119.932	ppbV	99
12) acetaldehyde	4.81	29	3969351	570.443	ppbV	94
13) bromomethane	5.57	94	1022913	114.013	ppbV	98
14) chloroethane	5.83	64	645480	110.668	ppbV	99
15) ethanol	6.09	31	5567591	473.999	ppbV	94
16) dichlorofluoromethane	6.00	67	2619678	106.414	ppbV	98
17) vinyl bromide	6.33	106	925366	110.660	ppbV	99
18) acrolein	6.52	56	554411	106.983	ppbV	92
19) acetone	6.71	43	9038788	491.042	ppbV	95
20) acetonitrile	6.35	41	1415881	100.968	ppbV	99
21) trichlorofluoromethane	6.92	101	2656925	105.076	ppbV	97
22) isopropyl alcohol	7.10	45	5036362	263.063	ppbV	99
23) acrylonitrile	7.36	53	989879	101.808	ppbV	99
24) pentane	7.41	43	2393621M6	94.778	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252413.D
 Acq On : 7 Feb 2018 8:11 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD100.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:28:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.46	31	2008919	90.184	ppbV	93
26) 1,1-dichloroethene	7.77	61	2058595	97.651	ppbV	99
27) tertiary butyl alcohol	7.88	59	2134942	113.211	ppbV #	83
28) methylene chloride	7.95	49	1679373	91.304	ppbV	93
29) 3-chloropropene	8.10	41	1923521	93.077	ppbV	99
30) carbon disulfide	8.28	76	3329638	101.804	ppbV	95
31) Freon 113	8.28	101	2062165	104.952	ppbV	96
32) trans-1,2-dichloroethene	9.13	61	1768324	91.881	ppbV	99
33) 1,1-dichloroethane	9.37	63	2073949	84.940	ppbV	98
34) MTBE	9.45	73	2547532	95.605	ppbV	99
35) vinyl acetate	9.57	43	2987714	97.125	ppbV	100
36) 2-butanone	9.86	43	2642256	75.211	ppbV	97
37) cis-1,2-dichloroethene	10.37	61	1536532	81.165	ppbV	99
38) Ethyl Acetate	10.65	61	369971	101.294	ppbV	76
39) chloroform	10.73	83	2059488	94.814	ppbV	98
40) Tetrahydrofuran	11.17	42	1666275M6	101.447	ppbV	
41) 2,2-dichloropropane	10.74	77	1775680	107.523	ppbV	91
42) 1,2-dichloroethane	11.56	62	1612822	94.906	ppbV	99
44) hexane	10.60	57	1750297	92.272	ppbV	78
45) diisopropyl ether	10.62	87	684859	98.971	ppbV	85
46) tert-butyl ethyl ether	11.22	59	3355196	109.124	ppbV	98
48) 1,1,1-trichloroethane	11.84	97	1928667	102.914	ppbV	97
49) 1,1-dichloropropene	12.19	75	1566511	105.262	ppbV	99
50) benzene	12.37	78	3031826	97.841	ppbV	98
51) thiophene	12.52	84	1723890	114.333	ppbV	92
52) carbon tetrachloride	12.53	117	2042408	109.068	ppbV	97
53) cyclohexane	12.67	56	1926190	104.049	ppbV	97
54) tert-amyl methyl ether	13.02	73	2576208	123.852	ppbV	98
55) dibromomethane	13.27	93	1237380	107.804	ppbV	97
56) 1,2-dichloropropane	13.29	63	1456376	107.739	ppbV	99
57) bromodichloromethane	13.51	83	2499981	106.708	ppbV	99
58) 1,4-dioxane	13.54	88	748352	127.935	ppbV	85
59) trichloroethene	13.55	130	1259136	111.933	ppbV	99
60) 2,2,4-trimethylpentane	13.58	57	6438082	102.075	ppbV	98
61) methyl methacrylate	13.75	41	1754543	119.284	ppbV	97
62) heptane	13.87	43	2822163	100.648	ppbV	98
63) cis-1,3-dichloropropene	14.51	75	1942823	111.634	ppbV	100
64) 4-methyl-2-pentanone	14.55	43	3966478	107.148	ppbV	95
65) trans-1,3-dichloropropene	15.06	75	2055517	115.442	ppbV	97
66) 1,1,2-trichloroethane	15.25	97	1274740	110.585	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252413.D
 Acq On : 7 Feb 2018 8:11 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD100.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:28:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.53	91	3909544	94.688	ppbV	98
70) 2-methylthiophene	15.59	97	2540636	103.794	ppbV	100
71) 1,3-dichloropropane	15.54	76	1976204	94.226	ppbV	94
72) 2-hexanone	15.75	43	3919964	94.985	ppbV #	91
73) 3-methylthiophene	15.75	97	2607314	102.712	ppbV	97
74) dibromochloromethane	15.92	129	2336707	106.802	ppbV	96
75) 1,2-dibromoethane	16.15	107	2130102	103.706	ppbV	98
76) butyl acetate	16.29	73	497146	114.680	ppbV	75
77) octane	16.38	85	1182244	105.242	ppbV	76
78) tetrachloroethene	16.54	166	1810529	111.978	ppbV	96
79) 1,1,1,2-tetrachloroethane	17.08	131	1693299	112.397	ppbV	97
80) chlorobenzene	17.10	112	3339575	112.074	ppbV	100
81) ethylbenzene	17.38	91	5536649	104.439	ppbV	96
82) 2-ethylthiophene	17.42	97	2645102	113.914	ppbV	96
83) m+p-xylene	17.53	91	8950809	208.942	ppbV	97
84) bromoform	17.61	173	2564395	118.627	ppbV	97
85) styrene	17.79	104	3312189	109.946	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.88	83	3242857	89.127	ppbV	100
87) o-xylene	17.88	91	4278019	96.162	ppbV	95
88) 1,2,3-trichloropropane	17.97	75	2953911	109.279	ppbV	95
89) nonane	18.00	43	4576629	93.920	ppbV #	85
91) isopropylbenzene	18.31	105	5642510	109.827	ppbV	94
92) bromobenzene	18.40	77	3646099	115.965	ppbV	96
93) 2-chlorotoluene	18.67	126	1544466	117.788	ppbV #	20
94) n-propylbenzene	18.68	120	1692361	116.766	ppbV #	53
95) 4-chlorotoluene	18.72	91	4803654	112.476	ppbV	93
96) 4-ethyl toluene	18.78	105	6292186	111.500	ppbV	95
97) 1,3,5-trimethylbenzene	18.84	105	6133022	121.991	ppbV	95
98) tert-butylbenzene	19.14	119	4541793	92.994	ppbV	95
99) 1,2,4-trimethylbenzene	19.15	105	4584753	92.726	ppbV	92
100) decane	19.18	57	4386576	104.634	ppbV #	82
101) Benzyl Chloride	19.27	91	5229779	134.690	ppbV	92
102) 1,3-dichlorobenzene	19.28	146	3747520	120.868	ppbV	96
103) 1,4-dichlorobenzene	19.33	146	3239710	102.358	ppbV	96
104) sec-butylbenzene	19.34	105	6620936	96.253	ppbV	92
105) 1,2,3-trimethylbenzene	19.47	105	4037339	120.597	ppbV	93
106) p-isopropyltoluene	19.45	119	6102217	105.896	ppbV	94
107) 1,2-dichlorobenzene	19.59	146	3555498	122.448	ppbV	95
108) n-butylbenzene	19.78	91	6730305	110.218	ppbV #	89
109) indan	19.64	117	4386911	125.783	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252413.D
 Acq On : 7 Feb 2018 8:11 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD100.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:28:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.71	115	2405326	129.087	ppbV	99
111)	1,2-dibromo-3-chloropr...	19.94	75	2230255	127.869	ppbV	86
112)	undecane	20.12	57	4691918	99.181	ppbV #	85
113)	1,2,4,5-tetramethylben...	20.38	119	6091197	116.711	ppbV	97
114)	dodecane	21.03	57	4079920	77.327	ppbV	86
115)	1,2,4-trichlorobenzene	21.04	180	2906977	104.011	ppbV	95
116)	naphthalene	21.17	128	7768013	123.663	ppbV	97
117)	1,2,3-trichlorobenzene	21.41	180	3471802	133.868	ppbV	95
118)	benzothiophene	21.23	134	7346640	151.979	ppbV	98
119)	hexachlorobutadiene	21.47	225	2781615	112.924	ppbV	96
120)	2-methylnaphthalene	22.33	142	2340505	187.447	ppbV	99
121)	1-methylnaphthalene	22.55	142	2820024	169.117	ppbV	98

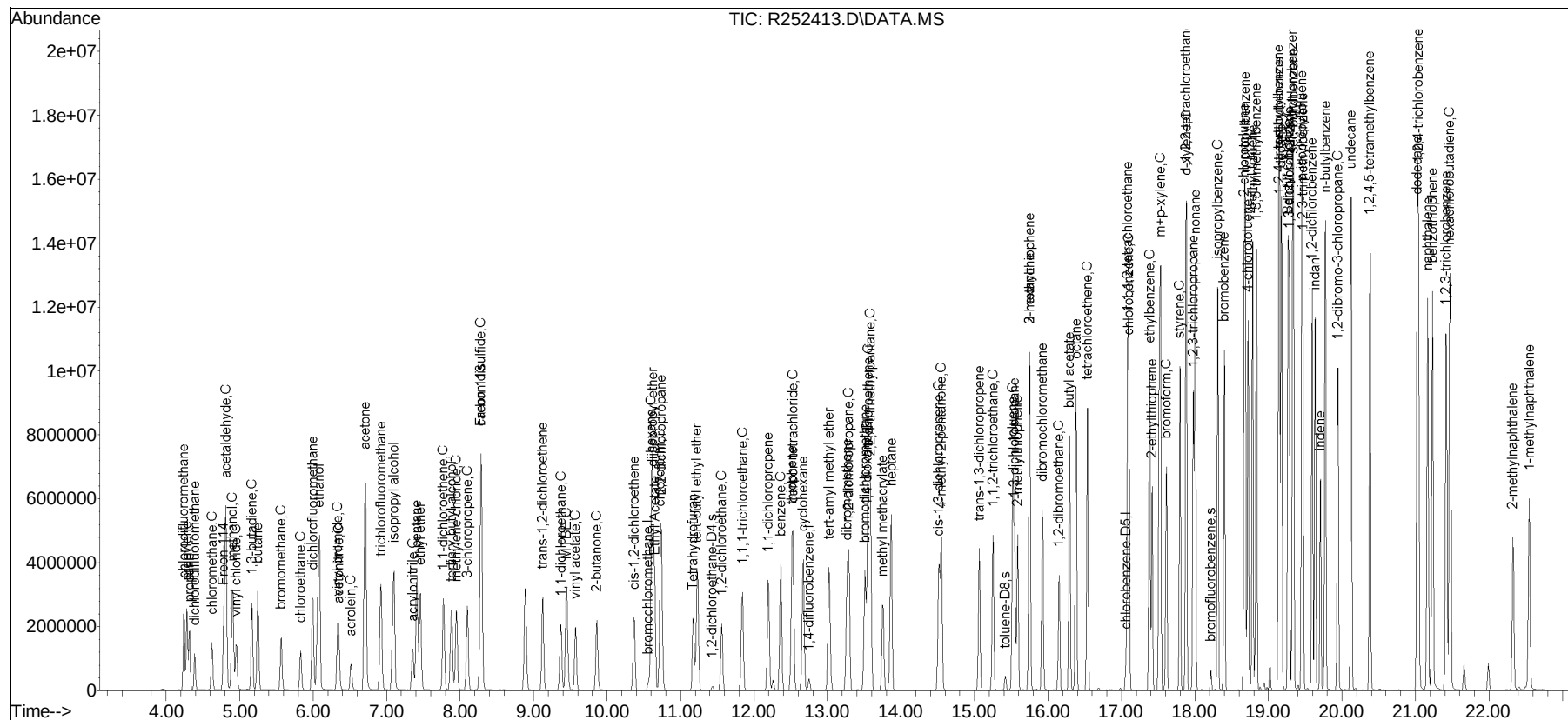
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252413.D
 Acq On : 7 Feb 2018 8:11 pm
 Operator : AIRPIANO2:RY
 Sample : IT015-SIMSTD100.0
 Misc : WG1087627
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:28:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:17:36 2018
 Response via : Initial Calibration

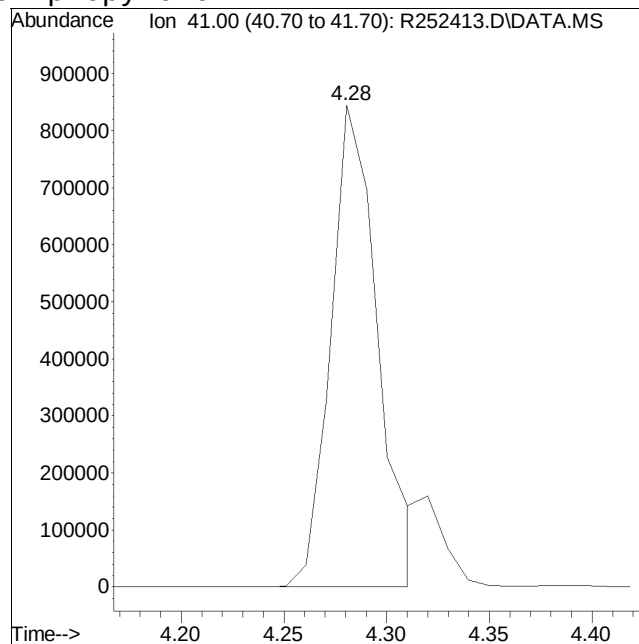
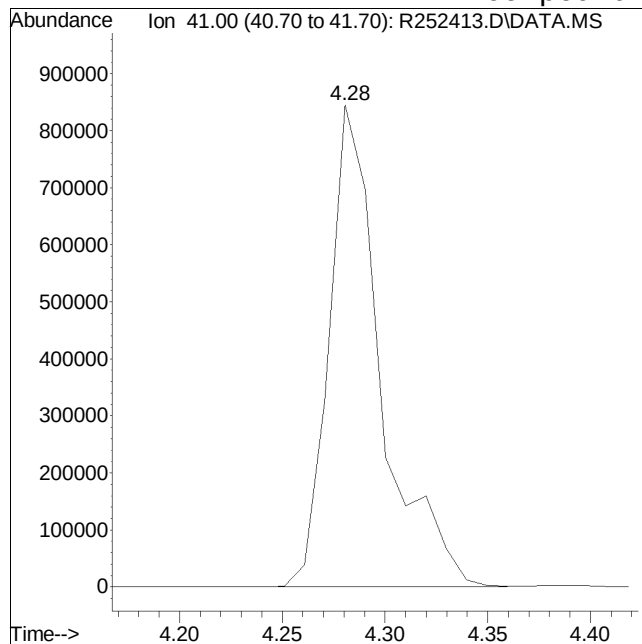
Sub List : Default - All compounds listed 0207T_ICAL\R252410.D



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252413.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 8:11 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD100.0 Quant Date : 2/8/2018 9:18 am

Compound #3: propylene

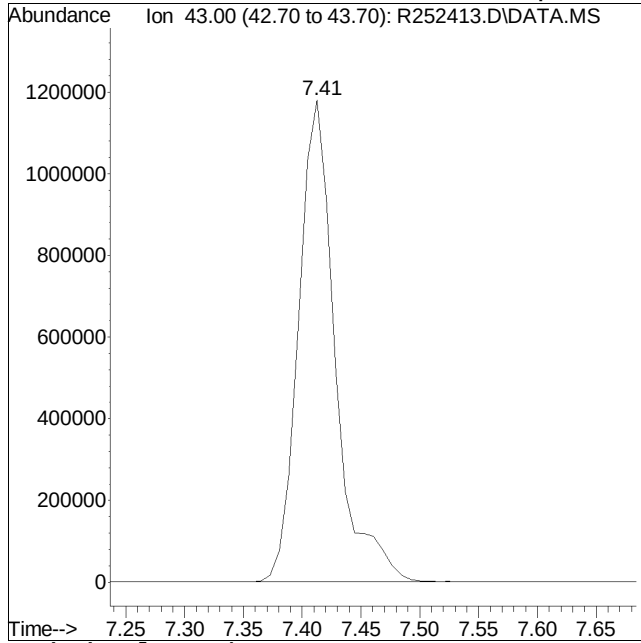


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

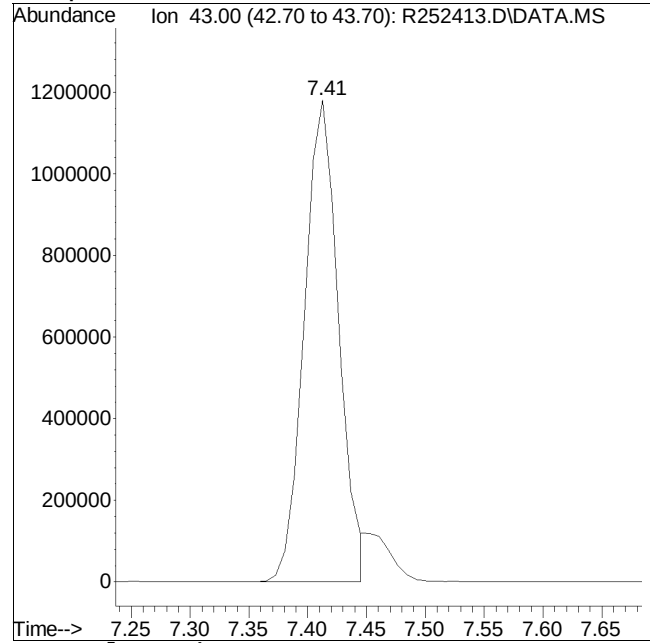
Data Path : O:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252413.D Operator : AIRPIANO2:RY
Date Inj'd : 2/7/2018 8:11 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD100.0 Quant Date : 2/8/2018 9:18 am

Compound #24: pentane



Original Peak Response = 2573850

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

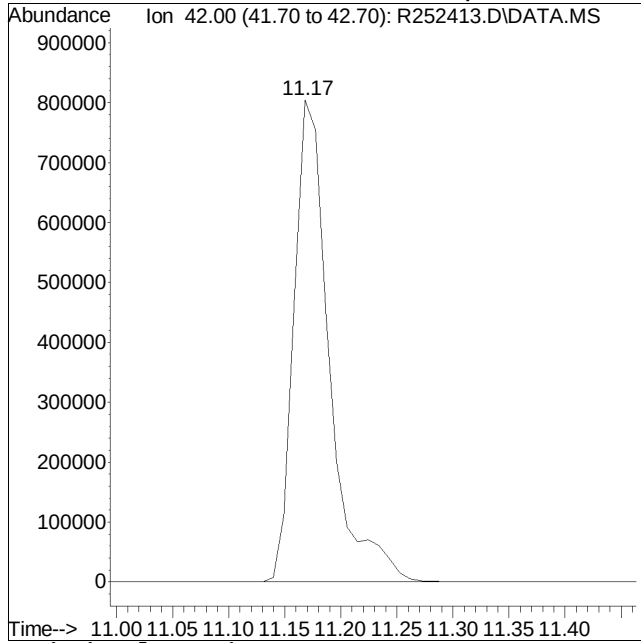


Manual Peak Response = 2393621 M6

Manual Integration/Negative Proof Report

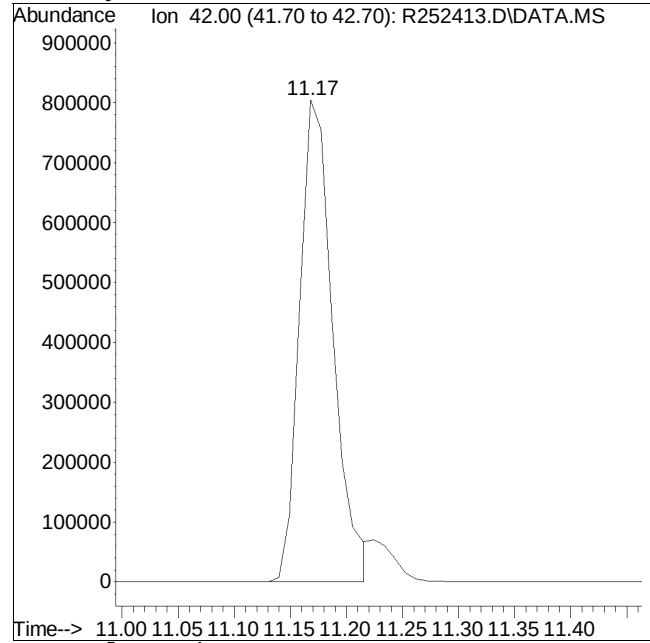
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252413.D Operator : AIRPIANO2:RY
Date Inj'd : 2/7/2018 8:11 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD100.0 Quant Date : 2/8/2018 9:18 am

Compound #40: Tetrahydrofuran



Original Peak Response = 1778019

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1666275 M6

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252416.D
 Acq On : 8 Feb 2018 10:50 am
 Operator : AIRPIAN02:RY
 Sample : CT015-LLSTD10.0
 Misc : WG1087627
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:18:31 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 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	97	0.00
2	chlorodifluoromethane	1.270	1.219	4.0	112	0.00
3	propylene	0.680	0.871	-28.1	140#	0.00
4	propane	0.702	0.631	10.1	110	0.00
5	dichlorodifluoromethane	0.482	0.485	-0.6	125	0.00
6 C	chloromethane	0.824	0.839	-1.8	119	0.00
7	Freon-114	1.187	1.129	4.9	112	0.00
8 C	methanol	0.361	0.338	6.4	98	0.00
9 C	vinyl chloride	0.797	0.783	1.8	109	0.00
10 C	1,3-butadiene	0.597	0.658	-10.2	119	0.00
11	butane	1.457	1.335	8.4	103	0.00
13 C	bromomethane	0.580	0.570	1.7	102	0.00
14 C	chloroethane	0.386	0.373	3.4	103	0.00
15	ethanol	0.738	0.719	2.6	98	0.00
16	dichlorofluoromethane	1.599	1.489	6.9	97	0.00
17 C	vinyl bromide	0.521	0.550	-5.6	105	0.00
18 C	acrolein	0.317	0.312	1.6	97	0.00
19	acetone	1.215	1.439	-18.4	125	0.00
20 C	acetonitrile	0.916	0.808	11.8	92	0.00
21	trichlorofluoromethane	1.624	1.622	0.1	103	0.00
22	isopropyl alcohol	1.368	1.528	-11.7	128	0.00
23 C	acrylonitrile	0.604	0.581	3.8	96	0.00
24	pentane	1.595	1.481	7.1	94	0.00
25	ethyl ether	1.325	1.257	5.1	90	0.00
26 C	1,1-dichloroethene	1.308	1.309	-0.1	99	0.00
27	tertiary butyl alcohol	1.183	1.355	-14.5	115	0.00
28 C	methylene chloride	1.127	1.101	2.3	96	0.00
29 C	3-chloropropene	1.282	1.430	-11.5	111	0.00
30 C	carbon disulfide	2.027	1.967	3.0	96	0.00
31	Freon 113	1.252	1.220	2.6	99	0.00
32	trans-1,2-dichloroethene	1.165	1.222	-4.9	102	0.00
33 C	1,1-dichloroethane	1.533	1.497	2.3	98	0.00
34 C	MTBE	1.642	1.971	-20.0	119	0.00
35 C	vinyl acetate	1.807	2.346	-29.8	122	0.00
36 C	2-butanone	2.163	2.305	-6.6	105	0.00
37	cis-1,2-dichloroethene	1.167	1.086	6.9	92	0.00
38	Ethyl Acetate	0.213	0.282	-32.4#	124	0.00
39 C	chloroform	1.389	1.455	-4.8	107	0.00
40	Tetrahydrofuran	0.992	1.229	-23.9	120	0.00

TALL180207.M Thu Feb 08 11:36:42 2018

1

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252416.D
 Acq On : 8 Feb 2018 10:50 am
 Operator : AIRPIAN02:RY
 Sample : CT015-LLSTD10.0
 Misc : WG1087627
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:18:31 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 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	1.027	1.103	-7.4	107	0.00
42 C	1,2-dichloroethane	1.065	1.100	-3.3	104	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00
44 C	hexane	0.800	0.808	-1.0	110	0.00
45	diisopropyl ether	0.278	0.281	-1.1	105	0.00
46	tert-butyl ethyl ether	1.252	1.325	-5.8	112	0.00
47 s	1,2-dichloroethane-D4	0.401	0.395	1.5	103	0.00
48 C	1,1,1-trichloroethane	0.818	0.826	-1.0	114	0.00
49	1,1-dichloropropene	0.624	0.625	-0.2	109	0.00
50 C	benzene	1.289	1.248	3.2	104	0.00
52 C	carbon tetrachloride	0.837	0.809	3.3	112	0.00
53	cyclohexane	0.770	0.827	-7.4	116	0.00
54	tert-amyl methyl ether	0.872	0.931	-6.8	116	0.00
55	dibromomethane	0.508	0.461	9.3	104	0.00
56 C	1,2-dichloropropane	0.583	0.552	5.3	106	0.00
57	bromodichloromethane	1.018	1.036	-1.8	114	0.00
58 C	1,4-dioxane	0.243	0.283	-16.5	125	0.00
59 C	trichloroethene	0.495	0.467	5.7	108	0.00
60 C	2,2,4-trimethylpentane	2.554	2.735	-7.1	112	0.00
61	methyl methacrylate	0.620	0.849	-36.9#	149#	-0.01
62	heptane	1.161	1.244	-7.1	115	0.01
63 C	cis-1,3-dichloropropene	0.692	0.770	-11.3	115	0.00
64 C	4-methyl-2-pentanone	1.439	1.695	-17.8	119	0.00
65	trans-1,3-dichloropropene	0.716	0.680	5.0	99	0.00
66 C	1,1,2-trichloroethane	0.515	0.485	5.8	109	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	104	0.00
68 C	toluene	4.471	4.624	-3.4	106	0.00
69 s	toluene-D8	2.861	3.090	-8.0	111	0.00
71	1,3-dichloropropane	2.329	2.195	5.8	99	0.00
72	2-hexanone	4.180	4.974	-19.0	114	0.00
74	dibromochloromethane	2.458	2.767	-12.6	120	0.00
75 C	1,2-dibromoethane	2.309	2.335	-1.1	108	0.00
76	butyl acetate	0.422	0.506	-19.9	111	0.00
77	octane	1.169	1.203	-2.9	102	0.00
78 C	tetrachloroethene	1.897	1.832	3.4	108	0.00
79	1,1,1,2-tetrachloroethane	1.728	1.640	5.1	103	0.00
80 C	chlorobenzene	3.411	3.361	1.5	107	0.00

TALL180207.M Thu Feb 08 11:36:42 2018

2

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252416.D
 Acq On : 8 Feb 2018 10:50 am
 Operator : AIRPIAN02:RY
 Sample : CT015-LLSTD10.0
 Misc : WG1087627
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:18:31 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 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	ethylbenzene	5.570	6.102	-9.6	109	0.00
83 C	m+p-xylene	4.527	4.828	-6.6	107	0.00
84 C	bromoform	2.426	2.739	-12.9	120	0.00
85 C	styrene	3.121	3.431	-9.9	108	0.00
86 C	1,1,2,2-tetrachloroethane	3.934	4.031	-2.5	105	0.00
87 C	o-xylene	4.624	5.067	-9.6	108	0.00
88	1,2,3-trichloropropane	3.017	2.900	3.9	102	0.00
89	nonane	5.060	5.099	-0.8	99	0.00
90 s	bromofluorobenzene	1.424	1.561	-9.6	115	0.00
91 C	isopropylbenzene	5.510	5.800	-5.3	107	0.00
92	bromobenzene	3.548	3.494	1.5	105	0.00
93	2-chlorotoluene	1.419	1.430	-0.8	104	0.00
94	n-propylbenzene	1.531	1.567	-2.4	103	0.00
95	4-chlorotoluene	4.706	4.722	-0.3	105	0.00
96	4-ethyl toluene	5.888	6.904	-17.3	116	0.00
97	1,3,5-trimethylbenzene	5.500	5.788	-5.2	109	0.00
98	tert-butylbenzene	5.050	5.319	-5.3	103	0.00
99	1,2,4-trimethylbenzene	5.116	5.736	-12.1	110	0.00
100	decane	4.209	4.550	-8.1	103	0.00
101 C	Benzyl Chloride	4.146	5.131	-23.8	125	0.00
102	1,3-dichlorobenzene	3.512	3.575	-1.8	109	0.00
103 C	1,4-dichlorobenzene	3.521	3.669	-4.2	110	0.00
104	sec-butylbenzene	7.219	7.584	-5.1	105	0.00
106	p-isopropyltoluene	5.996	5.954	0.7	98	0.00
107	1,2-dichlorobenzene	3.275	3.376	-3.1	110	0.00
108	n-butylbenzene	6.353	6.906	-8.7	107	0.00
111 C	1,2-dibromo-3-chloropropane	1.934	1.927	0.4	105	0.00
112	undecane	4.409	5.061	-14.8	102	0.00
114	dodecane	4.418	5.162	-16.8	93	0.00
115 C	1,2,4-trichlorobenzene	2.893	3.071	-6.2	104	0.00
116	naphthalene	6.380	6.694	-4.9	101	0.00
117	1,2,3-trichlorobenzene	2.738	2.714	0.9	99	0.00
119 C	hexachlorobutadiene	2.586	2.628	-1.6	101	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 : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252416.D
 Acq On : 8 Feb 2018 10:50 am
 Operator : AIRPIAN02:RY
 Sample : CT015-LLSTD10.0
 Misc : WG1087627
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:18:31 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default-ICV-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.55	49	139779	10.000	ppbV	0.00
Standard Area = 143433			Recovery =	97.45%		
43) 1,4-difluorobenzene	12.74	114	224837	10.000	ppbV	0.00
Standard Area = 211997			Recovery =	106.06%		
67) chlorobenzene-D5	17.05	54	72359	10.000	ppbV	0.00
Standard Area = 69513			Recovery =	104.09%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.42	65	88871	9.858	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.58%		
69) toluene-D8	15.42	98	223619	10.803	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.03%		
90) bromofluorobenzene	18.21	95	112943	10.958	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	109.58%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.24	51	170379	9.600	ppbV	100
3) propylene	4.29	41	121740M6	12.815	ppbV	
4) propane	4.32	29	88204	8.989	ppbV	97
5) dichlorodifluoromethane	4.39	85	67839	10.064	ppbV	96
6) chloromethane	4.63	50	117276	10.177	ppbV	95
7) Freon-114	4.78	85	157860	9.517	ppbV	98
8) methanol	4.89	31	236051	46.725	ppbV	100
9) vinyl chloride	4.96	62	109418	9.821	ppbV	99
10) 1,3-butadiene	5.17	54	91950	11.015	ppbV	97
11) butane	5.25	43	186588	9.162	ppbV	98
13) bromomethane	5.57	94	79659	9.825	ppbV	98
14) chloroethane	5.83	64	52207	9.664	ppbV	98
15) ethanol	6.04	31	502642	48.704	ppbV	99
16) dichlorofluoromethane	5.98	67	208132	9.311	ppbV	99
17) vinyl bromide	6.33	106	76841	10.558	ppbV	98
18) acrolein	6.51	56	43665	9.869	ppbV	95
19) acetone	6.69	43	1005432	59.197	ppbV	100
20) acetonitrile	6.33	41	112979	8.828	ppbV	99
21) trichlorofluoromethane	6.92	101	226717	9.987	ppbV	100
22) isopropyl alcohol	7.06	45	533913	27.915	ppbV	99
23) acrylonitrile	7.33	53	81277M4	9.632	ppbV	
24) pentane	7.40	43	206981M6	9.281	ppbV	
25) ethyl ether	7.45	31	175721	9.488	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252416.D
 Acq On : 8 Feb 2018 10:50 am
 Operator : AIRPIAN02:RY
 Sample : CT015-LLSTD10.0
 Misc : WG1087627
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:18:31 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	7.76	61	182982	10.007	ppbV	99
27) tertiary butyl alcohol	7.86	59	189363	11.450	ppbV #	82
28) methylene chloride	7.94	49	153930	9.768	ppbV	98
29) 3-chloropropene	8.09	41	199921	11.158	ppbV	99
30) carbon disulfide	8.28	76	274889	9.703	ppbV	98
31) Freon 113	8.28	101	170513	9.746	ppbV	98
32) trans-1,2-dichloroethene	9.12	61	170877	10.496	ppbV	99
33) 1,1-dichloroethane	9.36	63	209218	9.765	ppbV	99
34) MTBE	9.44	73	275499	12.002	ppbV	98
35) vinyl acetate	9.56	43	327938	12.985	ppbV	99
36) 2-butanone	9.85	43	322240	10.658	ppbV	99
37) cis-1,2-dichloroethene	10.35	61	151803	9.304	ppbV	99
38) Ethyl Acetate	10.63	61	39412M4	13.234	ppbV	
39) chloroform	10.71	83	203397	10.474	ppbV	96
40) Tetrahydrofuran	11.17	42	171791M6	12.393	ppbV	
41) 2,2-dichloropropane	10.73	77	154182	10.741	ppbV	95
42) 1,2-dichloroethane	11.54	62	153814	10.328	ppbV	99
44) hexane	10.60	57	181685	10.102	ppbV	94
45) diisopropyl ether	10.60	87	63265	10.107	ppbV	87
46) tert-butyl ethyl ether	11.22	59	297925	10.588	ppbV	99
48) 1,1,1-trichloroethane	11.83	97	185666	10.097	ppbV	94
49) 1,1-dichloropropene	12.18	75	140529	10.010	ppbV	97
50) benzene	12.35	78	280488	9.681	ppbV	99
52) carbon tetrachloride	12.52	117	181924	9.672	ppbV	97
53) cyclohexane	12.66	56	186049	10.749	ppbV	96
54) tert-amyl methyl ether	13.01	73	209345	10.673	ppbV	99
55) dibromomethane	13.25	93	103614	9.079	ppbV	97
56) 1,2-dichloropropane	13.27	63	124198	9.476	ppbV	98
57) bromodichloromethane	13.50	83	232853	10.175	ppbV	99
58) 1,4-dioxane	13.54	88	63677	11.664	ppbV	97
59) trichloroethene	13.54	130	105101	9.444	ppbV	98
60) 2,2,4-trimethylpentane	13.56	57	614945	10.711	ppbV	98
61) methyl methacrylate	13.74	41	190898	13.688	ppbV	98
62) heptane	13.86	43	279767	10.722	ppbV	99
63) cis-1,3-dichloropropene	14.50	75	173162	11.137	ppbV	98
64) 4-methyl-2-pentanone	14.53	43	381160	11.782	ppbV	99
65) trans-1,3-dichloropropene	15.06	75	152956	9.497	ppbV	98
66) 1,1,2-trichloroethane	15.24	97	109157	9.427	ppbV	97
68) toluene	15.51	91	334607	10.344	ppbV	99
71) 1,3-dichloropropane	15.53	76	158835	9.426	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252416.D
 Acq On : 8 Feb 2018 10:50 am
 Operator : AIRPIAN02:RY
 Sample : CT015-LLSTD10.0
 Misc : WG1087627
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:18:31 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	15.73	43	359934	11.901	ppbV	97
74) dibromochloromethane	15.91	129	200208	11.258	ppbV	99
75) 1,2-dibromoethane	16.14	107	168992	10.116	ppbV	98
76) butyl acetate	16.28	73	36641	12.002	ppbV	91
77) octane	16.37	85	87032	10.286	ppbV	89
78) tetrachloroethene	16.53	166	132592	9.660	ppbV	98
79) 1,1,1,2-tetrachloroethane	17.07	131	118687	9.490	ppbV	98
80) chlorobenzene	17.09	112	243168	9.853	ppbV	98
81) ethylbenzene	17.37	91	441522	10.954	ppbV	99
83) m+p-xylene	17.51	91	698692	21.330	ppbV	99
84) bromoform	17.60	173	198199	11.293	ppbV	100
85) styrene	17.79	104	248257	10.993	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.87	83	291658	10.246	ppbV	98
87) o-xylene	17.87	91	366630	10.959	ppbV	100
88) 1,2,3-trichloropropane	17.97	75	209841	9.612	ppbV	99
89) nonane	17.99	43	368993	10.079	ppbV	99
91) isopropylbenzene	18.30	105	419704	10.527	ppbV	99
92) bromobenzene	18.39	77	252822	9.849	ppbV	97
93) 2-chlorotoluene	18.66	126	103490	10.078	ppbV #	47
94) n-propylbenzene	18.67	120	113421	10.235	ppbV	95
95) 4-chlorotoluene	18.71	91	341652	10.034	ppbV	100
96) 4-ethyl toluene	18.77	105	499552	11.725	ppbV	100
97) 1,3,5-trimethylbenzene	18.83	105	418794	10.524	ppbV	99
98) tert-butylbenzene	19.13	119	384843	10.532	ppbV	99
99) 1,2,4-trimethylbenzene	19.13	105	415032	11.211	ppbV	97
100) decane	19.17	57	329202	10.809	ppbV	98
101) Benzyl Chloride	19.25	91	371308	12.378	ppbV	100
102) 1,3-dichlorobenzene	19.27	146	258655	10.178	ppbV	98
103) 1,4-dichlorobenzene	19.32	146	265464	10.419	ppbV	97
104) sec-butylbenzene	19.33	105	548769	10.506	ppbV	100
106) p-isopropyltoluene	19.44	119	430853	9.930	ppbV	99
107) 1,2-dichlorobenzene	19.58	146	244314	10.311	ppbV	99
108) n-butylbenzene	19.77	91	499711	10.871	ppbV	100
111) 1,2-dibromo-3-chloropr...	19.93	75	139404	9.961	ppbV	98
112) undecane	20.12	57	366196	11.477	ppbV	100
114) dodecane	21.02	57	373534	11.686	ppbV	99
115) 1,2,4-trichlorobenzene	21.03	180	222197	10.614	ppbV	98
116) naphthalene	21.16	128	484370	10.493	ppbV	100
117) 1,2,3-trichlorobenzene	21.41	180	196411	9.915	ppbV	99
119) hexachlorobutadiene	21.47	225	190138	10.160	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252416.D
 Acq On : 8 Feb 2018 10:50 am
 Operator : AIRPIAN02:RY
 Sample : CT015-LLSTD10.0
 Misc : WG1087627
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:18:31 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\R252410.D
 Sub List : Default-ICV-AP2 - All compounds listed

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

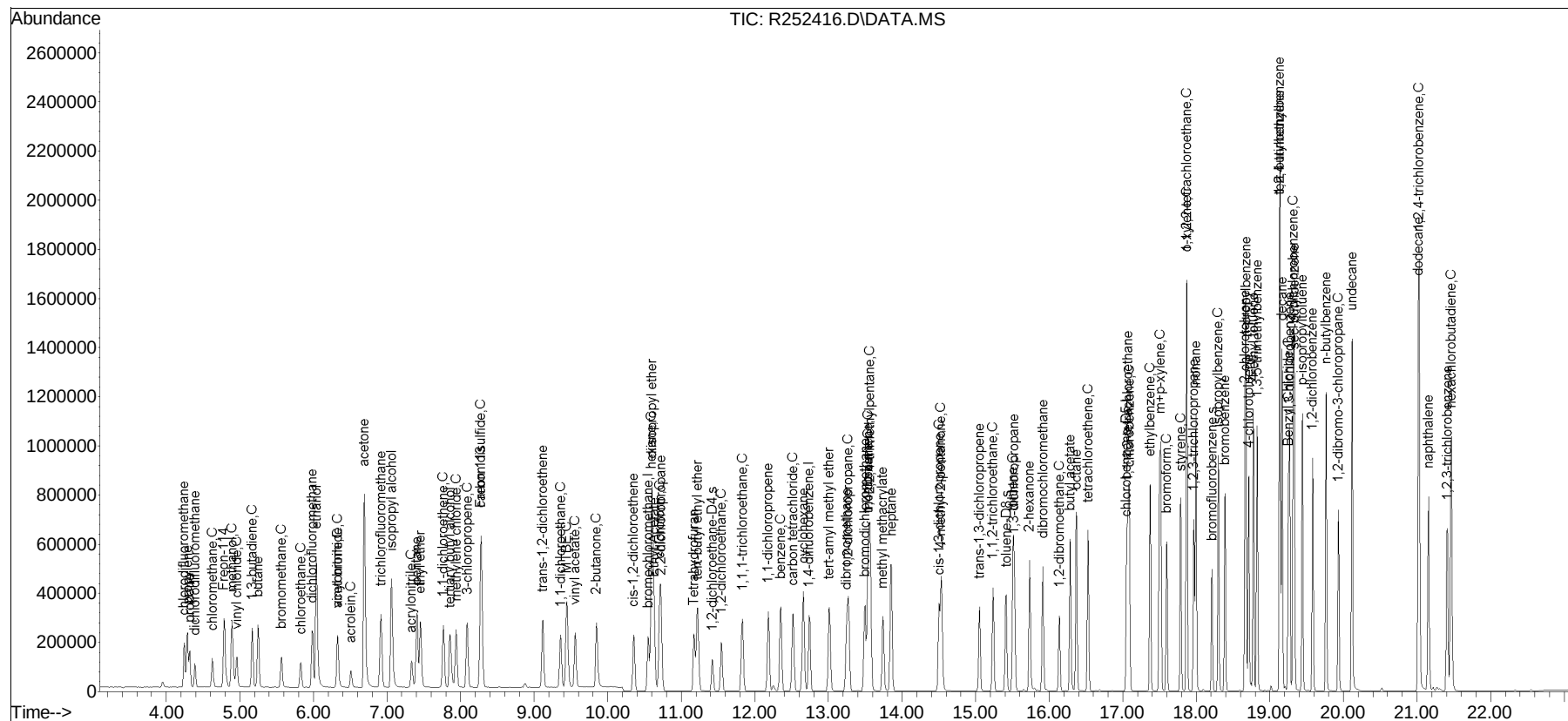
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\
 Data File : R252416.D
 Acq On : 8 Feb 2018 10:50 am
 Operator : AIRPIAN02:RY
 Sample : CT015-LLSTD10.0
 Misc : WG1087627
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:18:31 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207T_ICAL\TALL180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

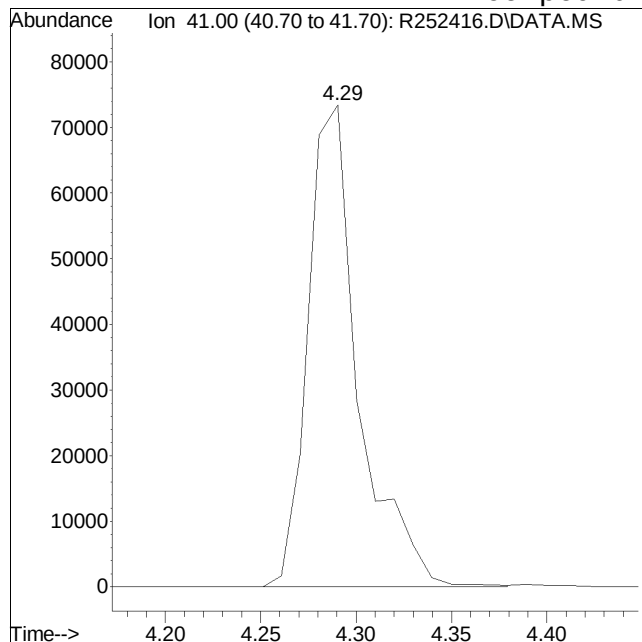
Sub List : Default-ICV-AP2 - All compounds listedAL\R252410.D



Manual Integration/Negative Proof Report

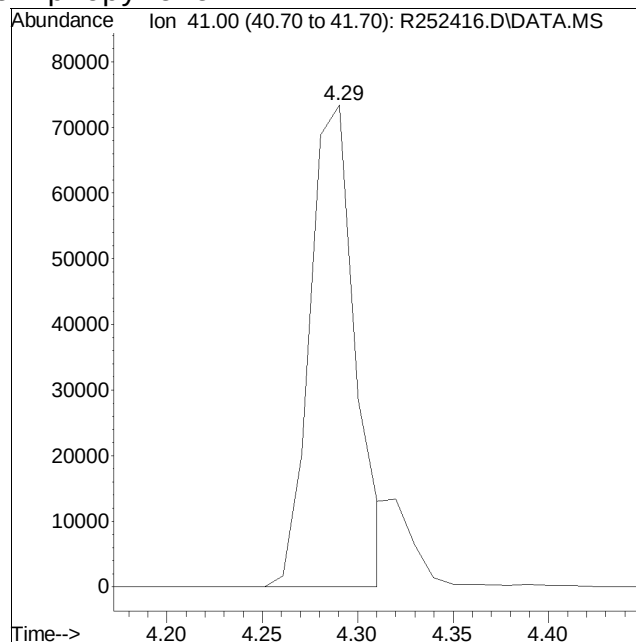
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252416.D Operator : AIRPIAN02:RY
Date Inj'd : 2/8/2018 10:50 am Instrument : Airpiano 2
Sample : CT015-LLSTD10.0 Quant Date : 2/8/2018 11:16 am

Compound #3: propylene



Original Peak Response = 135185

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

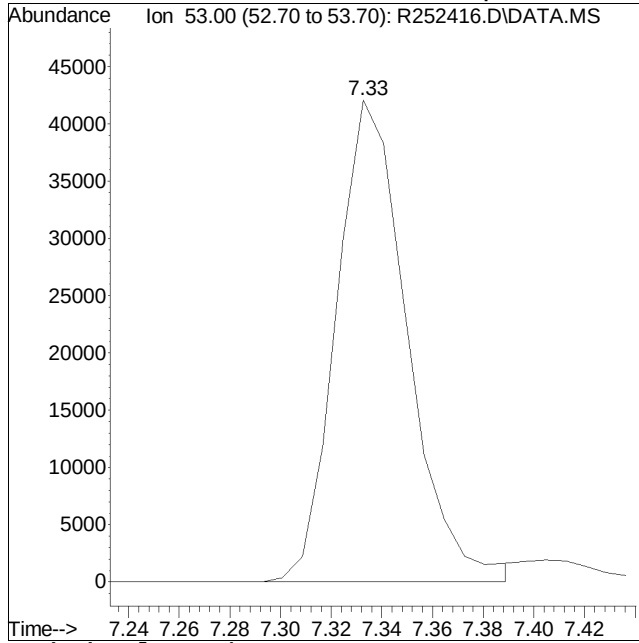


Manual Peak Response = 121740 M6

Manual Integration/Negative Proof Report

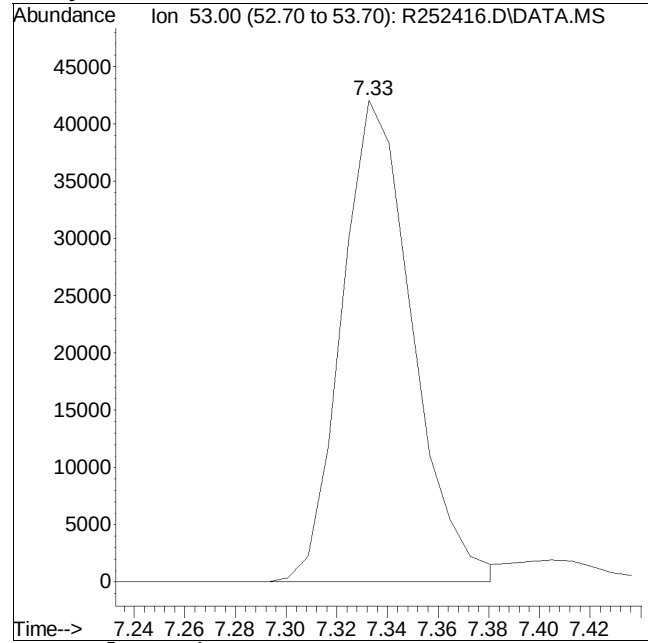
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252416.D Operator : AIRPIANO2:RY
Date Inj'd : 2/8/2018 10:50 am Instrument : Airpiano 2
Sample : CT015-LLSTD10.0 Quant Date : 2/8/2018 11:16 am

Compound #23: acrylonitrile



Original Peak Response = 82076

M4 = Poor automated baseline construction.

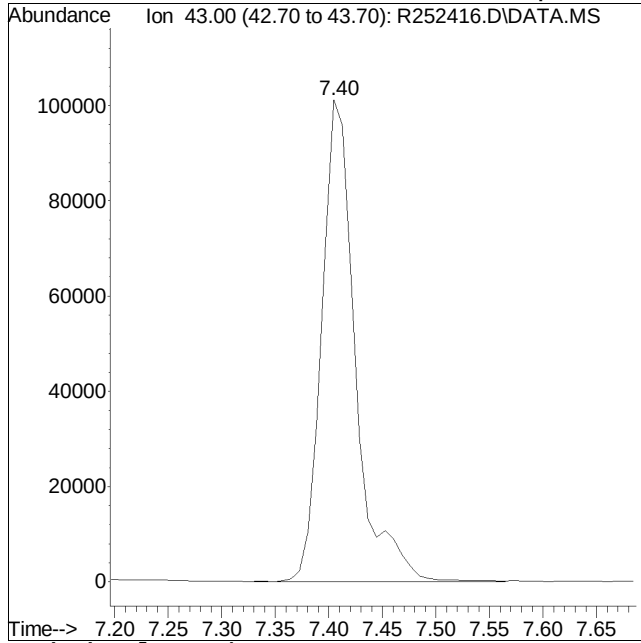


Manual Peak Response = 81277 M4

Manual Integration/Negative Proof Report

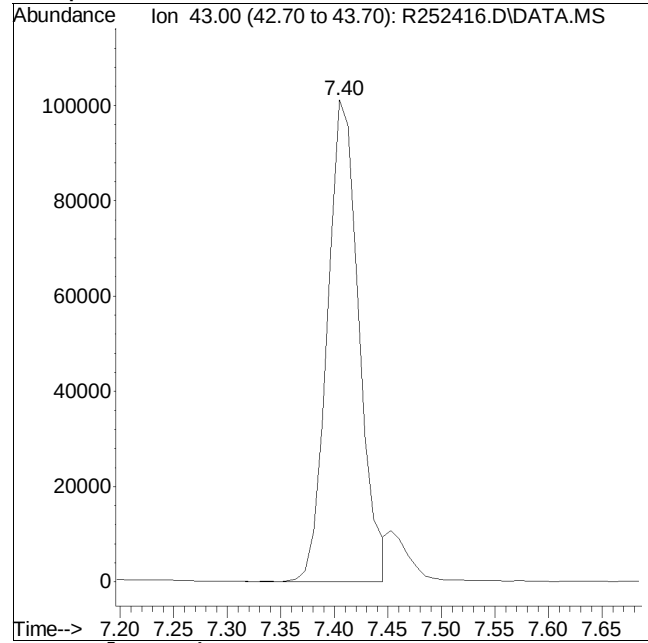
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252416.D Operator : AIRPIANO2:RY
Date Inj'd : 2/8/2018 10:50 am Instrument : Airpiano 2
Sample : CT015-LLSTD10.0 Quant Date : 2/8/2018 11:16 am

Compound #24: pentane



Original Peak Response = 223189

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

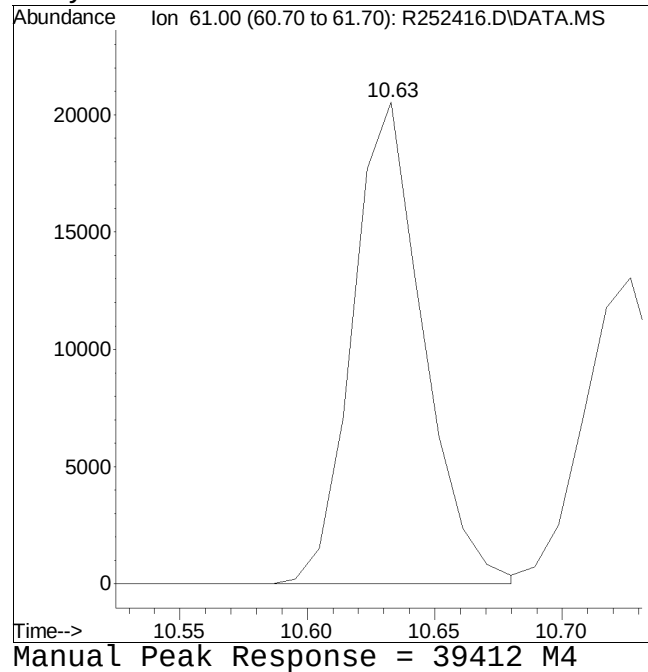
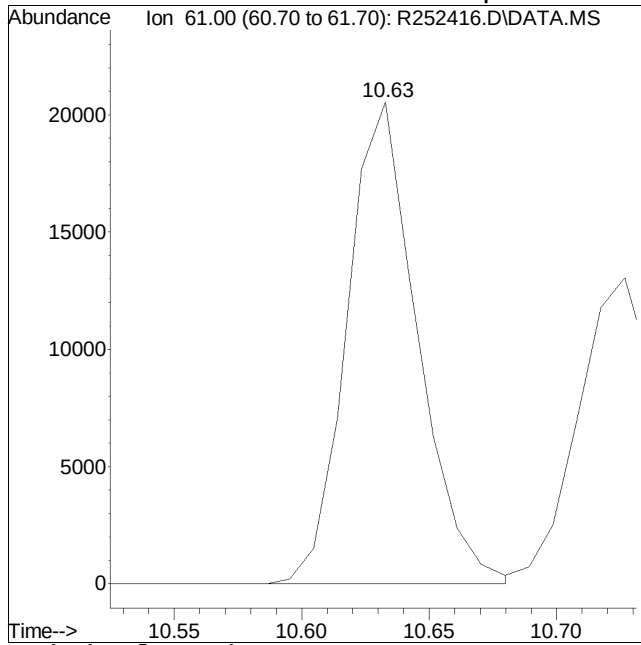


Manual Peak Response = 206981 M6

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252416.D Operator : AIRPIAN02:RY
Date Inj'd : 2/8/2018 10:50 am Instrument : Airpiano 2
Sample : CT015-LLSTD10.0 Quant Date : 2/8/2018 11:16 am

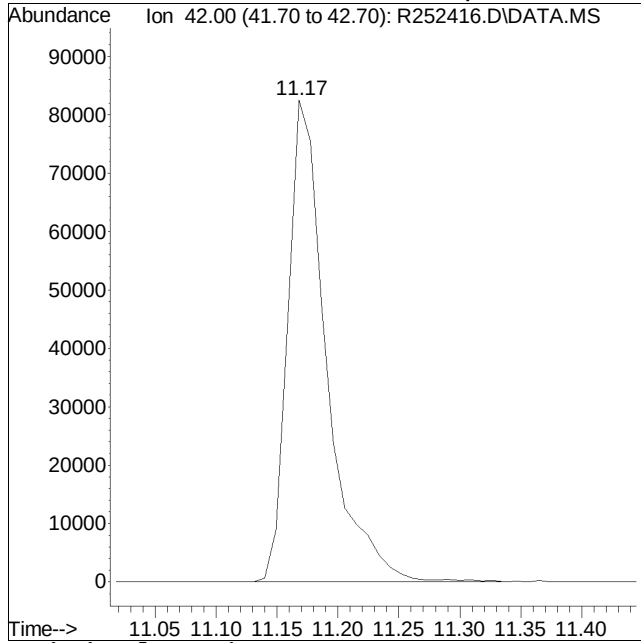
Compound #38: Ethyl Acetate



Manual Integration/Negative Proof Report

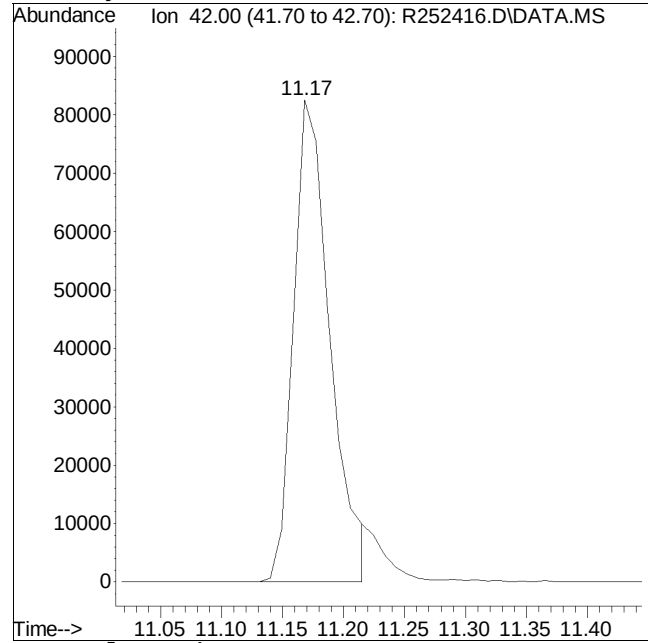
Data Path : O:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252416.D Operator : AIRPIANO2:RY
Date Inj'd : 2/8/2018 10:50 am Instrument : Airpiano 2
Sample : CT015-LLSTD10.0 Quant Date : 2/8/2018 11:16 am

Compound #40: Tetrahydrofuran



Original Peak Response = 182655

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 171791 M6

Continuing Calibration

Continuing Calibration Form 7

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRPIANO2
 Lab File ID : R252708
 Sample No : WG1094274-2
 Channel :

Lab Number : L1806385
 Project Number : 1802.001Y000
 Calibration Date : 03/03/18 12:01
 Init. Calib. Date(s) : 02/07/18 02/07/18
 Init. Calib. Times : 16:09 20:11

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	75	0
vinyl chloride	0.797	0.677	-	15.1	30	73	0
1,1-dichloroethene	1.308	1.069	-	18.3	30	62	0
trans-1,2-dichloroethene	1.165	0.974	-	16.4	30	62	0
1,1-dichloroethane	1.533	1.281	-	16.4	30	64	0
cis-1,2-dichloroethene	1.167	0.912	-	21.9	30	59	0
1,2-dichloroethane	1.065	1.002	-	5.9	30	72	0
1,4-difluorobenzene	1	1	-	0	30	104	0
1,1,1-trichloroethane	0.818	0.658	-	19.6	30	89	0
trichloroethene	0.495	0.388	-	21.6	30	87	0
chlorobenzene-D5	1	1	-	0	30	78	0
tetrachloroethene	1.897	2.067	-	-9	30	91	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
 Data File : R252708.D
 Acq On : 3 Mar 2018 12:01 pm
 Operator : AIRPIAN02:GJ
 Sample : WG1094274-2,3,250,250
 Misc : WG1094274,ICAL14412
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 12:26:43 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 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	75	0.00
9 C	vinyl chloride	0.797	0.677	15.1	73	0.00
26 C	1,1-dichloroethene	1.308	1.069	18.3	62	0.00
32	trans-1,2-dichloroethene	1.165	0.974	16.4	62	0.00
33 C	1,1-dichloroethane	1.533	1.281	16.4	64	0.00
37	cis-1,2-dichloroethene	1.167	0.912	21.9	59#	0.00
42 C	1,2-dichloroethane	1.065	1.002	5.9	72	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	104	0.00
48 C	1,1,1-trichloroethane	0.818	0.658	19.6	89	0.00
59 C	trichloroethene	0.495	0.388	21.6	87	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	78	0.00
78 C	tetrachloroethene	1.897	2.067	-9.0	91	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 : 0:\Forensics\Data\AIR2\2018\180303T\
 Data File : R252708.D
 Acq On : 3 Mar 2018 12:01 pm
 Operator : AIRPIAN02:GJ
 Sample : WG1094274-2,3,250,250
 Misc : WG1094274,ICAL14412
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 12:26:43 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

Sub List : 9_Chlorinateds - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.55	49	107164	10.000	ppbV	# 0.00
43) 1,4-difluorobenzene	12.74	114	219446	10.000	ppbV	0.00
67) chlorobenzene-D5	17.06	54	54259	10.000	ppbV	# 0.00

System Monitoring Compounds

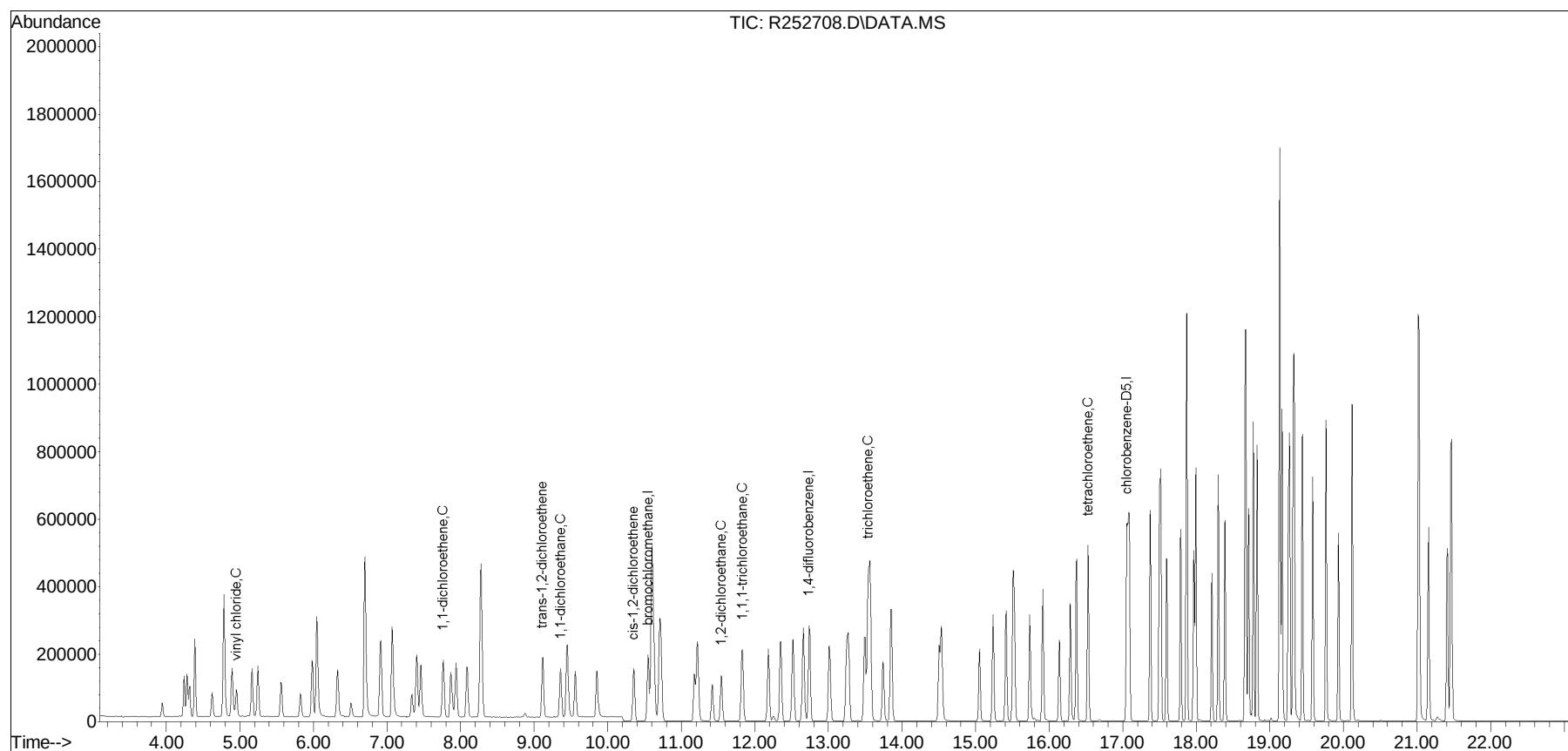
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) vinyl chloride	4.95	62	72555	8.494	ppbV	97
26) 1,1-dichloroethene	7.76	61	114584	8.173	ppbV	91
32) trans-1,2-dichloroethene	9.11	61	104344	8.360	ppbV	91
33) 1,1-dichloroethane	9.36	63	137290	8.358	ppbV	99
37) cis-1,2-dichloroethene	10.35	61	97778	7.817	ppbV	94
42) 1,2-dichloroethane	11.54	62	107395	9.406	ppbV	96
48) 1,1,1-trichloroethane	11.83	97	144335	8.042	ppbV	88
59) trichloroethene	13.54	130	85111	7.836	ppbV	96
78) tetrachloroethene	16.53	166	112170	10.898	ppbV	96

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

Sub List : 9_Chlorinateds - .eport (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
Data File : R252708.D
Acq On : 3 Mar 2018 12:01 pm
Operator : AIRPIAN02:GJ
Sample : WG1094274-2,3,250,250
Misc : WG1094274,ICAL14412
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 12:26:43 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:29:36 2018
Response via : Initial Calibration



TALL180207.M Sun Mar 04 15:03:07 2018

Page: 2

Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\AIR2\2018Q	Method	: TALL180207.M
Data File	: R252708.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 12:01 pm	Instrument	: Airpiano 2
Sample	: WG1094274-2,3,250,250	Quant Date	: 3/3/2018 12:26 pm

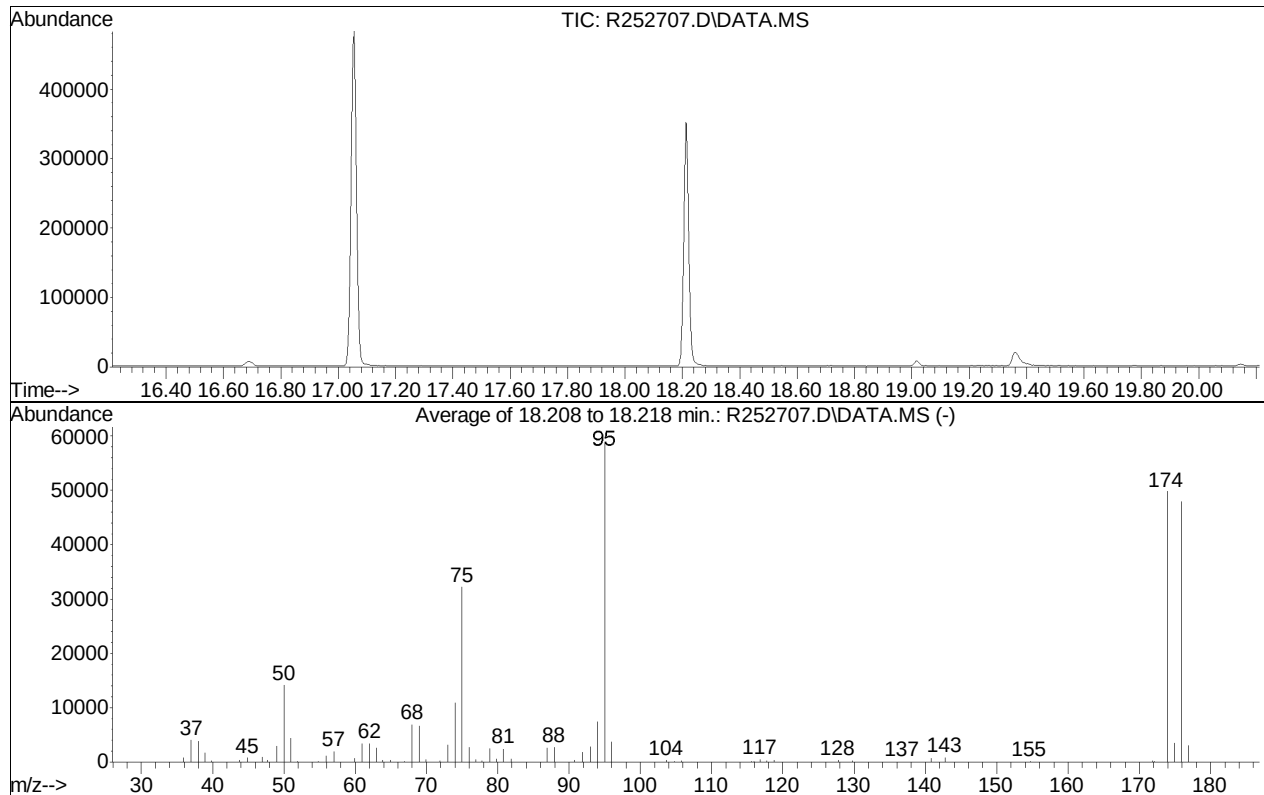
There are no manual integrations or false positives in this file.

BFB

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
Data File : R252707.D
Acq On : 3 Mar 2018 11:24 am
Operator : AIRPIAN02:GJ
Sample : WG1094274-1,3,250,250
Misc : WG1094274,ICAL14412
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Thu Feb 08 09:31:39 2018



AutoFind: Scans 1812, 1813, 1814; Background Corrected with Scan 1805

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.1	14142	PASS
75	95	30	66	55.0	32296	PASS
95	95	100	100	100.0	58771	PASS
96	95	5	9	6.4	3780	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	84.7	49808	PASS
175	174	4	9	7.1	3538	PASS
176	174	93	101	96.3	47971	PASS
177	176	5	9	6.5	3097	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
 Data File : R252710.D
 Acq On : 3 Mar 2018 1:38 pm
 Operator : AIRPIAN02:GJ
 Sample : WG1094274-4,3,250,250
 Misc : WG1094274,ICAL14412
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 03 14:07:02 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303T\R252708.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.55	49	92503	10.000	ppbV	# 0.00
Standard Area = 107164			Recovery =		86.32%	
43) 1,4-difluorobenzene	12.74	114	170506	10.000	ppbV	0.00
Standard Area = 219446			Recovery =		77.70%	
67) chlorobenzene-D5	17.06	54	41734	10.000	ppbV	0.00
Standard Area = 54259			Recovery =		76.92%	

System Monitoring Compounds

Target Compounds				Qvalue
9) vinyl chloride	0.00	0	N.D.	
26) 1,1-dichloroethene	0.00	0	N.D.	
32) trans-1,2-dichloroethene	0.00	0	N.D.	
33) 1,1-dichloroethane	0.00	0	N.D.	
37) cis-1,2-dichloroethene	0.00	0	N.D.	
42) 1,2-dichloroethane	0.00	0	N.D.	
48) 1,1,1-trichloroethane	0.00	0	N.D.	
59) trichloroethene	0.00	0	N.D.	
78) tetrachloroethene	0.00	0	N.D.	

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

Sub List : 9_Chlorinateds - .AIR2\2018\180303T\R252708.D

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\

Data File : R252710.D

Acq On : 3 Mar 2018 1:38 pm

Operator : AIRPIAN02:GJ

Sample : WG1094274-4,3,250,250

Misc : WG1094274,ICAL14412

ALS Vial : 1 Sample Multiplier: 1

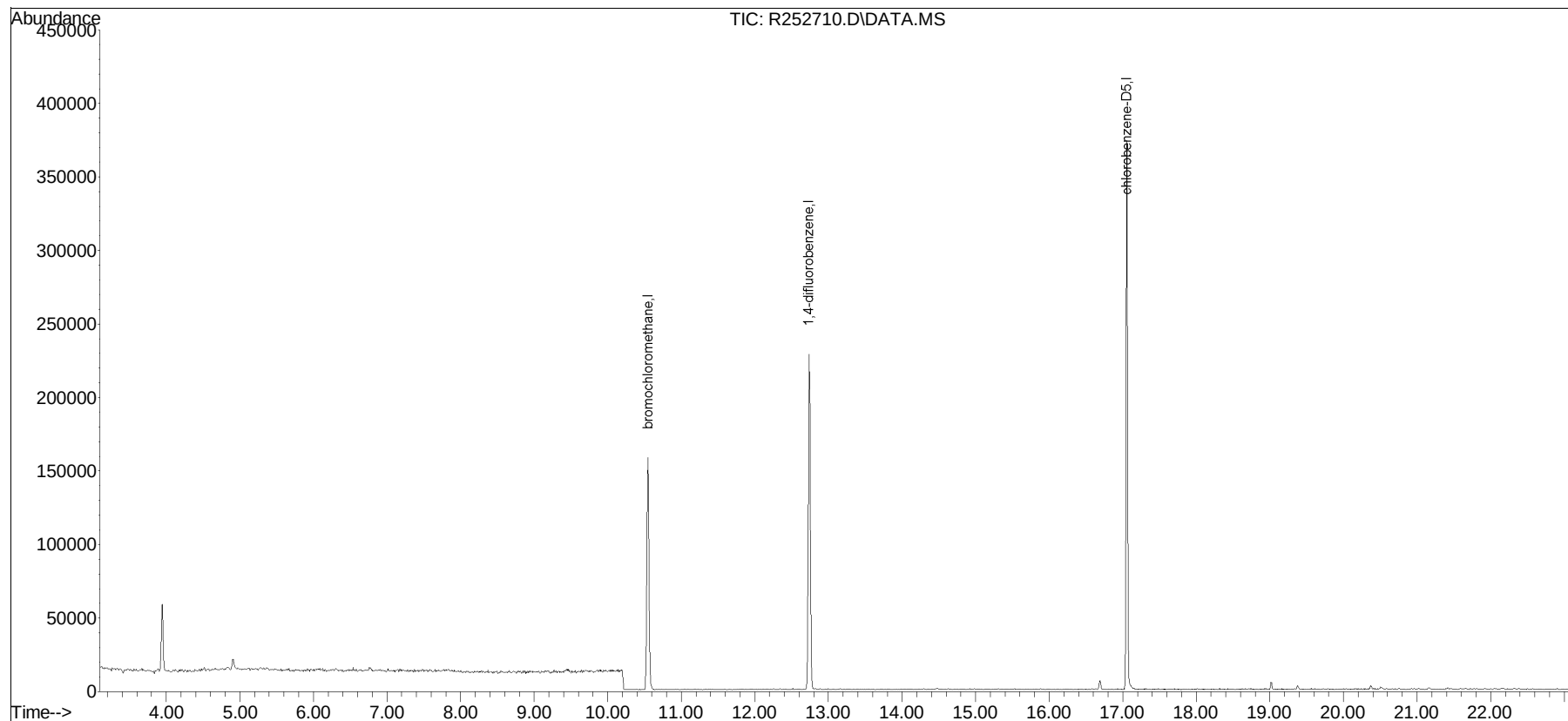
Quant Time: Mar 03 14:07:02 2018

Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Thu Feb 08 09:29:36 2018

Response via : Initial Calibration



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TALL180207.M
Data File : R252710.D Operator : AIRPIAN02:GJ
Date Inj'd : 3/3/2018 1:38 pm Instrument : Airpiano 2
Sample : WG1094274-4,3,250,250 Quant Date : 3/3/2018 2:07 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
 Data File : R252708.D
 Acq On : 3 Mar 2018 12:01 pm
 Operator : AIRPIAN02:GJ
 Sample : WG1094274-3,3,250,250
 Misc : WG1094274,ICAL14412
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 12:26:43 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

Sub List : 9_Chlorinateds - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.55	49	107164	10.000	ppbV	# 0.00
43) 1,4-difluorobenzene	12.74	114	219446	10.000	ppbV	0.00
67) chlorobenzene-D5	17.06	54	54259	10.000	ppbV	# 0.00

System Monitoring Compounds

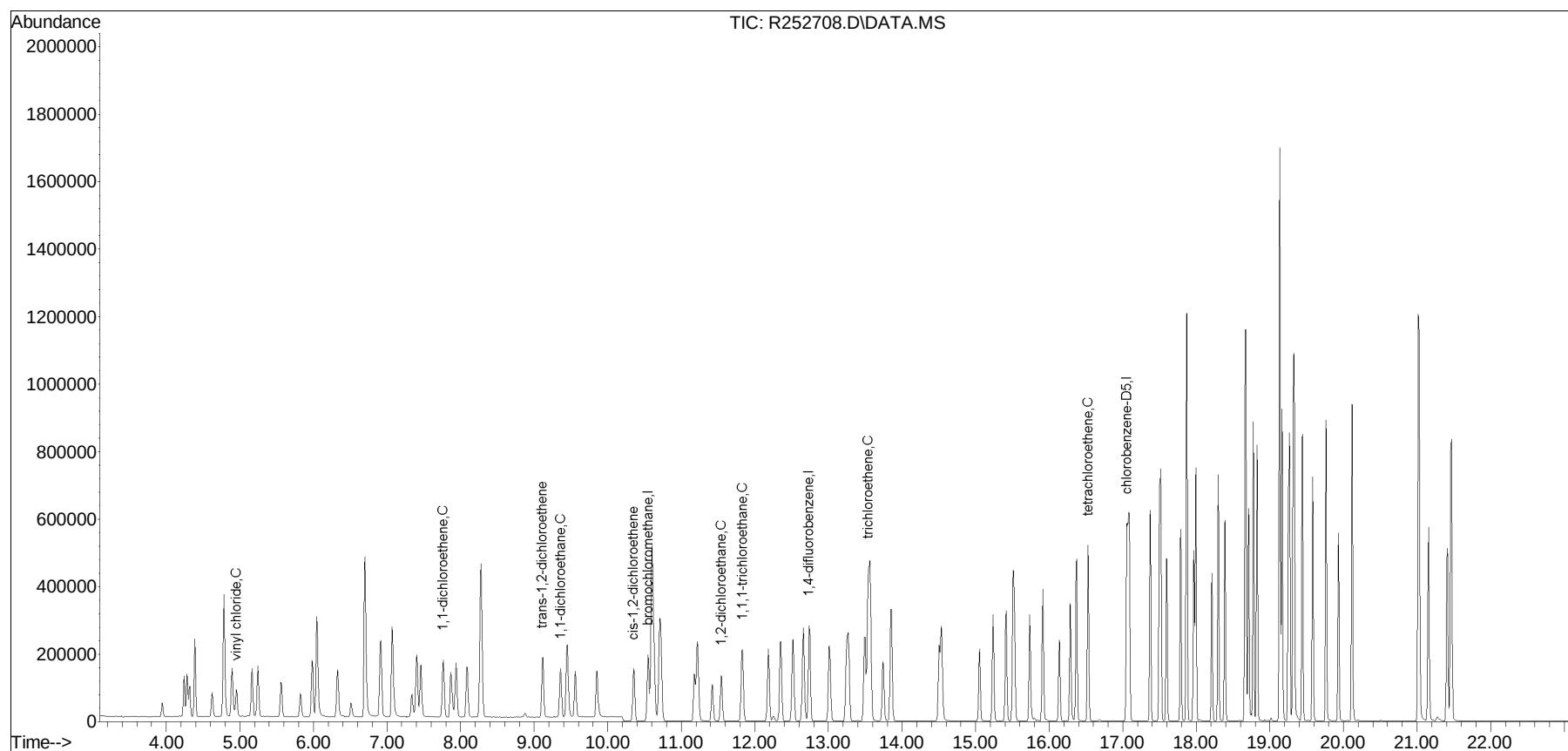
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) vinyl chloride	4.95	62	72555	8.494	ppbV	97
26) 1,1-dichloroethene	7.76	61	114584	8.173	ppbV	91
32) trans-1,2-dichloroethene	9.11	61	104344	8.360	ppbV	91
33) 1,1-dichloroethane	9.36	63	137290	8.358	ppbV	99
37) cis-1,2-dichloroethene	10.35	61	97778	7.817	ppbV	94
42) 1,2-dichloroethane	11.54	62	107395	9.406	ppbV	96
48) 1,1,1-trichloroethane	11.83	97	144335	8.042	ppbV	88
59) trichloroethene	13.54	130	85111	7.836	ppbV	96
78) tetrachloroethene	16.53	166	112170	10.898	ppbV	96

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

Sub List : 9_Chlorinateds - .eport (QT Reviewed)

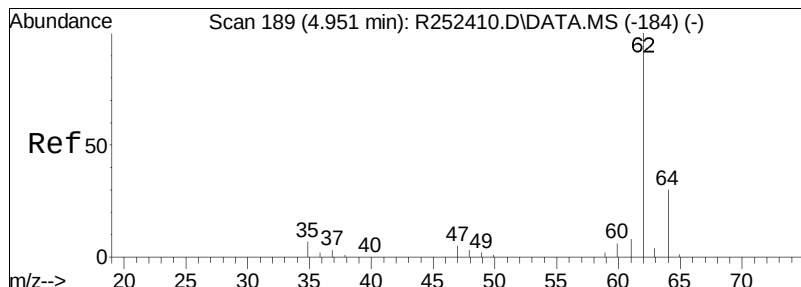
Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
Data File : R252708.D
Acq On : 3 Mar 2018 12:01 pm
Operator : AIRPIAN02:GJ
Sample : WG1094274-3,3,250,250
Misc : WG1094274,ICAL14412
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 12:26:43 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:29:36 2018
Response via : Initial Calibration



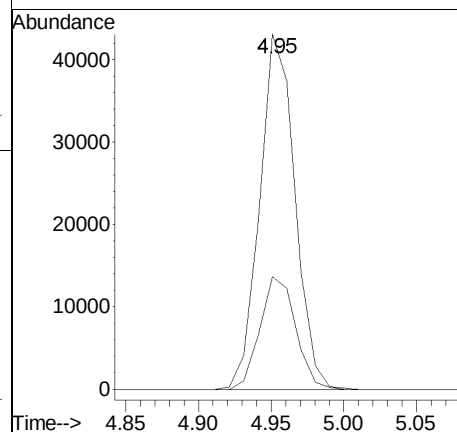
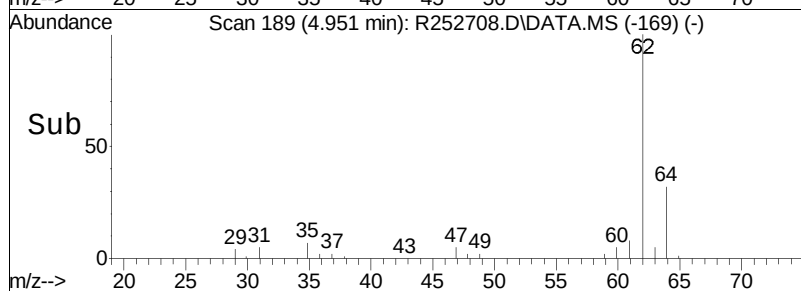
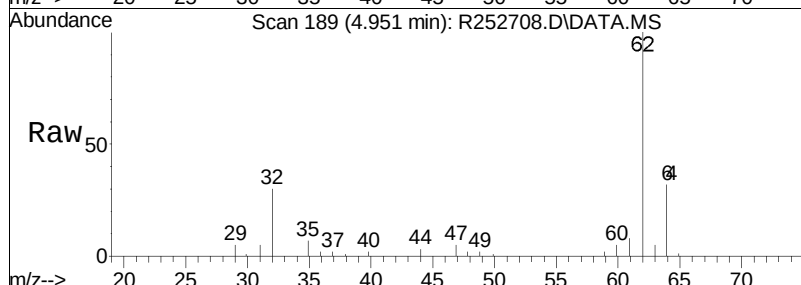
TALL180207.M Sun Mar 04 15:04:34 2018

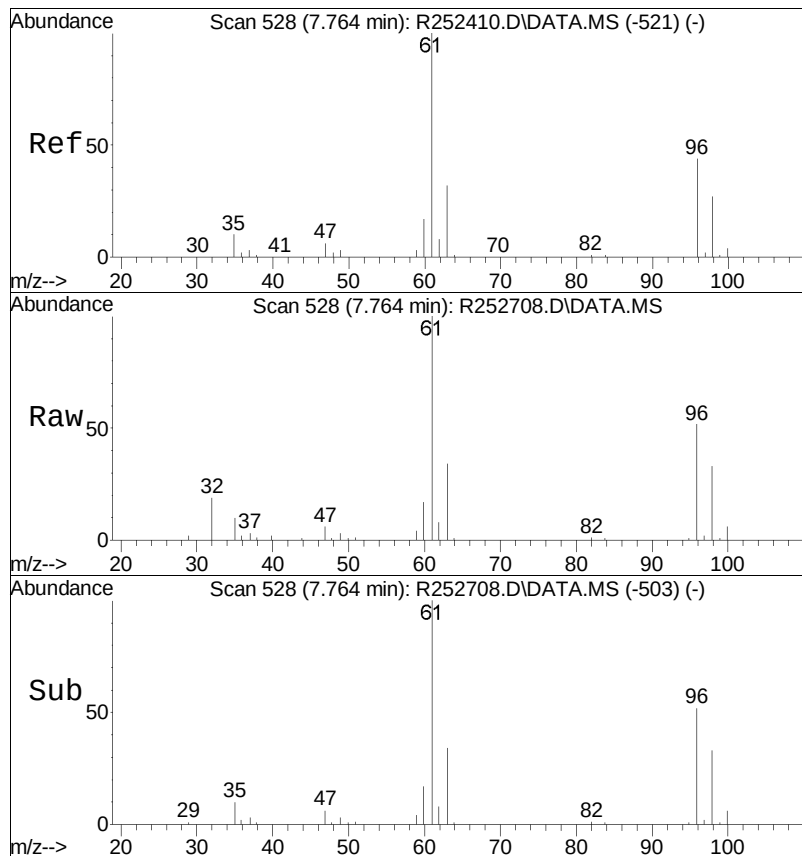
Page: 2



#9
vinyl chloride
Concen: 8.49 ppbV
RT: 4.95 min Scan# 189
Delta R.T. 0.000 min
Lab File: R252708.D
Acq: 3 Mar 2018 12:01 pm

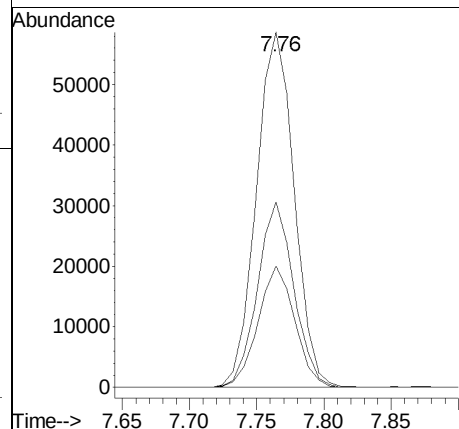
Tgt Ion: 62 Resp: 72555
Ion Ratio Lower Upper
62 100
64 31.7 24.2 36.4

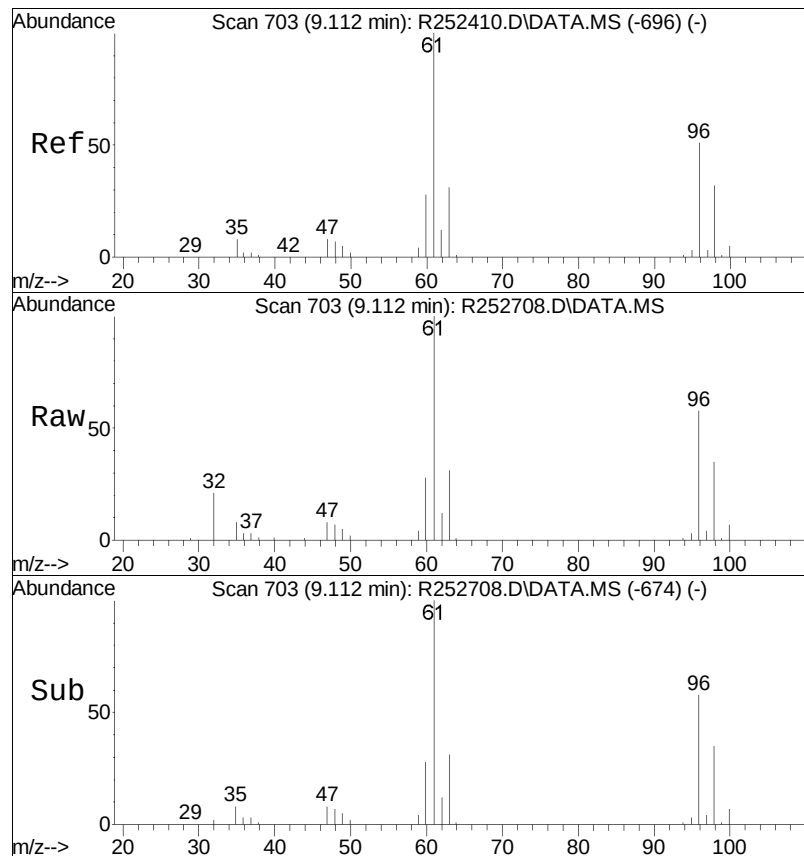




#26
 1,1-dichloroethene
 Concen: 8.17 ppbV
 RT: 7.76 min Scan# 528
 Delta R.T. 0.000 min
 Lab File: R252708.D
 Acq: 3 Mar 2018 12:01 pm

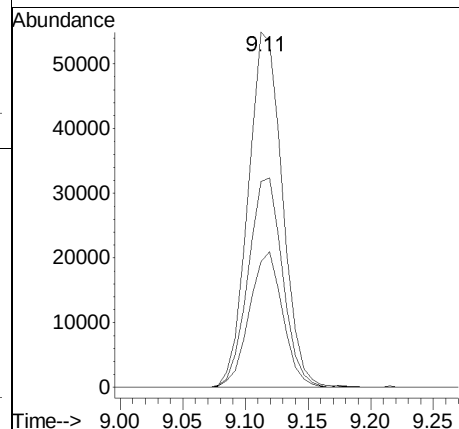
Tgt Ion:	61	Resp:	114584
Ion Ratio	Lower	Upper	
61	100		
96	52.2	35.1	52.7
63	34.2	25.9	38.9

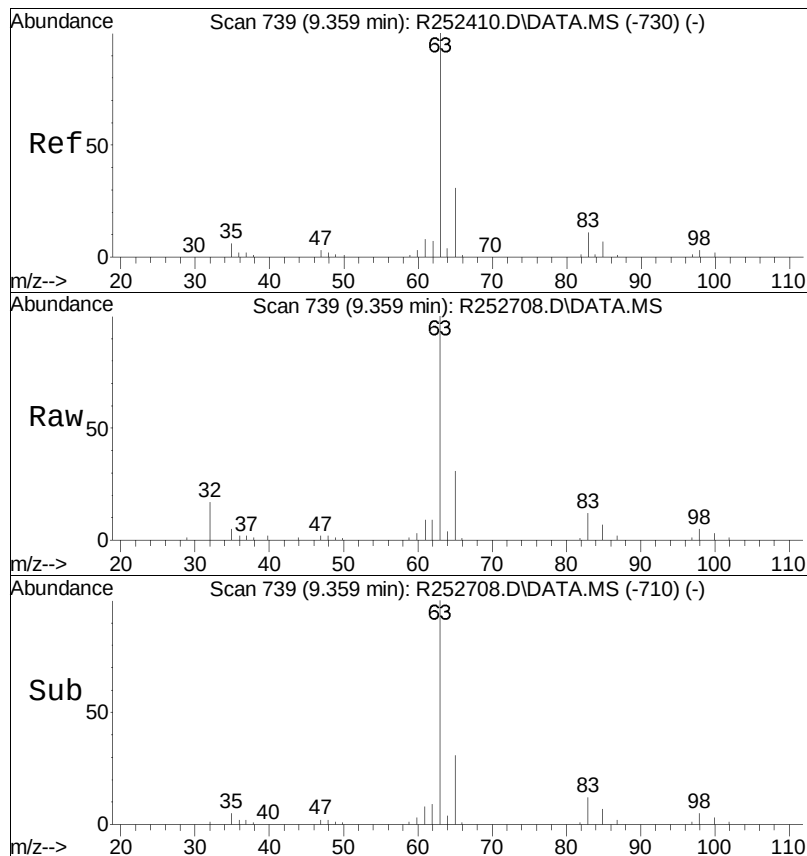




#32
 trans-1,2-dichloroethene
 Concen: 8.36 ppbV
 RT: 9.11 min Scan# 703
 Delta R.T. 0.000 min
 Lab File: R252708.D
 Acq: 3 Mar 2018 12:01 pm

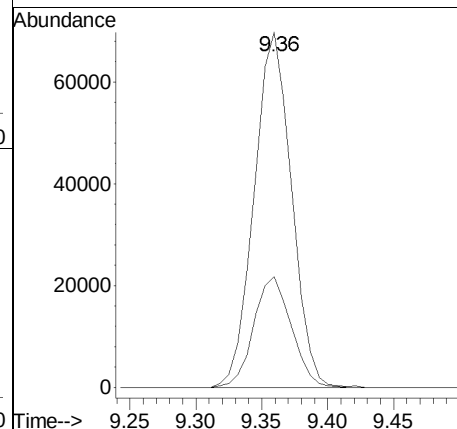
Tgt Ion:	61	Resp:	104344
Ion Ratio	Lower	Upper	
61	100		
96	57.9	40.5	60.7
98	35.4	25.4	38.0

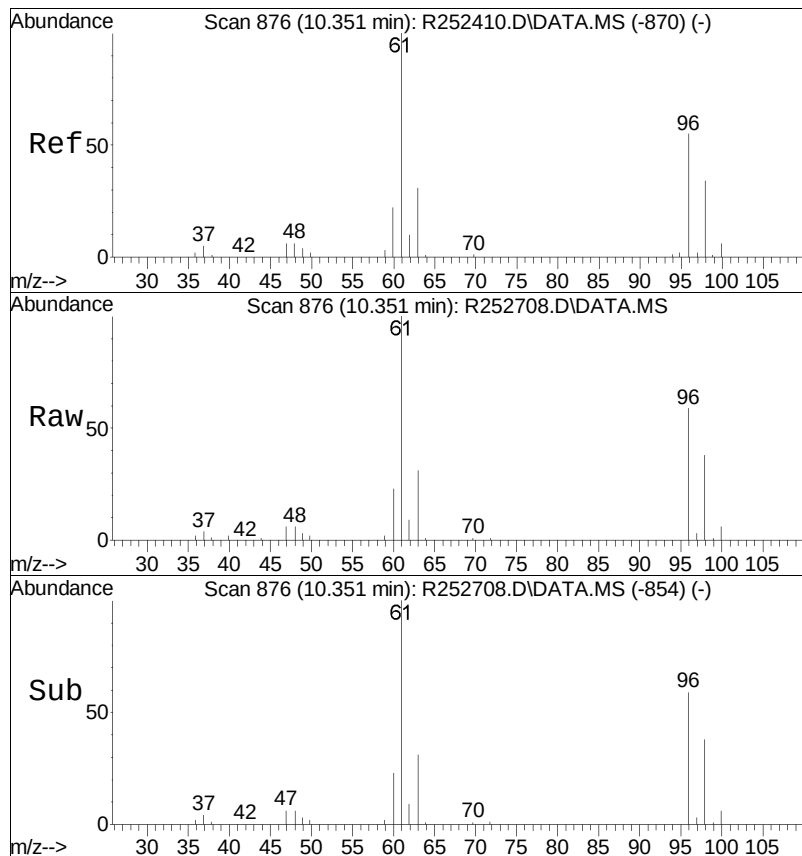




#33
 1,1-dichloroethane
 Concen: 8.36 ppbV
 RT: 9.36 min Scan# 739
 Delta R.T. 0.000 min
 Lab File: R252708.D
 Acq: 3 Mar 2018 12:01 pm

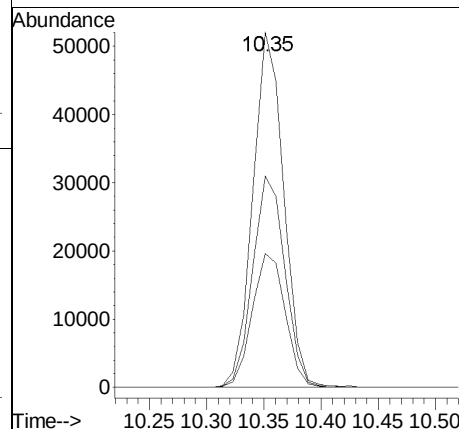
Tgt Ion:	63	Resp:	137290
Ion Ratio	100	Lower	Upper
65	31.2	24.5	36.7

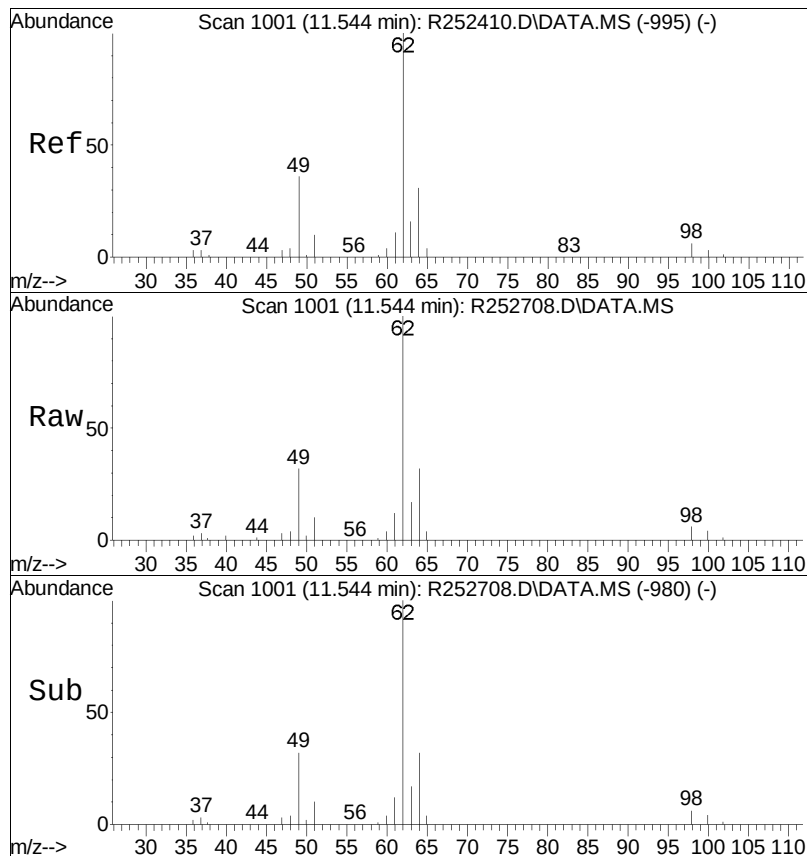




#37
 cis-1,2-dichloroethene
 Concen: 7.82 ppbV
 RT: 10.35 min Scan# 876
 Delta R.T. 0.000 min
 Lab File: R252708.D
 Acq: 3 Mar 2018 12:01 pm

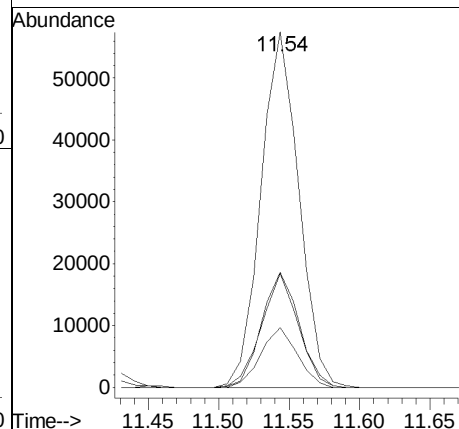
Tgt Ion:	61	Resp:	97778
Ion Ratio	Lower	Upper	
61	100		
96	59.5	44.1	66.1
98	37.7	27.2	40.8

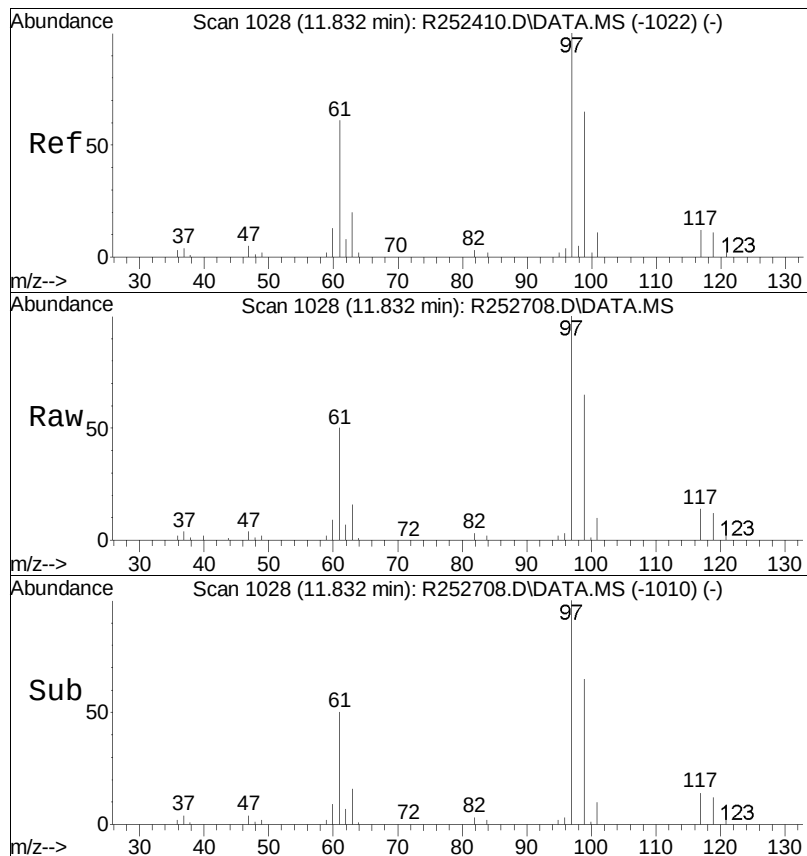




#42
 1,2-dichloroethane
 Concen: 9.41 ppbV
 RT: 11.54 min Scan# 1001
 Delta R.T. 0.000 min
 Lab File: R252708.D
 Acq: 3 Mar 2018 12:01 pm

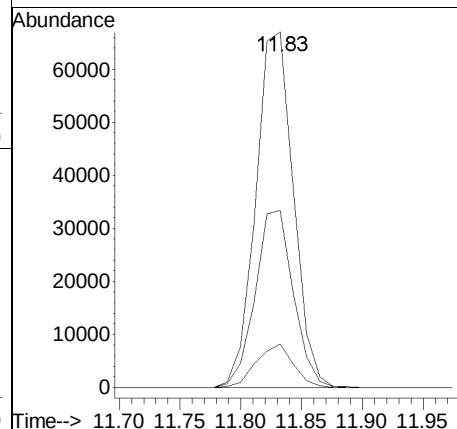
Tgt Ion:	62	Resp:	107395
Ion Ratio	Lower	Upper	
62	100		
64	32.4	25.0	37.4
49	32.1	28.5	42.7
63	16.8	12.9	19.3

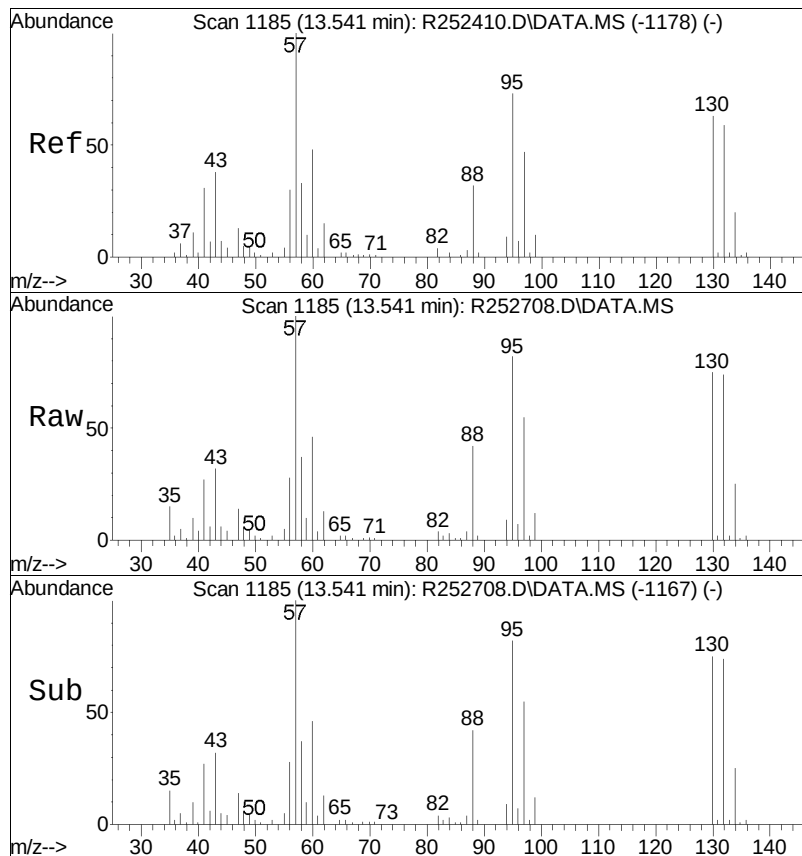




#48
 1,1,1-trichloroethane
 Concen: 8.04 ppbV
 RT: 11.83 min Scan# 1028
 Delta R.T. 0.000 min
 Lab File: R252708.D
 Acq: 3 Mar 2018 12:01 pm

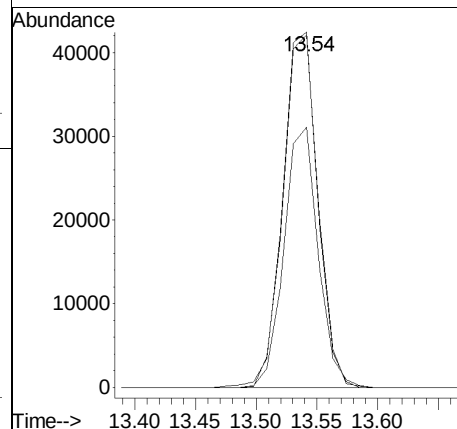
Tgt Ion:	97	Resp:	144335
Ion Ratio	Lower	Upper	
97	100		
61	49.8	48.5	72.7
119	12.2	8.8	13.2

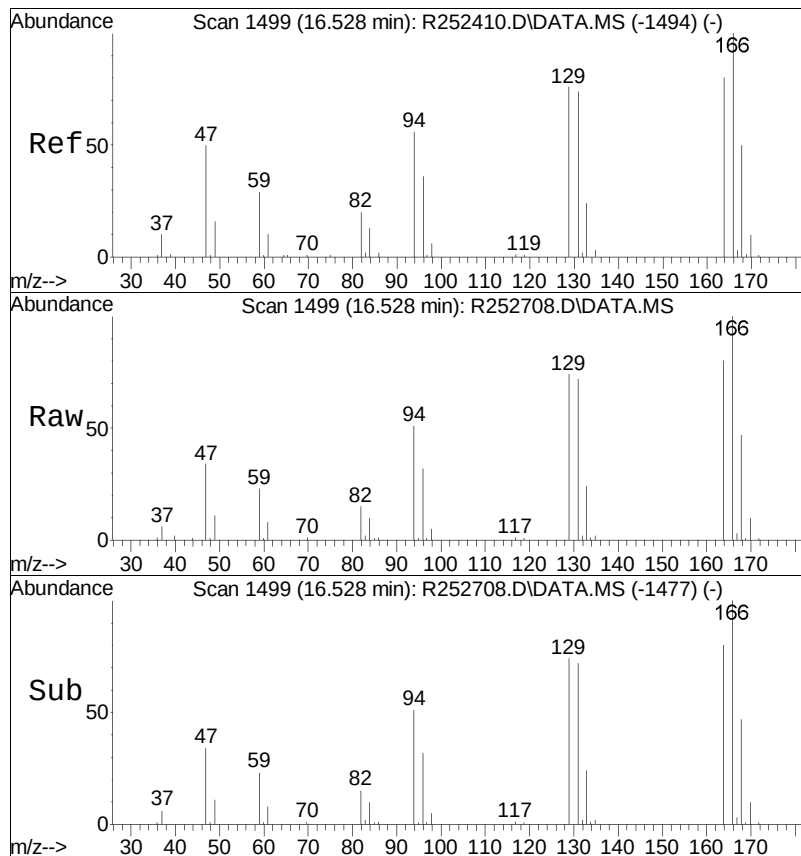




#59
trichloroethene
Concen: 7.84 ppbV
RT: 13.54 min Scan# 1185
Delta R.T. 0.000 min
Lab File: R252708.D
Acq: 3 Mar 2018 12:01 pm

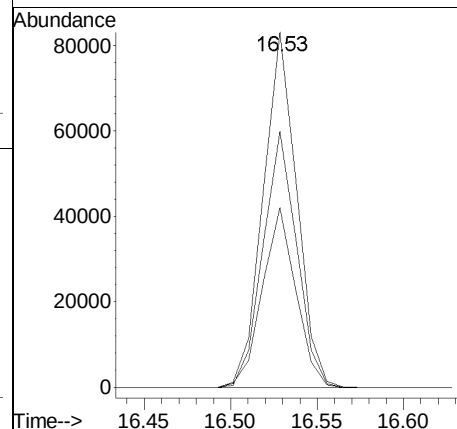
Tgt Ion	Ratio	Lower	Upper
130	100		
132	99.1	75.5	113.3
97	73.2	60.2	90.2





#78
 tetrachloroethene
 Concen: 10.90 ppbV
 RT: 16.53 min Scan# 1499
 Delta R.T. 0.000 min
 Lab File: R252708.D
 Acq: 3 Mar 2018 12:01 pm

Tgt Ion:	166	Resp:	112170
Ion Ratio	Lower	Upper	
166	100		
131	72.0	59.0	88.4
94	50.6	44.4	66.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TALL180207.M
Data File	: R252708.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 12:01 pm	Instrument	: Airpiano 2
Sample	: WG1094274-3,3,250,250	Quant Date	: 3/3/2018 12:26 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\
 Data File : R252725.D
 Acq On : 3 Mar 2018 11:22 pm
 Operator : AIRPIAN02:GJ
 Sample : WG1094274-5,3,250,250
 Misc : WG1094274,ICAL14412
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 04 07:49:46 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:29:36 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303T\R252708.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.55	49	86339	10.000	ppbV	# 0.00
Standard Area = 107164			Recovery =		80.57%	
43) 1,4-difluorobenzene	12.74	114	163615	10.000	ppbV	0.00
Standard Area = 219446			Recovery =		74.56%	
67) chlorobenzene-D5	17.06	54	40656	10.000	ppbV	# 0.00
Standard Area = 54259			Recovery =		74.93%	

System Monitoring Compounds

Target Compounds						Qvalue
9) vinyl chloride	0.00		0		N.D.	
26) 1,1-dichloroethene	0.00		0		N.D.	
32) trans-1,2-dichloroethene	0.00		0		N.D.	
33) 1,1-dichloroethane	0.00		0		N.D.	
37) cis-1,2-dichloroethene	0.00		0		N.D.	
42) 1,2-dichloroethane	0.00		0		N.D.	
48) 1,1,1-trichloroethane	0.00		0		N.D.	
59) trichloroethene	13.53	130	606	0.075	ppbV #	67
78) tetrachloroethene	16.53	166	63541	8.239	ppbV	94

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

Sub List : 9_Chlorinateds - .AIR2\2018\180303T\R252708.D

Data Path : 0:\Forensics\Data\AIR2\2018\180303T\

Data File : R252725.D

Acq On : 3 Mar 2018 11:22 pm

Operator : AIRPIAN02:GJ

Sample : WG1094274-5,3,250,250

Misc : WG1094274,ICAL14412

ALS Vial : 12 Sample Multiplier: 1

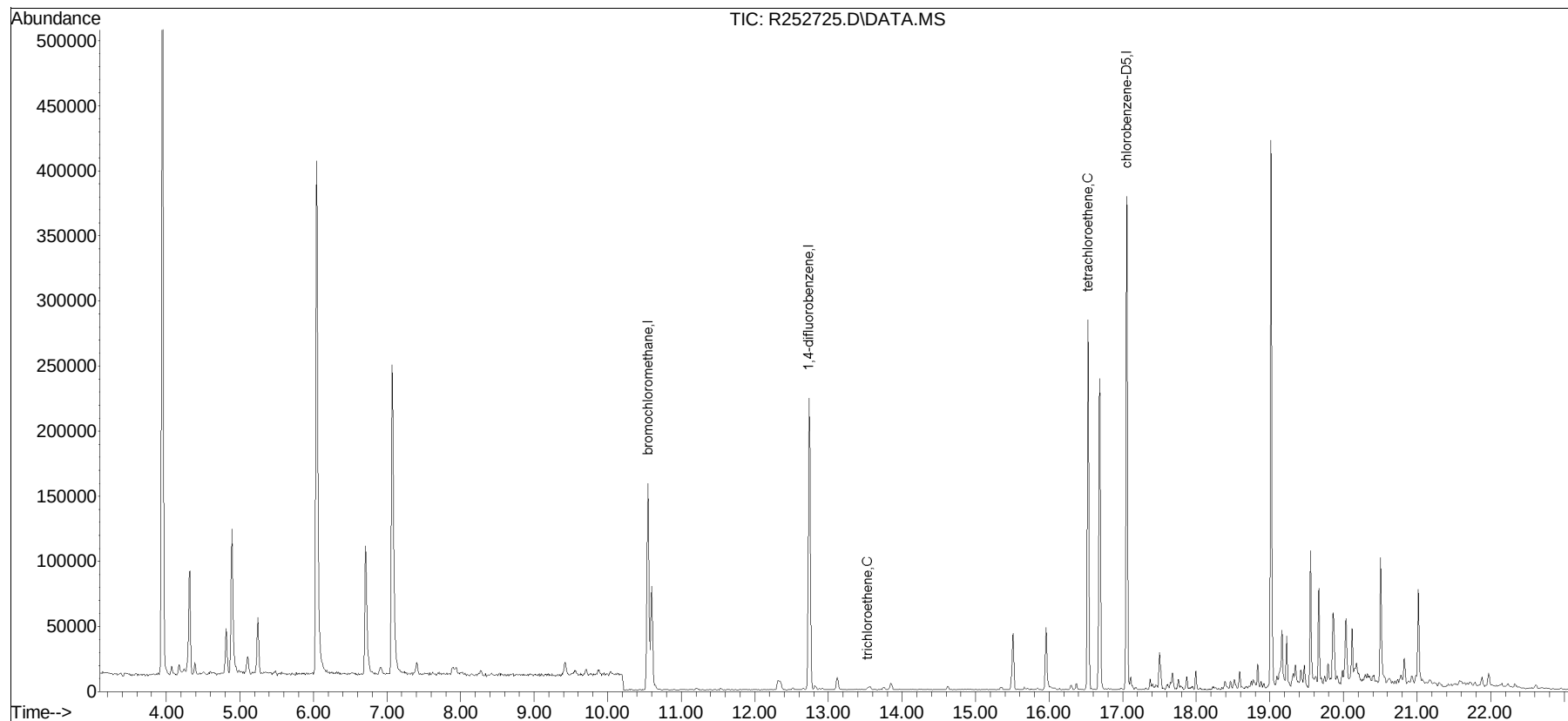
Quant Time: Mar 04 07:49:46 2018

Quant Method : 0:\Forensics\Data\AIR2\2018\180303T\TALL180207.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

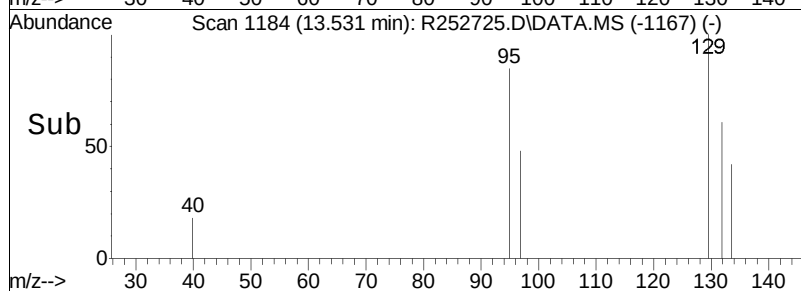
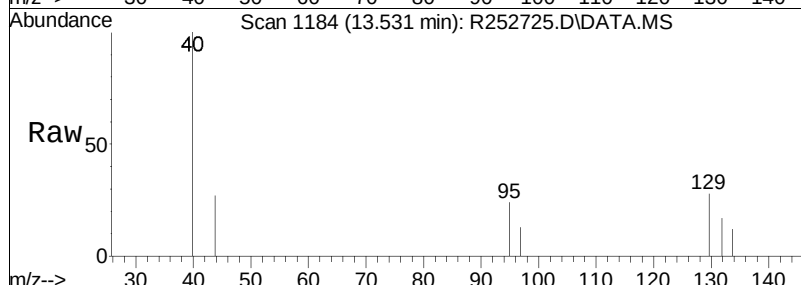
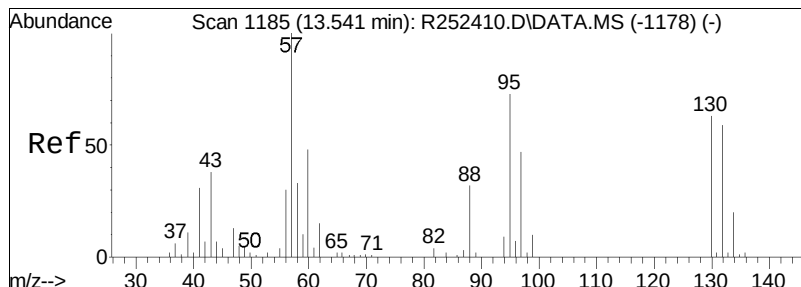
QLast Update : Thu Feb 08 09:29:36 2018

Response via : Initial Calibration



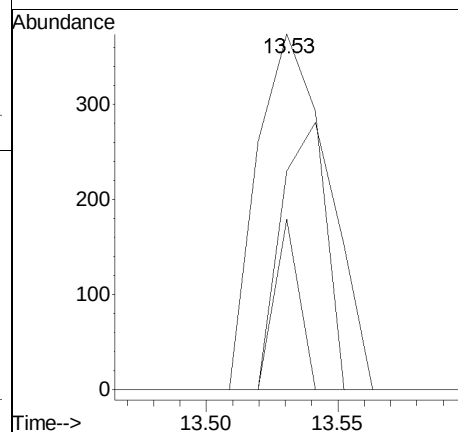
TALL180207.M Sun Mar 04 15:04:54 2018

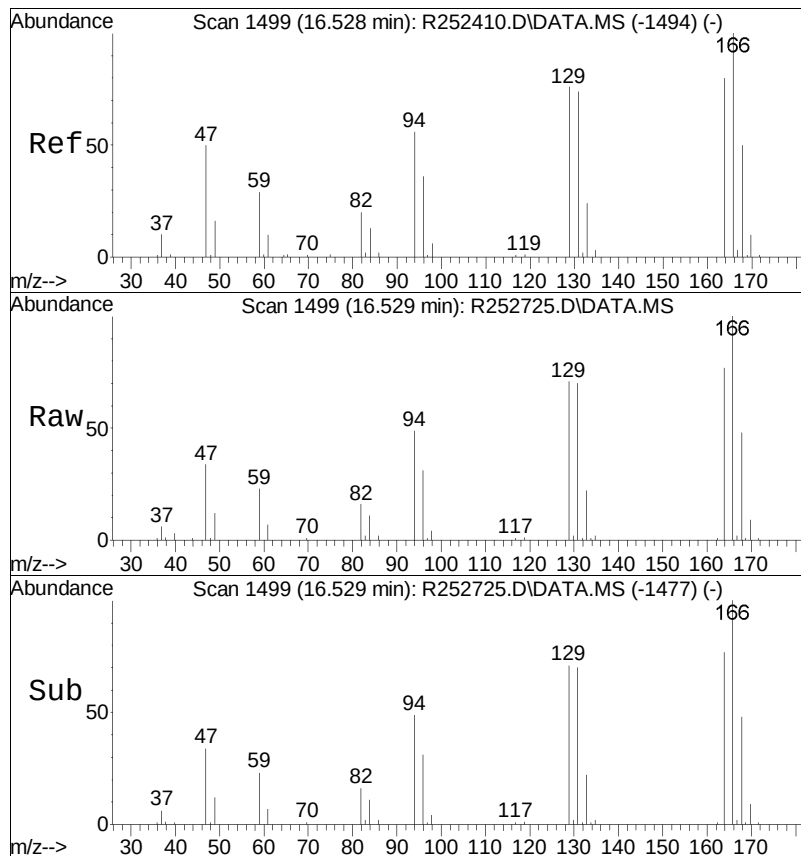
Page: 2



#59
 trichloroethene
 Concen: 0.07 ppbV
 RT: 13.53 min Scan# 1184
 Delta R.T. -0.011 min
 Lab File: R252725.D
 Acq: 3 Mar 2018 11:22 pm

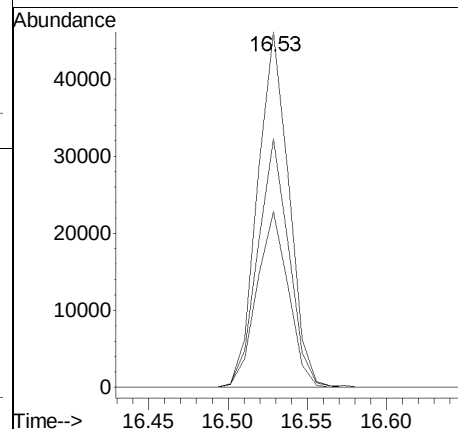
Tgt Ion:130 Resp: 606
 Ion Ratio Lower Upper
 130 100
 132 61.5 75.5 113.3#
 97 47.9 60.2 90.2#





#78
 tetrachloroethene
 Concen: 8.24 ppbV
 RT: 16.53 min Scan# 1499
 Delta R.T. 0.000 min
 Lab File: R252725.D
 Acq: 3 Mar 2018 11:22 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	69.9	59.0	88.4
94	49.5	44.4	66.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TALL180207.M
Data File	: R252725.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 11:22 pm	Instrument	: Airpiano 2
Sample	: WG1094274-5,3,250,250	Quant Date	: 3/4/2018 7:49 am

There are no manual integrations or false positives in this file.

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 06 2018, 11:01 am

Work Group: WG1094274 for Department: 3 GC/MS

Created: 03-MAR-18 Due: Operator: ry

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1806385-01	VS-DCF	S T015-LL	SOIL_VAPOR	DONE	U	0324	0302	S0	Can-6
L1806385-03	VS-MRE	S T015-LL	SOIL_VAPOR	DONE	U	0324	0302	S0	Can-6
L1806385-05	VS-DCR	S T015-LL	SOIL_VAPOR	DONE	U	0324	0302	S0	Can-6
L1806385-07	VS-FENCE	S T015-LL	SOIL_VAPOR	DONE	U	0324	0302	S0	Can-6
L1806385-09	VS-VAC	S T015-LL	SOIL_VAPOR	DONE	U	0324	0302	S0	Can-6
L1806385-10	VS-BOOK	S T015-LL	SOIL_VAPOR	DONE	U	0324	0302	S0	Can-6
WG1094274-1	MS BFB Tune Standard	S T015-LL	SOIL_VAPOR	DONE	U				
WG1094274-2	Continuing Calibrati	S T015-LL	SOIL_VAPOR	DONE	U				
WG1094274-3	Laboratory Control S	S T015-LL	SOIL_VAPOR	DONE	U				
WG1094274-4	Laboratory Method Bl	S T015-LL	SOIL_VAPOR	DONE	U				
WG1094274-5	Duplicate Sample	S T015-LL	SOIL_VAPOR	DONE	U				
Comments:									
WG1094274-5	L1806385-03								

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

Sequence Name: C:\Smart\180207T_ICAL.SEQ

Date: 02-08-2018

Time: 11:32:42

Int. Std Volume: 100 cc

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
TA2020701	1	1	250	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.02	1	5	50	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.04	1	5	100	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.1	1	5	250	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.2	1	6	50	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.5	1	6	125	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD1.0	1	6	250	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD5.0	1	7	125	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD10.0	1	7	250	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD20.0	1	8	50	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD50.0	1	8	125	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD100.0	1	8	250	100	C:\Smart\Alpha-TO15.CTD	12:00
BA2020701	1	1	250	100	C:\Smart\Alpha-TO15.CTD	12:00
BA2020702	1	1	250	100	C:\Smart\Alpha-TO15.CTD	12:00
CTO15-LLSTD10.0	1	2	250	100	C:\Smart\Alpha-TO15.CTD	12:00
CTO15-SIMSTD5.0	1	2	125	100	C:\Smart\Alpha-TO15.CTD	12:00

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airpiano 2

Internal Standard/Surrogate IDs: SS17-030/ SS17-031

Date: 02/07/18

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: RY

Sequence File Name: 180207.S

SIM ICAL#

Full Scan ICAL#

TO-12 ICAL#

APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Leak Check Pass ? Y/N
1	TA2020701	TO15_SFS	R252402	250ml	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS	R252403	SS18-001D 125ML	SIM ONLY		NA
5	ITO15-SIMSTD0.04	TO15_SFS	R252404	SS18-001D 250ML	SIM ONLY		NA
5	ITO15-SIMSTD0.1	TO15_SFS	R252405	SS18-001C 25ML	SIM ONLY		NA
6	ITO15-SIMSTD0.2	TO15_SFS	R252406	SS18-001C 50ML			NA
6	ITO15-SIMSTD0.5	TO15_SFS	R252407	SS18-001C 125ML			NA
6	ITO15-SIMSTD1.0	TO15_SFS	R252408	SS18-001C 250ML			NA
7	ITO15-SIMSTD5.0	TO15_SFS	R252409	SS18-001B1 125ML			NA
7	ITO15-SIMSTD10.0	TO15_SFS	R252410	SS18-001B1 250ML			NA
8	ITO15-SIMSTD20.0	TO15_SFS	R252411	SS18-001A 50ML			NA
8	ITO15-SIMSTD50.0	TO15_SFS	R252412	SS18-001A 125ML			NA
8	ITO15-SIMSTD100.0	TO15_SFS	R252413	SS18-001A 250ML	NOT USED FOR SIM		NA
1	BA2020701	TO15_SFS	R252414	250ml			NA
		Pause					
1	BA2020702	TO15_SFS	R252415	250ml			NA
2	CTO15-LLSTD10.0	TO15_SFS	R252416	SS18-002A 250ML	FULL SCAN ICV		NA
2	CTO15-SIMSTD5.0	TO15_SFS	R252417	SS18-002A 125ML	SIM ICV		NA

Alpha Analytical Air Lab Instrument Run Log

[illegible]

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airpiano 2

Internal Standard/Surrogate IDs: SS17-030/ SS17-031

Date: 03/03/18

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: RY

Sequence File Name: 180303.S

SIM ICAL# 14413

Full Scan ICAL# 14412

TO-12 ICAL#

APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/Sublist	Leak Check Pass ? Y/N
1	TA2030301	TO15_SFS	R252707	250ml	TUNE		NA
2	CTO15-LLSTD10.0	TO15_SFS	R252708	250ml; SS18-002C	LL LCS		NA
2	CTO15-SIMSTD5.0	TO15_SFS	R252709	125ml; SS18-002C	SIM LCS		NA
1	BA2030301	TO15_SFS	R252710	250ml	BLANK		Y
1	L1806639-05,3,250,250	TO15_SFS	R252711	WG1094273,ICAL14412		9-CL	Y
2	L1806385-06,3,250,250	TO15_SFS	R252712	WG1094275,ICAL14413		6 CL BY SIM	Y
3	L1806385-02,3,250,250	TO15_SFS	R252713	WG1094275,ICAL14413		6 CL BY SIM	Y
4	L1806385-04,3,250,250	TO15_SFS	R252714	WG1094275,ICAL14413		6 CL BY SIM	Y
4	L1806385-04DUP,3,250,250	TO15_SFS	R252715	WG1094275,ICAL14413	TO15-SIM DUP	6 CL BY SIM	Y
5	L1806385-08,3,250,250	TO15_SFS	R252716	WG1094275,ICAL14413		6 CL BY SIM	Y
6	L1806385-11,3,250,250	TO15_SFS	R252717	WG1094275,ICAL14413		6 CL BY SIM	Y
7	L1806639-01D,3,167.16,250	TO15_SFS	R252718	WG1094273,ICAL14412		9-CL	Y
8	L1806639-02,3,250,250	TO15_SFS	R252719	WG1094273,ICAL14412		9-CL	Y
9	L1806639-03,3,250,250	TO15_SFS	R252720	WG1094273,ICAL14412		9-CL	Y
9	L1806639-03DUP,3,250,250	TO15_SFS	R252721	WG1094273,ICAL14412	MCP-TO15 DUP	9-CL	Y
10	L1806639-04,3,250,250	TO15_SFS	R252722	WG1094273,ICAL14412		9-CL	Y
11	L1806385-01,3,250,250	TO15_SFS	R252723	WG1094274,ICAL14412		6 CL	Y
12	L1806385-03,3,250,250	TO15_SFS	R252724	WG1094274,ICAL14412		6 CL	Y
12	L1806385-03DUP,3,250,250	TO15_SFS	R252725	WG1094274,ICAL14412	TO15-LL DUP	6 CL	Y
13	L1806385-05,3,250,250	TO15_SFS	R252726	WG1094274,ICAL14412		6 CL	Y
14	L1806385-07,3,250,250	TO15_SFS	R252727	WG1094274,ICAL14412		6 CL	Y

Alpha Analytical Air Lab Instrument Run Log

15	L1806385-09,3,250,250	TO15_SFS	R252728	WG1094274,ICAL14412		6 CL	Y
16	L1806385-10,3,250,250	TO15_SFS	R252729	WG1094274,ICAL14412		6 CL	Y

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Volatiles QC Summary

Lab Duplicates Form 3

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Client Sample ID : IA-DCR
 Lab Sample ID : L1806385-04
 Lab File ID : R252714
 Dup Sample ID : WG1094275-5

Lab Number : L1806385
 Project Number : 1802.001Y000
 Matrix : AIR
 Analysis Date : 03/03/18 16:58
 DUP File ID : R252715
 DUP Analysis Date : 03/03/18 17:33

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Vinyl chloride	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
cis-1,2-Dichloroethene	ND	ND	NC	25
Trichloroethene	ND	ND	NC	25
Tetrachloroethene	0.033	0.035	6	25
1,2-Dichloroethene (total)	ND	ND	NC	25

Laboratory Control Sample Form 3

Client	: Roux Associates, Inc.	Lab Number	: L1806385
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.001Y000
Matrix	: AIR		
LCS Sample ID	: WG1094275-3	Analysis Date	: 03/03/18 12:34
LCSD Sample ID	:	File ID	: R252709
		Analysis Date	:
		File ID	:

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Vinyl chloride	5	4.20	84				-	70-130	25
1,1-Dichloroethene	5	4.05	81				-	70-130	25
trans-1,2-Dichloroethene	5	4.10	82				-	70-130	25
1,1-Dichloroethane	5	4.13	83				-	70-130	25
cis-1,2-Dichloroethene	5	4.06	81				-	70-130	25
1,2-Dichloroethane	5	4.66	93				-	70-130	25
1,1,1-Trichloroethane	5	4.05	81				-	70-130	25
Trichloroethene	5	4.10	82				-	70-130	25
Tetrachloroethene	5	5.99	120				-	70-130	25

Method Blank Summary Form 4

Client	: Roux Associates, Inc.	Lab Number	: L1806385
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.001Y000
Lab Sample ID	: WG1094275-4	Lab File ID	: R252710
Instrument ID	: AIRPIANO2		
Matrix	: AIR	Analysis Date	: 03/03/18 13:38

Client Sample No.	Lab Sample ID	Analysis Date
WG1094275-3LCS	WG1094275-3	03/03/18 12:34
AMBIENT	L1806385-06	03/03/18 15:48
IA-DCF	L1806385-02	03/03/18 16:23
IA-DCR	L1806385-04	03/03/18 16:58
IA-DCRDUP	WG1094275-5	03/03/18 17:33
IA-WINE	L1806385-08	03/03/18 18:08
IA-YOGURT	L1806385-11	03/03/18 18:43



Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : Roux Associates, Inc.	Lab Number : L1806385
Project Name : OCEANSIDE PLAZA	Project Number : 1802.001Y000
Instrument ID : AIRPIANO2	Analysis Date : 02/07/18 13:53
Tune Standard : WG1087635-1	Tune File ID : R252402_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	30.9
75	30.0 - 66.0% of mass 95	59.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	73.2
175	4.0 - 9.0% of mass 174	6.1 (8.4)1
176	93.0 - 101% of mass 174	71.8 (98.1)1
177	5.0 - 9.0% of mass 176	4.5 (6.3)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 ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1045655-1	R252403	02/07/18 14:26
STD0.04	R1045655-2	R252404	02/07/18 14:59
STD0.1	R1045655-3	R252405	02/07/18 15:36
STD0.2	R1045655-5	R252406	02/07/18 16:09
STD0.5	R1045655-4	R252407	02/07/18 16:42
STD1.0	R1045655-7	R252408	02/07/18 17:18
STD5.0	R1045655-6	R252409	02/07/18 17:52
STD10.0	R1045655-9	R252410	02/07/18 18:28
STD20.0	R1045655-8	R252411	02/07/18 19:01
STD50.0	R1045655-10	R252412	02/07/18 19:35
ICV QUANT REPORT	R1045655-11	R252417	02/08/18 11:24



Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : Roux Associates, Inc.	Lab Number : L1806385
Project Name : OCEANSIDE PLAZA	Project Number : 1802.001Y000
Instrument ID : AIRPIANO2	Analysis Date : 03/03/18 11:24
Tune Standard : WG1094275-1	Tune File ID : R252707_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	24.1
75	30.0 - 66.0% of mass 95	55
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	84.7
175	4.0 - 9.0% of mass 174	6 (7.1)1
176	93.0 - 101% of mass 174	81.6 (96.3)1
177	5.0 - 9.0% of mass 176	5.3 (6.5)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 ID	Lab Sample ID	File ID	Analysis Date/Time
WG1094275-2CCAL	WG1094275-2	R252709	03/03/18 12:34
WG1094275-3LCS	WG1094275-3	R252709	03/03/18 12:34
WG1094275-4BLANK	WG1094275-4	R252710	03/03/18 13:38
AMBIENT	L1806385-06	R252712	03/03/18 15:48
IA-DCF	L1806385-02	R252713	03/03/18 16:23
IA-DCR	L1806385-04	R252714	03/03/18 16:58
WG1094275-5DUP	WG1094275-5	R252715	03/03/18 17:33
IA-WINE	L1806385-08	R252716	03/03/18 18:08
IA-YOGURT	L1806385-11	R252717	03/03/18 18:43

Internal Standard Area and RT Summary Form 8

Client : Roux Associates, Inc.
Project Name : OCEANSIDE PLAZA
Instrument ID : AIRPIANO2
Sample No : WG1094275-2

Lab Number : L1806385
Project Number : 1802.001Y000
Analysis Date : 03/03/18 12:34
Lab File ID : R252709

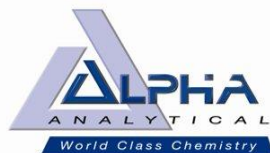
	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1094275-2	124535	10.54	265013	12.74	60697	17.05
Upper Limit	174349	10.87	371018	13.07	84976	17.38
Lower Limit	74721	10.21	159008	12.41	36418	16.72
Sample ID						
WG1094275-3 LCS	124535	10.54	265013	12.74	60697	17.05
WG1094275-4 BLANK	107665	10.54	209545	12.74	46536	17.05
AMBIENT	109280	10.54	210589	12.74	48804	17.05
IA-DCF	109106	10.54	209149	12.74	47451	17.05
IA-DCR	107092	10.54	202110	12.74	49998	17.05
IA-DCR DUP	107635	10.54	203631	12.74	49136	17.05
IA-WINE	106335	10.54	206971	12.74	48460	17.05
IA-YOGURT	106211	10.54	203972	12.74	47237	17.05

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





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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.02	0.006	ppbV	70-130	25		25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.02	0.006	ppbV	70-130	25		25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.02	0.007	ppbV	70-130	25		25	25			
1,1,2-Trichloroethane	79-00-5	0.02	0.004	ppbV	70-130	25		25	25			
1,1-Dichloroethane	75-34-3	0.02	0.007	ppbV	70-130	25		25	25			
1,1-Dichloroethene	75-35-4	0.02	0.007	ppbV	70-130	25		25	25			
1,2,4-Trimethylbenzene	95-63-6	0.02	0.007	ppbV	70-130	25		25	25			
1,2-Dibromoethane	106-93-4	0.02	0.008	ppbV	70-130	25		25	25			
1,2-Dichlorobenzene	95-50-1	0.02	0.006	ppbV	70-130	25		25	25			
1,2-Dichloroethane	107-06-2	0.02	0.005	ppbV	70-130	25		25	25			
1,2-Dichloropropane	78-87-5	0.02	0.008	ppbV	70-130	25		25	25			
1,3,5-Trimethylbenzene	108-67-8	0.02	0.005	ppbV	70-130	25		25	25			
1,3-Butadiene	106-99-0	0.02	0.007	ppbV	70-130	25		25	25			
1,3-Dichlorobenzene	541-73-1	0.02	0.006	ppbV	70-130	25		25	25			
1,4-Dichlorobenzene	106-46-7	0.02	0.008	ppbV	70-130	25		25	25			
1,4-Dioxane	123-91-1	0.1	0.014	ppbV	70-130	25		25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.027	ppbV	70-130	25		25	25			
2-Hexanone	591-78-6	0.2	0.03	ppbV	70-130	25		25	25			
3-Chloropropene	107-05-1	0.2	0.02	ppbV	70-130	25		25	25			
4-Ethyltoluene	622-96-8	0.02	0.01	ppbV	70-130	25		25	25			
Benzene	71-43-2	0.1	0.019	ppbV	70-130	25		25	25			
Benzyl chloride	100-44-7	0.2	0.037	ppbV	70-130	25		25	25			
Bromodichloromethane	75-27-4	0.02	0.008	ppbV	70-130	25		25	25			
Bromoform	75-25-2	0.02	0.015	ppbV	70-130	25		25	25			
Bromomethane	74-83-9	0.02	0.008	ppbV	70-130	25		25	25			
Carbon disulfide	75-15-0	0.2	0.063	ppbV	70-130	25		25	25			
Carbon tetrachloride	56-23-5	0.02	0.007	ppbV	70-130	25		25	25			
Chlorobenzene	108-90-7	0.1	0.007	ppbV	70-130	25		25	25			
Chloroethane	75-00-3	0.1	0.017	ppbV	70-130	25		25	25			
Chloroform	67-66-3	0.02	0.005	ppbV	70-130	25		25	25			
Chloromethane	74-87-3	0.2	0.048	ppbV	70-130	25		25	25			
cis-1,2-Dichloroethene	156-59-2	0.02	0.007	ppbV	70-130	25		25	25			
trans-1,2-Dichloroethene	156-60-5	0.02	0.006	ppbV	70-130	25		25	25			
1,2-Dichloroethene (total)	540-59-0	0.02	0.006	ppbV	70-130	25		25	25			
cis-1,3-Dichloropropene	10061-01-5	0.02	0.006	ppbV	70-130	25		25	25			
1,3-Dichloropropene (Total)	542-75-6	0.02	0.008	ppbV	70-130	25		25	25			
Cyclohexane	110-82-7	0.2	0.03	ppbV	70-130	25		25	25			
Dibromochloromethane	124-48-1	0.02	0.008	ppbV	70-130	25		25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0112	ppbV	70-130	25		25	25			
Ethyl Alcohol	GCDAl06	5	0.157	ppbV	70-130	25		25	25			
Ethyl Acetate	141-78-6	0.5	0.038	ppbV	70-130	25		25	25			
Ethylbenzene	100-41-4	0.02	0.007	ppbV	70-130	25		25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.05	0.0127	ppbV	70-130	25		25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.05	0.0116	ppbV	70-130	25		25	25			
Methylene chloride	75-09-2	0.5	0.25	ppbV	70-130	25		25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.006	ppbV	70-130	25		25	25			
Naphthalene	91-20-3	0.05	0.008	ppbV	70-130	25		25	25			
p/m-Xylene	179601-23-1	0.04	0.007	ppbV	70-130	25		25	25			
o-Xylene	95-47-6	0.02	0.008	ppbV	70-130	25		25	25			
Xylene (Total)	1330-20-7	0.02	0.007	ppbV	70-130	25		25	25			
Heptane	142-82-5	0.2	0.032	ppbV	70-130	25		25	25			
n-Hexane	110-54-3	0.2	0.033	ppbV	70-130	25		25	25			
Propylene	115-07-1	0.5	0.034	ppbV	70-130	25		25	25			
Styrene	100-42-5	0.02	0.007	ppbV	70-130	25		25	25			
Tetrachloroethene	127-18-4	0.02	0.008	ppbV	70-130	25		25	25			
Tetrahydrofuran	109-99-9	0.5	0.037	ppbV	70-130	25		25	25			
Toluene	108-88-3	0.05	0.006	ppbV	70-130	25		25	25			
trans-1,3-Dichloropropene	10061-02-6	0.02	0.008	ppbV	70-130	25		25	25			
Trichloroethene	79-01-6	0.02	0.007	ppbV	70-130	25		25	25			
1,2,4-Trichlorobenzene	120-82-1	0.05	0.01	ppbV	70-130	25		25	25			
Trichlorofluoromethane	75-69-4	0.05	0.0113	ppbV	70-130	25		25	25			
Vinyl acetate	108-05-4	1	0.027	ppbV	70-130	25		25	25			
Vinyl bromide	593-60-2	0.2	0.023	ppbV	70-130	25		25	25			
Hexachlorobutadiene	87-68-3	0.05	0.007	ppbV	70-130	25		25	25			
Iso-Propyl Alcohol	67-63-0	0.5	0.153	ppbV	70-130	25		25	25			
Vinyl chloride	75-01-4	0.02	0.006	ppbV	70-130	25		25	25			
Acrylonitrile	107-13-1	0.5	0.0248	ppbV	70-130	25		25	25			
n-Butylbenzene	104-51-8	0.2	0.008	ppbV	70-130	25		25	25			
sec-Butylbenzene	135-98-8	0.2	0.008	ppbV	70-130	25		25	25			
Isopropylbenzene	98-82-8	0.2	0.007	ppbV	70-130	25		25	25			
p-Isopropyltoluene	99-87-6	0.2	0.007	ppbV	70-130	25		25	25			
Acetone	67-64-1	1	0.366	ppbV	70-130	25		25	25			
2-Butanone	78-93-3	0.5	0.016	ppbV	70-130	25		25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.005	ppbV	70-130	25		25	25			
Halothane	151-67-7	0.05	0.008	ppbV	70-130	25		25	25			
1,2,3-Trichlorobenzene	87-61-6	0.05	0.019	ppbV	70-130	25		25	25			
1,2-Dichloroethane-d4	17060-07-0										70-130	
Toluene-d8	2037-26-5										70-130	
Bromofluorobenzene	460-00-4										70-130	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatiles Sample Data

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1806385-02
 Client ID : IA-DCF
 Sample Location : OCEANSIDE, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R252713
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:34
 Date Received : 02/23/18
 Date Analyzed : 03/03/18 16:23
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.031	0.020	--	0.210	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1806385-04
 Client ID : IA-DCR
 Sample Location : OCEANSIDE, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R252714
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:27
 Date Received : 02/23/18
 Date Analyzed : 03/03/18 16:58
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.033	0.020	--	0.224	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1806385-06
 Client ID : AMBIENT
 Sample Location : OCEANSIDE, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R252712
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:22
 Date Received : 02/23/18
 Date Analyzed : 03/03/18 15:48
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.028	0.020	--	0.190	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U



Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1806385-08
 Client ID : IA-WINE
 Sample Location : OCEANSIDE, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R252716
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:51
 Date Received : 02/23/18
 Date Analyzed : 03/03/18 18:08
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.070	0.020	--	0.475	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1806385-11
 Client ID : IA-YOGURT
 Sample Location : OCEANSIDE, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R252717
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:42
 Date Received : 02/23/18
 Date Analyzed : 03/03/18 18:43
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.054	0.020	--	0.366	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1094275-4
 Client ID : WG1094275-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R252710
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/03/18 13:38
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
75-34-3	1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
107-06-2	1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1094275-5
 Client ID : IA-DCRDUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R252715
 Sample Amount : 250 ml

Lab Number : L1806385
 Project Number : 1802.001Y000
 Date Collected : 02/22/18 18:27
 Date Received : 02/23/18
 Date Analyzed : 03/03/18 17:33
 Dilution Factor : 1
 Analyst : GJ
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.035	0.020	--	0.237	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
 Data File : R252712.D
 Acq On : 3 Mar 2018 3:48 pm
 Operator : AIRPIAN02:GJ
 Sample : L1806385-06,3,250,250
 Misc : WG1094275,ICAL14413
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 04 08:05:45 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303SIM\R252709.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.54	49	109280	10.000	ppbV	# 0.00
Standard Area = 124535			Recovery =		87.75%	
33) 1,4-difluorobenzene	12.74	114	210589	10.000	ppbV	0.00
Standard Area = 265013			Recovery =		79.46%	
51) chlorobenzene-D5	17.05	54	48804	10.000	ppbV	# 0.00
Standard Area = 60697			Recovery =		80.41%	

System Monitoring Compounds

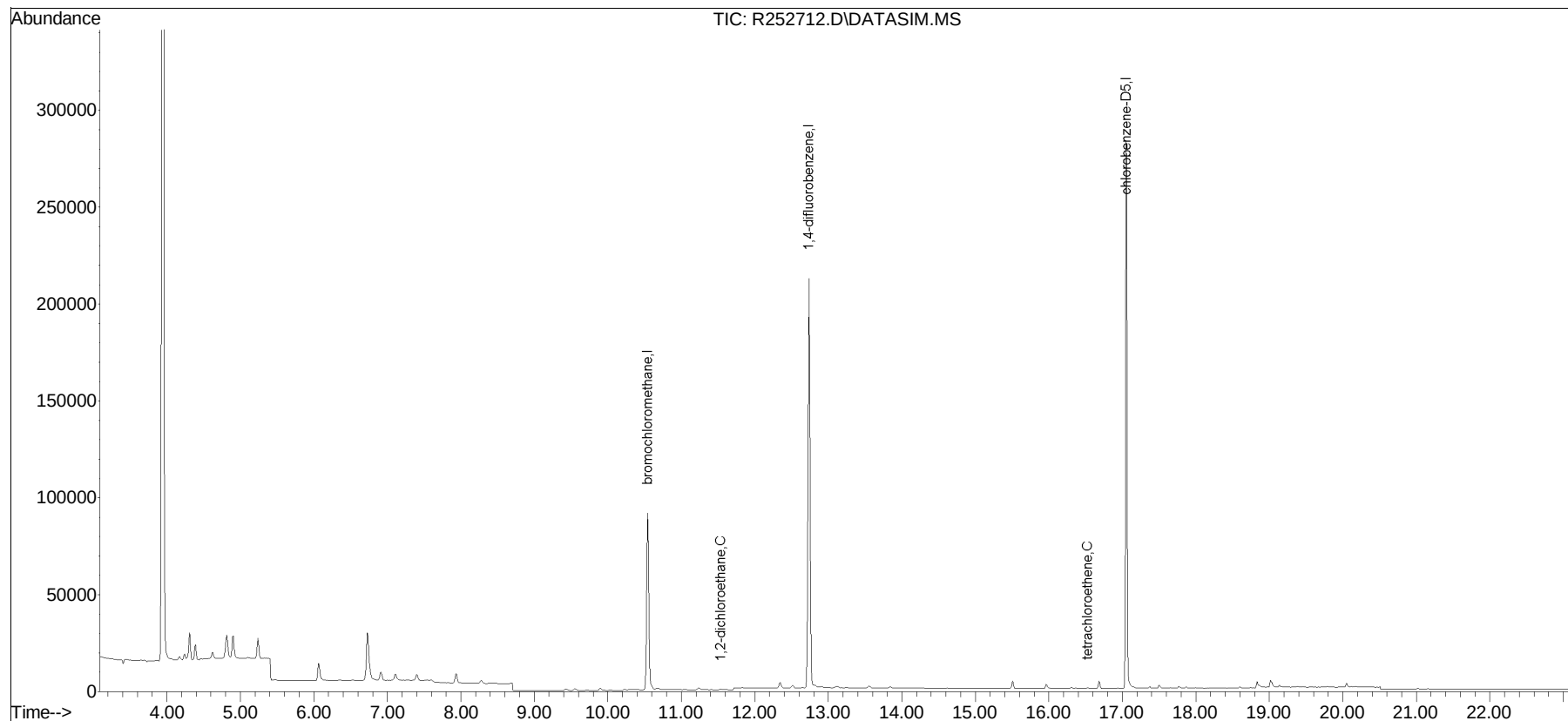
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.94		0		N.D.	
17) 1,1-dichloroethene	7.81		0		N.D.	
23) trans-1,2-dichloroethene	9.11		0		N.D.	
24) 1,1-dichloroethane	9.35		0		N.D.	
28) cis-1,2-dichloroethene	10.35		0		N.D.	
32) 1,2-dichloroethane	11.54	62	206	0.017	ppbV #	54
36) 1,1,1-trichloroethane	11.82		0		N.D.	
44) trichloroethene	13.53		0		N.D.	
57) tetrachloroethene	16.53	166	263	0.028	ppbV	93

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

Sub List : 9_Chlorinateds - .AIR2\2018\180303SIM\R252709.D

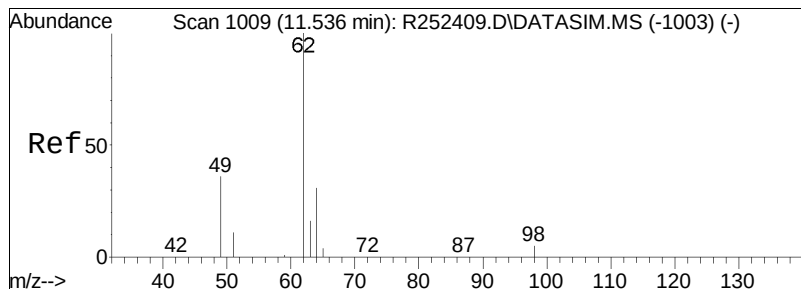
Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
Data File : R252712.D
Acq On : 3 Mar 2018 3:48 pm
Operator : AIRPIAN02:GJ
Sample : L1806385-06,3,250,250
Misc : WG1094275,ICAL14413
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 04 08:05:45 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:50:26 2018
Response via : Initial Calibration



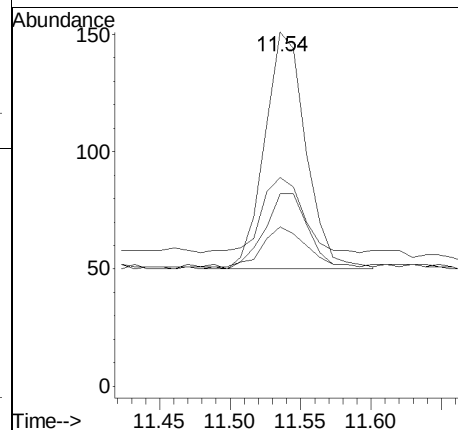
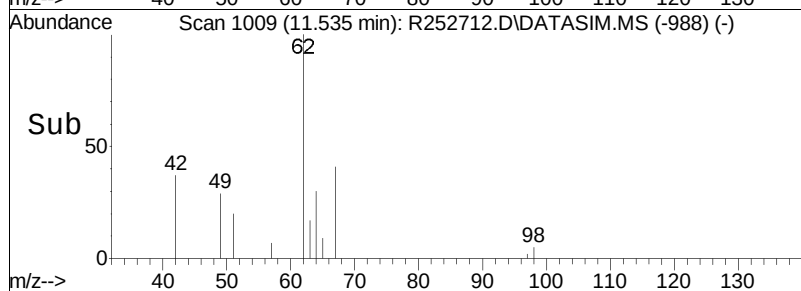
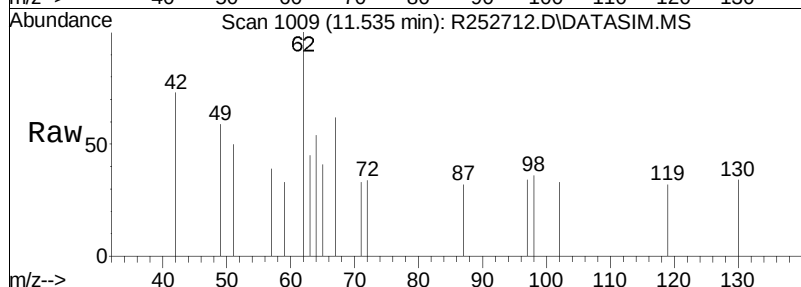
TSIM180207.M Sun Mar 04 15:29:41 2018

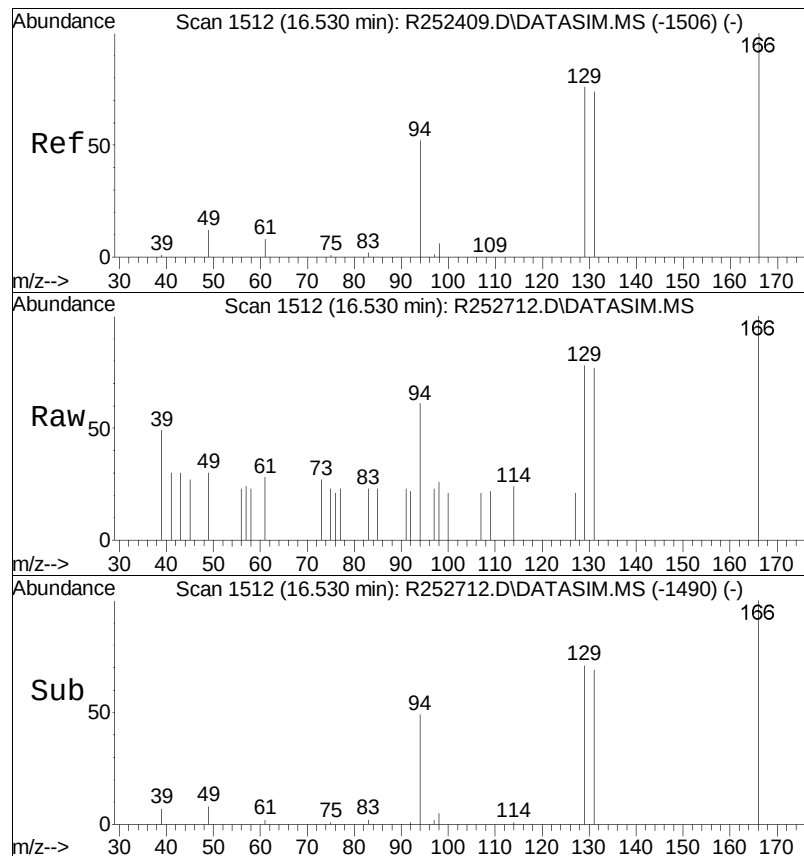
Page: 2



#32
 1,2-dichloroethane
 Concen: 0.02 ppbV
 RT: 11.54 min Scan# 1009
 Delta R.T. -0.000 min
 Lab File: R252712.D
 Acq: 3 Mar 2018 3:48 pm

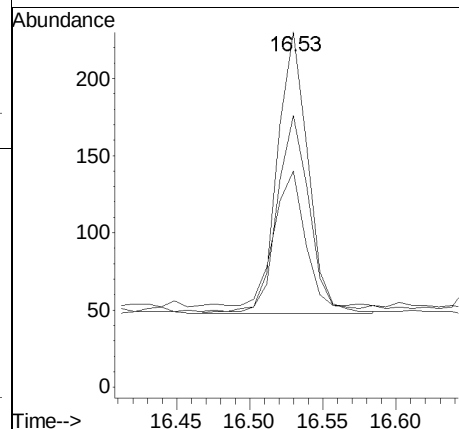
Tgt Ion:	62	Resp:	206
Ion Ratio	Lower	Upper	
62	100		
64	54.3	24.8	37.2#
49	58.9	28.7	43.1#
63	45.0	12.7	19.1#





#57
 tetrachloroethene
 Concen: 0.03 ppbV
 RT: 16.53 min Scan# 1512
 Delta R.T. -0.000 min
 Lab File: R252712.D
 Acq: 3 Mar 2018 3:48 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	76.5	59.0	88.6
94	60.9	41.8	62.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TSIM180207.M
Data File	: R252712.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 3:48 pm	Instrument	: Airpiano 2
Sample	: L1806385-06,3,250,250	Quant Date	: 3/4/2018 8:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
 Data File : R252713.D
 Acq On : 3 Mar 2018 4:23 pm
 Operator : AIRPIAN02:GJ
 Sample : L1806385-02,3,250,250
 Misc : WG1094275,ICAL14413
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 04 08:05:47 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303SIM\R252709.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.54	49	109106	10.000	ppbV	# 0.00
Standard Area = 124535			Recovery =		87.61%	
33) 1,4-difluorobenzene	12.74	114	209149	10.000	ppbV	0.00
Standard Area = 265013			Recovery =		78.92%	
51) chlorobenzene-D5	17.05	54	47451	10.000	ppbV	# 0.00
Standard Area = 60697			Recovery =		78.18%	

System Monitoring Compounds

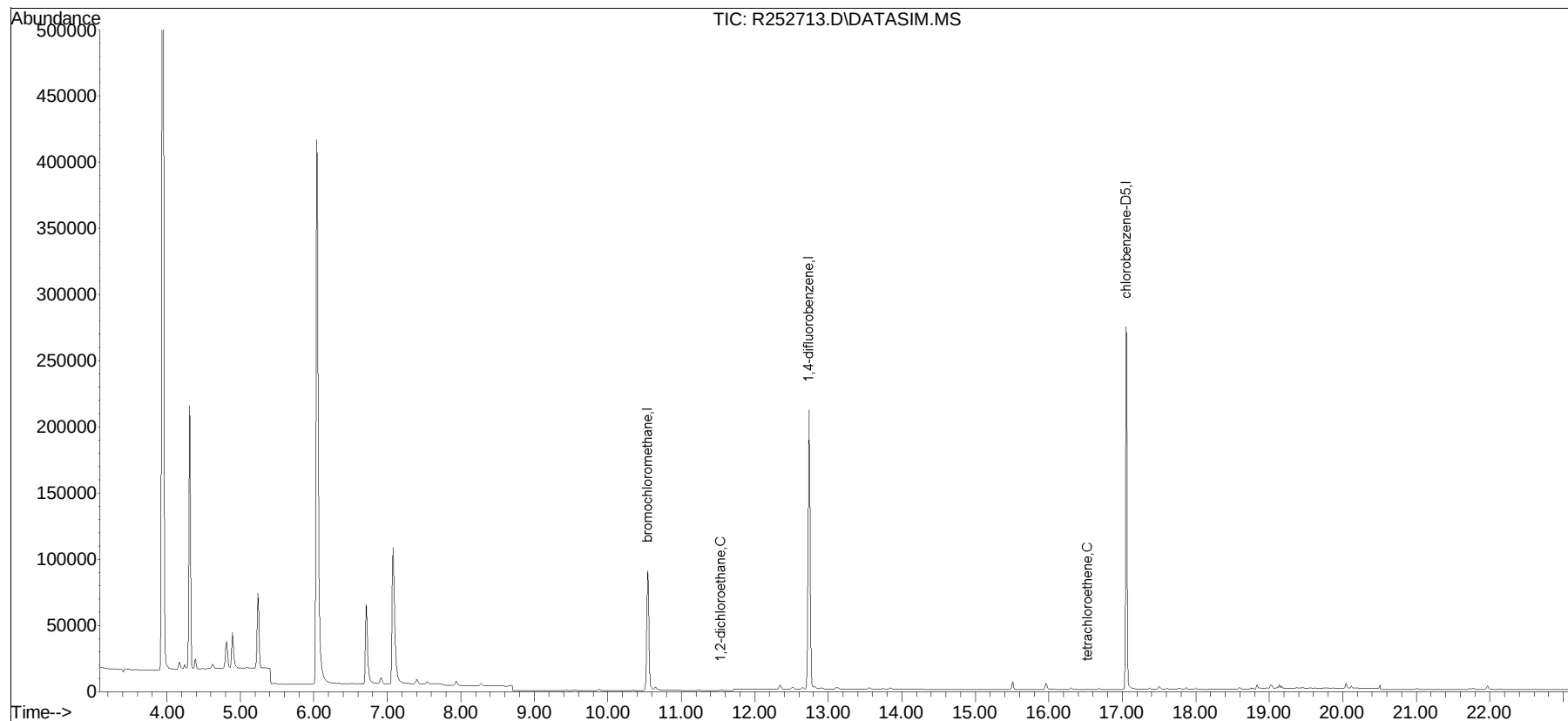
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.95		0		N.D.	
17) 1,1-dichloroethene	7.82		0		N.D.	
23) trans-1,2-dichloroethene	9.11		0		N.D.	
24) 1,1-dichloroethane	9.35		0		N.D.	
28) cis-1,2-dichloroethene	10.33		0		N.D.	
32) 1,2-dichloroethane	11.54	62	211	0.017	ppbV	# 56
36) 1,1,1-trichloroethane	11.83		0		N.D.	
44) trichloroethene	13.53		0		N.D.	
57) tetrachloroethene	16.53	166	277	0.031	ppbV	91

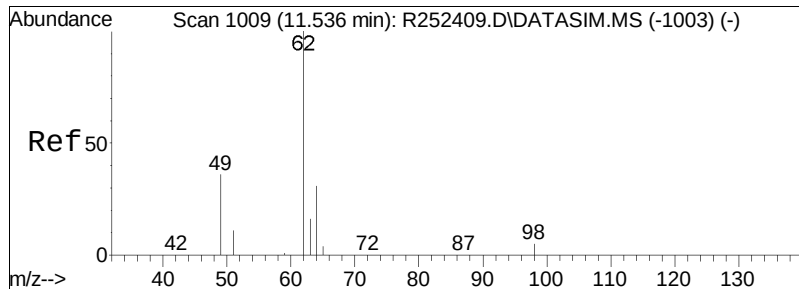
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 9_Chlorinateds - .AIR2\2018\180303SIM\R252709.D

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
Data File : R252713.D
Acq On : 3 Mar 2018 4:23 pm
Operator : AIRPIAN02:GJ
Sample : L1806385-02,3,250,250
Misc : WG1094275,ICAL14413
ALS Vial : 3 Sample Multiplier: 1

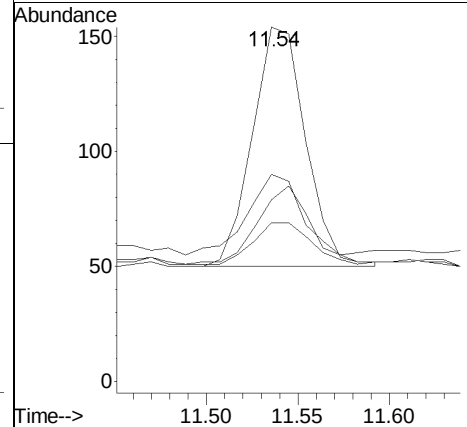
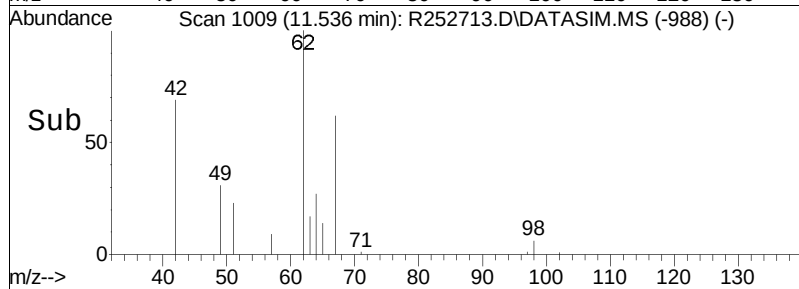
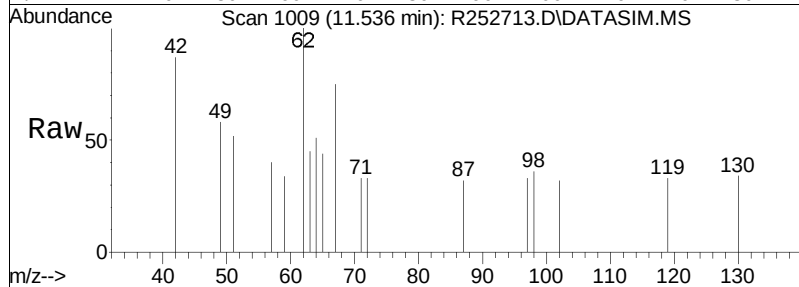
Quant Time: Mar 04 08:05:47 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:50:26 2018
Response via : Initial Calibration

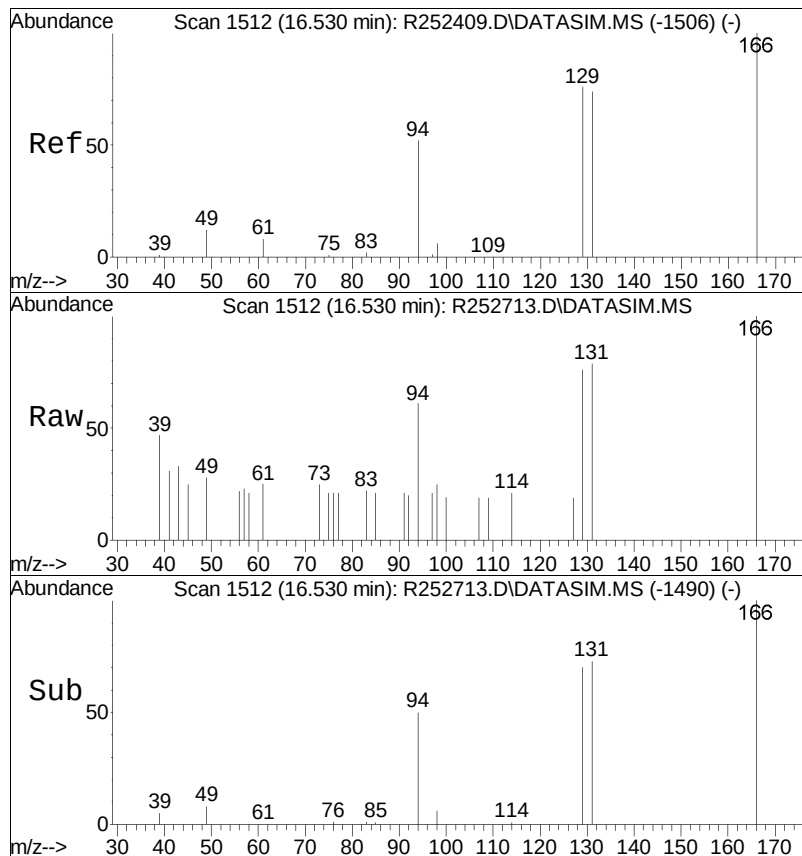




#32
 1,2-dichloroethane
 Concen: 0.02 ppbV
 RT: 11.54 min Scan# 1009
 Delta R.T. -0.000 min
 Lab File: R252713.D
 Acq: 3 Mar 2018 4:23 pm

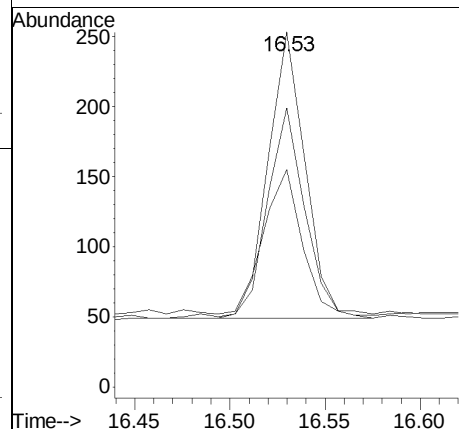
Tgt Ion	Ratio	Resp	Lower	Upper
62	100			
64	51.3	24.8	37.2#	
49	58.4	28.7	43.1#	
63	44.8	12.7	19.1#	





#57
 tetrachloroethene
 Concen: 0.03 ppbV
 RT: 16.53 min Scan# 1512
 Delta R.T. 0.000 min
 Lab File: R252713.D
 Acq: 3 Mar 2018 4:23 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	78.7	59.0	88.6
94	61.3	41.8	62.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TSIM180207.M
Data File	: R252713.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 4:23 pm	Instrument	: Airpiano 2
Sample	: L1806385-02,3,250,250	Quant Date	: 3/4/2018 8:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
 Data File : R252714.D
 Acq On : 3 Mar 2018 4:58 pm
 Operator : AIRPIAN02:GJ
 Sample : L1806385-04,3,250,250
 Misc : WG1094275,ICAL14413
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 04 15:25:49 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303SIM\R252709.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.54	49	107092	10.000	ppbV	# 0.00
Standard Area = 124535			Recovery =		85.99%	
33) 1,4-difluorobenzene	12.74	114	202110	10.000	ppbV	# 0.00
Standard Area = 265013			Recovery =		76.26%	
51) chlorobenzene-D5	17.05	54	49998	10.000	ppbV	# 0.00
Standard Area = 60697			Recovery =		82.37%	

System Monitoring Compounds

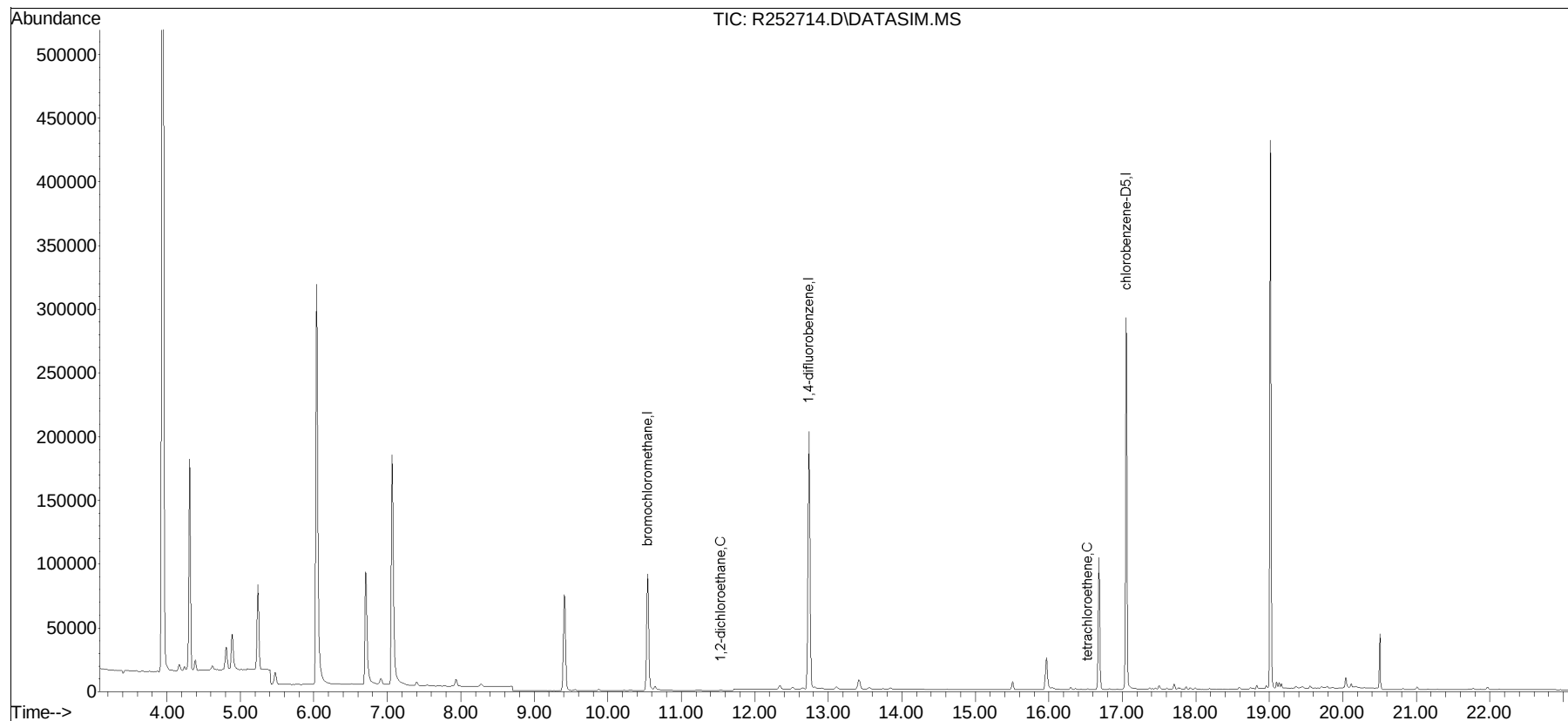
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.95		0		N.D.	
17) 1,1-dichloroethene	7.83		0		N.D.	
23) trans-1,2-dichloroethene	9.11		0		N.D.	
24) 1,1-dichloroethane	0.00		0		N.D.	d
28) cis-1,2-dichloroethene	10.35		0		N.D.	
32) 1,2-dichloroethane	11.54	62	214	0.018	ppbV #	56
36) 1,1,1-trichloroethane	11.82		0		N.D.	
44) trichloroethene	13.53		0		N.D.	
57) tetrachloroethene	16.53	166	313	0.033	ppbV	96

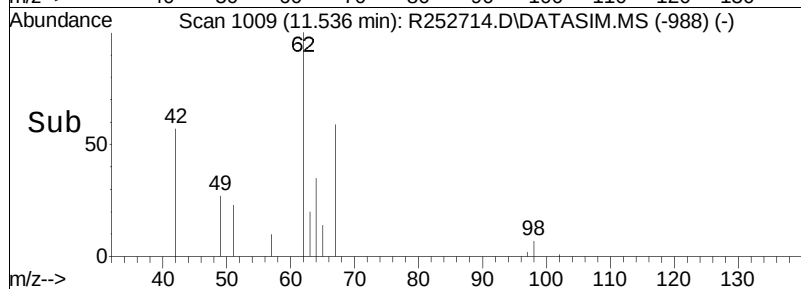
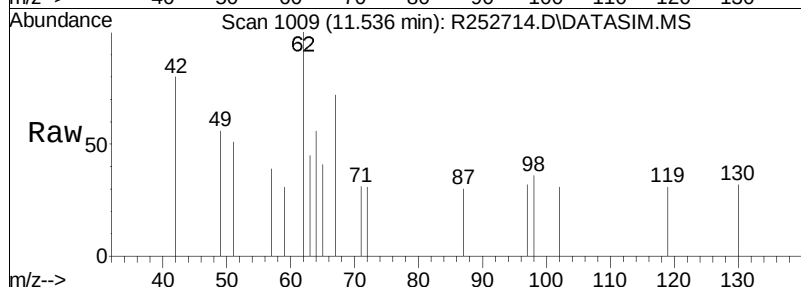
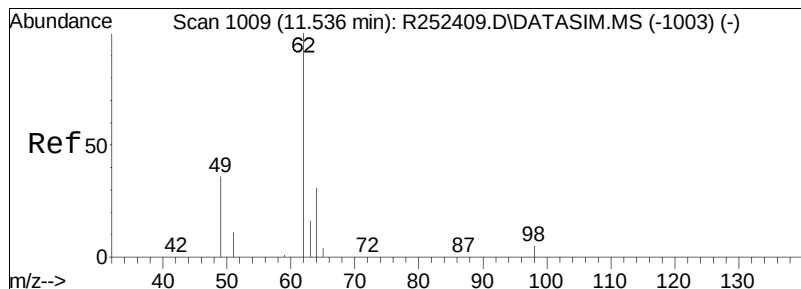
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 9_Chlorinateds - .AIR2\2018\180303SIM\R252709.D

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
Data File : R252714.D
Acq On : 3 Mar 2018 4:58 pm
Operator : AIRPIAN02:GJ
Sample : L1806385-04,3,250,250
Misc : WG1094275,ICAL14413
ALS Vial : 4 Sample Multiplier: 1

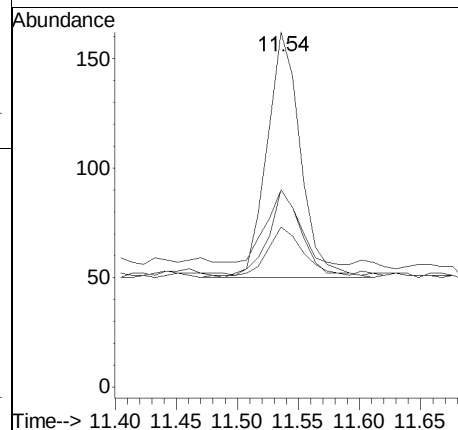
Quant Time: Mar 04 15:25:49 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:50:26 2018
Response via : Initial Calibration

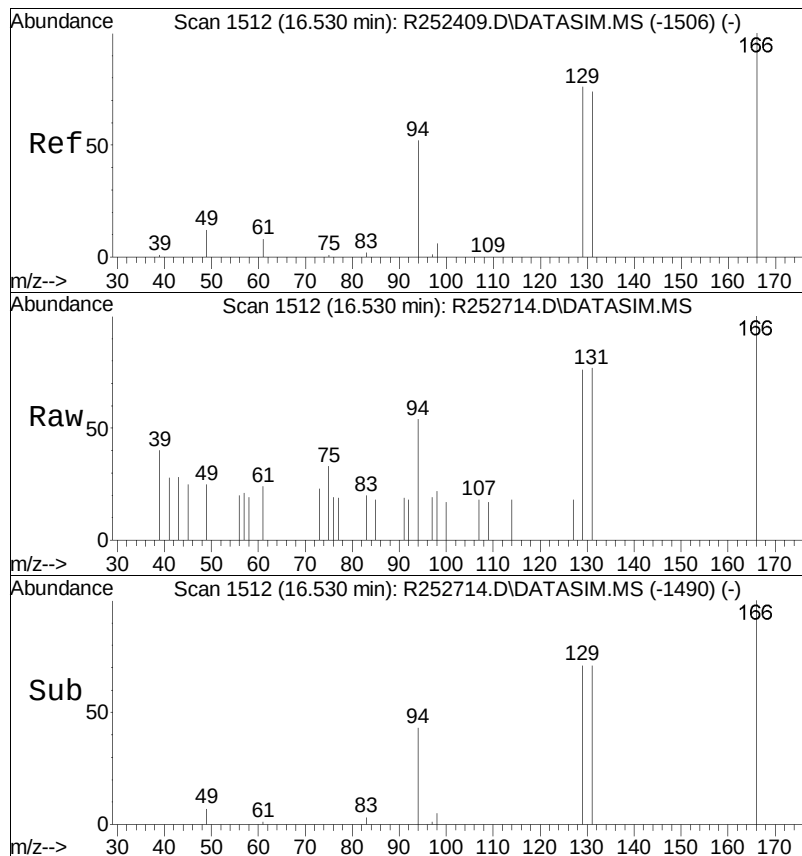




#32
 1,2-dichloroethane
 Concen: 0.02 ppbV
 RT: 11.54 min Scan# 1009
 Delta R.T. 0.000 min
 Lab File: R252714.D
 Acq: 3 Mar 2018 4:58 pm

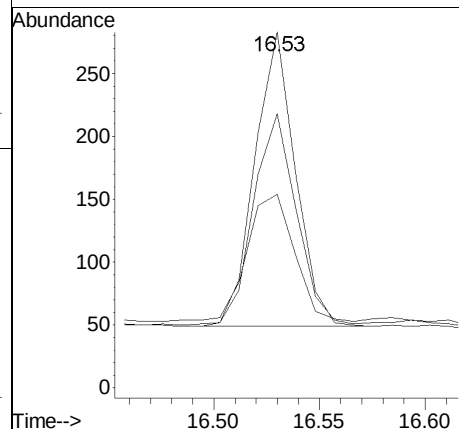
Tgt Ion:	62	Resp:	214
Ion Ratio	Lower	Upper	
62	100		
64	55.6	24.8	37.2#
49	55.6	28.7	43.1#
63	45.1	12.7	19.1#





#57
 tetrachloroethene
 Concen: 0.03 ppbV
 RT: 16.53 min Scan# 1512
 Delta R.T. 0.000 min
 Lab File: R252714.D
 Acq: 3 Mar 2018 4:58 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	77.0	59.0	88.6
94	54.4	41.8	62.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TSIM180207.M
Data File	: R252714.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 4:58 pm	Instrument	: Airpiano 2
Sample	: L1806385-04,3,250,250	Quant Date	: 3/4/2018 8:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
 Data File : R252716.D
 Acq On : 3 Mar 2018 6:08 pm
 Operator : AIRPIAN02:GJ
 Sample : L1806385-08,3,250,250
 Misc : WG1094275,ICAL14413
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 04 08:05:56 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303SIM\R252709.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.54	49	106335	10.000	ppbV	# 0.00
Standard Area = 124535			Recovery =		85.39%	
33) 1,4-difluorobenzene	12.74	114	206971	10.000	ppbV	# 0.00
Standard Area = 265013			Recovery =		78.10%	
51) chlorobenzene-D5	17.05	54	48460	10.000	ppbV	# 0.00
Standard Area = 60697			Recovery =		79.84%	

System Monitoring Compounds

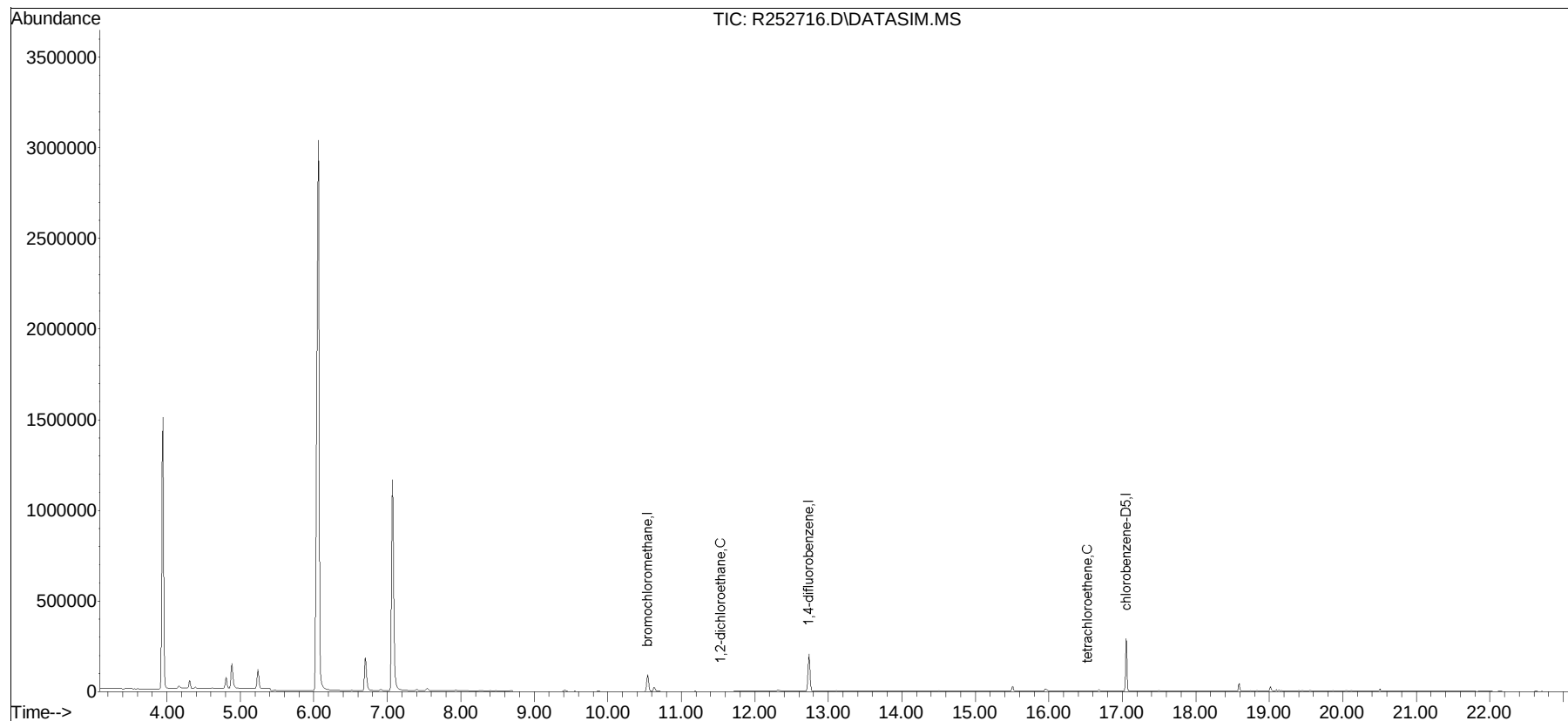
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.95		0		N.D.	
17) 1,1-dichloroethene	7.77		0		N.D.	
23) trans-1,2-dichloroethene	9.11		0		N.D.	
24) 1,1-dichloroethane	9.35		0		N.D.	
28) cis-1,2-dichloroethene	10.35		0		N.D.	
32) 1,2-dichloroethane	11.54	62	337	0.028	ppbV #	69
36) 1,1,1-trichloroethane	11.82		0		N.D.	
44) trichloroethene	13.53		0		N.D.	
57) tetrachloroethene	16.53	166	640	0.070	ppbV	97

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

Sub List : 9_Chlorinateds - .AIR2\2018\180303SIM\R252709.D

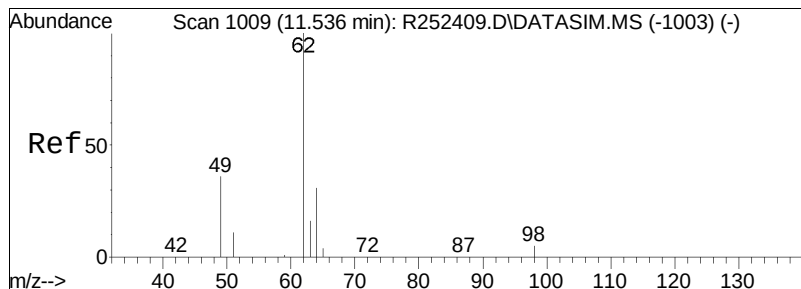
Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
Data File : R252716.D
Acq On : 3 Mar 2018 6:08 pm
Operator : AIRPIAN02:GJ
Sample : L1806385-08,3,250,250
Misc : WG1094275,ICAL14413
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 04 08:05:56 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:50:26 2018
Response via : Initial Calibration



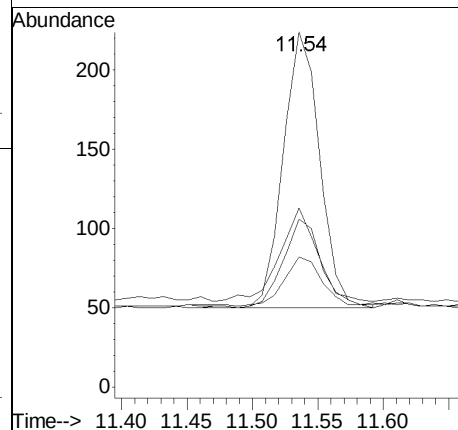
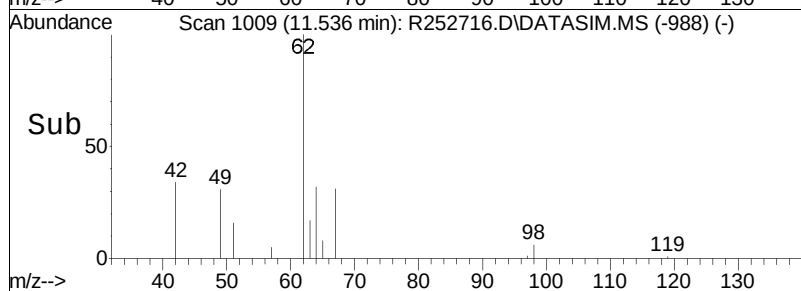
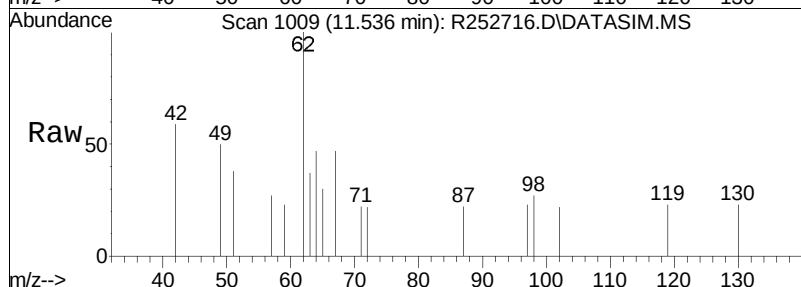
TSIM180207.M Sun Mar 04 15:29:57 2018

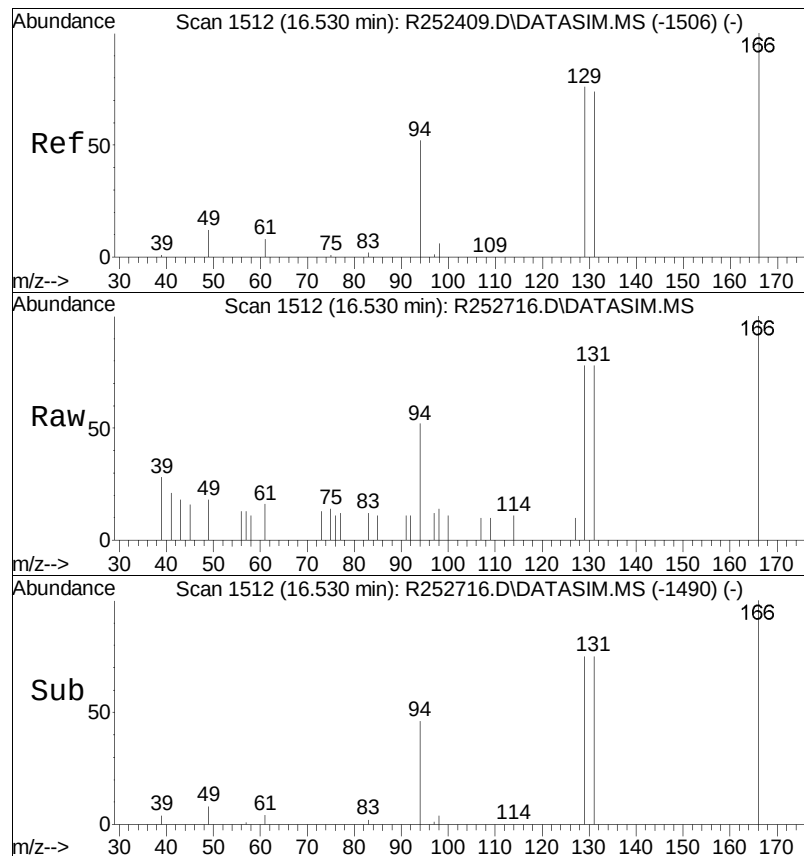
Page: 2



#32
 1,2-dichloroethane
 Concen: 0.03 ppbV
 RT: 11.54 min Scan# 1009
 Delta R.T. 0.000 min
 Lab File: R252716.D
 Acq: 3 Mar 2018 6:08 pm

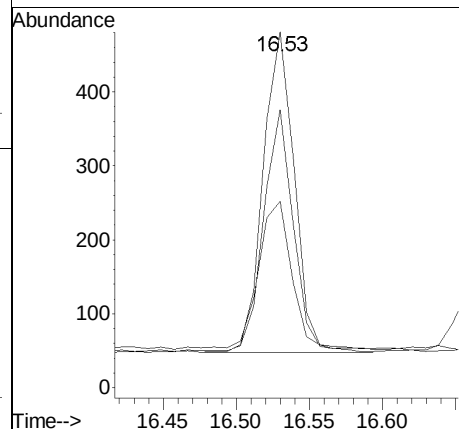
Tgt Ion:	62	Resp:	337
Ion Ratio	Lower	Upper	
62	100		
64	47.3	24.8	37.2#
49	50.4	28.7	43.1#
63	36.6	12.7	19.1#





#57
 tetrachloroethene
 Concen: 0.07 ppbV
 RT: 16.53 min Scan# 1512
 Delta R.T. 0.000 min
 Lab File: R252716.D
 Acq: 3 Mar 2018 6:08 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	78.2	59.0	88.6
94	52.4	41.8	62.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TSIM180207.M
Data File	: R252716.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 6:08 pm	Instrument	: Airpiano 2
Sample	: L1806385-08,3,250,250	Quant Date	: 3/4/2018 8:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
 Data File : R252717.D
 Acq On : 3 Mar 2018 6:43 pm
 Operator : AIRPIAN02:GJ
 Sample : L1806385-11,3,250,250
 Misc : WG1094275,ICAL14413
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 04 15:27:59 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303SIM\R252709.D
 Sub List : 9_Chlorinateds - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.54	49	106211	10.000	ppbV	# 0.00
Standard Area = 124535			Recovery =		85.29%	
33) 1,4-difluorobenzene	12.74	114	203972	10.000	ppbV	# 0.00
Standard Area = 265013			Recovery =		76.97%	
51) chlorobenzene-D5	17.05	54	47237	10.000	ppbV	# 0.00
Standard Area = 60697			Recovery =		77.82%	

System Monitoring Compounds

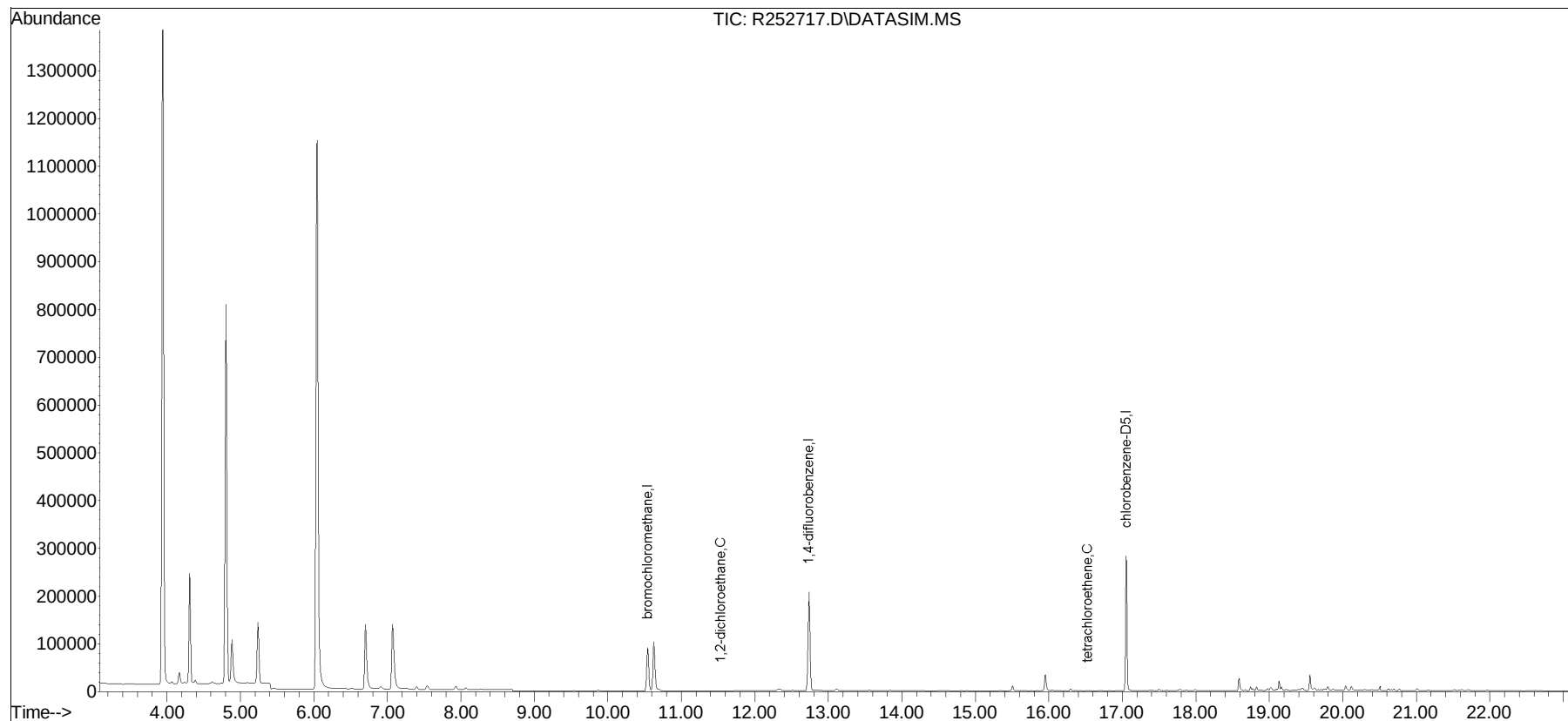
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.95		0	N.D.		
17) 1,1-dichloroethene	0.00		0	N.D.	d	
23) trans-1,2-dichloroethene	9.11		0	N.D.		
24) 1,1-dichloroethane	9.35		0	N.D.		
28) cis-1,2-dichloroethene	10.32		0	N.D.		
32) 1,2-dichloroethane	11.54	62	232	0.020	ppbV #	55
36) 1,1,1-trichloroethane	11.82		0	N.D.		
44) trichloroethene	13.53		0	N.D.		
57) tetrachloroethene	16.53	166	483	0.054	ppbV	98

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

Sub List : 9_Chlorinateds - .AIR2\2018\180303SIM\R252709.D

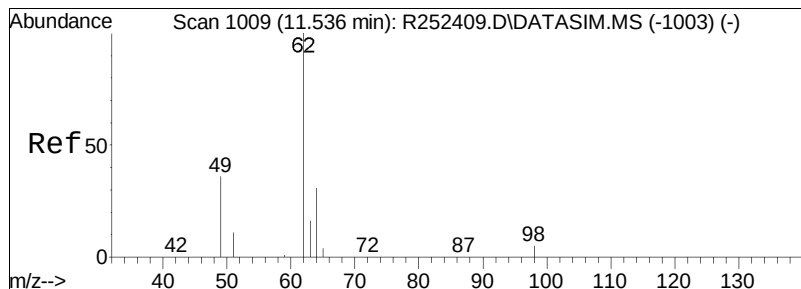
Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
Data File : R252717.D
Acq On : 3 Mar 2018 6:43 pm
Operator : AIRPIAN02:GJ
Sample : L1806385-11,3,250,250
Misc : WG1094275,ICAL14413
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 04 15:27:59 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:50:26 2018
Response via : Initial Calibration



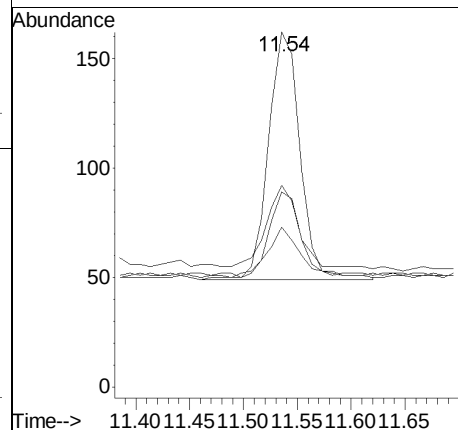
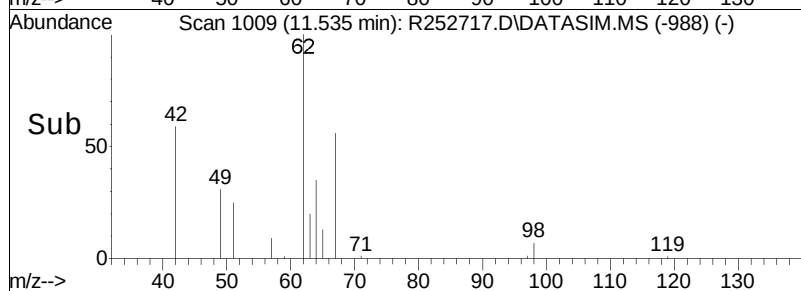
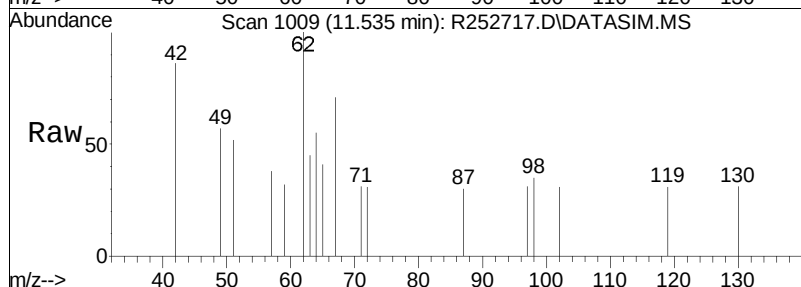
TSIM180207.M Sun Mar 04 15:30:01 2018

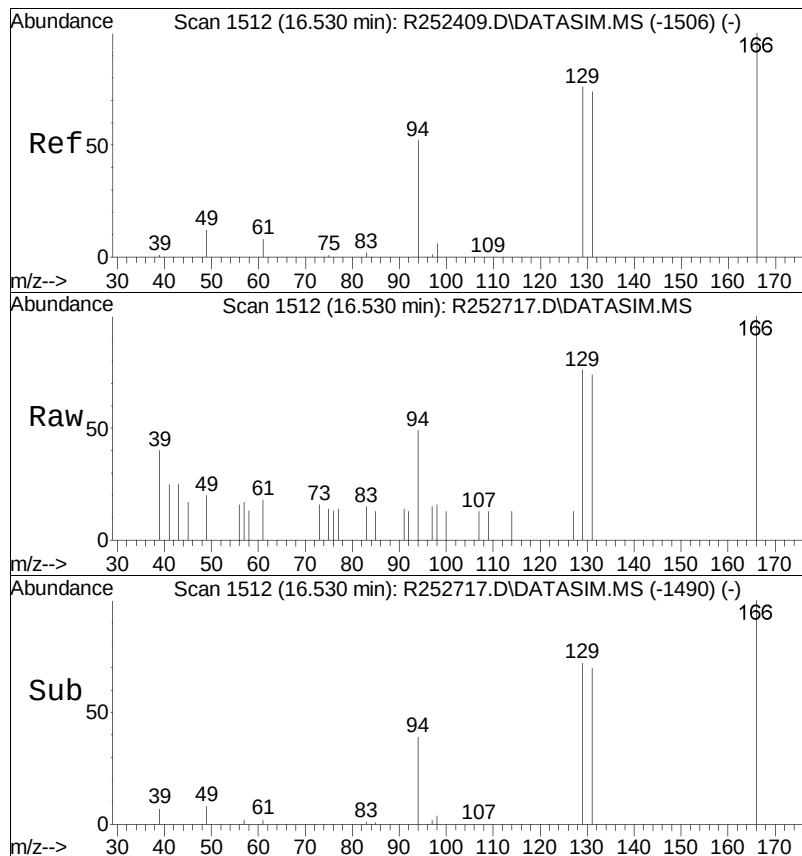
Page: 2



#32
 1,2-dichloroethane
 Concen: 0.02 ppbV
 RT: 11.54 min Scan# 1009
 Delta R.T. -0.000 min
 Lab File: R252717.D
 Acq: 3 Mar 2018 6:43 pm

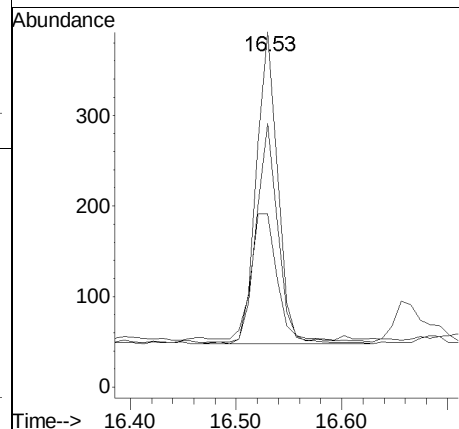
Tgt Ion:	62	Resp:	232
Ion Ratio	Lower	Upper	
62	100		
64	54.9	24.8	37.2#
49	56.8	28.7	43.1#
63	45.1	12.7	19.1#





#57
 tetrachloroethene
 Concen: 0.05 ppbV
 RT: 16.53 min Scan# 1512
 Delta R.T. -0.000 min
 Lab File: R252717.D
 Acq: 3 Mar 2018 6:43 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	74.2	59.0	88.6
94	48.7	41.8	62.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TSIM180207.M
Data File	: R252717.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 6:43 pm	Instrument	: Airpiano 2
Sample	: L1806385-11,3,250,250	Quant Date	: 3/4/2018 8:05 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRPIANO2
 Calibration dates : 02/07/18 14:26 02/07/18 19:35

Lab Number : L1806385
 Project Number : 1802.001Y000
 Ical Ref : ICAL14413

Calibration Files

0.02=R252403.D 0.04=R252404.D 0.1 =R252405.D 0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D
 5.0 =R252409.D 10.0=R252410.D 20.0=R252411.D 50.0=R252412.D

Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1) I bromochloromethane	-----ISTD-----											
2) propylene				0.606	0.591	0.592	0.582	0.536	0.538	0.669	0.5876	7.65
3) dichlorodifluoromethane		0.488	0.505	0.638	0.564	0.519	0.434	0.383	0.415	0.494	0.4933	15.80
4) C chloromethane		0.930	0.879	0.950	0.899	0.867	0.805	0.677	0.657	0.745	0.8231	13.14
5) Freon-114	1.379	1.319	1.534	1.764	1.546	1.588	1.120	0.990	0.842	0.809	1.2893	25.83
6) C vinyl chloride	0.923	0.811	0.811	0.902	0.848	0.838	0.789	0.697	0.670	0.723	0.8013	10.45
7) C 1,3-butadiene	0.585	0.543	0.526	0.592	0.572	0.564	0.555	0.497	0.480	0.505	0.5420	7.13
8) C bromomethane	0.726	0.648	0.583	0.680	0.647	0.630	0.590	0.540	0.518	0.524	0.6086	11.42
9) C chloroethane	0.442	0.465	0.409	0.455	0.418	0.403	0.377	0.348	0.324	0.316	0.3956	13.39
10) ethanol					0.794	0.715	0.683	0.647	0.633	0.570	0.6736	11.37
11) C vinyl bromide	0.591	0.543	0.535	0.598	0.564	0.555	0.536	0.514	0.501	0.468	0.5404	7.36
12) C acrolein	0.585	0.394	0.338	0.348	0.322	0.317	0.308	0.304	0.296	0.263	0.3476	26.04
13) acetone			1.518	1.387	1.270	1.218	1.082	1.046	1.076	0.933	1.1912	16.33
14) trichlorofluoromethane	1.866	1.747	1.674	1.890	1.769	1.735	1.635	1.569	1.568	1.434	1.6887	8.40
15) isopropyl alcohol				1.819	1.457	1.288	1.100	1.086	1.162	1.015	1.2751	22.09
16) C acrylonitrile			0.607	0.646	0.589	0.585	0.581	0.577	0.569	0.491	0.5807	7.51
17) C 1,1-dichloroethene	1.461	1.383	1.331	1.507	1.415	1.380	1.317	1.281	1.295	1.122	1.3490	7.97
18) tertiary butyl alcohol				1.197	1.132	1.089	1.058	1.085	1.175	1.078	1.1163	4.74
19) C methylene chloride					1.270	1.242	1.128	1.093	1.089	0.924	1.1244	11.08
20) C 3-chloropropene	1.334	1.143	1.112	1.290	1.221	1.191	1.159	1.151	1.172	0.996	1.1767	7.94
21) C carbon disulfide		2.080	1.937	2.189	2.102	2.065	1.992	1.988	2.064	1.843	2.0288	5.00
22) Freon 113	1.345	1.270	1.247	1.408	1.327	1.293	1.230	1.216	1.252	1.127	1.2715	6.11
23) trans-1,2-dichloroethene	1.309	1.238	1.177	1.348	1.275	1.254	1.194	1.181	1.235	1.077	1.2288	6.23
24) C 1,1-dichloroethane	1.649	1.566	1.520	1.741	1.637	1.595	1.499	1.477	1.519	1.330	1.5533	7.24
25) C MTBE	1.576	1.480	1.414	1.628	1.548	1.514	1.496	1.527	1.659	1.540	1.5381	4.63
26) C vinyl acetate				1.368	1.315	1.354	1.600	1.760	2.050	1.909	1.6224	18.08
27) C 2-butanone				2.182	2.035	1.994	1.964	1.975	2.094	1.869	2.0159	4.98
28) cis-1,2-dichloroethene	1.058	0.966	0.913	1.342	1.252	1.218	1.170	1.147	1.207	1.113	1.1385	11.51
29) Ethyl Acetate				0.170	0.166	0.176	0.201	0.216	0.248	0.247	0.2035	17.17
30) C chloroform	1.500	1.400	1.325	1.537	1.449	1.422	1.373	1.352	1.451	1.385	1.4193	4.65
31) Tetrahydrofuran				0.851	0.855	0.867	0.863	0.921	1.026	0.997	0.9116	7.95
32) C 1,2-dichloroethane	1.210	1.161	1.081	1.202	1.131	1.109	1.068	1.047	1.098	1.038	1.1145	5.45
33) I 1,4-difluorobenzene	-----ISTD-----											
34) C hexane			0.554	0.727	0.648	0.653	0.718	0.712	0.794	0.740	0.6933	10.54
35) s 1,2-dichloroethane-D4	0.408	0.411	0.413	0.415	0.404	0.411	0.397	0.396	0.389	0.386	0.4028	2.59
36) C 1,1,1-trichloroethane	0.845	0.789	0.762	0.934	0.845	0.827	0.807	0.780	0.854	0.812	0.8256	5.88
37) C benzene		1.207	1.094	1.337	1.213	1.211	1.242	1.211	1.312	1.231	1.2285	5.63
38) C carbon tetrachloride	0.797	0.777	0.760	0.930	0.843	0.836	0.824	0.796	0.873	0.840	0.8276	5.98



Initial Calibration Summary

Form 6

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRPIANO2
 Calibration dates : 02/07/18 14:26 02/07/18 19:35

Lab Number : L1806385
 Project Number : 1802.001Y000
 Ical Ref : ICAL14413

Calibration Files

0.02=R252403.D 0.04=R252404.D 0.1 =R252405.D 0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D
 5.0 =R252409.D 10.0=R252410.D 20.0=R252411.D 50.0=R252412.D

Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
39) cyclohexane			0.544	0.668	0.641	0.648	0.710	0.699	0.776	0.729	0.6769	10.27
40) dibromomethane	0.776	0.623	0.506	0.581	0.510	0.498	0.486	0.470	0.513	0.498	0.5461	17.06
41) C 1,2-dichloropropane	0.605	0.534	0.500	0.622	0.563	0.559	0.563	0.544	0.604	0.573	0.5667	6.45
42) bromodichloromethane	1.001	0.919	0.913	1.118	0.982	0.993	0.983	0.953	1.041	1.000	0.9905	5.99
43) C 1,4-dioxane			0.158	0.196	0.187	0.193	0.226	0.233	0.277	0.280	0.2187	19.95
44) C trichloroethene	0.512	0.455	0.433	0.526	0.473	0.460	0.473	0.469	0.521	0.504	0.4826	6.46
45) C 2,2,4-trimethylpentane			1.755	2.174	2.082	2.171	2.394	2.344	2.583	2.444	2.2434	11.46
46) heptane			0.719	0.923	0.901	0.932	1.035	1.027	1.136	1.063	0.9669	13.26
47) C cis-1,3-dichloropropene	0.586	0.557	0.528	0.669	0.609	0.625	0.694	0.706	0.800	0.766	0.6540	13.56
48) C 4-methyl-2-pentanone			1.043	0.996	1.077	1.350	1.404	1.602	1.535	1.2867	19.21	
49) trans-1,3-dichloropropene	0.579	0.524	0.494	0.647	0.596	0.611	0.699	0.716	0.816	0.787	0.6470	16.51
50) C 1,1,2-trichloroethane	0.484	0.472	0.441	0.549	0.500	0.496	0.492	0.479	0.516	0.489	0.4917	5.72
51) I chlorobenzene-D5	-----ISTD-----											
52) C toluene	4.291	3.944	4.697	4.360	4.370	4.577	4.598	5.063	4.732	4.5148	7.06	
53) s toluene-D8	2.748	2.836	2.772	2.754	2.773	2.792	2.740	2.843	2.816	2.823	2.7897	1.36
54) 2-hexanone	5.158	3.136	2.608	3.214	3.219	3.409	4.310	4.517	5.210	5.044	3.9827	24.42
55) dibromochloromethane	2.378	2.216	2.124	2.673	2.478	2.487	2.610	2.610	2.886	2.833	2.5295	9.70
56) C 1,2-dibromoethane	2.269	2.122	2.045	2.529	2.369	2.348	2.476	2.458	2.668	2.572	2.3856	8.26
57) C tetrachloroethene	1.855	1.671	1.604	2.017	1.862	1.845	1.910	1.916	2.125	2.118	1.8923	8.94
58) 1,1,1,2-tetrachloroethane	1.794	1.734	1.582	1.944	1.807	1.794	1.834	1.822	1.985	1.954	1.8251	6.48
59) C chlorobenzene	3.911	3.421	3.144	3.829	3.550	3.498	3.622	3.576	3.878	3.723	3.6153	6.48
60) C ethylbenzene	4.884	4.166	3.893	5.030	4.842	5.131	5.932	6.001	6.472	6.149	5.2500	16.45
61) C m+p-xylene	3.598	3.085	2.906	3.878	3.967	4.205	4.813	4.854	5.224	5.083	4.1612	19.71
62) C bromoform	1.977	1.850	1.761	2.276	2.145	2.175	2.398	2.455	2.755	2.843	2.2633	15.86
63) C styrene	2.397	2.022	1.897	2.562	2.570	2.769	3.347	3.400	3.697	3.525	2.8186	22.68
64) C 1,1,2,2-tetrachloroethane	3.595	3.174	3.048	3.915	3.849	3.950	4.228	4.215	4.614	4.604	3.9191	13.61
65) C o-xylene	3.680	3.240	3.012	3.952	4.019	4.297	4.945	4.997	5.511	5.475	4.3128	20.62
66) 1,2,3-trichloropropane	2.841	2.595	2.483	3.210	3.146	3.151	3.230	3.166	3.368	3.243	3.0433	9.81
67) s bromofluorobenzene	1.073	1.629	1.304	1.311	1.519	1.497	1.581	1.528	1.502	1.535	1.4478	11.62
68) C isopropylbenzene			4.939	4.892	5.116	5.770	5.753	6.175	6.014	5.5226	9.60	
69) bromobenzene	3.826	3.121	2.720	3.540	3.378	3.408	3.625	3.608	3.862	3.837	3.4925	10.26
70) 4-ethyl toluene	3.771	3.177	3.145	4.491	4.887	5.353	6.269	6.282	6.766	6.702	5.0843	27.71
71) 1,3,5-trimethylbenzene	3.777	3.152	2.882	4.043	4.163	4.600	5.295	5.257	5.668	5.733	4.4571	22.88
72) tert-butylbenzene			3.982	4.221	4.633	5.321	5.310	5.795	6.041	5.0433	15.52	
73) 1,2,4-trimethylbenzene	3.680	2.877	2.723	3.826	4.103	4.544	5.433	5.494	6.066	6.422	4.5167	28.66
74) C Benzyl Chloride			2.990	2.781	2.979	4.129	4.378	5.034	5.526	3.9740	27.37	
75) 1,3-dichlorobenzene	3.838	2.811	2.481	3.333	3.412	3.499	3.805	3.779	4.102	4.344	3.5404	16.01
76) C 1,4-dichlorobenzene	4.440	2.920	2.656	3.523	3.461	3.561	3.887	3.895	4.197	4.662	3.7202	16.99



Initial Calibration Summary

Form 6

Client : Roux Associates, Inc.
Project Name : OCEANSIDE PLAZA
Instrument ID : AIRPIANO2
Calibration dates : 02/07/18 14:26 02/07/18 19:35

Lab Number : L1806385
Project Number : 1802.001Y000
Ical Ref : ICAL14413

Calibration Files

0.02=R252403.D 0.04=R252404.D 0.1 =R252405.D 0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D
 5.0 =R252409.D 10.0=R252410.D 20.0=R252411.D 50.0=R252412.D

Compound		0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
77)	sec-butylbenzene				5.539	5.938	6.549	7.639	7.677	8.273	8.779	7.1991	16.86
78)	p-isopropyltoluene				4.244	4.538	5.135	6.304	6.341	6.817	7.312	5.8131	20.26
79)	1,2-dichlorobenzene	3.966	2.761	2.435	3.210	3.134	3.233	3.542	3.538	3.780	4.104	3.3702	15.53
80)	n-butylbenzene				4.547	4.998	5.607	6.882	6.860	7.146	7.662	6.2432	19.01
81) C	1,2,4-trichlorobenzene	2.282	1.744	2.322	2.452	2.596	3.299	3.419	3.602	4.642	2.9287		30.29#
82)	naphthalene	5.018	3.387	4.386	4.730	5.054	6.780	7.108	7.194	8.714	5.8189		29.29
83)	1,2,3-trichlorobenzene	2.266	1.586	2.102	2.219	2.305	3.050	3.196	3.243	4.151	2.6797		29.32
84) C	hexachlorobutadiene	1.950	1.680	2.131	2.109	2.198	2.671	2.817	2.970	3.929	2.4950		27.43



Response Factor Report Airpiano 2

Method Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Method File : TSIM180207.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Thu Feb 08 09:50:26 2018
 Response Via : Initial Calibration

Calibration Files

0.02=R252403.D 0.04=R252404.D 0.1 =R252405.D 0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D
 5.0 =R252409.D 10.0=R252410.D 20.0=R252411.D 50.0=R252412.D

Compound		0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
-----		-----											
1) I	bromochloromethane	-----ISTD-----											
2)	propylene				0.606	0.591	0.592	0.582	0.536	0.538	0.669	0.5876	7.65
3)	dichlorodifluorome...	0.488	0.505	0.638	0.564	0.519	0.434	0.383	0.415	0.494	0.4933	15.80	
4) C	chloromethane	0.930	0.879	0.950	0.899	0.867	0.805	0.677	0.657	0.745	0.8231	13.14	
5)	Freon-114	1.379	1.319	1.534	1.764	1.546	1.588	1.120	0.990	0.842	0.809	1.2893	25.83
6) C	vinyl chloride	0.923	0.811	0.811	0.902	0.848	0.838	0.789	0.697	0.670	0.723	0.8013	10.45
7) C	1,3-butadiene	0.585	0.543	0.526	0.592	0.572	0.564	0.555	0.497	0.480	0.505	0.5420	7.13
8) C	bromomethane	0.726	0.648	0.583	0.680	0.647	0.630	0.590	0.540	0.518	0.524	0.6086	11.42
9) C	chloroethane	0.442	0.465	0.409	0.455	0.418	0.403	0.377	0.348	0.324	0.316	0.3956	13.39
10)	ethanol					0.794	0.715	0.683	0.647	0.633	0.570	0.6736	11.37
11) C	vinyl bromide	0.591	0.543	0.535	0.598	0.564	0.555	0.536	0.514	0.501	0.468	0.5404	7.36
12) C	acrolein	0.585	0.394	0.338	0.348	0.322	0.317	0.308	0.304	0.296	0.263	0.3476	26.04
13)	acetone			1.518	1.387	1.270	1.218	1.082	1.046	1.076	0.933	1.1912	16.33
14)	trichlorofluoromet...	1.866	1.747	1.674	1.890	1.769	1.735	1.635	1.569	1.568	1.434	1.6887	8.40
15)	isopropyl alcohol				1.819	1.457	1.288	1.100	1.086	1.162	1.015	1.2751	22.09
16) C	acrylonitrile			0.607	0.646	0.589	0.585	0.581	0.577	0.569	0.491	0.5807	7.51
17) C	1,1-dichloroethene	1.461	1.383	1.331	1.507	1.415	1.380	1.317	1.281	1.295	1.122	1.3490	7.97
18)	tertiary butyl alc...				1.197	1.132	1.089	1.058	1.085	1.175	1.078	1.1163	4.74
19) C	methylene chloride					1.270	1.242	1.128	1.093	1.089	0.924	1.1244	11.08
20) C	3-chloropropene	1.334	1.143	1.112	1.290	1.221	1.191	1.159	1.151	1.172	0.996	1.1767	7.94
21) C	carbon disulfide		2.080	1.937	2.189	2.102	2.065	1.992	1.988	2.064	1.843	2.0288	5.00
22)	Freon 113	1.345	1.270	1.247	1.408	1.327	1.293	1.230	1.216	1.252	1.127	1.2715	6.11
23)	trans-1,2-dichloro...	1.309	1.238	1.177	1.348	1.275	1.254	1.194	1.181	1.235	1.077	1.2288	6.23
24) C	1,1-dichloroethane	1.649	1.566	1.520	1.741	1.637	1.595	1.499	1.477	1.519	1.330	1.5533	7.24
25) C	MTBE	1.576	1.480	1.414	1.628	1.548	1.514	1.496	1.527	1.659	1.540	1.5381	4.63
26) C	vinyl acetate				1.368	1.315	1.354	1.600	1.760	2.050	1.909	1.6224	18.08
27) C	2-butanone				2.182	2.035	1.994	1.964	1.975	2.094	1.869	2.0159	4.98
28)	cis-1,2-dichloroet...	1.058	0.966	0.913	1.342	1.252	1.218	1.170	1.147	1.207	1.113	1.1385	11.51
29)	Ethyl Acetate				0.170	0.166	0.176	0.201	0.216	0.248	0.247	0.2035	17.17
30) C	chloroform	1.500	1.400	1.325	1.537	1.449	1.422	1.373	1.352	1.451	1.385	1.4193	4.65
31)	Tetrahydrofuran				0.851	0.855	0.867	0.863	0.921	1.026	0.997	0.9116	7.95

Response Factor Report Airpiano 2

Method Path : O:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Method File : TSIM180207.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Thu Feb 08 09:50:26 2018
 Response Via : Initial Calibration

Calibration Files

0.02=R252403.D 0.04=R252404.D 0.1 =R252405.D 0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D
 5.0 =R252409.D 10.0=R252410.D 20.0=R252411.D 50.0=R252412.D

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
32) C	1,2-dichloroethane	1.210	1.161	1.081	1.202	1.131	1.109	1.068	1.047	1.098	1.038	1.1145	5.45
33) I	1,4-difluorobenzene	-----ISTD-----											
34) C	hexane			0.554	0.727	0.648	0.653	0.718	0.712	0.794	0.740	0.6933	10.54
35) s	1,2-dichloroethane-D4	0.408	0.411	0.413	0.415	0.404	0.411	0.397	0.396	0.389	0.386	0.4028	2.59
36) C	1,1,1-trichloroethane	0.845	0.789	0.762	0.934	0.845	0.827	0.807	0.780	0.854	0.812	0.8256	5.88
37) C	benzene		1.207	1.094	1.337	1.213	1.211	1.242	1.211	1.312	1.231	1.2285	5.63
38) C	carbon tetrachloride	0.797	0.777	0.760	0.930	0.843	0.836	0.824	0.796	0.873	0.840	0.8276	5.98
39)	cyclohexane			0.544	0.668	0.641	0.648	0.710	0.699	0.776	0.729	0.6769	10.27
40)	dibromomethane	0.776	0.623	0.506	0.581	0.510	0.498	0.486	0.470	0.513	0.498	0.5461	17.06
41) C	1,2-dichloropropane	0.605	0.534	0.500	0.622	0.563	0.559	0.563	0.544	0.604	0.573	0.5667	6.45
42)	bromodichloromethane	1.001	0.919	0.913	1.118	0.982	0.993	0.983	0.953	1.041	1.000	0.9905	5.99
43) C	1,4-dioxane			0.158	0.196	0.187	0.193	0.226	0.233	0.277	0.280	0.2187	19.95
44) C	trichloroethene	0.512	0.455	0.433	0.526	0.473	0.460	0.473	0.469	0.521	0.504	0.4826	6.46
45) C	2,2,4-trimethylpen...			1.755	2.174	2.082	2.171	2.394	2.344	2.583	2.444	2.2434	11.46
46)	heptane			0.719	0.923	0.901	0.932	1.035	1.027	1.136	1.063	0.9669	13.26
47) C	cis-1,3-dichloropr...	0.586	0.557	0.528	0.669	0.609	0.625	0.694	0.706	0.800	0.766	0.6540	13.56
48) C	4-methyl-2-pentanone				1.043	0.996	1.077	1.350	1.404	1.602	1.535	1.2867	19.21
49)	trans-1,3-dichloro...	0.579	0.524	0.494	0.647	0.596	0.611	0.699	0.716	0.816	0.787	0.6470	16.51
50) C	1,1,2-trichloroethane	0.484	0.472	0.441	0.549	0.500	0.496	0.492	0.479	0.516	0.489	0.4917	5.72
51) I	chlorobenzene-D5	-----ISTD-----											
52) C	toluene		4.291	3.944	4.697	4.360	4.370	4.577	4.598	5.063	4.732	4.5148	7.06
53) s	toluene-D8	2.748	2.836	2.772	2.754	2.773	2.792	2.740	2.843	2.816	2.823	2.7897	1.36
54)	2-hexanone	5.158	3.136	2.608	3.214	3.219	3.409	4.310	4.517	5.210	5.044	3.9827	24.42
55)	dibromochloromethane	2.378	2.216	2.124	2.673	2.478	2.487	2.610	2.610	2.886	2.833	2.5295	9.70
56) C	1,2-dibromoethane	2.269	2.122	2.045	2.529	2.369	2.348	2.476	2.458	2.668	2.572	2.3856	8.26
57) C	tetrachloroethene	1.855	1.671	1.604	2.017	1.862	1.845	1.910	1.916	2.125	2.118	1.8923	8.94
58)	1,1,1,2-tetrachlor...	1.794	1.734	1.582	1.944	1.807	1.794	1.834	1.822	1.985	1.954	1.8251	6.48
59) C	chlorobenzene	3.911	3.421	3.144	3.829	3.550	3.498	3.622	3.576	3.878	3.723	3.6153	6.48
60) C	ethylbenzene	4.884	4.166	3.893	5.030	4.842	5.131	5.932	6.001	6.472	6.149	5.2500	16.45
61) C	m+p-xylene	3.598	3.085	2.906	3.878	3.967	4.205	4.813	4.854	5.224	5.083	4.1612	19.71

Response Factor Report Airpiano 2

Method Path : O:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Method File : TSIM180207.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Thu Feb 08 09:50:26 2018
 Response Via : Initial Calibration

Calibration Files

0.02=R252403.D 0.04=R252404.D 0.1 =R252405.D 0.2 =R252406.D 0.5 =R252407.D 1.0 =R252408.D
 5.0 =R252409.D 10.0=R252410.D 20.0=R252411.D 50.0=R252412.D

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
62)	C bromoform	1.977	1.850	1.761	2.276	2.145	2.175	2.398	2.455	2.755	2.843	2.2633	15.86
63)	C styrene	2.397	2.022	1.897	2.562	2.570	2.769	3.347	3.400	3.697	3.525	2.8186	22.68
64)	C 1,1,2,2-tetrachlor...	3.595	3.174	3.048	3.915	3.849	3.950	4.228	4.215	4.614	4.604	3.9191	13.61
65)	C o-xylene	3.680	3.240	3.012	3.952	4.019	4.297	4.945	4.997	5.511	5.475	4.3128	20.62
66)	1,2,3-trichloropro...	2.841	2.595	2.483	3.210	3.146	3.151	3.230	3.166	3.368	3.243	3.0433	9.81
67)	s bromofluorobenzene	1.073	1.629	1.304	1.311	1.519	1.497	1.581	1.528	1.502	1.535	1.4478	11.62
68)	C isopropylbenzene				4.939	4.892	5.116	5.770	5.753	6.175	6.014	5.5226	9.60
69)	bromobenzene	3.826	3.121	2.720	3.540	3.378	3.408	3.625	3.608	3.862	3.837	3.4925	10.26
70)	4-ethyl toluene	3.771	3.177	3.145	4.491	4.887	5.353	6.269	6.282	6.766	6.702	5.0843	27.71
71)	1,3,5-trimethylben...	3.777	3.152	2.882	4.043	4.163	4.600	5.295	5.257	5.668	5.733	4.4571	22.88
72)	tert-butylbenzene				3.982	4.221	4.633	5.321	5.310	5.795	6.041	5.0433	15.52
73)	1,2,4-trimethylben...	3.680	2.877	2.723	3.826	4.103	4.544	5.433	5.494	6.066	6.422	4.5167	28.66
74)	C Benzyl Chloride				2.990	2.781	2.979	4.129	4.378	5.034	5.526	3.9740	27.37
75)	1,3-dichlorobenzene	3.838	2.811	2.481	3.333	3.412	3.499	3.805	3.779	4.102	4.344	3.5404	16.01
76)	C 1,4-dichlorobenzene	4.440	2.920	2.656	3.523	3.461	3.561	3.887	3.895	4.197	4.662	3.7202	16.99
77)	sec-butylbenzene				5.539	5.938	6.549	7.639	7.677	8.273	8.779	7.1991	16.86
78)	p-isopropyltoluene				4.244	4.538	5.135	6.304	6.341	6.817	7.312	5.8131	20.26
79)	1,2-dichlorobenzene	3.966	2.761	2.435	3.210	3.134	3.233	3.542	3.538	3.780	4.104	3.3702	15.53
80)	n-butylbenzene				4.547	4.998	5.607	6.882	6.860	7.146	7.662	6.2432	19.01
81)	C 1,2,4-trichloroben...		2.282	1.744	2.322	2.452	2.596	3.299	3.419	3.602	4.642	2.9287	30.29#
82)	naphthalene		5.018	3.387	4.386	4.730	5.054	6.780	7.108	7.194	8.714	5.8189	29.29
83)	1,2,3-trichloroben...		2.266	1.586	2.102	2.219	2.305	3.050	3.196	3.243	4.151	2.6797	29.32
84)	C hexachlorobutadiene		1.950	1.680	2.131	2.109	2.198	2.671	2.817	2.970	3.929	2.4950	27.43

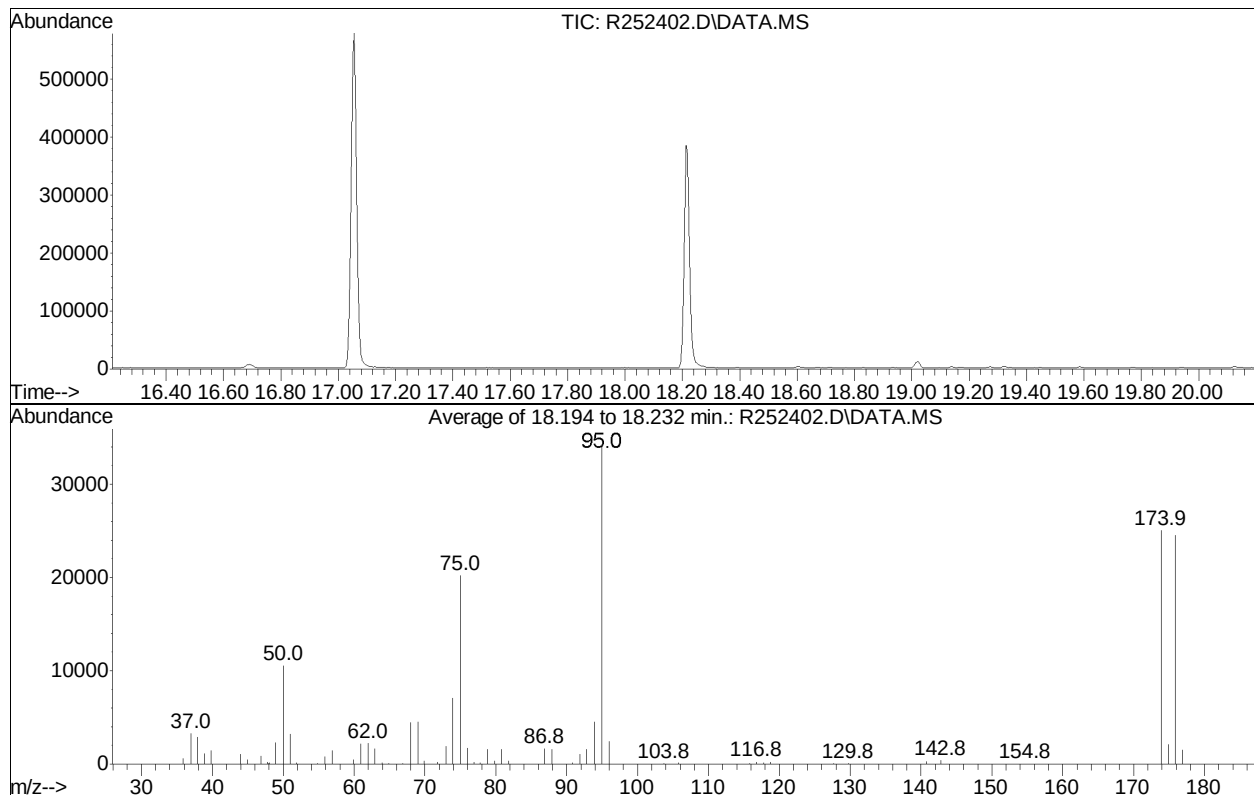
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
Data File : R252402.D
Acq On : 7 Feb 2018 1:53 pm
Operator : AIRPIAN02:RY
Sample : WG1087635-1,3,250,250
Misc : WG1087635
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Thu Feb 08 09:50:26 2018



Spectrum Information: Average of 18.194 to 18.232 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	30.9	10577	PASS
75	95	30	66	59.1	20222	PASS
95	95	100	100	100.0	34233	PASS
96	95	5	9	7.1	2440	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	73.2	25052	PASS
175	174	4	9	8.4	2105	PASS
176	174	93	101	98.1	24566	PASS
177	176	5	9	6.3	1538	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252403.D
 Acq On : 7 Feb 2018 2:26 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.02
 Misc : WG1087635
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 08 09:39:38 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.54	49	177659	10.000	ppbV	0.00
Standard Area = 176579			Recovery =	100.61%		
33) 1,4-difluorobenzene	12.74	114	268626	10.000	ppbV	0.00
Standard Area = 260561			Recovery =	103.10%		
51) chlorobenzene-D5	17.05	54	82199	10.000	ppbV	0.00
Standard Area = 80462			Recovery =	102.16%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.42	65	109507	10.270	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.70%		
53) toluene-D8	15.41	98	225854	10.028	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.28%		
67) bromofluorobenzene	18.21	95	88211	6.788	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	67.88%#		
Target Compounds						
					Qvalue	
2) propylene	4.29	41	274M6	0.027	ppbV	
3) dichlorodifluoromethane	4.40	85	174	0.023	ppbV #	59
4) chloromethane	4.64	50	369	0.026	ppbV #	64
5) Freon-114	4.79	85	490	0.025	ppbV #	84
6) vinyl chloride	4.97	62	328	0.023	ppbV #	60
7) 1,3-butadiene	5.18	54	208	0.021	ppbV #	42
8) bromomethane	5.58	94	258	0.025	ppbV	96
9) chloroethane	5.83	64	157	0.023	ppbV #	56
10) ethanol	6.09	31	4628	0.382	ppbV	93
11) vinyl bromide	6.34	106	210	0.022	ppbV	95
12) acrolein	6.55	56	208M3	0.038	ppbV	
13) acetone	6.77	43	5258	0.274	ppbV #	95
14) trichlorofluoromethane	6.93	101	663	0.023	ppbV	93
15) isopropyl alcohol	7.13	45	5884	0.301	ppbV #	95
16) acrylonitrile	7.37	53	267	0.026	ppbV #	86
17) 1,1-dichloroethene	7.77	61	519	0.022	ppbV #	81
18) tertiary butyl alcohol	7.96	59	646M3	0.034	ppbV	
19) methylene chloride	7.94	49	680	0.034	ppbV	86
20) 3-chloropropene	8.09	41	474	0.023	ppbV #	79
21) carbon disulfide	8.29	76	859	0.024	ppbV #	1
22) Freon 113	8.29	101	478	0.022	ppbV #	85
23) trans-1,2-dichloroethene	9.12	61	465	0.022	ppbV #	79
24) 1,1-dichloroethane	9.35	63	586	0.022	ppbV #	75

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252403.D
 Acq On : 7 Feb 2018 2:26 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.02
 Misc : WG1087635
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 08 09:39:38 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	9.51	73	560	0.021	ppbV	#	7
26) vinyl acetate	9.58	43	585	0.021	ppbV	#	74
27) 2-butanone	9.92	43	1127	0.032	ppbV	#	88
28) cis-1,2-dichloroethene	10.35	61	376	0.018	ppbV	#	87
29) Ethyl Acetate	10.68	61	69	0.019	ppbV	#	1
30) chloroform	10.70	83	533	0.022	ppbV	#	85
31) Tetrahydrofuran	11.24	42	329	0.021	ppbV	#	71
32) 1,2-dichloroethane	11.54	62	430	0.023	ppbV	#	64
34) hexane	10.60	57	352	0.018	ppbV	#	57
36) 1,1,1-trichloroethane	11.82	97	454	0.021	ppbV	#	80
37) benzene	12.35	78	751	0.023	ppbV	#	77
38) carbon tetrachloride	12.52	117	428	0.019	ppbV	#	91
39) cyclohexane	12.65	56	331	0.017	ppbV	#	85
40) dibromomethane	13.25	93	417	0.032	ppbV		96
41) 1,2-dichloropropane	13.27	63	325	0.021	ppbV	#	66
42) bromodichloromethane	13.49	83	538	0.020	ppbV	#	86
43) 1,4-dioxane	13.61	88	159	0.026	ppbV		89
44) trichloroethene	13.53	130	275	0.022	ppbV		95
45) 2,2,4-trimethylpentane	13.55	57	1066	0.017	ppbV	#	72
46) heptane	13.85	43	440	0.016	ppbV	#	86
47) cis-1,3-dichloropropene	14.51	75	315	0.017	ppbV	#	59
48) 4-methyl-2-pentanone	14.59	43	631	0.017	ppbV	#	82
49) trans-1,3-dichloropropene	15.06	75	311	0.017	ppbV	#	54
50) 1,1,2-trichloroethane	15.24	97	260	0.020	ppbV		93
52) toluene	15.51	91	813	0.022	ppbV		93
54) 2-hexanone	15.78	43	848	0.024	ppbV	#	91
55) dibromochloromethane	15.92	129	391	0.018	ppbV	#	87
56) 1,2-dibromoethane	16.14	107	373	0.018	ppbV		96
57) tetrachloroethene	16.53	166	305	0.019	ppbV	#	88
58) 1,1,1,2-tetrachloroethane	17.08	131	295	0.020	ppbV	#	89
59) chlorobenzene	17.09	112	643	0.022	ppbV	#	82
60) ethylbenzene	17.38	91	803	0.016	ppbV	#	87
61) m+p-xylene	17.51	91	1183	0.030	ppbV		95
62) bromoform	17.60	173	325	0.016	ppbV		88
63) styrene	17.79	104	394	0.014	ppbV		89
64) 1,1,2,2-tetrachloroethane	17.87	83	591	0.017	ppbV		94
65) o-xylene	17.87	91	605	0.015	ppbV	#	82
66) 1,2,3-trichloropropane	17.97	75	467M2	0.018	ppbV		
68) isopropylbenzene	18.30	105	757	0.016	ppbV	#	87
69) bromobenzene	18.39	77	629	0.021	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252403.D
 Acq On : 7 Feb 2018 2:26 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.02
 Misc : WG1087635
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 08 09:39:38 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 4-ethyl toluene	18.78	105	620	0.012	ppbV	#	83
71) 1,3,5-trimethylbenzene	18.83	105	621	0.014	ppbV	#	82
72) tert-butylbenzene	19.14	119	652	0.015	ppbV	#	82
73) 1,2,4-trimethylbenzene	19.13	105	605	0.014	ppbV		89
74) Benzyl Chloride	19.25	91	477	0.014	ppbV	#	55
75) 1,3-dichlorobenzene	19.27	146	631	0.020	ppbV	#	90
76) 1,4-dichlorobenzene	19.32	146	730	0.023	ppbV		91
77) sec-butylbenzene	19.33	105	857	0.014	ppbV	#	88
78) p-isopropyltoluene	19.44	119	664	0.013	ppbV	#	85
79) 1,2-dichlorobenzene	19.59	146	652	0.022	ppbV	#	84
80) n-butylbenzene	19.77	91	674	0.012	ppbV	#	86
81) 1,2,4-trichlorobenzene	21.04	180	846	0.031	ppbV	#	83
82) naphthalene	21.16	128	2175	0.039	ppbV	#	90
83) 1,2,3-trichlorobenzene	21.43	180	852	0.034	ppbV		97
84) hexachlorobutadiene	21.47	225	482	0.022	ppbV	#	84

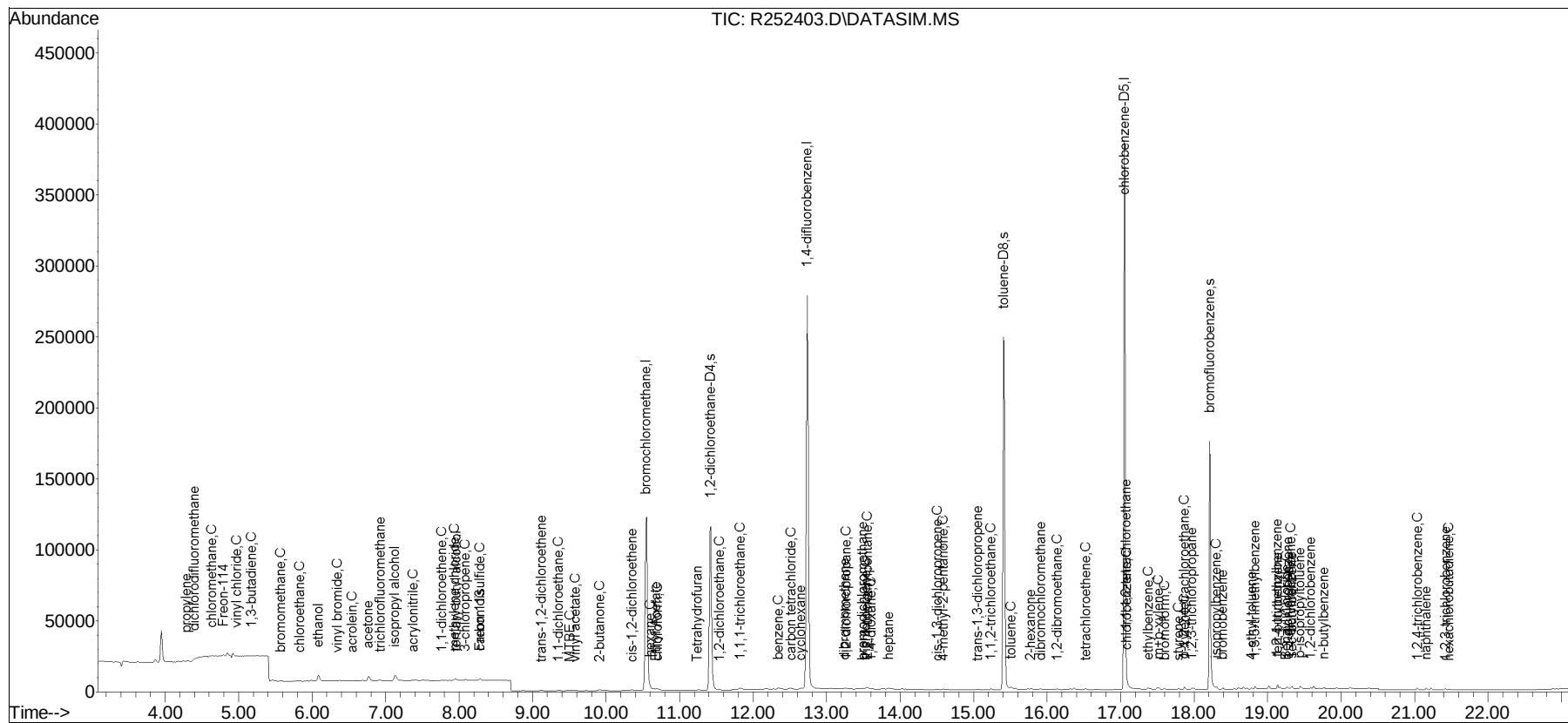
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
Data File  : R252403.D
Acq On     : 7 Feb 2018    2:26 pm
Operator   : AIRPIAN02:RY
Sample     : IT015-SIMSTD0.02
Misc       : WG1087635
ALS Vial   : 5    Sample Multiplier: 1
```

Quant Time: Feb 08 09:39:38 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:37:23 2018
Response via : Initial Calibration

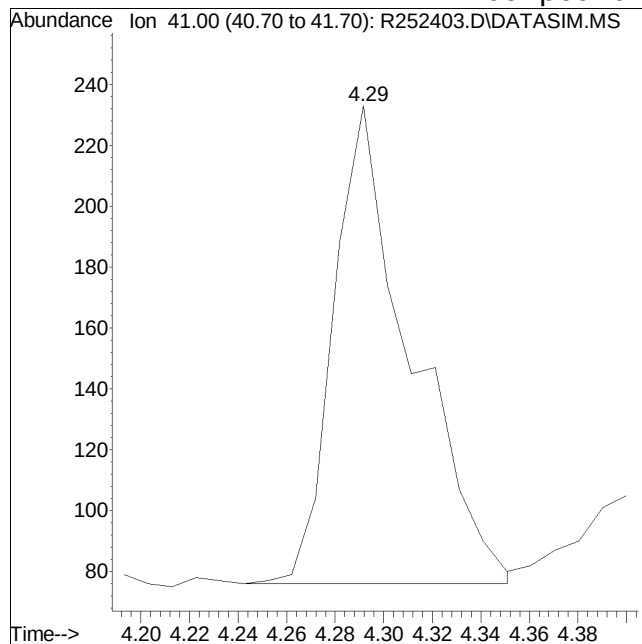
Sub List : Default - All compounds listed0207SIM_ICAL\R252409.D



Manual Integration/Negative Proof Report

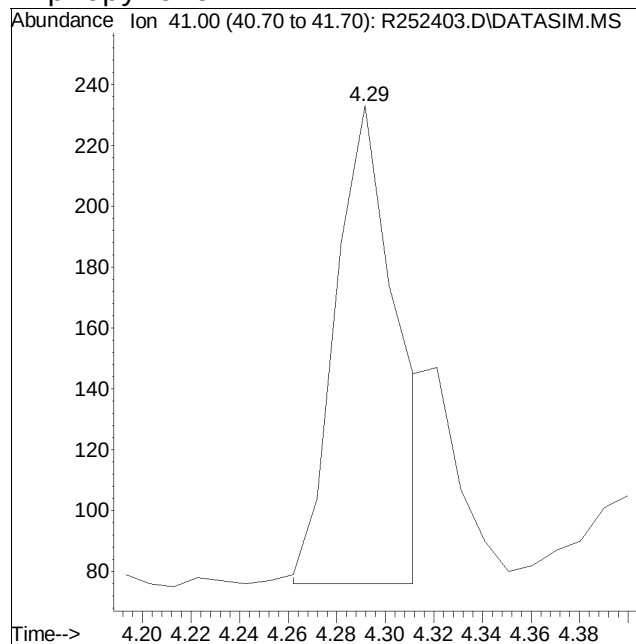
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252403.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 2:26 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/8/2018 9:37 am

Compound #2: propylene



Original Peak Response = 348

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

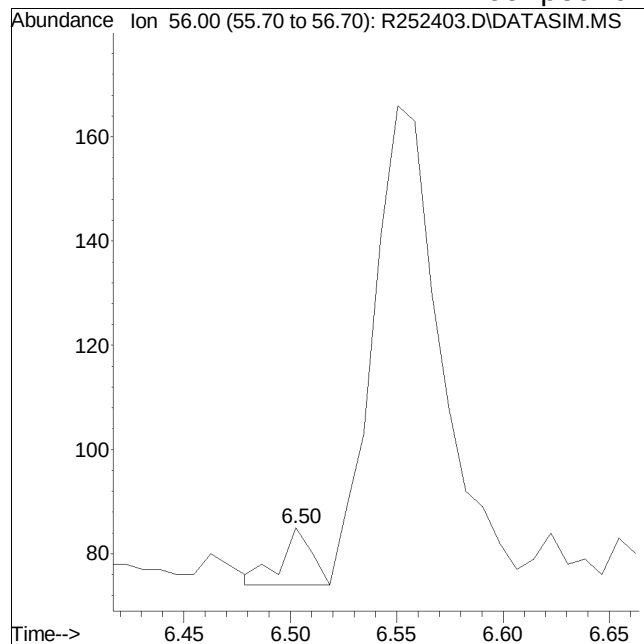


Manual Peak Response = 274 M6

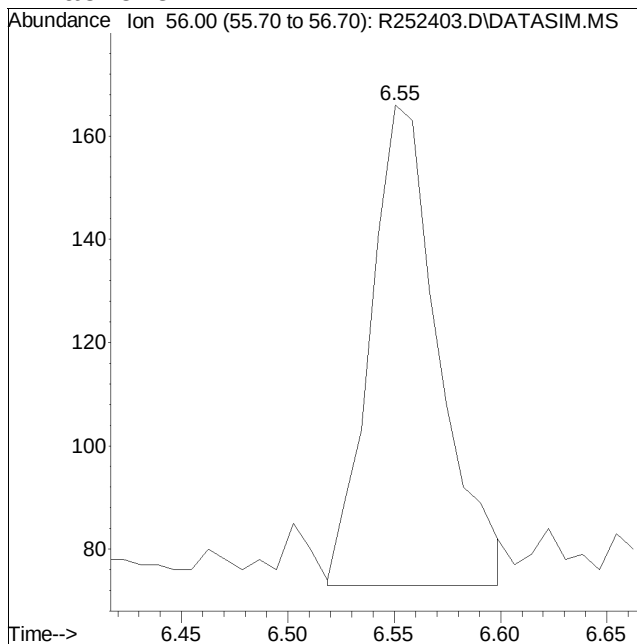
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
 Data File : R252403.D Operator : AIRPIAN02:RY
 Date Inj'd : 2/7/2018 2:26 pm Instrument : Airpiano 2
 Sample : IT015-SIMSTD0.02 Quant Date : 2/8/2018 9:37 am

Compound #12: acrolein



Original Peak Response = 11



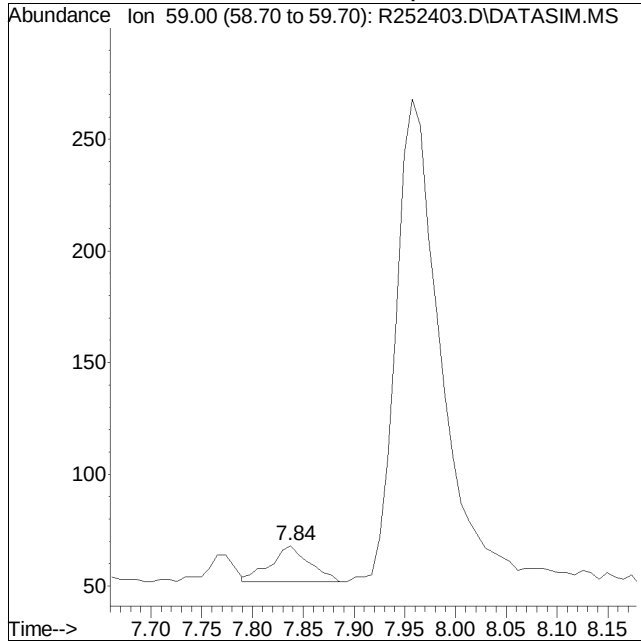
Manual Peak Response = 208 M3

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.

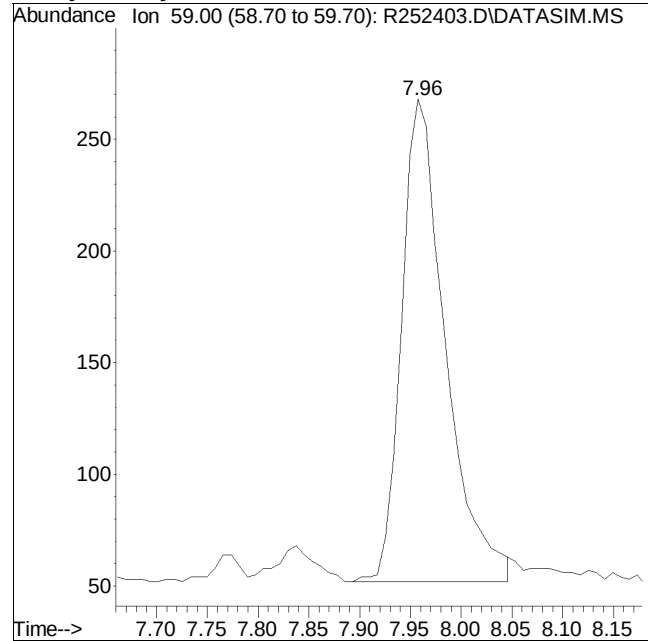
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252403.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 2:26 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/8/2018 9:37 am

Compound #18: tertiary butyl alcohol



Original Peak Response = 42



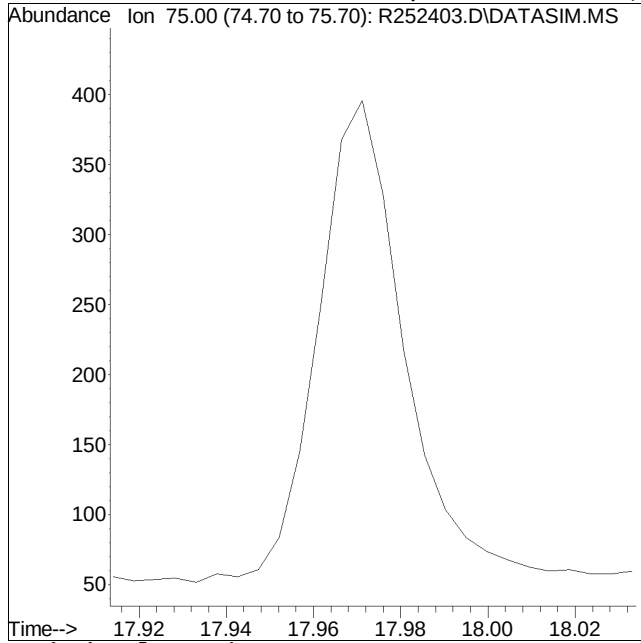
Manual Peak Response = 646 M3

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

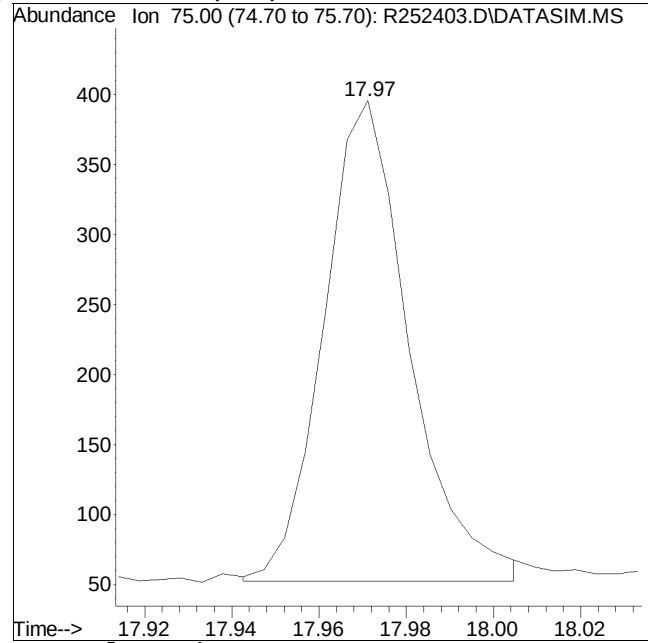
Data Path : O:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252403.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 2:26 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/8/2018 9:37 am

Compound #66: 1,2,3-trichloropropane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 467 M2

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252404.D
 Acq On : 7 Feb 2018 2:59 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.04
 Misc : WG1087635
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 08 09:41:25 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.54	49	173200	10.000	ppbV	0.00
Standard Area = 176579			Recovery =		98.09%	
33) 1,4-difluorobenzene	12.74	114	260327	10.000	ppbV	0.00
Standard Area = 260561			Recovery =		99.91%	
51) chlorobenzene-D5	17.05	54	79870	10.000	ppbV	0.00
Standard Area = 80462			Recovery =		99.26%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.42	65	107023	10.357	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		103.57%	
53) toluene-D8	15.41	98	226495	10.350	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		103.50%	
67) bromofluorobenzene	18.21	95	130076	10.301	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		103.01%	
Target Compounds						
					Qvalue	
2) propylene	4.29	41	462M6	0.046	ppbV	
3) dichlorodifluoromethane	4.40	85	338	0.045	ppbV #	75
4) chloromethane	4.64	50	644	0.046	ppbV #	75
5) Freon-114	4.79	85	914	0.047	ppbV	91
6) vinyl chloride	4.96	62	562	0.041	ppbV #	73
7) 1,3-butadiene	5.18	54	376	0.039	ppbV #	59
8) bromomethane	5.58	94	449	0.044	ppbV	98
9) chloroethane	5.83	64	322	0.049	ppbV #	68
10) ethanol	6.08	31	7261	0.614	ppbV	99
11) vinyl bromide	6.33	106	376	0.041	ppbV	96
12) acrolein	6.55	56	273	0.051	ppbV #	1
13) acetone	6.76	43	6870	0.367	ppbV #	98
14) trichlorofluoromethane	6.92	101	1210	0.043	ppbV	97
15) isopropyl alcohol	7.13	45	9107	0.478	ppbV #	96
16) acrylonitrile	7.37	53	462	0.046	ppbV #	90
17) 1,1-dichloroethene	7.77	61	958	0.042	ppbV #	92
18) tertiary butyl alcohol	7.95	59	968M3	0.053	ppbV	
19) methylene chloride	7.94	49	1117	0.057	ppbV	95
20) 3-chloropropene	8.09	41	792	0.039	ppbV #	75
21) carbon disulfide	8.29	76	1441	0.042	ppbV #	1
22) Freon 113	8.29	101	880	0.041	ppbV	94
23) trans-1,2-dichloroethene	9.12	61	858	0.041	ppbV #	84
24) 1,1-dichloroethane	9.35	63	1085	0.042	ppbV #	86

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252404.D
 Acq On : 7 Feb 2018 2:59 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.04
 Misc : WG1087635
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 08 09:41:25 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	9.51	73	1025	0.040	ppbV	#	46
26) vinyl acetate	9.58	43	945	0.034	ppbV	#	78
27) 2-butanone	9.91	43	1631	0.048	ppbV	#	90
28) cis-1,2-dichloroethene	10.35	61	669	0.033	ppbV		95
29) Ethyl Acetate	10.67	61	89	0.026	ppbV	#	1
30) chloroform	10.70	83	970	0.041	ppbV	#	92
31) Tetrahydrofuran	11.24	42	608M4	0.041	ppbV		
32) 1,2-dichloroethane	11.55	62	804	0.043	ppbV	#	80
34) hexane	10.60	57	637	0.034	ppbV	#	52
36) 1,1,1-trichloroethane	11.82	97	822	0.039	ppbV	#	86
37) benzene	12.35	78	1257	0.039	ppbV	#	84
38) carbon tetrachloride	12.52	117	809	0.038	ppbV	#	94
39) cyclohexane	12.65	56	613	0.033	ppbV	#	84
40) dibromomethane	13.24	93	649	0.051	ppbV		99
41) 1,2-dichloropropane	13.27	63	556	0.038	ppbV	#	76
42) bromodichloromethane	13.49	83	957	0.037	ppbV	#	97
43) 1,4-dioxane	13.61	88	188	0.032	ppbV		90
44) trichloroethene	13.53	130	474	0.039	ppbV		96
45) 2,2,4-trimethylpentane	13.55	57	1891	0.030	ppbV	#	76
46) heptane	13.85	43	777	0.029	ppbV	#	91
47) cis-1,3-dichloropropene	14.51	75	580	0.032	ppbV	#	74
48) 4-methyl-2-pentanone	14.59	43	917	0.026	ppbV	#	85
49) trans-1,3-dichloropropene	15.05	75	546	0.030	ppbV	#	71
50) 1,1,2-trichloroethane	15.24	97	491	0.038	ppbV		91
52) toluene	15.51	91	1371	0.038	ppbV		99
54) 2-hexanone	15.78	43	1002	0.029	ppbV	#	91
55) dibromochloromethane	15.92	129	708	0.034	ppbV	#	96
56) 1,2-dibromoethane	16.14	107	678	0.034	ppbV		92
57) tetrachloroethene	16.53	166	534	0.035	ppbV		91
58) 1,1,1,2-tetrachloroethane	17.07	131	554	0.038	ppbV	#	94
59) chlorobenzene	17.09	112	1093	0.038	ppbV		92
60) ethylbenzene	17.37	91	1331	0.028	ppbV		100
61) m+p-xylene	17.51	91	1971	0.051	ppbV		98
62) bromoform	17.60	173	591	0.031	ppbV		93
63) styrene	17.79	104	646	0.024	ppbV		92
64) 1,1,2,2-tetrachloroethane	17.87	83	1014	0.030	ppbV		99
65) o-xylene	17.87	91	1035	0.026	ppbV		89
66) 1,2,3-trichloropropane	17.97	75	829M2	0.032	ppbV		
68) isopropylbenzene	18.30	105	1287	0.028	ppbV		97
69) bromobenzene	18.39	77	997	0.034	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252404.D
 Acq On : 7 Feb 2018 2:59 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.04
 Misc : WG1087635
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 08 09:41:25 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 4-ethyl toluene	18.78	105	1015	0.020	ppbV	#	87
71) 1,3,5-trimethylbenzene	18.83	105	1007	0.024	ppbV	#	98
72) tert-butylbenzene	19.13	119	947	0.022	ppbV	#	86
73) 1,2,4-trimethylbenzene	19.13	105	919	0.021	ppbV		97
74) Benzyl Chloride	19.25	91	786	0.024	ppbV	#	74
75) 1,3-dichlorobenzene	19.27	146	898	0.030	ppbV		95
76) 1,4-dichlorobenzene	19.32	146	933	0.030	ppbV		94
77) sec-butylbenzene	19.33	105	1249	0.020	ppbV	#	91
78) p-isopropyltoluene	19.44	119	975	0.019	ppbV		93
79) 1,2-dichlorobenzene	19.59	146	882	0.031	ppbV	#	90
80) n-butylbenzene	19.77	91	997	0.018	ppbV	#	88
81) 1,2,4-trichlorobenzene	21.04	180	729	0.028	ppbV	#	84
82) naphthalene	21.16	128	1603	0.030	ppbV	#	89
83) 1,2,3-trichlorobenzene	21.42	180	724	0.030	ppbV	#	83
84) hexachlorobutadiene	21.47	225	623	0.029	ppbV	#	91

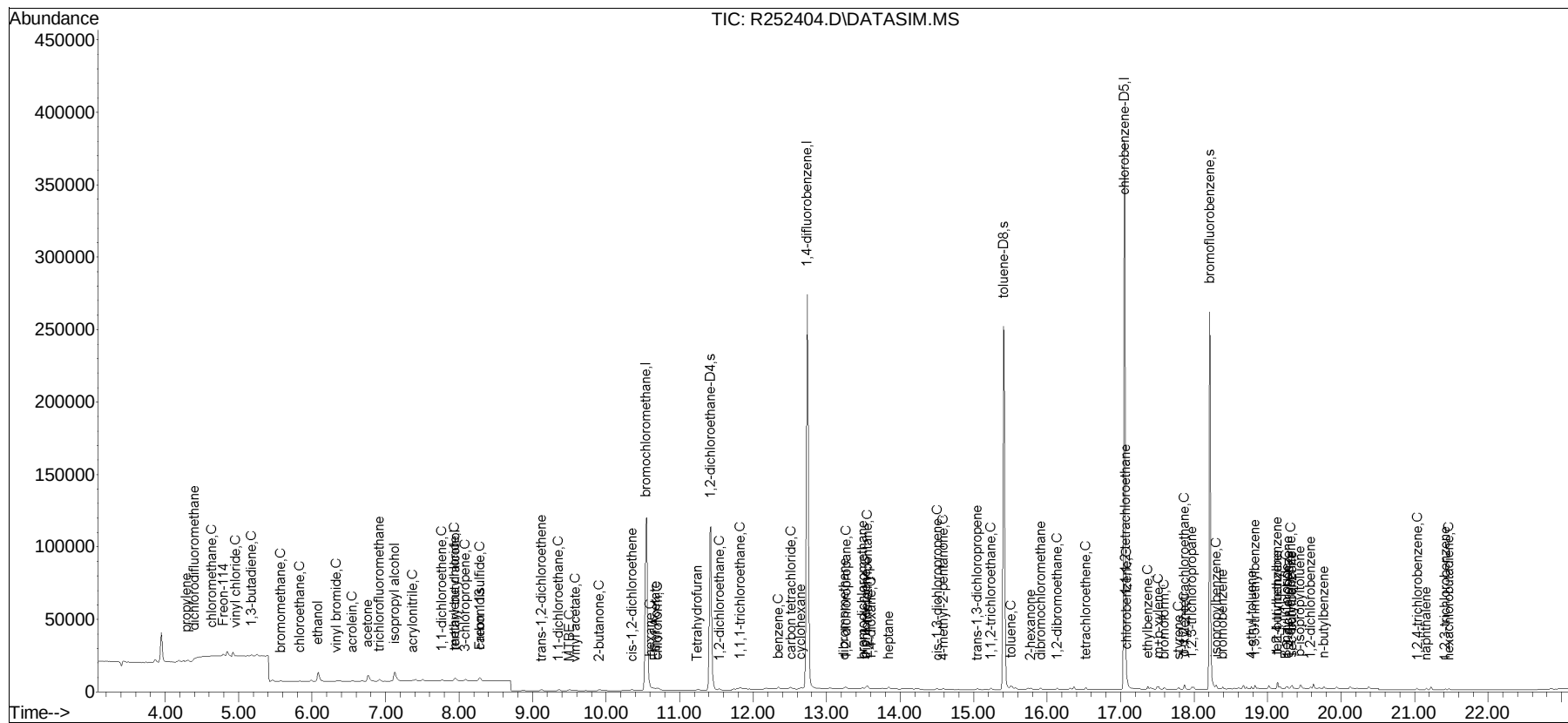
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
Data File  : R252404.D
Acq On     : 7 Feb 2018    2:59 pm
Operator   : AIRPIAN02:RY
Sample     : IT015-SIMSTD0.04
Misc       : WG1087635
ALS Vial   : 5    Sample Multiplier: 1
```

Quant Time: Feb 08 09:41:25 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:37:23 2018
Response via : Initial Calibration

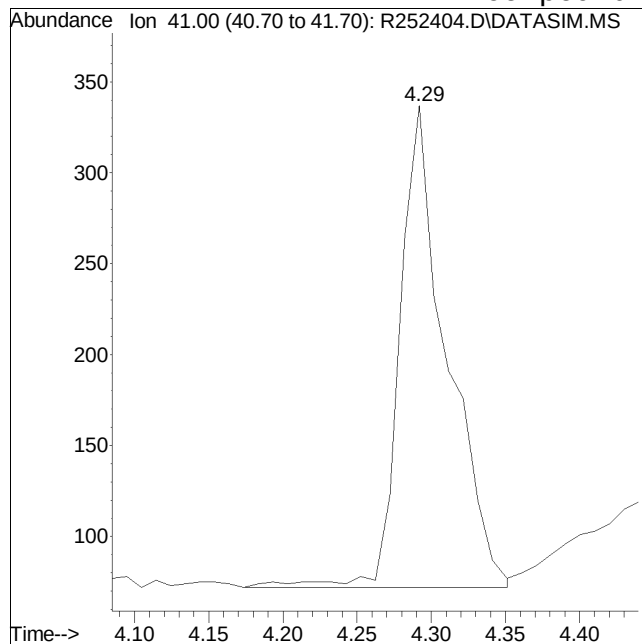
Sub List : Default - All compounds listed0207SIM_ICAL\R252409.D



Manual Integration/Negative Proof Report

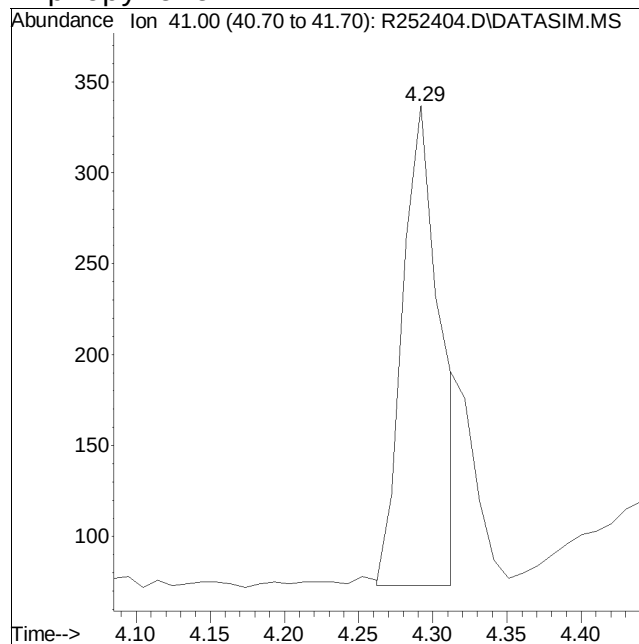
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252404.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 2:59 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/8/2018 9:37 am

Compound #2: propylene



Original Peak Response = 584

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

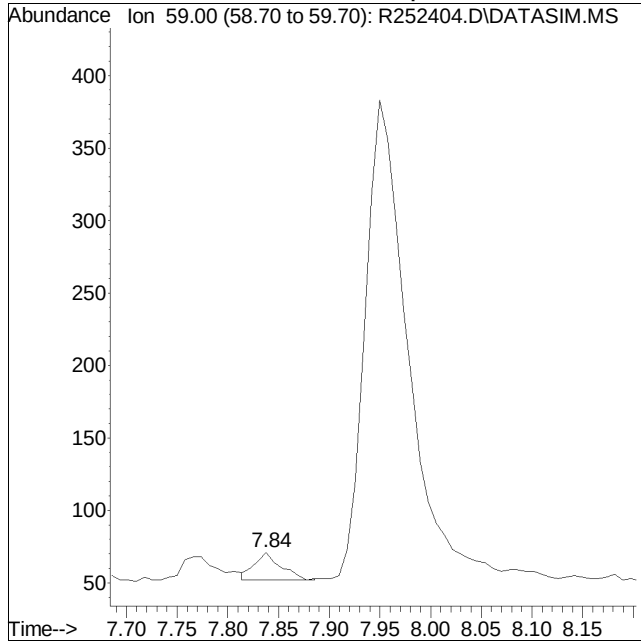


Manual Peak Response = 462 M6

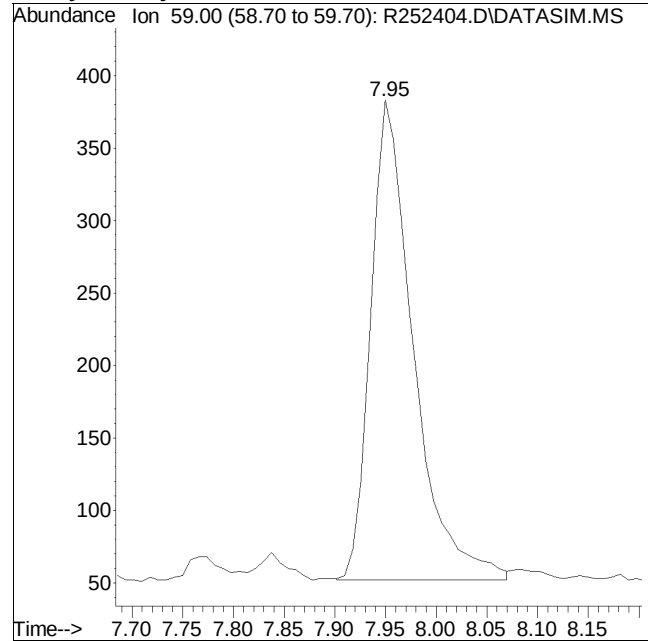
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252404.D Operator : AIRPIANO2:RY
Date Inj'd : 2/7/2018 2:59 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/8/2018 9:37 am

Compound #18: tertiary butyl alcohol



Original Peak Response = 34



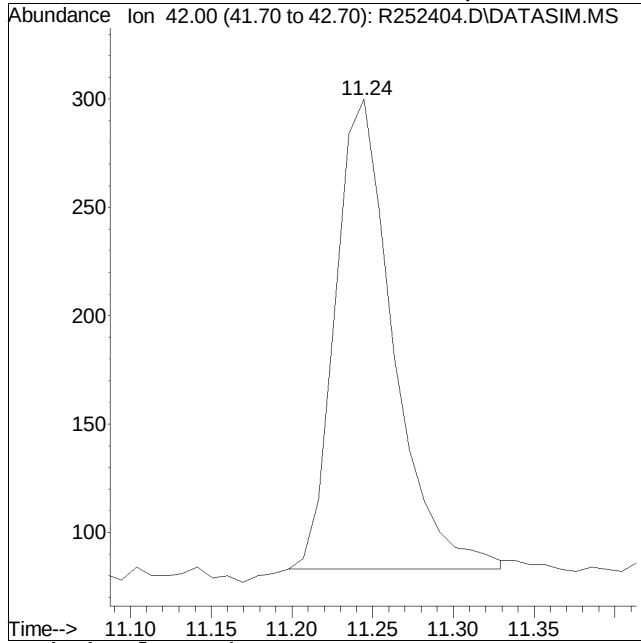
Manual Peak Response = 968 M3

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.

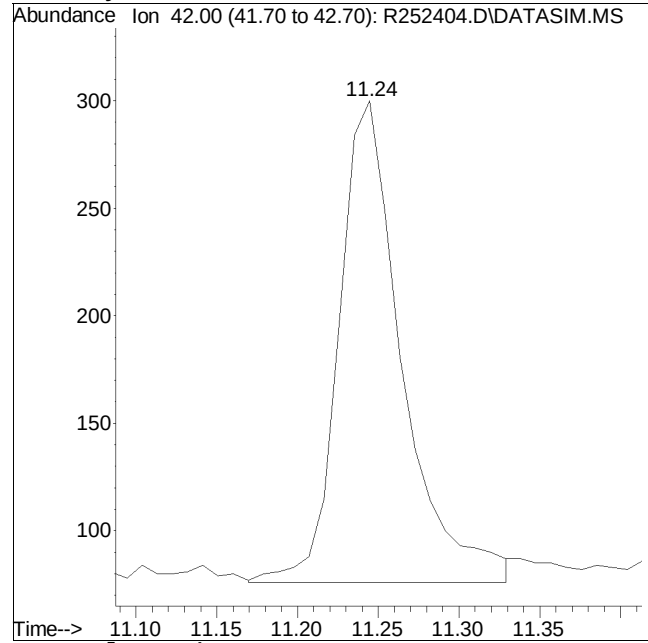
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252404.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 2:59 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/8/2018 9:37 am

Compound #31: Tetrahydrofuran



Original Peak Response = 544



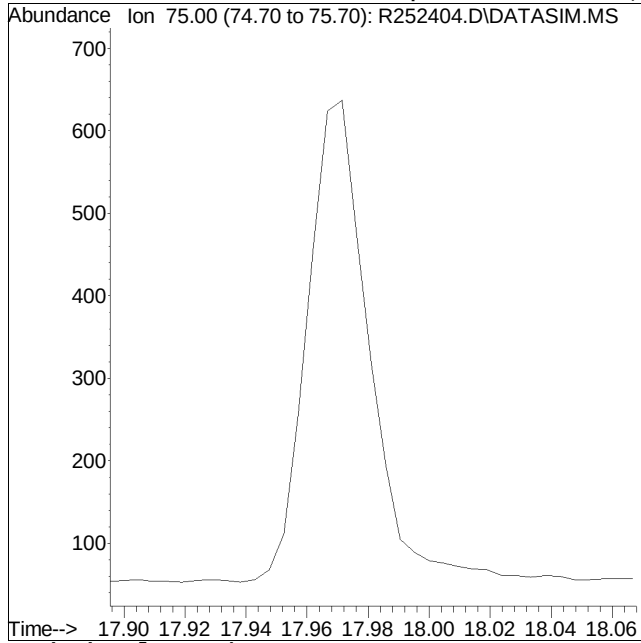
Manual Peak Response = 608 M4

M4 = Poor automated baseline construction.

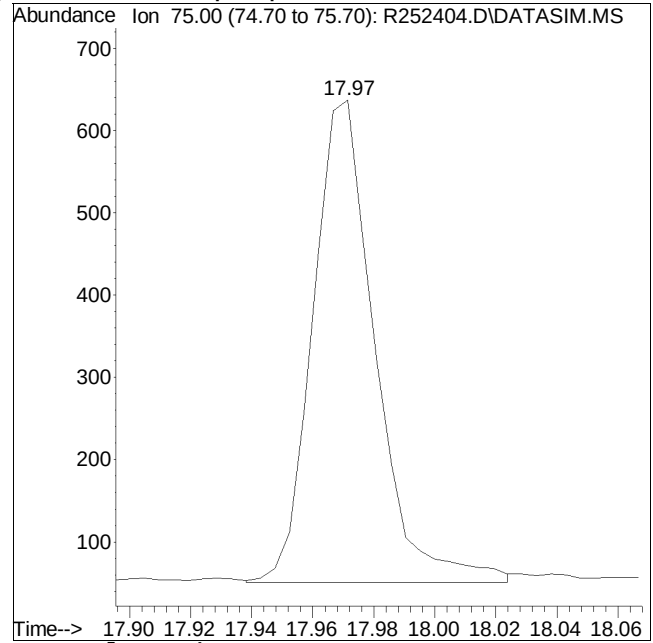
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252404.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 2:59 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/8/2018 9:37 am

Compound #66: 1,2,3-trichloropropane



Original Peak Response = 0



Manual Peak Response = 829 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252405.D
 Acq On : 7 Feb 2018 3:36 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.1
 Misc : WG1087635
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 08 09:42:12 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.54	49	167159	10.000	ppbV	0.00
Standard Area = 176579			Recovery =		94.67%	
33) 1,4-difluorobenzene	12.74	114	250761	10.000	ppbV	0.00
Standard Area = 260561			Recovery =		96.24%	
51) chlorobenzene-D5	17.05	54	77862	10.000	ppbV	0.00
Standard Area = 80462			Recovery =		96.77%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.42	65	103504	10.399	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		103.99%	
53) toluene-D8	15.41	98	215848	10.118	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		101.18%	
67) bromofluorobenzene	18.21	95	101530	8.248	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		82.48%	
Target Compounds						
					Qvalue	
2) propylene	4.29	41	916M6	0.094	ppbV	
3) dichlorodifluoromethane	4.39	85	844	0.116	ppbV	93
4) chloromethane	4.64	50	1470	0.109	ppbV #	86
5) Freon-114	4.79	85	2565	0.137	ppbV	95
6) vinyl chloride	4.96	62	1356	0.103	ppbV	89
7) 1,3-butadiene	5.18	54	880	0.095	ppbV #	75
8) bromomethane	5.58	94	974	0.099	ppbV	98
9) chloroethane	5.83	64	684	0.109	ppbV	89
10) ethanol	6.08	31	9067	0.794	ppbV	97
11) vinyl bromide	6.33	106	894	0.100	ppbV	100
12) acrolein	6.55	56	565	0.110	ppbV #	1
13) acetone	6.76	43	12685	0.701	ppbV #	96
14) trichlorofluoromethane	6.92	101	2798	0.102	ppbV	98
15) isopropyl alcohol	7.12	45	9913	0.539	ppbV #	96
16) acrylonitrile	7.37	53	1015	0.105	ppbV	95
17) 1,1-dichloroethene	7.77	61	2225	0.101	ppbV	96
18) tertiary butyl alcohol	7.94	59	2129M3	0.120	ppbV	
19) methylene chloride	7.94	49	2351	0.125	ppbV	97
20) 3-chloropropene	8.09	41	1859	0.096	ppbV	92
21) carbon disulfide	8.29	76	3238	0.097	ppbV #	1
22) Freon 113	8.29	101	2085	0.101	ppbV	97
23) trans-1,2-dichloroethene	9.12	61	1968	0.099	ppbV	93
24) 1,1-dichloroethane	9.36	63	2541	0.101	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252409.D
 Acq On : 7 Feb 2018 3:36 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.1
 Misc : WG1087635
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 08 09:42:12 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	9.49	73	2363	0.094	ppbV	#	77
26) vinyl acetate	9.58	43	2045	0.076	ppbV	#	87
27) 2-butanone	9.90	43	3333	0.102	ppbV	#	95
28) cis-1,2-dichloroethene	10.35	61	1526	0.078	ppbV		99
29) Ethyl Acetate	10.67	61	219	0.065	ppbV	#	19
30) chloroform	10.70	83	2215	0.097	ppbV		95
31) Tetrahydrofuran	11.24	42	1257	0.087	ppbV	#	85
32) 1,2-dichloroethane	11.54	62	1807	0.101	ppbV	#	90
34) hexane	10.60	57	1389	0.077	ppbV	#	48
36) 1,1,1-trichloroethane	11.82	97	1912	0.094	ppbV	#	93
37) benzene	12.35	78	2743	0.088	ppbV	#	90
38) carbon tetrachloride	12.52	117	1906	0.092	ppbV		96
39) cyclohexane	12.65	56	1365	0.077	ppbV		89
40) dibromomethane	13.25	93	1269	0.104	ppbV		99
41) 1,2-dichloropropane	13.27	63	1253	0.089	ppbV	#	88
42) bromodichloromethane	13.49	83	2289	0.093	ppbV	#	99
43) 1,4-dioxane	13.61	88	396	0.070	ppbV	#	79
44) trichloroethene	13.53	130	1086	0.092	ppbV		99
45) 2,2,4-trimethylpentane	13.56	57	4402	0.073	ppbV	#	89
46) heptane	13.85	43	1802	0.069	ppbV	#	96
47) cis-1,3-dichloropropene	14.51	75	1325	0.076	ppbV	#	89
48) 4-methyl-2-pentanone	14.58	43	1972	0.058	ppbV	#	91
49) trans-1,3-dichloropropene	15.06	75	1239	0.071	ppbV	#	89
50) 1,1,2-trichloroethane	15.24	97	1106	0.090	ppbV		90
52) toluene	15.51	91	3071	0.086	ppbV		99
54) 2-hexanone	15.77	43	2031	0.061	ppbV	#	95
55) dibromochloromethane	15.92	129	1654	0.081	ppbV		97
56) 1,2-dibromoethane	16.14	107	1592	0.083	ppbV		98
57) tetrachloroethene	16.53	166	1249	0.084	ppbV		93
58) 1,1,1,2-tetrachloroethane	17.07	131	1232	0.086	ppbV		96
59) chlorobenzene	17.09	112	2448	0.087	ppbV		96
60) ethylbenzene	17.37	91	3031	0.066	ppbV		99
61) m+p-xylene	17.51	91	4525	0.121	ppbV		98
62) bromoform	17.60	173	1371	0.073	ppbV		95
63) styrene	17.79	104	1477	0.057	ppbV		98
64) 1,1,2,2-tetrachloroethane	17.87	83	2373	0.072	ppbV		97
65) o-xylene	17.87	91	2345	0.061	ppbV		96
66) 1,2,3-trichloropropane	17.97	75	1933	0.077	ppbV		97
68) isopropylbenzene	18.30	105	2885	0.064	ppbV		96
69) bromobenzene	18.39	77	2118	0.075	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252405.D
 Acq On : 7 Feb 2018 3:36 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.1
 Misc : WG1087635
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 08 09:42:12 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70)	4-ethyl toluene	18.78	105	2449	0.050	ppbV	#	94
71)	1,3,5-trimethylbenzene	18.83	105	2244	0.054	ppbV	#	96
72)	tert-butylbenzene	19.13	119	2217	0.054	ppbV		98
73)	1,2,4-trimethylbenzene	19.13	105	2120	0.050	ppbV		91
74)	Benzyl Chloride	19.25	91	1755	0.055	ppbV		89
75)	1,3-dichlorobenzene	19.27	146	1932	0.065	ppbV		97
76)	1,4-dichlorobenzene	19.32	146	2068	0.068	ppbV		97
77)	sec-butylbenzene	19.33	105	3037	0.051	ppbV		96
78)	p-isopropyltoluene	19.44	119	2256	0.046	ppbV		98
79)	1,2-dichlorobenzene	19.59	146	1896	0.069	ppbV		96
80)	n-butylbenzene	19.77	91	2332	0.044	ppbV		99
81)	1,2,4-trichlorobenzene	21.04	180	1358	0.053	ppbV	#	92
82)	naphthalene	21.16	128	2637	0.050	ppbV	#	95
83)	1,2,3-trichlorobenzene	21.42	180	1235	0.052	ppbV	#	88
84)	hexachlorobutadiene	21.47	225	1308	0.063	ppbV		96

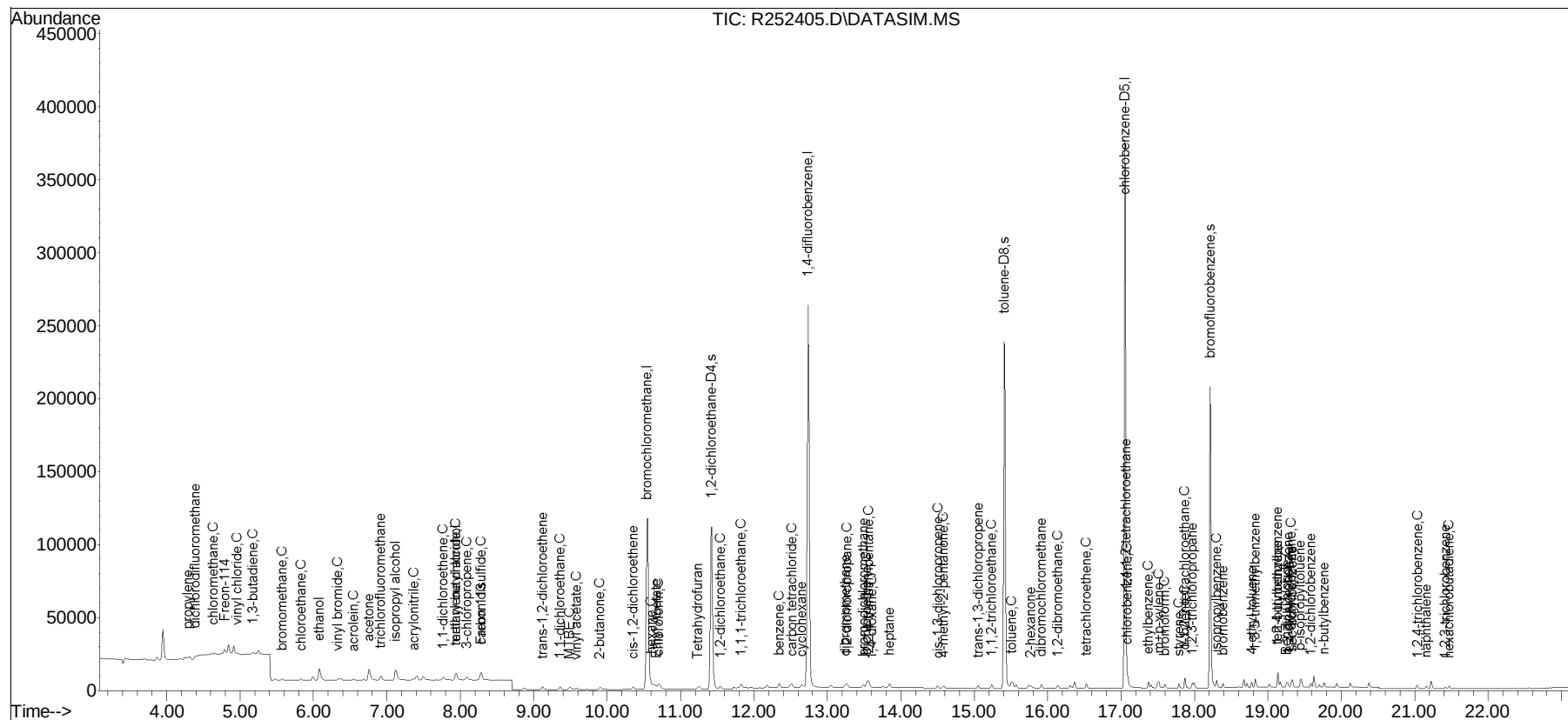
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252405.D
 Acq On : 7 Feb 2018 3:36 pm
 Operator : AIRPIANO2:RY
 Sample : IT015-SIMSTD0.1
 Misc : WG1087635
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 08 09:42:12 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

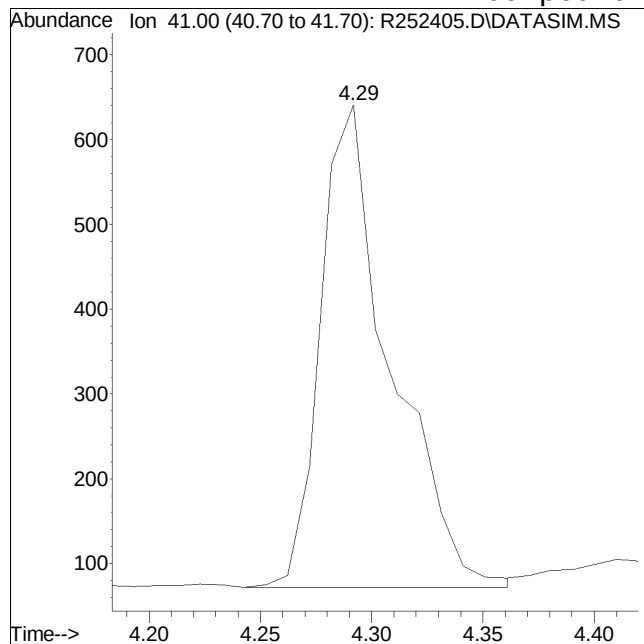
Sub List : Default - All compounds listed 0207SIM_ICAL\R252409.D



Manual Integration/Negative Proof Report

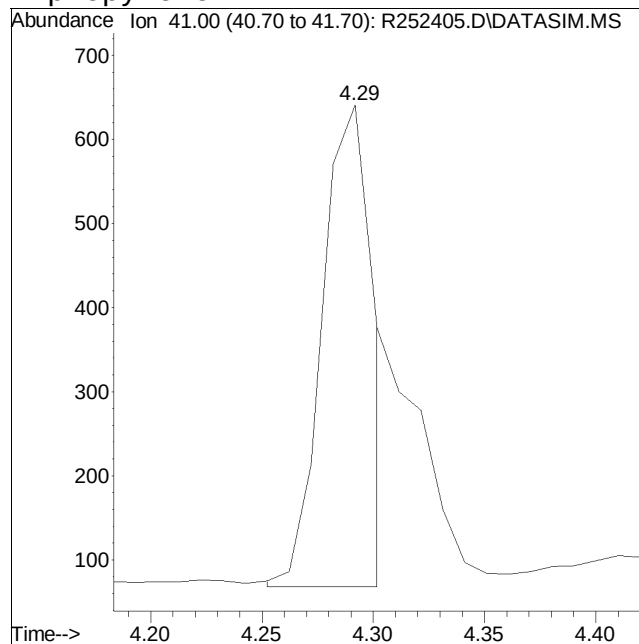
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252405.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 3:36 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/8/2018 9:37 am

Compound #2: propylene



Original Peak Response = 1243

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

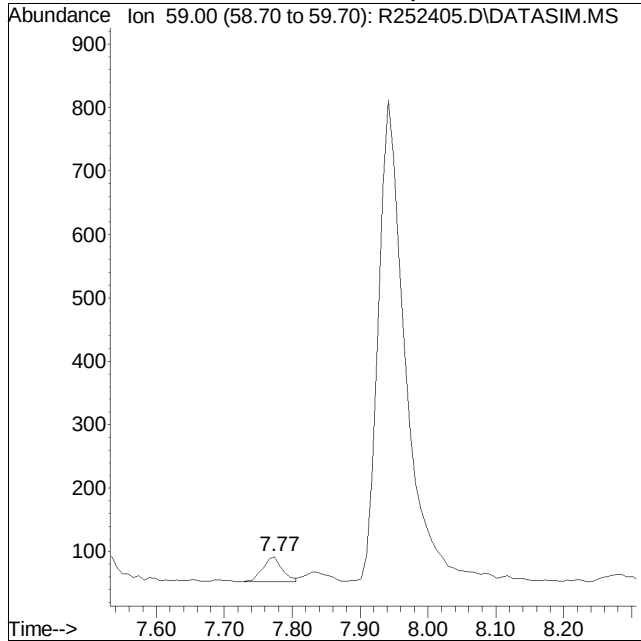


Manual Peak Response = 916 M6

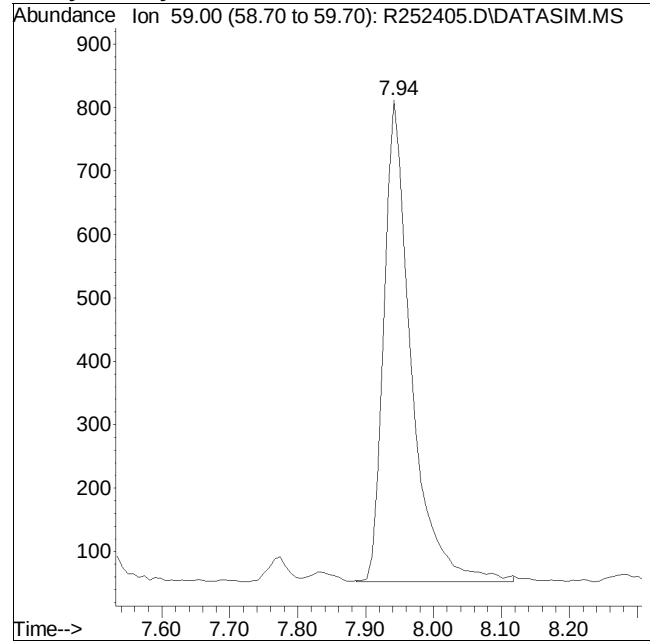
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252405.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 3:36 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/8/2018 9:37 am

Compound #18: tertiary butyl alcohol



Original Peak Response = 81



Manual Peak Response = 2129 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 : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252406.D
 Acq On : 7 Feb 2018 4:09 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1087635
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:43:22 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.54	49	175724	10.000	ppbV	0.00
Standard Area = 176579			Recovery =		99.52%	
33) 1,4-difluorobenzene	12.74	114	248704	10.000	ppbV	0.00
Standard Area = 260561			Recovery =		95.45%	
51) chlorobenzene-D5	17.05	54	77608	10.000	ppbV	0.00
Standard Area = 80462			Recovery =		96.45%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.41	65	103162	10.450	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		104.50%	
53) toluene-D8	15.41	98	213753	10.052	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.52%	
67) bromofluorobenzene	18.21	95	101713	8.290	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		82.90%	
Target Compounds						
					Qvalue	
2) propylene	4.28	41	2130M6	0.208	ppbV	
3) dichlorodifluoromethane	4.39	85	2243	0.294	ppbV	98
4) chloromethane	4.63	50	3337	0.236	ppbV	93
5) Freon-114	4.78	85	6200	0.315	ppbV	99
6) vinyl chloride	4.96	62	3170	0.228	ppbV	93
7) 1,3-butadiene	5.17	54	2082	0.214	ppbV #	73
8) bromomethane	5.57	94	2389	0.231	ppbV	99
9) chloroethane	5.83	64	1599	0.242	ppbV	98
10) ethanol	6.07	31	16168	1.347	ppbV	97
11) vinyl bromide	6.33	106	2102	0.223	ppbV	98
12) acrolein	6.53	56	1224	0.226	ppbV #	1
13) acetone	6.73	43	24378	1.282	ppbV #	100
14) trichlorofluoromethane	6.92	101	6644	0.231	ppbV	99
15) isopropyl alcohol	7.10	45	15981	0.827	ppbV #	97
16) acrylonitrile	7.36	53	2271M6	0.223	ppbV	
17) 1,1-dichloroethene	7.77	61	5295	0.229	ppbV	98
18) tertiary butyl alcohol	7.92	59	4207	0.226	ppbV	89
19) methylene chloride	7.93	49	4847	0.244	ppbV	98
20) 3-chloropropene	8.09	41	4532	0.223	ppbV	96
21) carbon disulfide	8.28	76	7694	0.220	ppbV #	1
22) Freon 113	8.29	101	4948	0.229	ppbV	99
23) trans-1,2-dichloroethene	9.11	61	4738	0.226	ppbV	98
24) 1,1-dichloroethane	9.35	63	6117	0.232	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252406.D
 Acq On : 7 Feb 2018 4:09 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1087635
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:43:22 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	9.48	73	5723	0.218	ppbV	#	90
26) vinyl acetate	9.57	43	4807	0.171	ppbV	#	93
27) 2-butanone	9.89	43	7668	0.222	ppbV	#	98
28) cis-1,2-dichloroethene	10.35	61	4718	0.230	ppbV		99
29) Ethyl Acetate	10.66	61	598	0.169	ppbV	#	43
30) chloroform	10.70	83	5400	0.224	ppbV		98
31) Tetrahydrofuran	11.22	42	2992	0.197	ppbV		94
32) 1,2-dichloroethane	11.54	62	4224	0.225	ppbV		95
34) hexane	10.60	57	3614	0.202	ppbV	#	57
36) 1,1,1-trichloroethane	11.82	97	4647	0.231	ppbV		94
37) benzene	12.35	78	6649	0.215	ppbV		96
38) carbon tetrachloride	12.52	117	4624	0.226	ppbV		98
39) cyclohexane	12.65	56	3323	0.188	ppbV		92
40) dibromomethane	13.24	93	2890	0.239	ppbV		99
41) 1,2-dichloropropane	13.27	63	3092	0.221	ppbV	#	93
42) bromodichloromethane	13.49	83	5560	0.227	ppbV		99
43) 1,4-dioxane	13.59	88	973	0.173	ppbV		85
44) trichloroethene	13.53	130	2618	0.223	ppbV		99
45) 2,2,4-trimethylpentane	13.55	57	10812	0.182	ppbV	#	88
46) heptane	13.85	43	4593	0.178	ppbV	#	96
47) cis-1,3-dichloropropene	14.50	75	3326	0.193	ppbV		94
48) 4-methyl-2-pentanone	14.57	43	5186	0.154	ppbV	#	95
49) trans-1,3-dichloropropene	15.05	75	3217	0.185	ppbV		92
50) 1,1,2-trichloroethane	15.24	97	2730	0.223	ppbV		94
52) toluene	15.51	91	7291	0.205	ppbV		99
54) 2-hexanone	15.76	43	4988	0.149	ppbV	#	94
55) dibromochloromethane	15.92	129	4149	0.205	ppbV		99
56) 1,2-dibromoethane	16.14	107	3925	0.204	ppbV		97
57) tetrachloroethene	16.53	166	3130	0.211	ppbV		97
58) 1,1,1,2-tetrachloroethane	17.07	131	3017	0.212	ppbV		96
59) chlorobenzene	17.09	112	5943	0.211	ppbV		99
60) ethylbenzene	17.37	91	7807	0.170	ppbV		100
61) m+p-xylene	17.51	91	12039	0.322	ppbV		99
62) bromoform	17.60	173	3532	0.190	ppbV		99
63) styrene	17.79	104	3977	0.153	ppbV		98
64) 1,1,2,2-tetrachloroethane	17.87	83	6076	0.185	ppbV		99
65) o-xylene	17.87	91	6134	0.160	ppbV		98
66) 1,2,3-trichloropropane	17.97	75	4983	0.199	ppbV		100
68) isopropylbenzene	18.30	105	7666	0.171	ppbV		99
69) bromobenzene	18.39	77	5494	0.195	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252406.D
 Acq On : 7 Feb 2018 4:09 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1087635
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:43:22 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70)	4-ethyl toluene	18.78	105	6970	0.143	ppbV	#	96
71)	1,3,5-trimethylbenzene	18.83	105	6276	0.153	ppbV	#	95
72)	tert-butylbenzene	19.13	119	6181	0.150	ppbV		98
73)	1,2,4-trimethylbenzene	19.13	105	5938	0.141	ppbV		94
74)	Benzyl Chloride	19.25	91	4641	0.145	ppbV		97
75)	1,3-dichlorobenzene	19.27	146	5173	0.175	ppbV		98
76)	1,4-dichlorobenzene	19.32	146	5469	0.181	ppbV		98
77)	sec-butylbenzene	19.33	105	8597	0.145	ppbV		99
78)	p-isopropyltoluene	19.44	119	6588	0.135	ppbV		95
79)	1,2-dichlorobenzene	19.59	146	4982	0.181	ppbV		100
80)	n-butylbenzene	19.77	91	7058	0.132	ppbV		99
81)	1,2,4-trichlorobenzene	21.03	180	3604	0.141	ppbV	#	85
82)	naphthalene	21.16	128	6807	0.129	ppbV		99
83)	1,2,3-trichlorobenzene	21.42	180	3262	0.138	ppbV		99
84)	hexachlorobutadiene	21.47	225	3308	0.160	ppbV		91

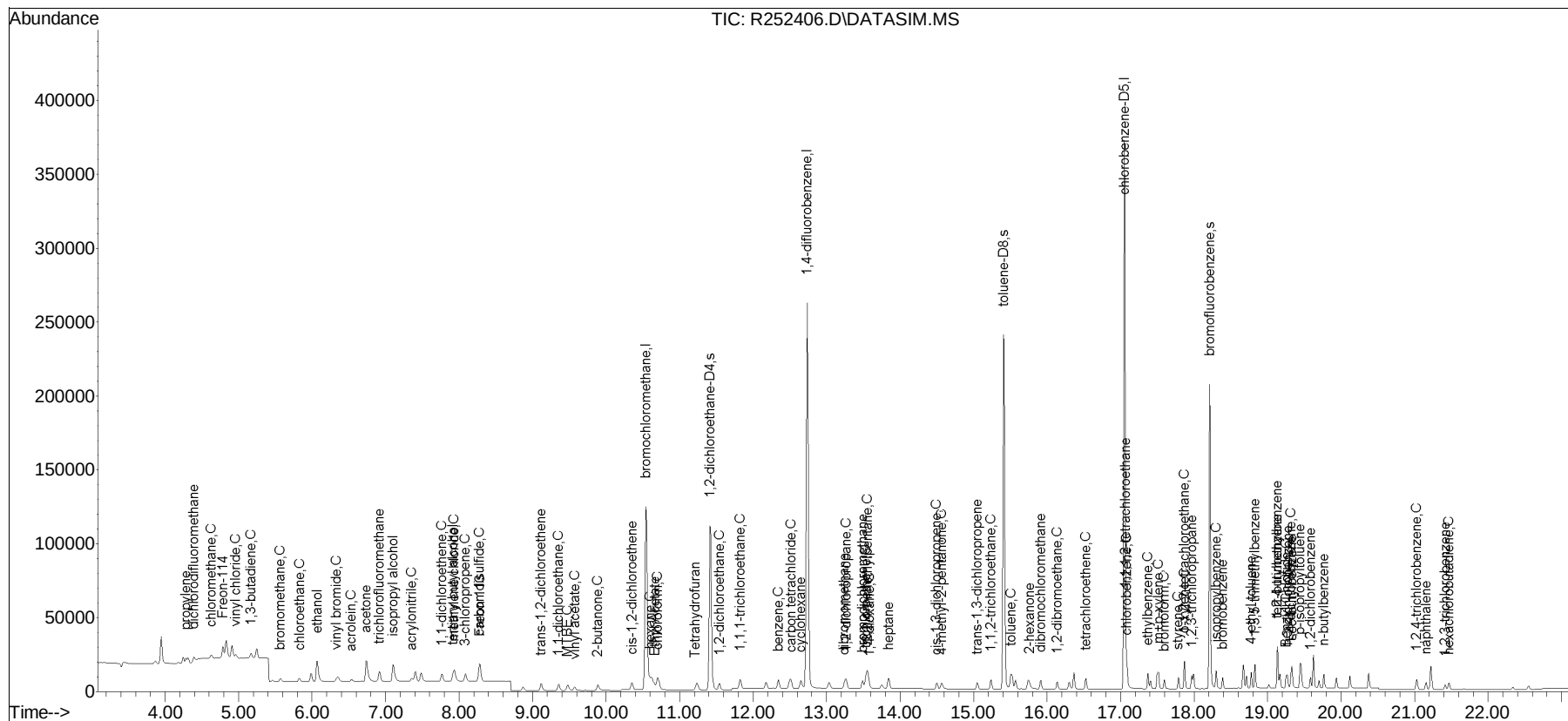
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
Data File  : R252406.D
Acq On     : 7 Feb 2018    4:09 pm
Operator   : AIRPIAN02:RY
Sample     : IT015-SIMSTD0.2
Misc       : WG1087635
ALS Vial   : 6    Sample Multiplier: 1
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Quant Time: Feb 08 09:43:22 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:37:23 2018
Response via : Initial Calibration

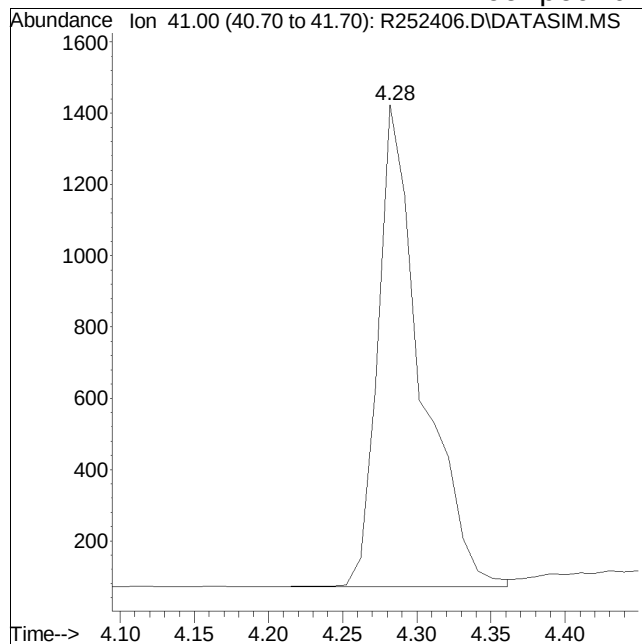
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Manual Integration/Negative Proof Report

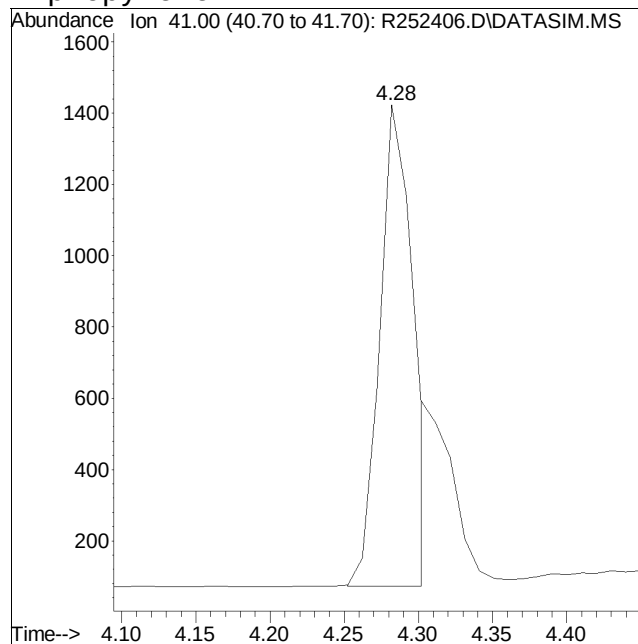
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Data File : R252406.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 4:09 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2018 9:37 am

Compound #2: propylene



Original Peak Response = 2765

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

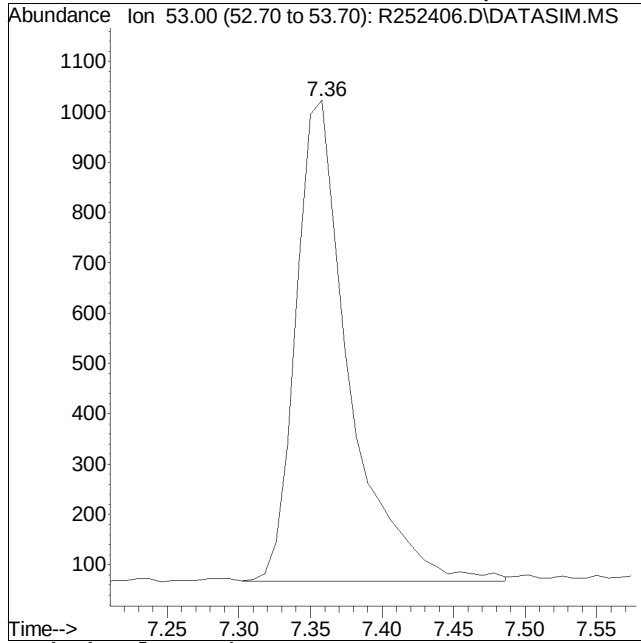


Manual Peak Response = 2130 M6

Manual Integration/Negative Proof Report

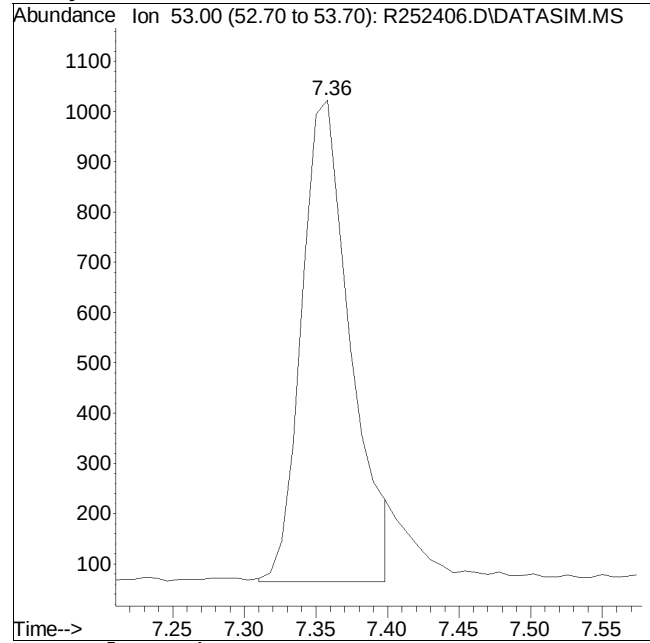
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252406.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 4:09 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2018 9:37 am

Compound #16: acrylonitrile



Original Peak Response = 2457

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 2271 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252407.D
 Acq On : 7 Feb 2018 4:42 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1087635
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:44:28 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.54	49	169889	10.000	ppbV	0.00
Standard Area = 176579			Recovery =		96.21%	
33) 1,4-difluorobenzene	12.74	114	253824	10.000	ppbV	0.00
Standard Area = 260561			Recovery =		97.41%	
51) chlorobenzene-D5	17.05	54	78244	10.000	ppbV	0.00
Standard Area = 80462			Recovery =		97.24%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.41	65	102496	10.173	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		101.73%	
53) toluene-D8	15.41	98	216997	10.122	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		101.22%	
67) bromofluorobenzene	18.21	95	118817	9.605	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.05%	
Target Compounds						
					Qvalue	
2) propylene	4.28	41	5019M6	0.508	ppbV	
3) dichlorodifluoromethane	4.39	85	4790	0.650	ppbV	100
4) chloromethane	4.63	50	7638	0.559	ppbV	96
5) Freon-114	4.78	85	13135	0.690	ppbV	99
6) vinyl chloride	4.96	62	7207	0.537	ppbV	97
7) 1,3-butadiene	5.17	54	4860	0.515	ppbV	85
8) bromomethane	5.57	94	5496	0.549	ppbV	98
9) chloroethane	5.83	64	3548	0.555	ppbV	99
10) ethanol	6.06	31	33722	2.907	ppbV	100
11) vinyl bromide	6.33	106	4790	0.526	ppbV	99
12) acrolein	6.53	56	2738	0.524	ppbV #	47
13) acetone	6.72	43	53938	2.935	ppbV #	99
14) trichlorofluoromethane	6.92	101	15027	0.541	ppbV	100
15) isopropyl alcohol	7.09	45	30935	1.656	ppbV	99
16) acrylonitrile	7.34	53	5007M6	0.507	ppbV	
17) 1,1-dichloroethene	7.77	61	12016	0.537	ppbV	98
18) tertiary butyl alcohol	7.90	59	9619	0.535	ppbV #	89
19) methylene chloride	7.93	49	10790	0.563	ppbV	97
20) 3-chloropropene	8.09	41	10368	0.527	ppbV	98
21) carbon disulfide	8.28	76	17854	0.528	ppbV #	45
22) Freon 113	8.28	101	11268	0.539	ppbV	99
23) trans-1,2-dichloroethene	9.11	61	10834	0.534	ppbV	98
24) 1,1-dichloroethane	9.35	63	13905	0.546	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252407.D
 Acq On : 7 Feb 2018 4:42 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1087635
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:44:28 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.46	73	13146	0.517	ppbV	95
26) vinyl acetate	9.57	43	11166	0.411	ppbV	98
27) 2-butanone	9.88	43	17282	0.518	ppbV	99
28) cis-1,2-dichloroethene	10.35	61	10636	0.535	ppbV	100
29) Ethyl Acetate	10.65	61	1411	0.413	ppbV #	54
30) chloroform	10.70	83	12305	0.528	ppbV	99
31) Tetrahydrofuran	11.21	42	7267	0.495	ppbV	91
32) 1,2-dichloroethane	11.54	62	9610	0.529	ppbV	98
34) hexane	10.60	57	8227	0.452	ppbV #	82
36) 1,1,1-trichloroethane	11.82	97	10718	0.523	ppbV	97
37) benzene	12.35	78	15390	0.488	ppbV	99
38) carbon tetrachloride	12.52	117	10703	0.512	ppbV	99
39) cyclohexane	12.65	56	8137	0.452	ppbV	96
40) dibromomethane	13.24	93	6471	0.524	ppbV	100
41) 1,2-dichloropropane	13.27	63	7144	0.499	ppbV	96
42) bromodichloromethane	13.49	83	12466	0.500	ppbV	99
43) 1,4-dioxane	13.58	88	2375	0.414	ppbV	97
44) trichloroethene	13.53	130	6003	0.500	ppbV	99
45) 2,2,4-trimethylpentane	13.55	57	26423	0.435	ppbV	93
46) heptane	13.85	43	11437	0.435	ppbV	100
47) cis-1,3-dichloropropene	14.50	75	7734	0.439	ppbV	96
48) 4-methyl-2-pentanone	14.55	43	12640	0.369	ppbV	99
49) trans-1,3-dichloropropene	15.05	75	7562	0.426	ppbV	97
50) 1,1,2-trichloroethane	15.24	97	6340	0.508	ppbV	98
52) toluene	15.51	91	17056	0.476	ppbV	100
54) 2-hexanone	15.75	43	12594	0.373	ppbV	95
55) dibromochloromethane	15.92	129	9695	0.475	ppbV	99
56) 1,2-dibromoethane	16.13	107	9267	0.478	ppbV	100
57) tetrachloroethene	16.53	166	7284	0.487	ppbV	100
58) 1,1,1,2-tetrachloroethane	17.07	131	7069	0.493	ppbV	99
59) chlorobenzene	17.09	112	13889	0.490	ppbV	99
60) ethylbenzene	17.37	91	18943	0.408	ppbV	99
61) m+p-xylene	17.51	91	31036	0.824	ppbV	98
62) bromoform	17.60	173	8391	0.447	ppbV	99
63) styrene	17.79	104	10055	0.384	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.87	83	15060	0.455	ppbV	100
65) o-xylene	17.87	91	15724	0.406	ppbV	100
66) 1,2,3-trichloropropane	17.97	75	12309	0.487	ppbV	99
68) isopropylbenzene	18.30	105	19139	0.424	ppbV	99
69) bromobenzene	18.39	77	13214	0.466	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252407.D
 Acq On : 7 Feb 2018 4:42 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1087635
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:44:28 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.78	105	19117	0.390	ppbV	98
71) 1,3,5-trimethylbenzene	18.82	105	16288	0.393	ppbV	97
72) tert-butylbenzene	19.13	119	16515	0.397	ppbV	99
73) 1,2,4-trimethylbenzene	19.13	105	16051	0.378	ppbV	94
74) Benzyl Chloride	19.25	91	10880	0.337	ppbV	98
75) 1,3-dichlorobenzene	19.27	146	13350	0.448	ppbV	97
76) 1,4-dichlorobenzene	19.32	146	13541	0.445	ppbV	94
77) sec-butylbenzene	19.33	105	23232	0.389	ppbV	99
78) p-isopropyltoluene	19.44	119	17754	0.360	ppbV	99
79) 1,2-dichlorobenzene	19.58	146	12262	0.443	ppbV	96
80) n-butylbenzene	19.76	91	19553	0.363	ppbV	97
81) 1,2,4-trichlorobenzene	21.03	180	9592	0.372	ppbV #	90
82) naphthalene	21.15	128	18506	0.349	ppbV	97
83) 1,2,3-trichlorobenzene	21.42	180	8683	0.364	ppbV #	93
84) hexachlorobutadiene	21.47	225	8249	0.395	ppbV #	88

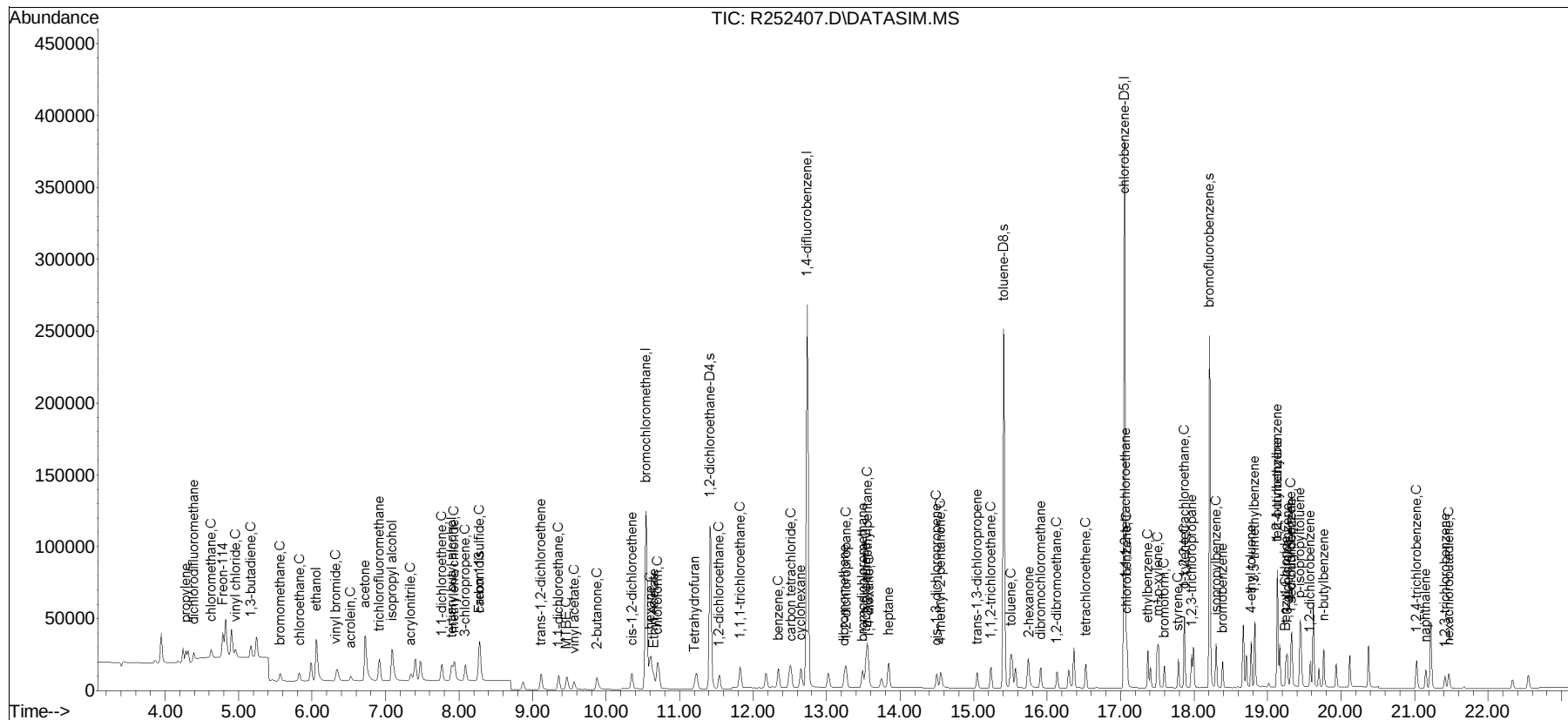
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
Data File  : R252407.D
Acq On     : 7 Feb 2018    4:42 pm
Operator   : AIRPIAN02:RY
Sample     : IT015-SIMSTD0.5
Misc       : WG1087635
ALS Vial   : 6    Sample Multiplier: 1
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Quant Time: Feb 08 09:44:28 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:37:23 2018
Response via : Initial Calibration

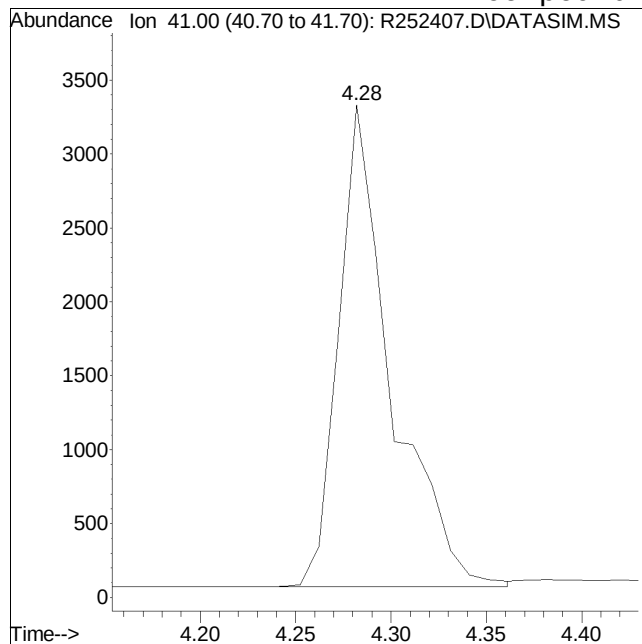
Sub List : Default - All compounds listed0207SIM_ICAL\R252409.D



Manual Integration/Negative Proof Report

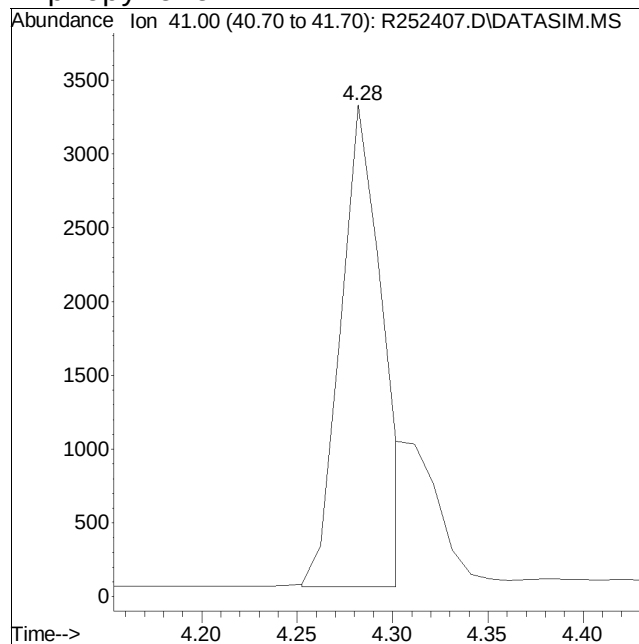
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252407.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 4:42 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2018 9:37 am

Compound #2: propylene



Original Peak Response = 6243

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

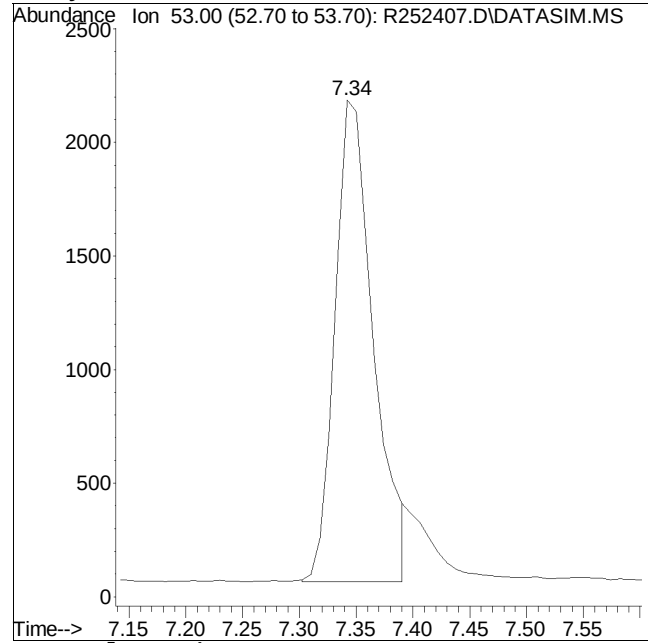
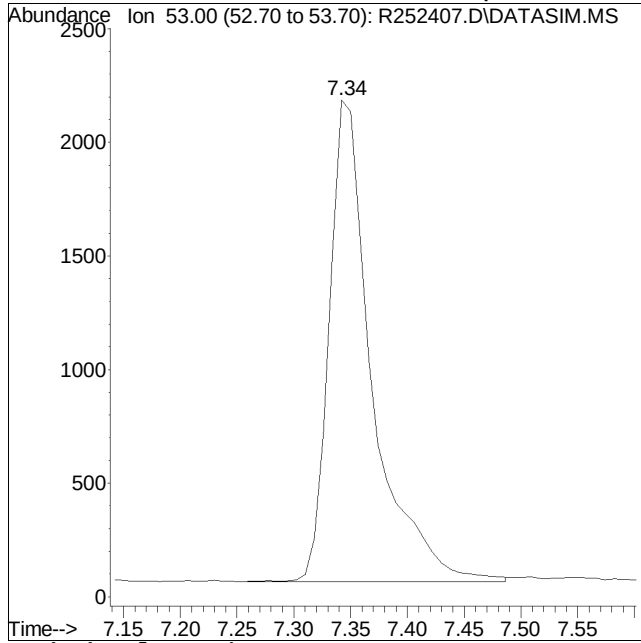


Manual Peak Response = 5019 M6

Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\201801 Method : TSIM180207.M
Data File : R252407.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 4:42 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2018 9:37 am

Compound #16: acrylonitrile



M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252408.D
 Acq On : 7 Feb 2018 5:18 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1087635
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:45:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.54	49	168074	10.000	ppbV	0.00
Standard Area = 176579			Recovery =	95.18%		
33) 1,4-difluorobenzene	12.74	114	251002	10.000	ppbV	0.00
Standard Area = 260561			Recovery =	96.33%		
51) chlorobenzene-D5	17.05	54	77752	10.000	ppbV	0.00
Standard Area = 80462			Recovery =	96.63%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.41	65	103176	10.356	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.56%		
53) toluene-D8	15.41	98	217065	10.189	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.89%		
67) bromofluorobenzene	18.21	95	116422	9.471	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.71%		
Target Compounds						
					Qvalue	
2) propylene	4.28	41	9943M6	1.017	ppbV	
3) dichlorodifluoromethane	4.39	85	8720	1.196	ppbV	99
4) chloromethane	4.63	50	14567	1.077	ppbV	95
5) Freon-114	4.78	85	26694	1.418	ppbV	99
6) vinyl chloride	4.96	62	14084	1.061	ppbV	97
7) 1,3-butadiene	5.17	54	9480	1.016	ppbV	90
8) bromomethane	5.57	94	10595	1.069	ppbV	98
9) chloroethane	5.82	64	6774	1.070	ppbV	95
10) ethanol	6.05	31	60105	5.237	ppbV	100
11) vinyl bromide	6.33	106	9323	1.035	ppbV	98
12) acrolein	6.52	56	5336	1.032	ppbV #	77
13) acetone	6.71	43	102320	5.627	ppbV #	98
14) trichlorofluoromethane	6.92	101	29169	1.061	ppbV	100
15) isopropyl alcohol	7.08	45	54108	2.927	ppbV	99
16) acrylonitrile	7.34	53	9830M6	1.007	ppbV	
17) 1,1-dichloroethene	7.77	61	23187	1.047	ppbV	100
18) tertiary butyl alcohol	7.89	59	18307	1.029	ppbV	91
19) methylene chloride	7.93	49	20879	1.101	ppbV	97
20) 3-chloropropene	8.09	41	20015	1.028	ppbV	98
21) carbon disulfide	8.28	76	34701	1.037	ppbV #	74
22) Freon 113	8.28	101	21729	1.051	ppbV	99
23) trans-1,2-dichloroethene	9.11	61	21069	1.050	ppbV	98
24) 1,1-dichloroethane	9.35	63	26804	1.064	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252408.D
 Acq On : 7 Feb 2018 5:18 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1087635
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:45:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.46	73	25441	1.012	ppbV	98
26) vinyl acetate	9.56	43	22764	0.846	ppbV	99
27) 2-butanone	9.87	43	33520	1.016	ppbV	99
28) cis-1,2-dichloroethene	10.35	61	20477	1.041	ppbV	100
29) Ethyl Acetate	10.64	61	2957	0.876	ppbV	67
30) chloroform	10.70	83	23900	1.036	ppbV	99
31) Tetrahydrofuran	11.20	42	14568	1.004	ppbV	92
32) 1,2-dichloroethane	11.54	62	18643	1.038	ppbV	99
34) hexane	10.60	57	16398	0.910	ppbV #	98
36) 1,1,1-trichloroethane	11.82	97	20767	1.025	ppbV	97
37) benzene	12.35	78	30405	0.975	ppbV	99
38) carbon tetrachloride	12.52	117	20986	1.015	ppbV	99
39) cyclohexane	12.65	56	16263	0.913	ppbV	97
40) dibromomethane	13.24	93	12500	1.024	ppbV	100
41) 1,2-dichloropropane	13.27	63	14037	0.992	ppbV	98
42) bromodichloromethane	13.49	83	24936	1.010	ppbV	99
43) 1,4-dioxane	13.56	88	4836	0.851	ppbV	83
44) trichloroethene	13.53	130	11555	0.974	ppbV	100
45) 2,2,4-trimethylpentane	13.55	57	54501	0.907	ppbV	95
46) heptane	13.85	43	23381	0.900	ppbV	100
47) cis-1,3-dichloropropene	14.50	75	15692	0.901	ppbV	98
48) 4-methyl-2-pentanone	14.55	43	27042	0.798	ppbV #	97
49) trans-1,3-dichloropropene	15.05	75	15342	0.874	ppbV	98
50) 1,1,2-trichloroethane	15.24	97	12446	1.008	ppbV	98
52) toluene	15.51	91	33977	0.955	ppbV	99
54) 2-hexanone	15.74	43	26509	0.791	ppbV	97
55) dibromochloromethane	15.92	129	19337	0.953	ppbV	100
56) 1,2-dibromoethane	16.13	107	18256	0.948	ppbV	100
57) tetrachloroethene	16.53	166	14348	0.966	ppbV	99
58) 1,1,1,2-tetrachloroethane	17.07	131	13947	0.978	ppbV	98
59) chlorobenzene	17.09	112	27199	0.966	ppbV	96
60) ethylbenzene	17.37	91	39891	0.865	ppbV	99
61) m+p-xylene	17.51	91	65392	1.747	ppbV	100
62) bromoform	17.60	173	16909	0.907	ppbV	99
63) styrene	17.79	104	21532	0.828	ppbV	100
64) 1,1,2,2-tetrachloroethane	17.87	83	30712	0.934	ppbV	99
65) o-xylene	17.87	91	33410	0.869	ppbV	99
66) 1,2,3-trichloropropane	17.97	75	24500	0.975	ppbV	99
68) isopropylbenzene	18.30	105	39775	0.887	ppbV	99
69) bromobenzene	18.39	77	26494	0.940	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252408.D
 Acq On : 7 Feb 2018 5:18 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1087635
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 09:45:52 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.78	105	41623	0.854	ppbV	99
71) 1,3,5-trimethylbenzene	18.82	105	35763	0.869	ppbV	96
72) tert-butylbenzene	19.13	119	36022	0.871	ppbV	99
73) 1,2,4-trimethylbenzene	19.13	105	35332	0.836	ppbV	94
74) Benzyl Chloride	19.25	91	23166	0.722	ppbV	99
75) 1,3-dichlorobenzene	19.27	146	27204	0.920	ppbV	97
76) 1,4-dichlorobenzene	19.32	146	27690	0.916	ppbV	95
77) sec-butylbenzene	19.33	105	50919	0.857	ppbV	98
78) p-isopropyltoluene	19.44	119	39926	0.815	ppbV	99
79) 1,2-dichlorobenzene	19.58	146	25140	0.913	ppbV	97
80) n-butylbenzene	19.76	91	43593	0.815	ppbV	97
81) 1,2,4-trichlorobenzene	21.03	180	20182	0.787	ppbV #	92
82) naphthalene	21.15	128	39293	0.745	ppbV	98
83) 1,2,3-trichlorobenzene	21.42	180	17918	0.756	ppbV #	91
84) hexachlorobutadiene	21.47	225	17089	0.823	ppbV #	87

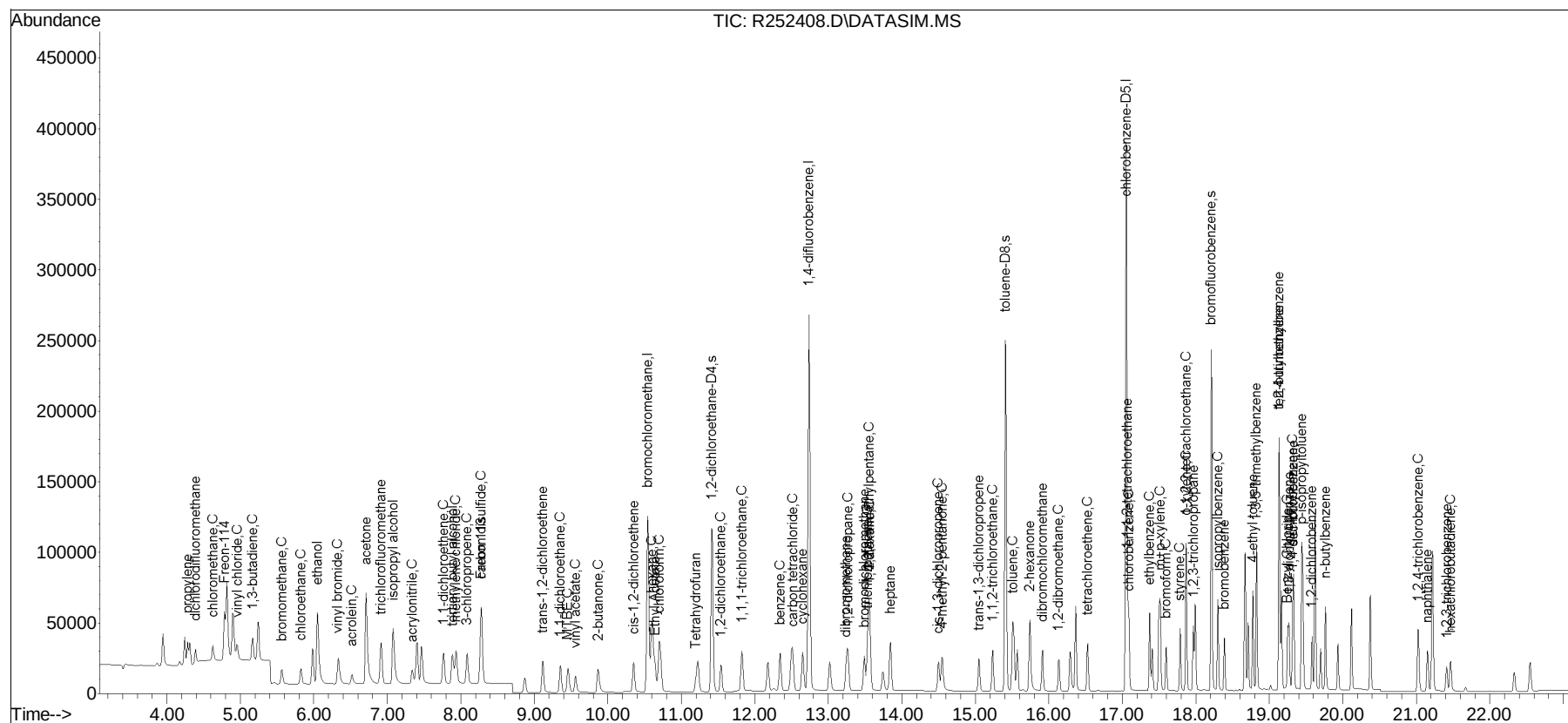
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
Data File : R252408.D
Acq On    : 7 Feb 2018    5:18 pm
Operator  : AIRPIAN02:RY
Sample    : IT015-SIMSTD1.0
Misc      : WG1087635
ALS Vial  : 6    Sample Multiplier: 1
```

Quant Time: Feb 08 09:45:52 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:37:23 2018
Response via : Initial Calibration

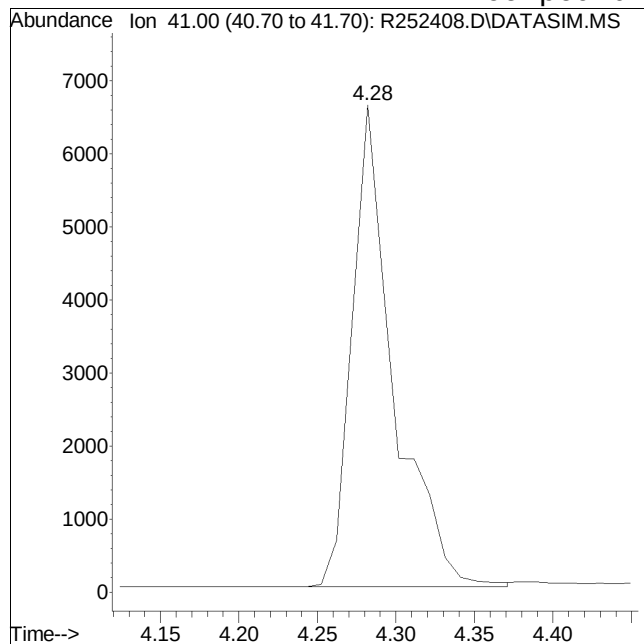
Sub List : Default - All compounds listed0207SIM_ICAL\R252409.D



Manual Integration/Negative Proof Report

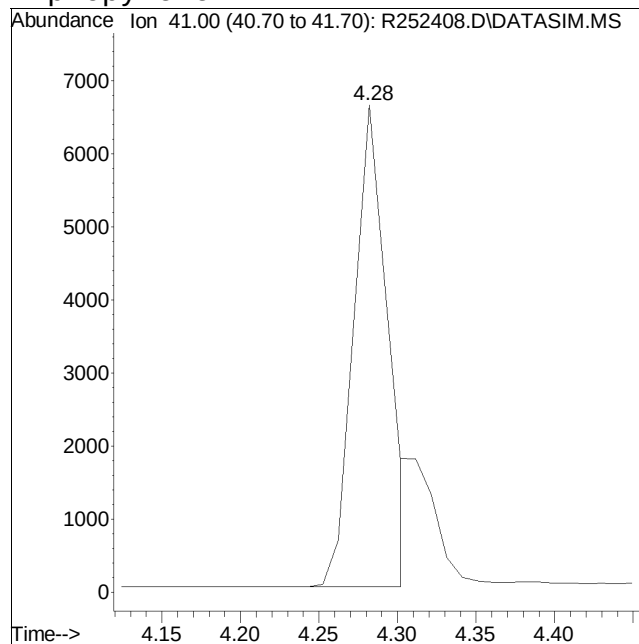
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252408.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 5:18 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2018 9:37 am

Compound #2: propylene



Original Peak Response = 12179

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

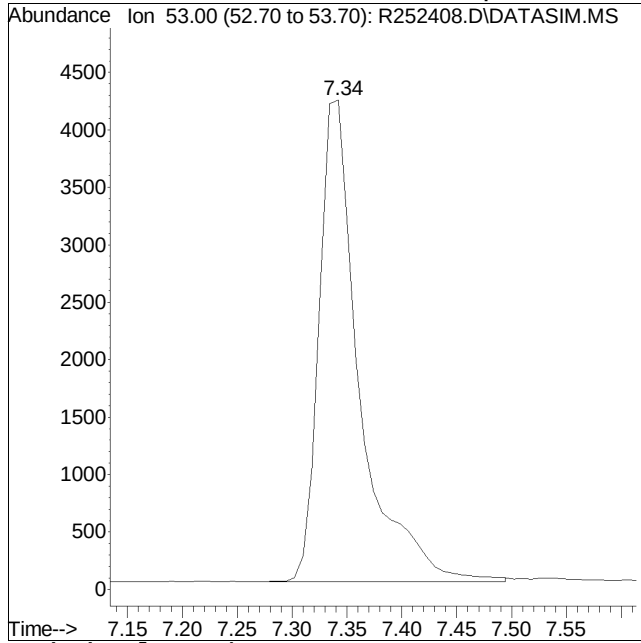


Manual Peak Response = 9943 M6

Manual Integration/Negative Proof Report

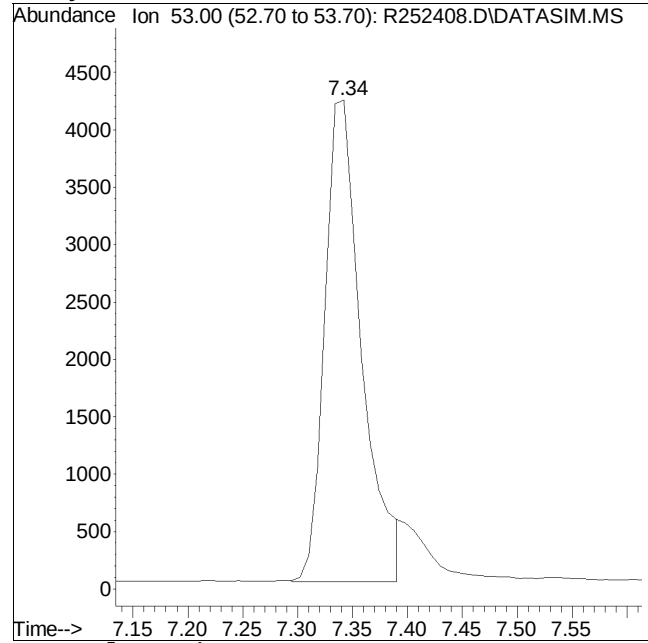
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252408.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 5:18 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2018 9:37 am

Compound #16: acrylonitrile



Original Peak Response = 10830

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 9830 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252409.D
 Acq On : 7 Feb 2018 5:52 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1087635
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:36:47 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 05 20:44:35 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.54	49	176579	10.000	ppbV	# 0.00
Standard Area = 176579			Recovery =	100.00%		
33) 1,4-difluorobenzene	12.74	114	260561	10.000	ppbV	0.00
Standard Area = 260561			Recovery =	100.00%		
51) chlorobenzene-D5	17.05	54	80462	10.000	ppbV	0.00
Standard Area = 80462			Recovery =	100.00%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.41	65	103424	13.398	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	133.98%#		
53) toluene-D8	15.41	98	220461	7.600	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	76.00%		
67) bromofluorobenzene	18.21	95	127210	7.826	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	78.26%		
Target Compounds						
						Qvalue
2) propylene	4.28	41	51355M6	4.338	ppbV	
3) dichlorodifluoromethane	4.39	85	38297	3.961	ppbV	99
4) chloromethane	4.62	50	71034	5.332	ppbV	98
5) Freon-114	4.78	85	98914	3.909	ppbV	92
6) vinyl chloride	4.95	62	69703	4.797	ppbV	99
7) 1,3-butadiene	5.17	54	48995	5.280	ppbV	91
8) bromomethane	5.56	94	52073	4.085	ppbV	99
9) chloroethane	5.82	64	33246	4.688	ppbV	# 89
10) ethanol	6.03	31	301423	33.295	ppbV	86
11) vinyl bromide	6.33	106	47310	3.876	ppbV	99
12) acrolein	6.51	56	27169	4.443	ppbV	# 91
13) acetone	6.69	43	477608	27.200	ppbV	91
14) trichlorofluoromethane	6.92	101	144352	4.675	ppbV	99
15) isopropyl alcohol	7.05	45	242757	11.090	ppbV	98
16) acrylonitrile	7.33	53	51275	5.235	ppbV	100
17) 1,1-dichloroethene	7.77	61	116293	5.063	ppbV	94
18) tertiary butyl alcohol	7.85	59	93414	3.715	ppbV	# 63
19) methylene chloride	7.93	49	99616	5.713	ppbV	# 79
20) 3-chloropropene	8.09	41	102307	5.745	ppbV	# 92
21) carbon disulfide	8.28	76	175848	4.507	ppbV	# 86
22) Freon 113	8.28	101	108623	4.179	ppbV	92
23) trans-1,2-dichloroethene	9.11	61	105413	5.097	ppbV	87
24) 1,1-dichloroethane	9.35	63	132346	5.293	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252409.D
 Acq On : 7 Feb 2018 5:52 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1087635
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:36:47 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 05 20:44:35 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	9.44	73	132111	4.232	ppbV	#	91
26) vinyl acetate	9.55	43	141301	5.751	ppbV	#	95
27) 2-butanone	9.85	43	173368	6.540	ppbV	#	90
28) cis-1,2-dichloroethene	10.35	61	103280	5.483	ppbV		87
29) Ethyl Acetate	10.62	61	17740	3.613	ppbV	#	54
30) chloroform	10.70	83	121188	4.046	ppbV	#	96
31) Tetrahydrofuran	11.17	42	76225M6	3.916	ppbV		
32) 1,2-dichloroethane	11.54	62	94327	4.423	ppbV		99
34) hexane	10.59	57	93491	6.136	ppbV	#	93
36) 1,1,1-trichloroethane	11.82	97	105153	5.469	ppbV		89
37) benzene	12.35	78	161802	5.141	ppbV		96
38) carbon tetrachloride	12.52	117	107306	5.762	ppbV		99
39) cyclohexane	12.65	56	92440	5.508	ppbV		89
40) dibromomethane	13.24	93	63345	4.969	ppbV		92
41) 1,2-dichloropropane	13.27	63	73411	5.526	ppbV	#	92
42) bromodichloromethane	13.49	83	128087	5.781	ppbV		99
43) 1,4-dioxane	13.54	88	29480	4.595	ppbV		83
44) trichloroethene	13.53	130	61573	4.650	ppbV		97
45) 2,2,4-trimethylpentane	13.55	57	311915	5.900	ppbV	#	90
46) heptane	13.85	43	134808	6.419	ppbV		95
47) cis-1,3-dichloropropene	14.50	75	90423	5.251	ppbV	#	85
48) 4-methyl-2-pentanone	14.53	43	175868	6.096	ppbV	#	91
49) trans-1,3-dichloropropene	15.05	75	91111	5.474	ppbV	#	86
50) 1,1,2-trichloroethane	15.24	97	64105	5.157	ppbV	#	90
52) toluene	15.51	91	184143	3.760	ppbV		100
54) 2-hexanone	15.73	43	173399	4.927	ppbV	#	91
55) dibromochloromethane	15.92	129	104991	3.927	ppbV		100
56) 1,2-dibromoethane	16.13	107	99615	3.834	ppbV		97
57) tetrachloroethene	16.53	166	76828	3.518	ppbV		94
58) 1,1,1,2-tetrachloroethane	17.07	131	73784	3.885	ppbV		98
59) chlorobenzene	17.09	112	145727	3.761	ppbV		94
60) ethylbenzene	17.37	91	238648	3.843	ppbV		99
61) m+p-xylene	17.51	91	387279	8.018	ppbV		99
62) bromoform	17.60	173	96481	3.879	ppbV		100
63) styrene	17.79	104	134636	3.752	ppbV		98
64) 1,1,2,2-tetrachloroethane	17.87	83	170091	4.425	ppbV		100
65) o-xylene	17.87	91	198934	4.045	ppbV		98
66) 1,2,3-trichloropropane	17.96	75	129958	4.278	ppbV	#	89
68) isopropylbenzene	18.30	105	232149	3.820	ppbV		99
69) bromobenzene	18.39	77	145850	3.952	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252409.D
 Acq On : 7 Feb 2018 5:52 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1087635
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:36:47 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 05 20:44:35 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.78	105	252211	4.186	ppbV	98
71) 1,3,5-trimethylbenzene	18.82	105	213030	4.002	ppbV	98
72) tert-butylbenzene	19.13	119	214062	4.115	ppbV	100
73) 1,2,4-trimethylbenzene	19.13	105	218571	4.269	ppbV	93
74) Benzyl Chloride	19.25	91	166125	3.951	ppbV	97
75) 1,3-dichlorobenzene	19.27	146	153066	3.977	ppbV	97
76) 1,4-dichlorobenzene	19.31	146	156370M3	3.902	ppbV	
77) sec-butylbenzene	19.33	105	307327	4.096	ppbV	100
78) p-isopropyltoluene	19.44	119	253625	4.023	ppbV	100
79) 1,2-dichlorobenzene	19.58	146	142480	3.872	ppbV	97
80) n-butylbenzene	19.76	91	276889	4.295	ppbV	99
81) 1,2,4-trichlorobenzene	21.03	180	132735	4.295	ppbV	97
82) naphthalene	21.15	128	272769	4.204	ppbV	100
83) 1,2,3-trichlorobenzene	21.40	180	122706	4.249	ppbV #	83
84) hexachlorobutadiene	21.46	225	107462	4.052	ppbV #	78

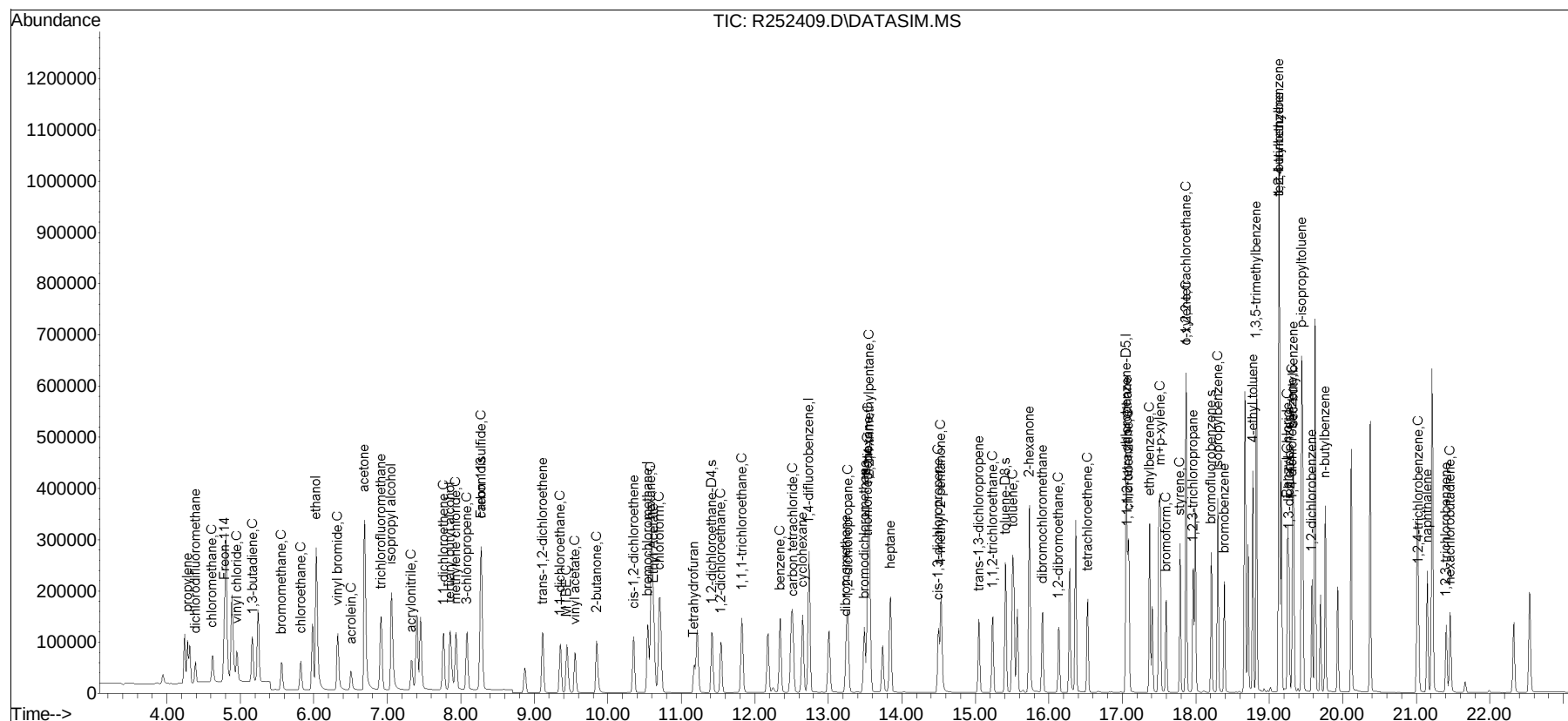
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252409.D
 Acq On : 7 Feb 2018 5:52 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1087635
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:36:47 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 05 20:44:35 2018
 Response via : Initial Calibration

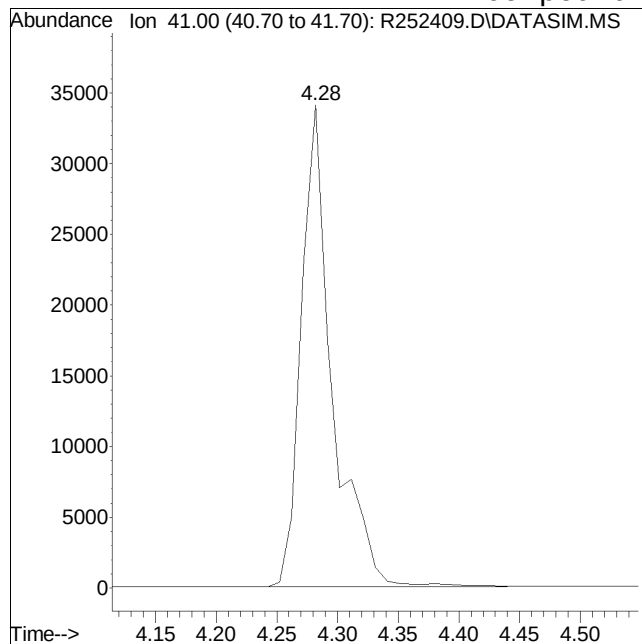
Sub List : Default - All compounds listed 0207SIM_ICAL\R252409.D



Manual Integration/Negative Proof Report

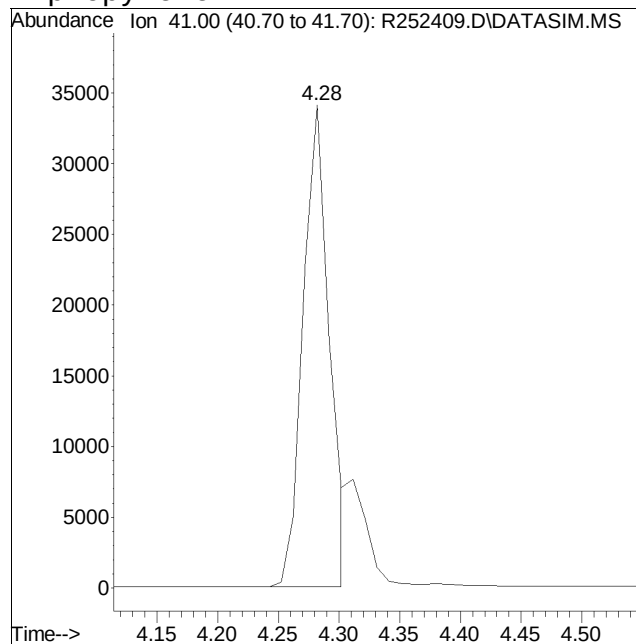
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252409.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 5:52 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2018 9:35 am

Compound #2: propylene



Original Peak Response = 60710

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

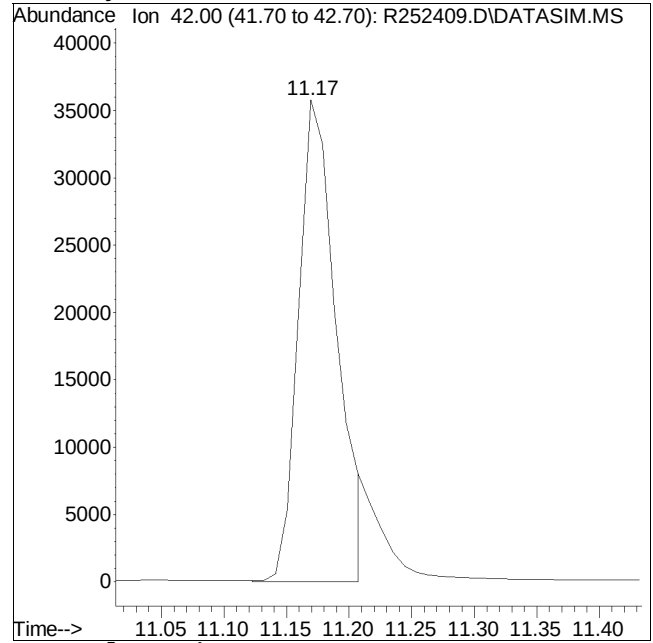
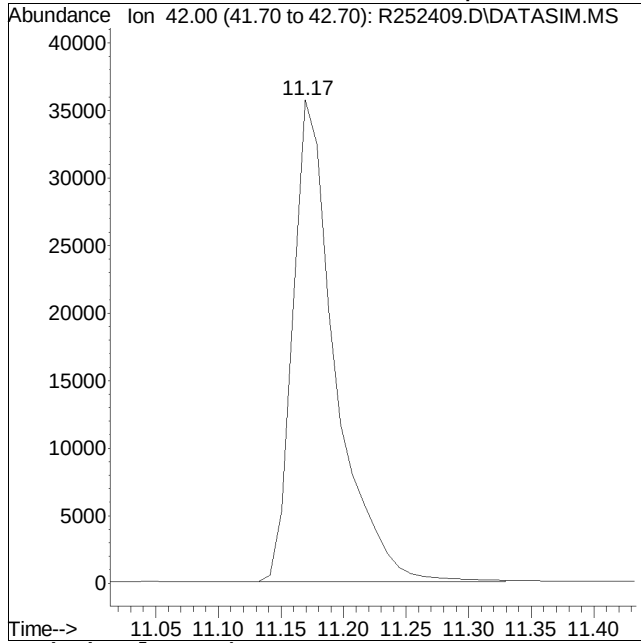


Manual Peak Response = 51355 M6

Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252409.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 5:52 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2018 9:35 am

Compound #31: Tetrahydrofuran

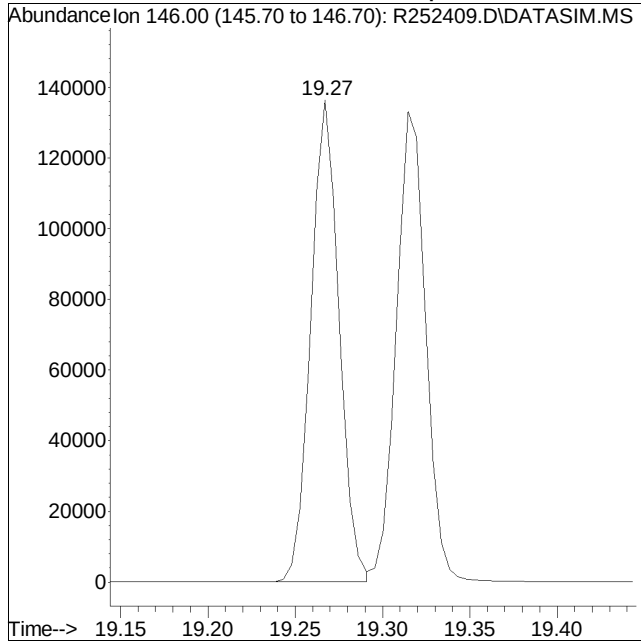


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

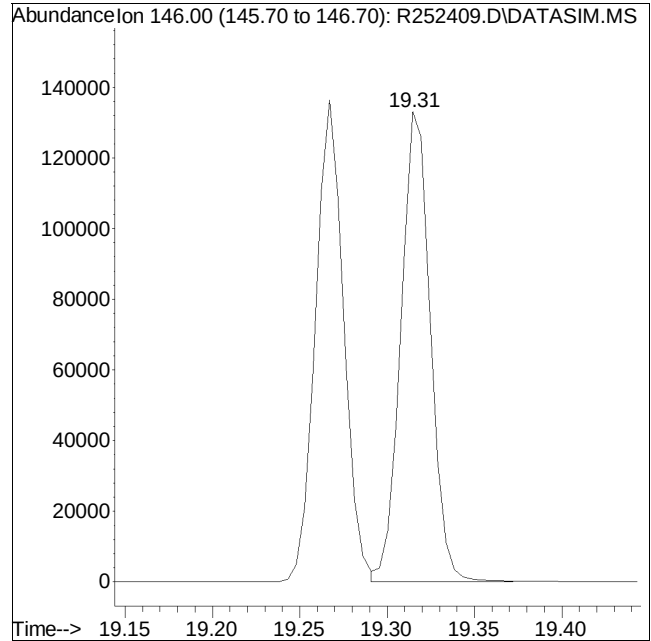
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252409.D Operator : AIRPIANO2:RY
Date Inj'd : 2/7/2018 5:52 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2018 9:35 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 153066



Manual Peak Response = 156370 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 : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252410.D
 Acq On : 7 Feb 2018 6:28 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD10.0
 Misc : WG1087635
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:47:14 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.54	49	176748	10.000	ppbV	0.00
Standard Area = 176579			Recovery =	100.10%		
33) 1,4-difluorobenzene	12.74	114	268057	10.000	ppbV	0.00
Standard Area = 260561			Recovery =	102.88%		
51) chlorobenzene-D5	17.05	54	81243	10.000	ppbV	0.00
Standard Area = 80462			Recovery =	100.97%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.42	65	106100	9.972	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.72%		
53) toluene-D8	15.41	98	231010	10.378	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.78%		
67) bromofluorobenzene	18.21	95	124163	9.667	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.67%		
Target Compounds						
					Qvalue	
2) propylene	4.28	41	94704M6	9.212	ppbV	
3) dichlorodifluoromethane	4.39	85	67691	8.829	ppbV	100
4) chloromethane	4.62	50	119671	8.415	ppbV	98
5) Freon-114	4.78	85	174924	8.834	ppbV	98
6) vinyl chloride	4.95	62	123132	8.824	ppbV	100
7) 1,3-butadiene	5.16	54	87900	8.962	ppbV #	72
8) bromomethane	5.56	94	95495	9.161	ppbV	99
9) chloroethane	5.82	64	61471	9.236	ppbV	99
10) ethanol	6.03	31	571347	47.342	ppbV	100
11) vinyl bromide	6.33	106	90883	9.596	ppbV	100
12) acrolein	6.50	56	53755	9.883	ppbV	99
13) acetone	6.69	43	924196	48.330	ppbV	97
14) trichlorofluoromethane	6.91	101	277251	9.594	ppbV	99
15) isopropyl alcohol	7.05	45	479683	24.676	ppbV	100
16) acrylonitrile	7.33	53	102006	9.937	ppbV	100
17) 1,1-dichloroethene	7.77	61	226430	9.726	ppbV	100
18) tertiary butyl alcohol	7.85	59	191773	10.255	ppbV	97
19) methylene chloride	7.93	49	193247	9.690	ppbV	100
20) 3-chloropropene	8.09	41	203383	9.930	ppbV	100
21) carbon disulfide	8.28	76	351426	9.983	ppbV	97
22) Freon 113	8.28	101	214959	9.885	ppbV	100
23) trans-1,2-dichloroethene	9.11	61	208693	9.889	ppbV	100
24) 1,1-dichloroethane	9.35	63	261094	9.855	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252410.D
 Acq On : 7 Feb 2018 6:28 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD10.0
 Misc : WG1087635
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:47:14 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.44	73	269926	10.206	ppbV	97
26) vinyl acetate	9.55	43	311133	10.999	ppbV	100
27) 2-butanone	9.84	43	349115	10.059	ppbV	99
28) cis-1,2-dichloroethene	10.35	61	202672	9.802	ppbV	98
29) Ethyl Acetate	10.62	61	38194	10.755	ppbV	88
30) chloroform	10.70	83	238941	9.849	ppbV	99
31) Tetrahydrofuran	11.17	42	162871M6	10.673	ppbV	
32) 1,2-dichloroethane	11.54	62	184981	9.796	ppbV	96
34) hexane	10.60	57	190980	9.928	ppbV #	74
36) 1,1,1-trichloroethane	11.82	97	209138	9.666	ppbV	97
37) benzene	12.35	78	324502	9.747	ppbV	99
38) carbon tetrachloride	12.52	117	213382	9.665	ppbV	100
39) cyclohexane	12.65	56	187495	9.858	ppbV	99
40) dibromomethane	13.25	93	125921	9.661	ppbV	100
41) 1,2-dichloropropane	13.27	63	145932	9.661	ppbV	100
42) bromodichloromethane	13.49	83	255473	9.694	ppbV	99
43) 1,4-dioxane	13.53	88	62447	10.295	ppbV	93
44) trichloroethene	13.53	130	125632	9.917	ppbV	99
45) 2,2,4-trimethylpentane	13.55	57	628271	9.790	ppbV	100
46) heptane	13.85	43	275184	9.921	ppbV	99
47) cis-1,3-dichloropropene	14.50	75	189191	10.169	ppbV	98
48) 4-methyl-2-pentanone	14.53	43	376310	10.399	ppbV	98
49) trans-1,3-dichloropropene	15.05	75	191975	10.241	ppbV	100
50) 1,1,2-trichloroethane	15.24	97	128499	9.742	ppbV	99
52) toluene	15.51	91	373550	10.045	ppbV	100
54) 2-hexanone	15.73	43	366993	10.481	ppbV #	91
55) dibromochloromethane	15.92	129	212056	10.002	ppbV	99
56) 1,2-dibromoethane	16.14	107	199705	9.927	ppbV	97
57) tetrachloroethene	16.53	166	155680	10.034	ppbV	99
58) 1,1,1,2-tetrachloroethane	17.07	131	148013	9.934	ppbV	99
59) chlorobenzene	17.09	112	290531	9.873	ppbV	97
60) ethylbenzene	17.37	91	487540	10.116	ppbV	99
61) m+p-xylene	17.51	91	788772	20.171	ppbV	99
62) bromoform	17.59	173	199420	10.235	ppbV	100
63) styrene	17.79	104	276234	10.160	ppbV	100
64) 1,1,2,2-tetrachloroethane	17.87	83	342401	9.968	ppbV	100
65) o-xylene	17.87	91	405978	10.106	ppbV	99
66) 1,2,3-trichloropropane	17.97	75	257176	9.799	ppbV	99
68) isopropylbenzene	18.30	105	467373	9.969	ppbV	100
69) bromobenzene	18.39	77	293153	9.953	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252410.D
 Acq On : 7 Feb 2018 6:28 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD10.0
 Misc : WG1087635
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:47:14 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.78	105	510375	10.021	ppbV	99
71) 1,3,5-trimethylbenzene	18.82	105	427086	9.928	ppbV	99
72) tert-butylbenzene	19.13	119	431417	9.980	ppbV	100
73) 1,2,4-trimethylbenzene	19.13	105	446345	10.112	ppbV	95
74) Benzyl Chloride	19.25	91	355657	10.602	ppbV	98
75) 1,3-dichlorobenzene	19.27	146	306982	9.931	ppbV	98
76) 1,4-dichlorobenzene	19.32	146	316403	10.020	ppbV	93
77) sec-butylbenzene	19.33	105	623687	10.049	ppbV	99
78) p-isopropyltoluene	19.44	119	515144	10.058	ppbV	100
79) 1,2-dichlorobenzene	19.58	146	287442	9.990	ppbV	98
80) n-butylbenzene	19.76	91	557329	9.967	ppbV	100
81) 1,2,4-trichlorobenzene	21.03	180	277739	10.362	ppbV	99
82) naphthalene	21.15	128	577513	10.484	ppbV	99
83) 1,2,3-trichlorobenzene	21.40	180	259692	10.480	ppbV	99
84) hexachlorobutadiene	21.46	225	228883	10.547	ppbV	99

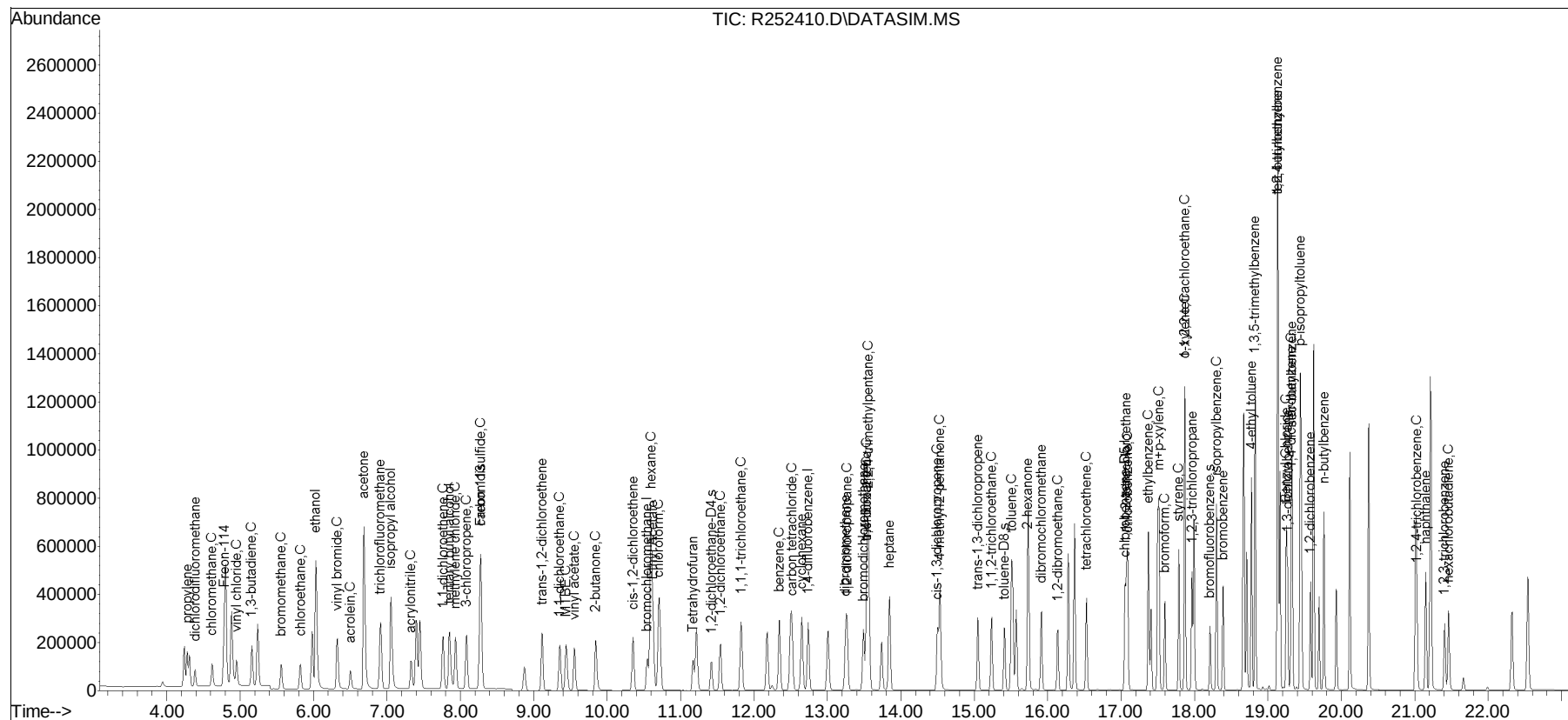
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252410.D
 Acq On : 7 Feb 2018 6:28 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD10.0
 Misc : WG1087635
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 09:47:14 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

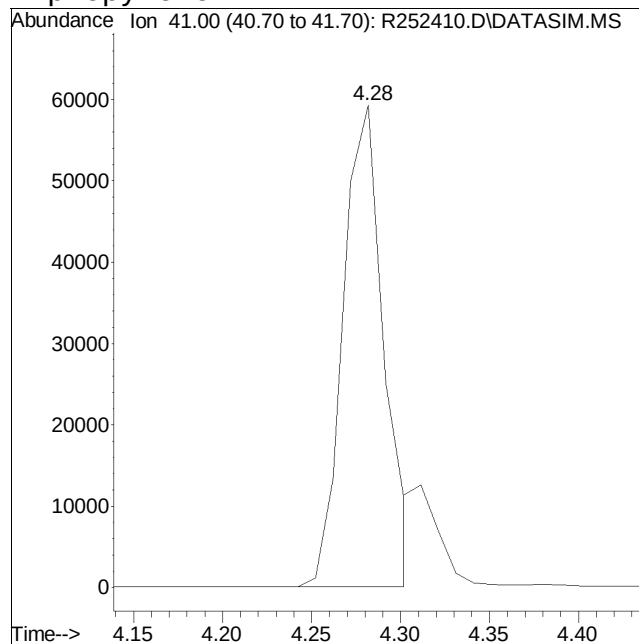
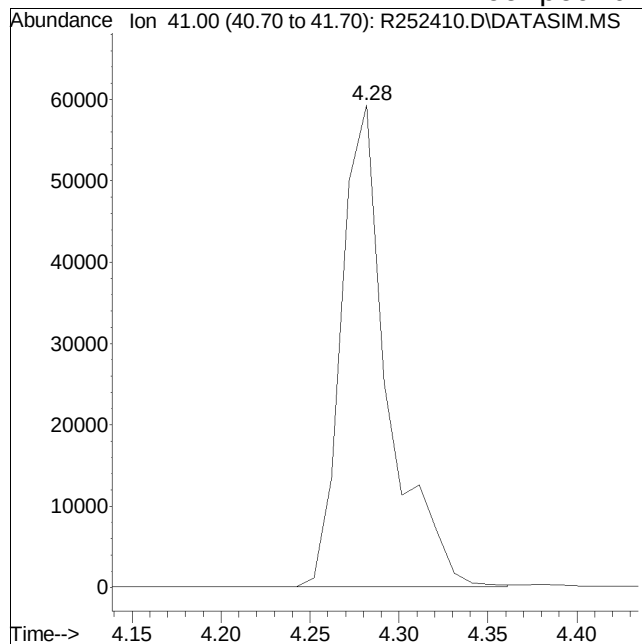
Sub List : Default - All compounds listed 0207SIM_ICAL\R252409.D



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252410.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 6:28 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/8/2018 9:38 am

Compound #2: propylene

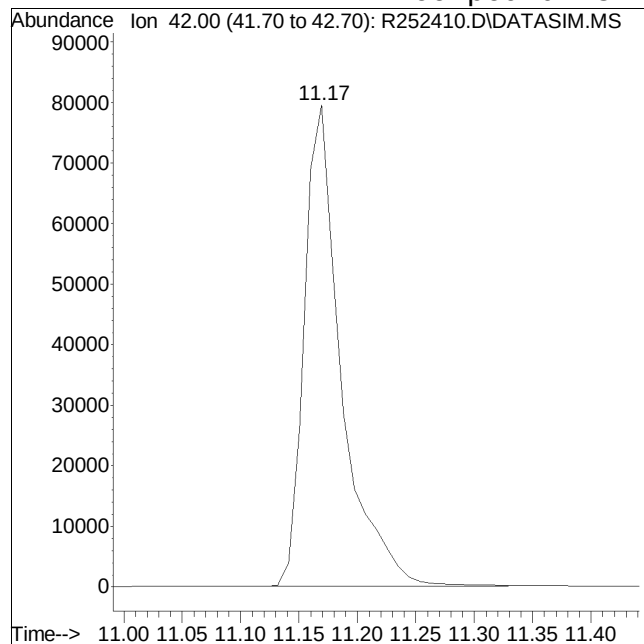


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

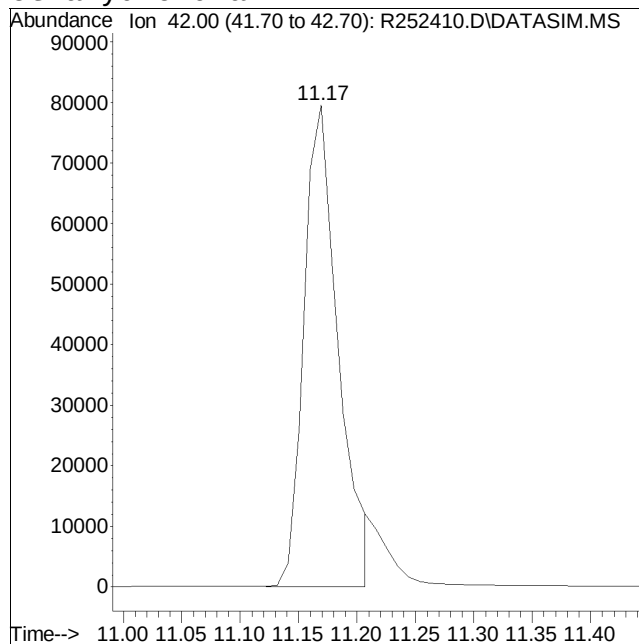
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
 Data File : R252410.D Operator : AIRPIANO2:RY
 Date Inj'd : 2/7/2018 6:28 pm Instrument : Airpiano 2
 Sample : IT015-SIMSTD10.0 Quant Date : 2/8/2018 9:38 am

Compound #31: Tetrahydrofuran



Original Peak Response = 175603

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 162871 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252411.D
 Acq On : 7 Feb 2018 7:01 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD20.0
 Misc : WG1087635
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:48:16 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.55	49	180935	10.000	ppbV	0.00
Standard Area = 176579			Recovery =	102.47%		
33) 1,4-difluorobenzene	12.74	114	269879	10.000	ppbV	0.00
Standard Area = 260561			Recovery =	103.58%		
51) chlorobenzene-D5	17.05	54	81869	10.000	ppbV	0.00
Standard Area = 80462			Recovery =	101.75%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.42	65	104942	9.796	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.96%		
53) toluene-D8	15.41	98	230548	10.278	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.78%		
67) bromofluorobenzene	18.21	95	122956	9.499	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.99%		
Target Compounds						
					Qvalue	
2) propylene	4.28	41	194799M6	18.509	ppbV	
3) dichlorodifluoromethane	4.39	85	150315	19.152	ppbV	100
4) chloromethane	4.62	50	237777	16.334	ppbV	99
5) Freon-114	4.78	85	304783	15.036	ppbV	98
6) vinyl chloride	4.95	62	242464	16.974	ppbV	100
7) 1,3-butadiene	5.16	54	173744	17.304	ppbV #	72
8) bromomethane	5.56	94	187366	17.558	ppbV	100
9) chloroethane	5.82	64	117407	17.232	ppbV	100
10) ethanol	6.04	31	1144754	92.660	ppbV	98
11) vinyl bromide	6.33	106	181388	18.709	ppbV	100
12) acrolein	6.50	56	107031	19.223	ppbV	98
13) acetone	6.69	43	1947746	99.499	ppbV	96
14) trichlorofluoromethane	6.92	101	567455	19.182	ppbV	100
15) isopropyl alcohol	7.05	45	1050803	52.805	ppbV	100
16) acrylonitrile	7.33	53	205860	19.591	ppbV	100
17) 1,1-dichloroethene	7.77	61	468550	19.660	ppbV	100
18) tertiary butyl alcohol	7.85	59	425162	22.209	ppbV	92
19) methylene chloride	7.93	49	394011	19.300	ppbV	96
20) 3-chloropropene	8.09	41	423974	20.222	ppbV	99
21) carbon disulfide	8.28	76	746855	20.725	ppbV	96
22) Freon 113	8.28	101	453133	20.356	ppbV	100
23) trans-1,2-dichloroethene	9.11	61	446804	20.683	ppbV	98
24) 1,1-dichloroethane	9.35	63	549810	20.272	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252411.D
 Acq On : 7 Feb 2018 7:01 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD20.0
 Misc : WG1087635
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:48:16 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.44	73	600171	22.168	ppbV	100
26) vinyl acetate	9.55	43	741874	25.620	ppbV	100
27) 2-butanone	9.84	43	757575	21.323	ppbV	100
28) cis-1,2-dichloroethene	10.35	61	436657	20.631	ppbV	95
29) Ethyl Acetate	10.62	61	89840	24.712	ppbV	87
30) chloroform	10.71	83	524934	21.136	ppbV	98
31) Tetrahydrofuran	11.16	42	371290M6	23.769	ppbV	
32) 1,2-dichloroethane	11.54	62	397438	20.560	ppbV	97
34) hexane	10.60	57	428381	22.119	ppbV	78
36) 1,1,1-trichloroethane	11.82	97	460772	21.153	ppbV	98
37) benzene	12.35	78	708014	21.124	ppbV	97
38) carbon tetrachloride	12.52	117	471372	21.206	ppbV	99
39) cyclohexane	12.65	56	418820	21.871	ppbV	98
40) dibromomethane	13.25	93	276687	21.086	ppbV	99
41) 1,2-dichloropropane	13.27	63	325900	21.431	ppbV	100
42) bromodichloromethane	13.49	83	562137	21.186	ppbV	99
43) 1,4-dioxane	13.53	88	149454	24.473	ppbV	84
44) trichloroethene	13.54	130	281094	22.038	ppbV	94
45) 2,2,4-trimethylpentane	13.56	57	1394088	21.576	ppbV	97
46) heptane	13.85	43	613043	21.953	ppbV	99
47) cis-1,3-dichloropropene	14.51	75	431548	23.039	ppbV	92
48) 4-methyl-2-pentanone	14.53	43	864730	23.736	ppbV	97
49) trans-1,3-dichloropropene	15.05	75	440515	23.340	ppbV	100
50) 1,1,2-trichloroethane	15.24	97	278445	20.968	ppbV	97
52) toluene	15.51	91	829052	22.124	ppbV	100
54) 2-hexanone	15.73	43	853126	24.177	ppbV #	92
55) dibromochloromethane	15.92	129	472499	22.115	ppbV	99
56) 1,2-dibromoethane	16.14	107	436864	21.551	ppbV	98
57) tetrachloroethene	16.53	166	347922	22.254	ppbV	99
58) 1,1,1,2-tetrachloroethane	17.07	131	325067	21.650	ppbV	99
59) chlorobenzene	17.09	112	635046	21.414	ppbV	98
60) ethylbenzene	17.37	91	1059770	21.822	ppbV	100
61) m+p-xylene	17.51	91	1710594	43.410	ppbV	99
62) bromoform	17.60	173	451105	22.976	ppbV	100
63) styrene	17.79	104	605295	22.093	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.87	83	755423	21.825	ppbV	100
65) o-xylene	17.87	91	902394	22.291	ppbV	97
66) 1,2,3-trichloropropane	17.97	75	551522	20.855	ppbV	98
68) isopropylbenzene	18.30	105	1011091	21.403	ppbV	100
69) bromobenzene	18.39	77	632359	21.306	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252411.D
 Acq On : 7 Feb 2018 7:01 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD20.0
 Misc : WG1087635
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:48:16 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.78	105	1107877	21.586	ppbV	99
71) 1,3,5-trimethylbenzene	18.82	105	928052	21.408	ppbV	97
72) tert-butylbenzene	19.13	119	948801	21.781	ppbV	100
73) 1,2,4-trimethylbenzene	19.13	105	993174	22.329	ppbV	97
74) Benzyl Chloride	19.25	91	824326	24.384	ppbV	95
75) 1,3-dichlorobenzene	19.27	146	671715	21.565	ppbV	97
76) 1,4-dichlorobenzene	19.32	146	687160	21.595	ppbV	96
77) sec-butylbenzene	19.33	105	1354567	21.659	ppbV	100
78) p-isopropyltoluene	19.44	119	1116230	21.627	ppbV	97
79) 1,2-dichlorobenzene	19.58	146	618891	21.345	ppbV	96
80) n-butylbenzene	19.76	91	1170121	20.767	ppbV	99
81) 1,2,4-trichlorobenzene	21.03	180	589825	21.836	ppbV	97
82) naphthalene	21.15	128	1177937	21.221	ppbV	98
83) 1,2,3-trichlorobenzene	21.40	180	530925	21.262	ppbV	99
84) hexachlorobutadiene	21.46	225	486323	22.239	ppbV	100

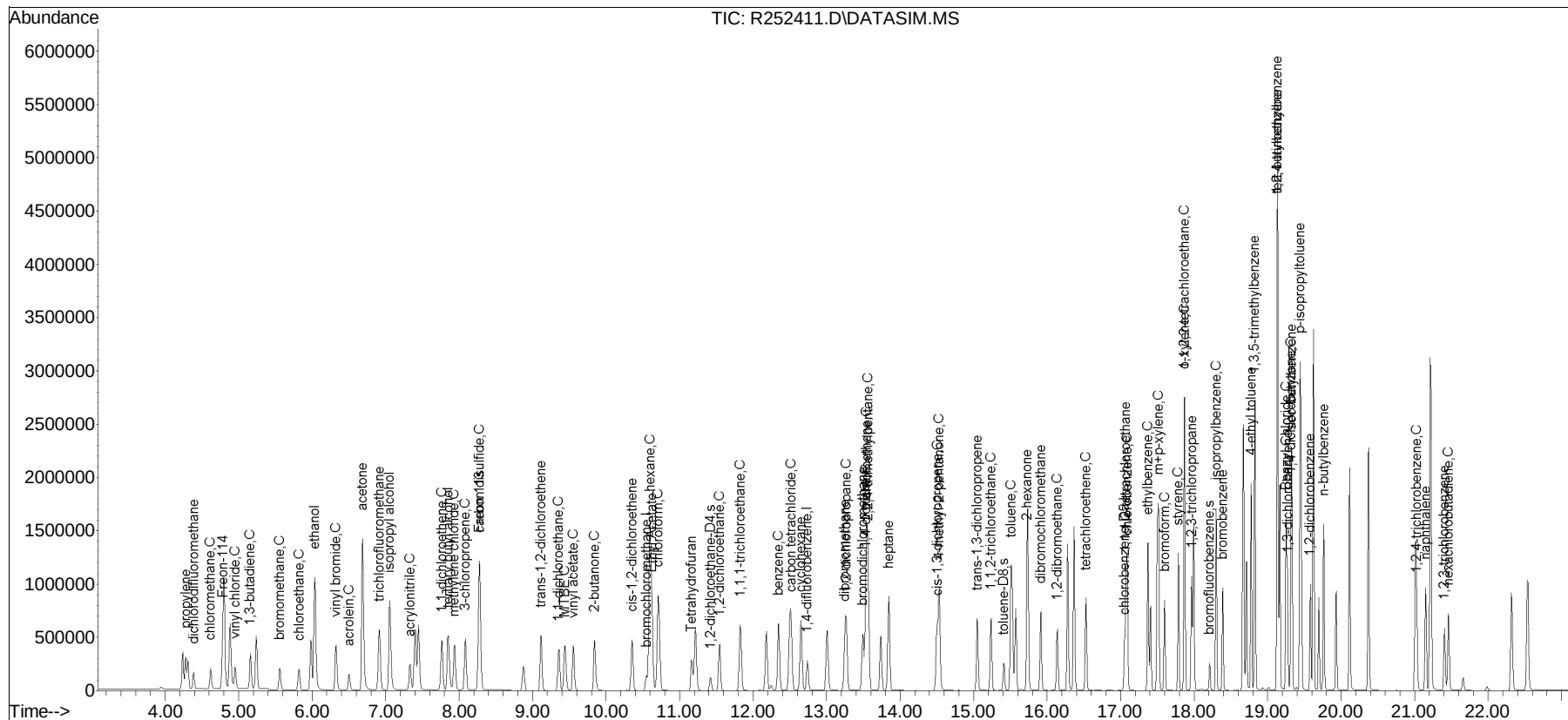
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
Data File  : R252411.D
Acq On     : 7 Feb 2018    7:01 pm
Operator   : AIRPIAN02:RY
Sample     : IT015-SIMSTD20.0
Misc       : WG1087635
ALS Vial   : 8    Sample Multiplier: 1
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Quant Time: Feb 08 09:48:16 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:37:23 2018
Response via : Initial Calibration

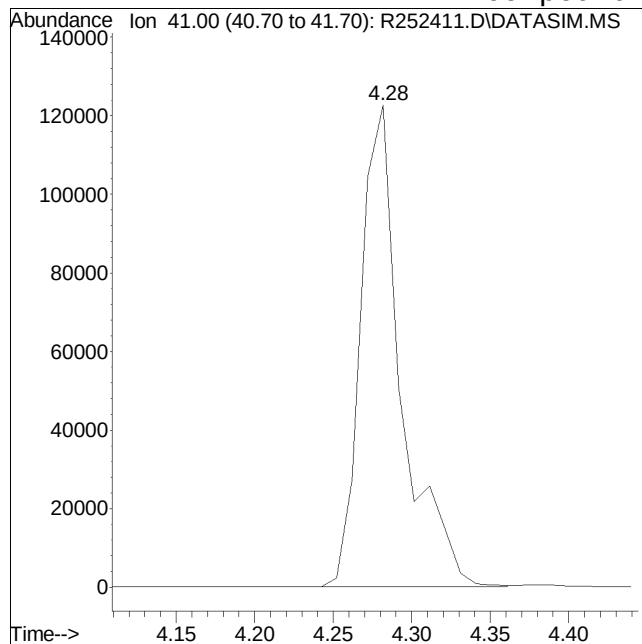
Sub List : Default - All compounds listed0207SIM_ICAL\R252409.D



Manual Integration/Negative Proof Report

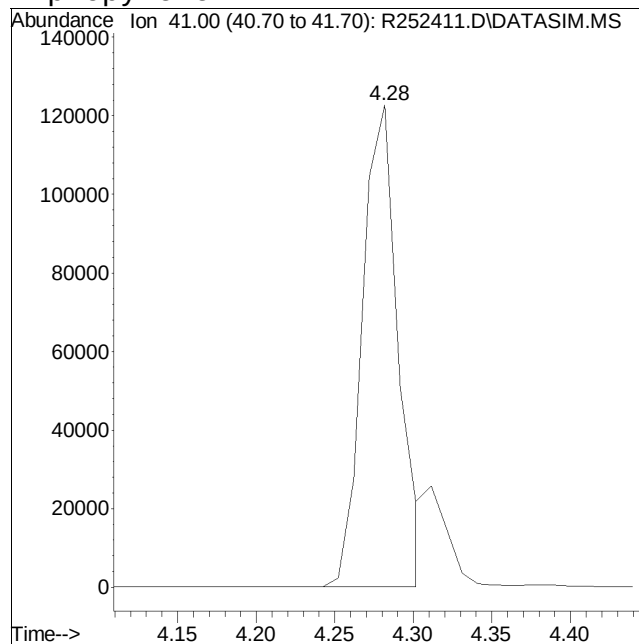
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252411.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 7:01 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2018 9:38 am

Compound #2: propylene



Original Peak Response = 221897

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

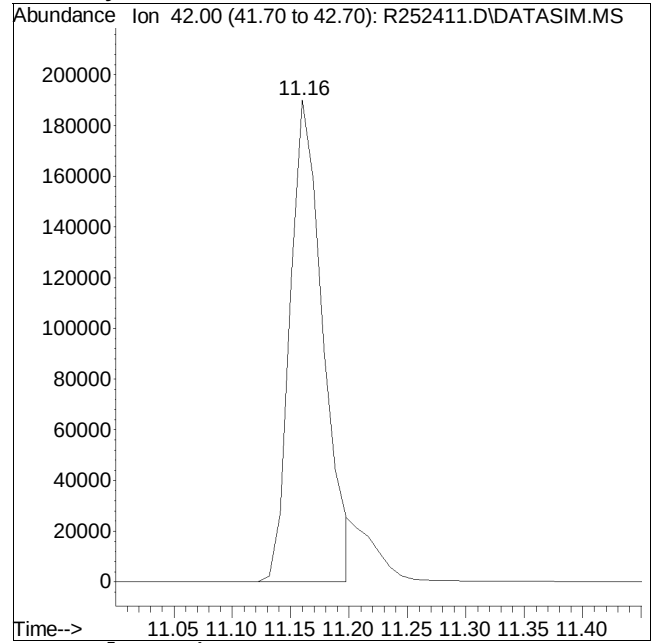
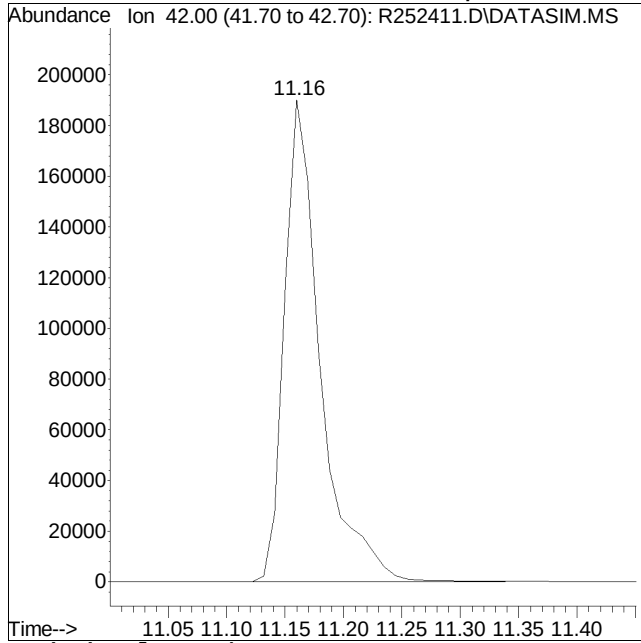


Manual Peak Response = 194799 M6

Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252411.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 7:01 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2018 9:38 am

Compound #31: Tetrahydrofuran



M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252412.D
 Acq On : 7 Feb 2018 7:35 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD50.0
 Misc : WG1087635
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:49:13 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.55	49	175047	10.000	ppbV	0.00
Standard Area = 176579			Recovery =	99.13%		
33) 1,4-difluorobenzene	12.75	114	264038	10.000	ppbV	# 0.01
Standard Area = 260561			Recovery =	101.33%		
51) chlorobenzene-D5	17.05	54	79591	10.000	ppbV	0.00
Standard Area = 80462			Recovery =	98.92%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.42	65	101800	9.713	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.13%		
53) toluene-D8	15.42	98	224681	10.303	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.03%		
67) bromofluorobenzene	18.21	95	122172	9.709	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.09%		
Target Compounds						
					Qvalue	
2) propylene	4.28	41	585528M6	57.507	ppbV	
3) dichlorodifluoromethane	4.39	85	432467	56.956	ppbV	100
4) chloromethane	4.62	50	651624	46.268	ppbV	99
5) Freon-114	4.78	85	708411	36.123	ppbV	98
6) vinyl chloride	4.95	62	632969	45.802	ppbV	99
7) 1,3-butadiene	5.16	54	441784	45.479	ppbV	# 74
8) bromomethane	5.56	94	458633	44.423	ppbV	100
9) chloroethane	5.82	64	276459	41.942	ppbV	99
10) ethanol	6.06	31	2496528	208.874	ppbV	97
11) vinyl bromide	6.33	106	409197	43.625	ppbV	100
12) acrolein	6.50	56	229852	42.671	ppbV	98
13) acetone	6.69	43	4081925	215.535	ppbV	95
14) trichlorofluoromethane	6.92	101	1254956	43.849	ppbV	100
15) isopropyl alcohol	7.07	45	2221351	115.382	ppbV	100
16) acrylonitrile	7.33	53	429679	42.266	ppbV	100
17) 1,1-dichloroethene	7.77	61	981945	42.588	ppbV	98
18) tertiary butyl alcohol	7.86	59	943193	50.926	ppbV	# 87
19) methylene chloride	7.94	49	808479	40.935	ppbV	96
20) 3-chloropropene	8.09	41	871850	42.982	ppbV	97
21) carbon disulfide	8.28	76	1612818	46.260	ppbV	98
22) Freon 113	8.28	101	986033	45.785	ppbV	99
23) trans-1,2-dichloroethene	9.11	61	942504	45.097	ppbV	95
24) 1,1-dichloroethane	9.36	63	1164195	44.368	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252412.D
 Acq On : 7 Feb 2018 7:35 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD50.0
 Misc : WG1087635
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:49:13 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.44	73	1348215	51.472	ppbV	97
26) vinyl acetate	9.56	43	1670940	59.644	ppbV	99
27) 2-butanone	9.85	43	1635461	47.580	ppbV	98
28) cis-1,2-dichloroethene	10.35	61	973872	47.560	ppbV	90
29) Ethyl Acetate	10.63	61	216137	61.451	ppbV	59
30) chloroform	10.71	83	1212290	50.455	ppbV	97
31) Tetrahydrofuran	11.16	42	872313M6	57.720	ppbV	
32) 1,2-dichloroethane	11.55	62	908198	48.562	ppbV	99
34) hexane	10.60	57	977280	51.578	ppbV	96
36) 1,1,1-trichloroethane	11.83	97	1071738	50.290	ppbV	90
37) benzene	12.36	78	1624954	49.553	ppbV	97
38) carbon tetrachloride	12.52	117	1109260	51.006	ppbV	97
39) cyclohexane	12.65	56	961856	51.341	ppbV	96
40) dibromomethane	13.25	93	657931	51.248	ppbV	99
41) 1,2-dichloropropane	13.27	63	756333	50.835	ppbV	97
42) bromodichloromethane	13.50	83	1320847	50.882	ppbV	99
43) 1,4-dioxane	13.53	88	369863	61.905	ppbV	85
44) trichloroethene	13.54	130	665032	53.292	ppbV	97
45) 2,2,4-trimethylpentane	13.56	57	3226326	51.037	ppbV	99
46) heptane	13.85	43	1403835	51.382	ppbV	# 96
47) cis-1,3-dichloropropene	14.51	75	1010997	55.168	ppbV	96
48) 4-methyl-2-pentanone	14.53	43	2026396	56.853	ppbV	98
49) trans-1,3-dichloropropene	15.06	75	1039096	56.273	ppbV	93
50) 1,1,2-trichloroethane	15.25	97	645177	49.659	ppbV	95
52) toluene	15.51	91	1883315	51.697	ppbV	100
54) 2-hexanone	15.73	43	2007370	58.516	ppbV	98
55) dibromochloromethane	15.92	129	1127395	54.278	ppbV	98
56) 1,2-dibromoethane	16.14	107	1023697	51.945	ppbV	99
57) tetrachloroethene	16.53	166	842717	55.445	ppbV	95
58) 1,1,1,2-tetrachloroethane	17.08	131	777793	53.284	ppbV	99
59) chlorobenzene	17.10	112	1481398	51.384	ppbV	98
60) ethylbenzene	17.38	91	2447173	51.833	ppbV	98
61) m+p-xylene	17.52	91	4045401	105.600	ppbV	100
62) bromoform	17.60	173	1131282	59.269	ppbV	99
63) styrene	17.79	104	1402743	52.664	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.87	83	1832288	54.451	ppbV	99
65) o-xylene	17.88	91	2178736	55.360	ppbV	94
66) 1,2,3-trichloropropane	17.97	75	1290672	50.201	ppbV	100
68) isopropylbenzene	18.30	105	2393116	52.107	ppbV	96
69) bromobenzene	18.39	77	1527004	52.921	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252412.D
 Acq On : 7 Feb 2018 7:35 pm
 Operator : AIRPIAN02:RY
 Sample : IT015-SIMSTD50.0
 Misc : WG1087635
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 09:49:13 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:37:23 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.78	105	2667050	53.452	ppbV	96
71) 1,3,5-trimethylbenzene	18.83	105	2281490	54.135	ppbV	97
72) tert-butylbenzene	19.14	119	2404089	56.769	ppbV	95
73) 1,2,4-trimethylbenzene	19.14	105	2555777	59.105	ppbV	95
74) Benzyl Chloride	19.26	91	2199066	66.911	ppbV	92
75) 1,3-dichlorobenzene	19.27	146	1728743	57.088	ppbV	94
76) 1,4-dichlorobenzene	19.32	146	1855120	59.967	ppbV	95
77) sec-butylbenzene	19.33	105	3493676	57.462	ppbV	93
78) p-isopropyltoluene	19.45	119	2909774	57.991	ppbV	93
79) 1,2-dichlorobenzene	19.59	146	1633046	57.935	ppbV	95
80) n-butylbenzene	19.77	91	3049124	55.663	ppbV	94
81) 1,2,4-trichlorobenzene	21.03	180	1847447	70.353	ppbV #	86
82) naphthalene	21.16	128	3467869	64.264	ppbV	99
83) 1,2,3-trichlorobenzene	21.42	180	1651790	68.043	ppbV #	87
84) hexachlorobutadiene	21.47	225	1563453	73.541	ppbV #	80

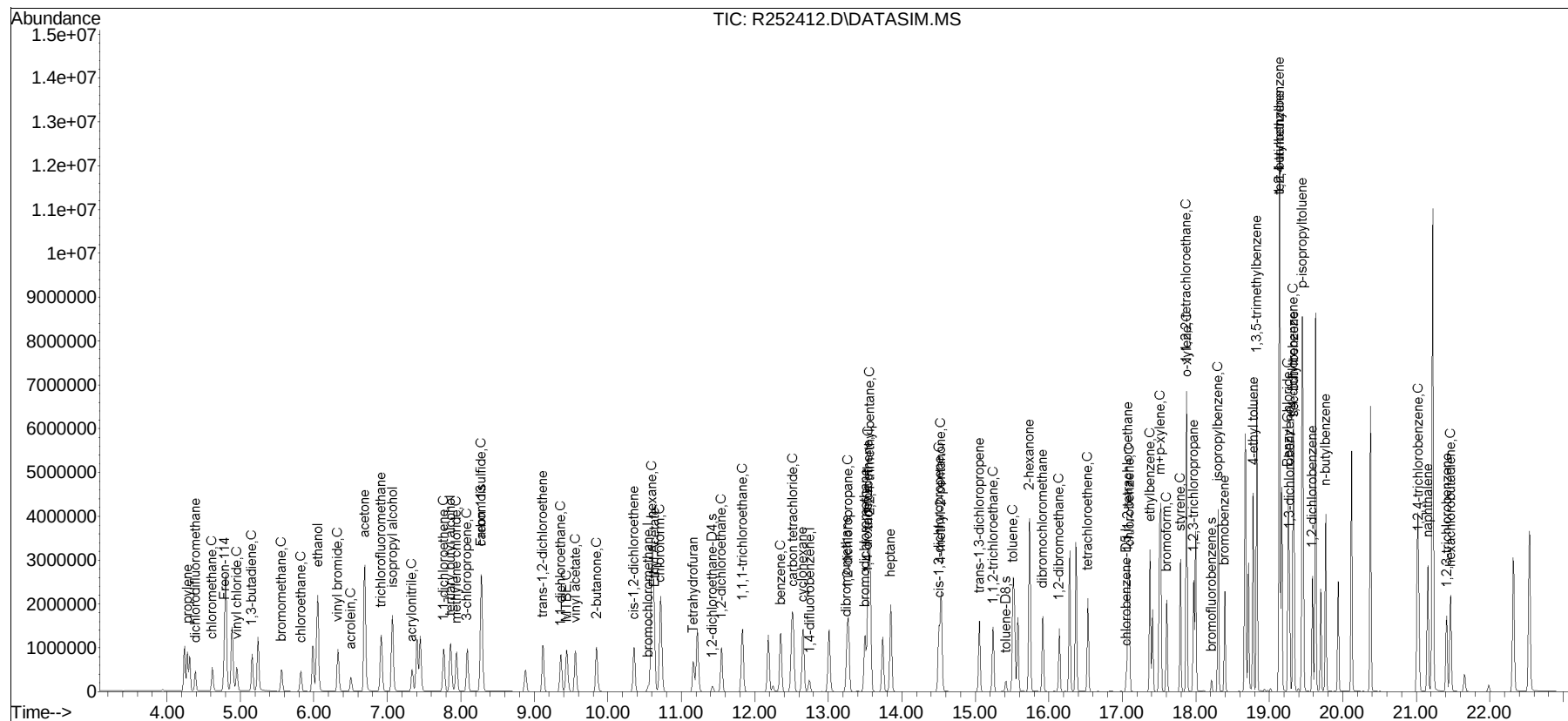
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
Data File : R252412.D
Acq On    : 7 Feb 2018    7:35 pm
Operator  : AIRPIAN02:RY
Sample    : IT015-SIMSTD50.0
Misc      : WG1087635
ALS Vial  : 8    Sample Multiplier: 1
```

Quant Time: Feb 08 09:49:13 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:37:23 2018
Response via : Initial Calibration

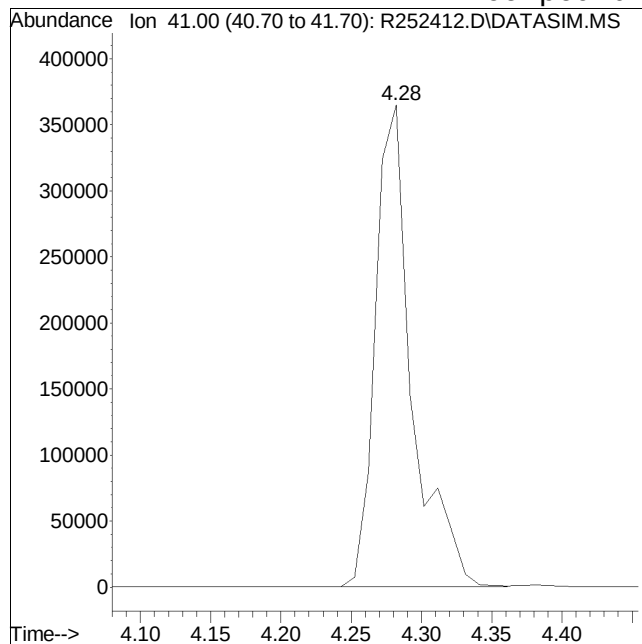
Sub List : Default - All compounds listed0207SIM_ICAL\R252409.D



Manual Integration/Negative Proof Report

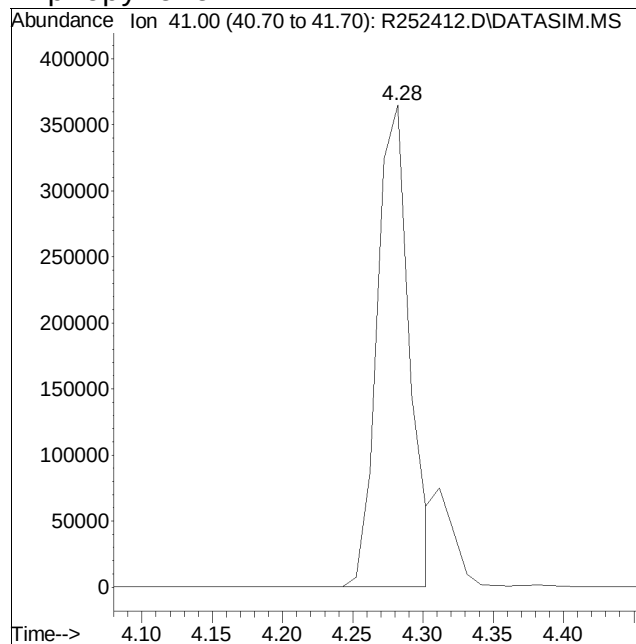
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Data File : R252412.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 7:35 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2018 9:38 am

Compound #2: propylene



Original Peak Response = 663241

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

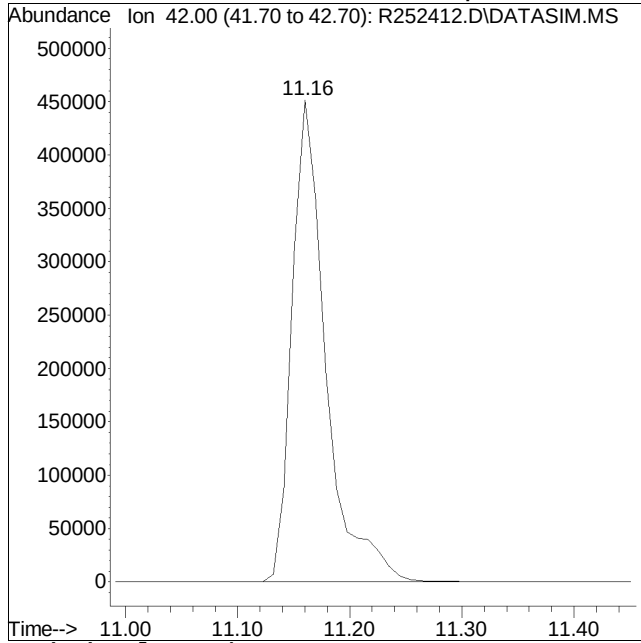


Manual Peak Response = 585528 M6

Manual Integration/Negative Proof Report

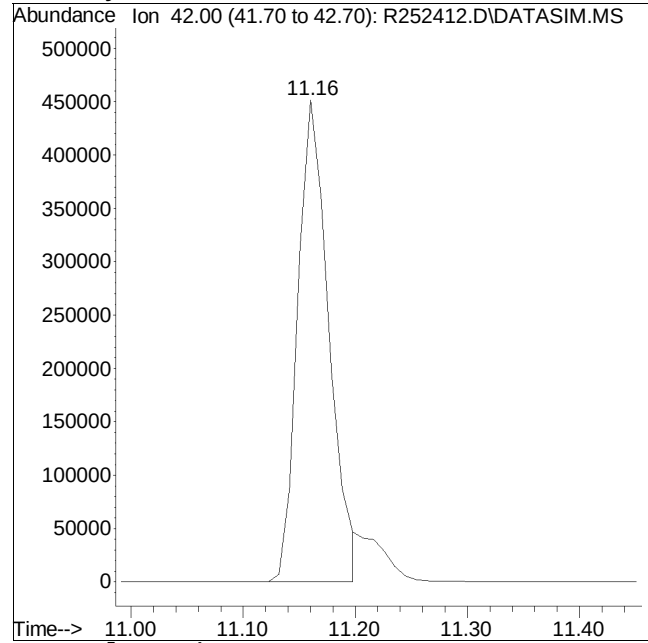
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252412.D Operator : AIRPIAN02:RY
Date Inj'd : 2/7/2018 7:35 pm Instrument : Airpiano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2018 9:38 am

Compound #31: Tetrahydrofuran



Original Peak Response = 948144

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 872313 M6

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252417.D
 Acq On : 8 Feb 2018 11:24 am
 Operator : AIRPIAN02:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1087635
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:50:26 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 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	97	0.00
2	propylene	0.588	0.680	-15.6	113	0.00
3	dichlorodifluoromethane	0.493	0.443	10.1	99	0.00
4 C	chloromethane	0.823	0.741	10.0	89	0.00
5	Freon-114	1.289	1.042	19.2	90	0.00
6 C	vinyl chloride	0.801	0.746	6.9	91	0.00
7 C	1,3-butadiene	0.542	0.591	-9.0	103	0.00
8 C	bromomethane	0.609	0.567	6.9	93	0.00
9 C	chloroethane	0.396	0.362	8.6	93	0.00
10	ethanol	0.674	0.658	2.4	93	0.00
11 C	vinyl bromide	0.540	0.551	-2.0	100	0.00
12 C	acrolein	0.348	0.294	15.5	93	0.00
13	acetone	1.191	1.349	-13.3	121	0.00
14	trichlorofluoromethane	1.689	1.654	2.1	98	0.00
15	isopropyl alcohol	1.275	1.436	-12.6	126	0.00
16 C	acrylonitrile	0.581	0.558	4.0	93	0.00
17 C	1,1-dichloroethene	1.349	1.340	0.7	98	0.00
18	tertiary butyl alcohol	1.116	1.272	-14.0	116	0.00
19 C	methylene chloride	1.124	1.105	1.7	95	0.00
20 C	3-chloropropene	1.177	1.342	-14.0	112	0.00
21 C	carbon disulfide	2.029	1.999	1.5	97	0.00
22	Freon 113	1.272	1.255	1.3	99	0.00
23	trans-1,2-dichloroethene	1.229	1.249	-1.6	101	0.00
24 C	1,1-dichloroethane	1.553	1.514	2.5	98	0.00
25 C	MTBE	1.538	1.859	-20.9	120	0.00
26 C	vinyl acetate	1.622	2.081	-28.3	126	0.00
27 C	2-butanone	2.016	2.189	-8.6	108	0.00
28	cis-1,2-dichloroethene	1.139	1.120	1.7	93	0.00
29	Ethyl Acetate	0.203	0.263	-29.6	127	0.00
30 C	chloroform	1.419	1.487	-4.8	105	0.00
31	Tetrahydrofuran	0.912	1.071	-17.4	120	0.00
32 C	1,2-dichloroethane	1.115	1.140	-2.2	103	0.00
33 I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00
34 C	hexane	0.693	0.741	-6.9	109	0.00
35 s	1,2-dichloroethane-D4	0.403	0.388	3.7	103	0.00
36 C	1,1,1-trichloroethane	0.826	0.847	-2.5	111	0.00
37 C	benzene	1.229	1.238	-0.7	105	0.00
38 C	carbon tetrachloride	0.828	0.828	0.0	106	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252417.D
 Acq On : 8 Feb 2018 11:24 am
 Operator : AIRPIAN02:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1087635
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:50:26 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 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)
39	cyclohexane	0.677	0.771	-13.9	115	0.00
40	dibromomethane	0.546	0.464	15.0	101	0.00
41 C	1,2-dichloropropane	0.567	0.571	-0.7	107	0.00
42	bromodichloromethane	0.990	1.071	-8.2	115	0.00
43 C	1,4-dioxane	0.219	0.278	-26.9	130	0.00
44 C	trichloroethene	0.483	0.485	-0.4	108	0.00
45 C	2,2,4-trimethylpentane	2.243	2.565	-14.4	113	0.00
46	heptane	0.967	1.126	-16.4	115	0.00
47 C	cis-1,3-dichloropropene	0.654	0.778	-19.0	118	0.00
48 C	4-methyl-2-pentanone	1.287	1.587	-23.3	124	0.00
49	trans-1,3-dichloropropene	0.647	0.669	-3.4	101	0.00
50 C	1,1,2-trichloroethane	0.492	0.507	-3.0	109	0.00
51 I	chlorobenzene-D5	1.000	1.000	0.0	104	0.00
52 C	toluene	4.515	4.737	-4.9	108	0.00
53 s	toluene-D8	2.790	2.838	-1.7	108	0.00
54	2-hexanone	3.983	4.880	-22.5	118	0.00
55	dibromochloromethane	2.530	2.926	-15.7	117	0.00
56 C	1,2-dibromoethane	2.386	2.553	-7.0	107	0.00
57 C	tetrachloroethene	1.892	1.962	-3.7	107	0.00
58	1,1,1,2-tetrachloroethane	1.825	1.783	2.3	101	0.00
59 C	chlorobenzene	3.615	3.732	-3.2	107	0.00
60 C	ethylbenzene	5.250	6.250	-19.0	110	0.00
61 C	m+p-xylene	4.161	4.963	-19.3	107	0.00
62 C	bromoform	2.263	2.695	-19.1	117	0.00
63 C	styrene	2.819	3.496	-24.0	109	0.00
64 C	1,1,2,2-tetrachloroethane	3.919	4.270	-9.0	105	0.00
65 C	o-xylene	4.313	5.168	-19.8	109	0.00
66	1,2,3-trichloropropane	3.043	3.140	-3.2	101	0.00
67 s	bromofluorobenzene	1.448	1.558	-7.6	103	0.00
68 C	isopropylbenzene	5.523	5.960	-7.9	108	0.00
69	bromobenzene	3.492	3.630	-4.0	104	0.00
70	4-ethyl toluene	5.084	6.743	-32.6#	112	0.00
71	1,3,5-trimethylbenzene	4.457	5.498	-23.4	108	0.00
72	tert-butylbenzene	5.043	5.222	-3.5	102	0.00
73	1,2,4-trimethylbenzene	4.517	5.687	-25.9	109	0.00
74 C	Benzyl Chloride	3.974	4.954	-24.7	125	0.00
75	1,3-dichlorobenzene	3.540	3.938	-11.2	108	0.00
76 C	1,4-dichlorobenzene	3.720	3.997	-7.4	107	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252417.D
 Acq On : 8 Feb 2018 11:24 am
 Operator : AIRPIAN02:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1087635
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:50:26 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 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)
77	sec-butylbenzene	7.199	7.513	-4.4	102	0.00
78	p-isopropyltoluene	5.813	5.887	-1.3	97	0.00
79	1,2-dichlorobenzene	3.370	3.711	-10.1	109	0.00
80	n-butylbenzene	6.243	6.858	-9.9	104	0.00
81 C	1,2,4-trichlorobenzene	2.929	3.410	-16.4	108	0.00
82	naphthalene	5.819	6.873	-18.1	106	0.00
83	1,2,3-trichlorobenzene	2.680	3.016	-12.5	103	0.00
84 C	hexachlorobutadiene	2.495	2.756	-10.5	107	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 : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252417.D
 Acq On : 8 Feb 2018 11:24 am
 Operator : AIRPIAN02:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1087635
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:50:26 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.54	49	170973	10.000	ppbV	0.00
Standard Area = 176579			Recovery =	96.83%		
33) 1,4-difluorobenzene	12.74	114	275038	10.000	ppbV	0.00
Standard Area = 260561			Recovery =	105.56%		
51) chlorobenzene-D5	17.05	54	83809	10.000	ppbV	0.00
Standard Area = 80462			Recovery =	104.16%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.41	65	106617	9.623	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.23%		
53) toluene-D8	15.41	98	237876	10.174	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.74%		
67) bromofluorobenzene	18.21	95	130555	10.759	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.59%		
Target Compounds						
					Qvalue	
2) propylene	4.28	41	58097M6	5.783	ppbV	
3) dichlorodifluoromethane	4.39	85	37901	4.494	ppbV	100
4) chloromethane	4.63	50	63328	4.500	ppbV	96
5) Freon-114	4.78	85	89114	4.043	ppbV	99
6) vinyl chloride	4.95	62	63757	4.654	ppbV	100
7) 1,3-butadiene	5.17	54	50528	5.452	ppbV	97
8) bromomethane	5.57	94	48455	4.657	ppbV	100
9) chloroethane	5.82	64	30908	4.569	ppbV	99
10) ethanol	6.04	31	281081	24.406	ppbV	97
11) vinyl bromide	6.33	106	47122	5.100	ppbV	99
12) acrolein	6.51	56	25152	4.232	ppbV	100
13) acetone	6.69	43	576747	28.319	ppbV	99
14) trichlorofluoromethane	6.92	101	141367	4.896	ppbV	100
15) isopropyl alcohol	7.06	45	306909	14.078	ppbV	99
16) acrylonitrile	7.33	53	47686	4.803	ppbV	99
17) 1,1-dichloroethene	7.77	61	114514	4.965	ppbV	100
18) tertiary butyl alcohol	7.86	59	108732	5.697	ppbV #	84
19) methylene chloride	7.93	49	94429	4.912	ppbV	100
20) 3-chloropropene	8.09	41	114763	5.704	ppbV	99
21) carbon disulfide	8.28	76	170922	4.928	ppbV	100
22) Freon 113	8.28	101	107257	4.934	ppbV	99
23) trans-1,2-dichloroethene	9.11	61	106795	5.083	ppbV	99
24) 1,1-dichloroethane	9.35	63	129394	4.872	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252417.D
 Acq On : 8 Feb 2018 11:24 am
 Operator : AIRPIAN02:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1087635
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:50:26 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.44	73	158882	6.042	ppbV	99
26) vinyl acetate	9.55	43	177915	6.414	ppbV	100
27) 2-butanone	9.85	43	187106	5.429	ppbV	99
28) cis-1,2-dichloroethene	10.35	61	95708	4.917	ppbV	98
29) Ethyl Acetate	10.63	61	22521	6.473	ppbV #	49
30) chloroform	10.70	83	127153	5.240	ppbV	99
31) Tetrahydrofuran	11.17	42	91523M6	5.872	ppbV	
32) 1,2-dichloroethane	11.54	62	97450	5.114	ppbV	99
34) hexane	10.60	57	101921	5.345	ppbV #	84
36) 1,1,1-trichloroethane	11.82	97	116494	5.130	ppbV	97
37) benzene	12.35	78	170214	5.037	ppbV	99
38) carbon tetrachloride	12.52	117	113899	5.004	ppbV	99
39) cyclohexane	12.65	56	106023	5.695	ppbV	99
40) dibromomethane	13.24	93	63790	4.247	ppbV	99
41) 1,2-dichloropropane	13.27	63	78560	5.040	ppbV	98
42) bromodichloromethane	13.49	83	147315	5.408	ppbV	100
43) 1,4-dioxane	13.54	88	38184	6.348	ppbV	94
44) trichloroethene	13.53	130	66628	5.020	ppbV	99
45) 2,2,4-trimethylpentane	13.55	57	352794	5.718	ppbV	99
46) heptane	13.85	43	154900	5.825	ppbV	99
47) cis-1,3-dichloropropene	14.50	75	107050	5.951	ppbV	98
48) 4-methyl-2-pentanone	14.53	43	218285	6.168	ppbV	97
49) trans-1,3-dichloropropene	15.05	75	92026	5.172	ppbV	97
50) 1,1,2-trichloroethane	15.24	97	69713	5.155	ppbV	96
52) toluene	15.51	91	198506	5.246	ppbV	99
54) 2-hexanone	15.73	43	204493	6.126	ppbV	96
55) dibromochloromethane	15.92	129	122597	5.783	ppbV	100
56) 1,2-dibromoethane	16.13	107	106989	5.351	ppbV	100
57) tetrachloroethene	16.53	166	82236	5.185	ppbV	99
58) 1,1,1,2-tetrachloroethane	17.07	131	74700	4.884	ppbV	100
59) chlorobenzene	17.09	112	156400	5.162	ppbV	100
60) ethylbenzene	17.37	91	261894	5.952	ppbV	100
61) m+p-xylene	17.51	91	415952	11.927	ppbV	99
62) bromoform	17.60	173	112917	5.953	ppbV	100
63) styrene	17.79	104	146503	6.202	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.87	83	178940	5.448	ppbV	100
65) o-xylene	17.87	91	216571	5.992	ppbV	99
66) 1,2,3-trichloropropane	17.96	75	131591	5.159	ppbV	99
68) isopropylbenzene	18.30	105	249744	5.396	ppbV	100
69) bromobenzene	18.39	77	152111	5.197	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252417.D
 Acq On : 8 Feb 2018 11:24 am
 Operator : AIRPIAN02:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1087635
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:50:26 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\R252409.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.78	105	282574M4	6.631	ppbV	
71) 1,3,5-trimethylbenzene	18.82	105	230406	6.168	ppbV	99
72) tert-butylbenzene	19.13	119	218841	5.178	ppbV	97
73) 1,2,4-trimethylbenzene	19.13	105	238316	6.296	ppbV	97
74) Benzyl Chloride	19.25	91	207594	6.233	ppbV	100
75) 1,3-dichlorobenzene	19.27	146	165003	5.561	ppbV	100
76) 1,4-dichlorobenzene	19.31	146	167479	5.372	ppbV	98
77) sec-butylbenzene	19.33	105	314811	5.218	ppbV	99
78) p-isopropyltoluene	19.44	119	246709	5.064	ppbV	100
79) 1,2-dichlorobenzene	19.58	146	155506	5.506	ppbV	99
80) n-butylbenzene	19.76	91	287373	5.492	ppbV	99
81) 1,2,4-trichlorobenzene	21.03	180	142915	5.823	ppbV	100
82) naphthalene	21.15	128	288008	5.906	ppbV	100
83) 1,2,3-trichlorobenzene	21.40	180	126366	5.627	ppbV	100
84) hexachlorobutadiene	21.46	225	115479	5.523	ppbV	98

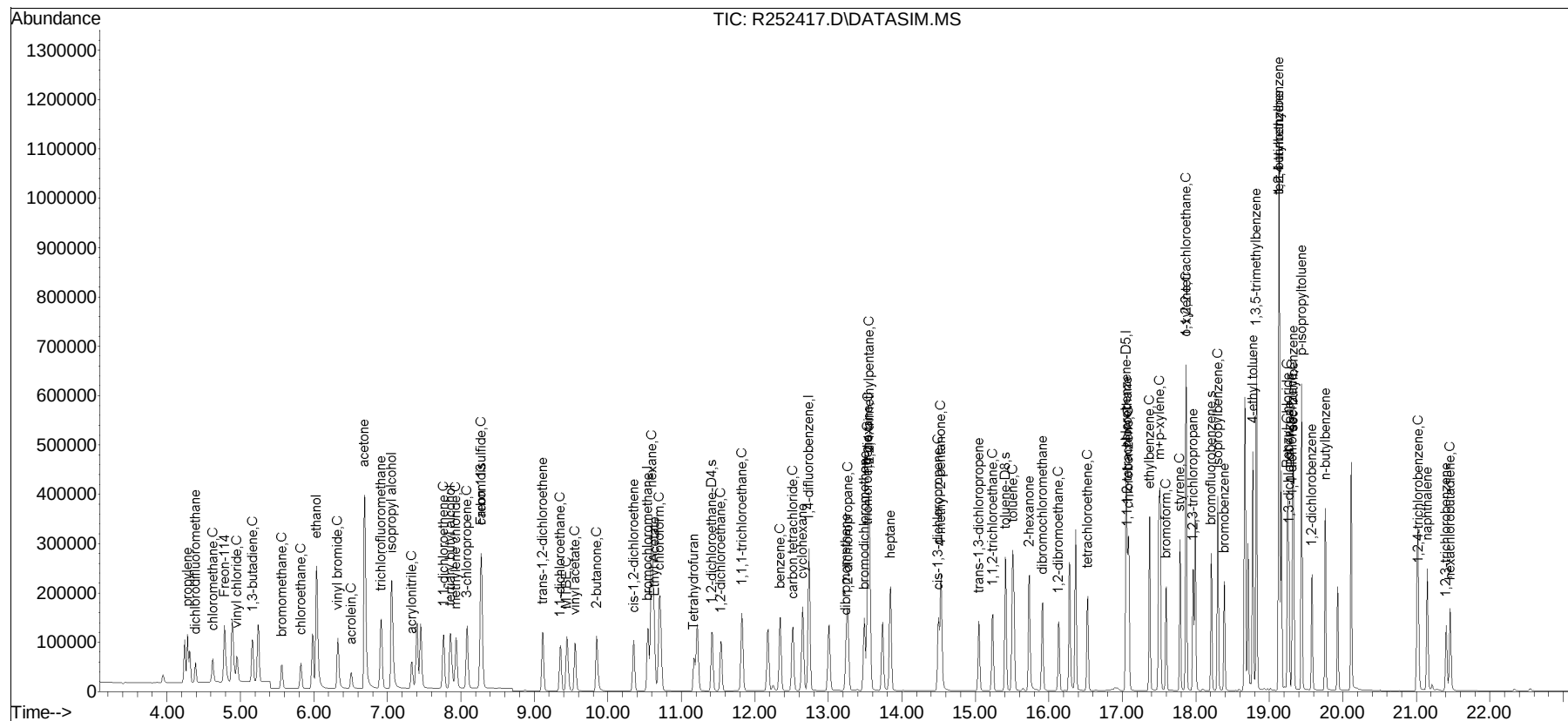
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\
 Data File : R252417.D
 Acq On : 8 Feb 2018 11:24 am
 Operator : AIRPIAN02:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1087635
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 11:50:26 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180207SIM_ICAL\TSIM180207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

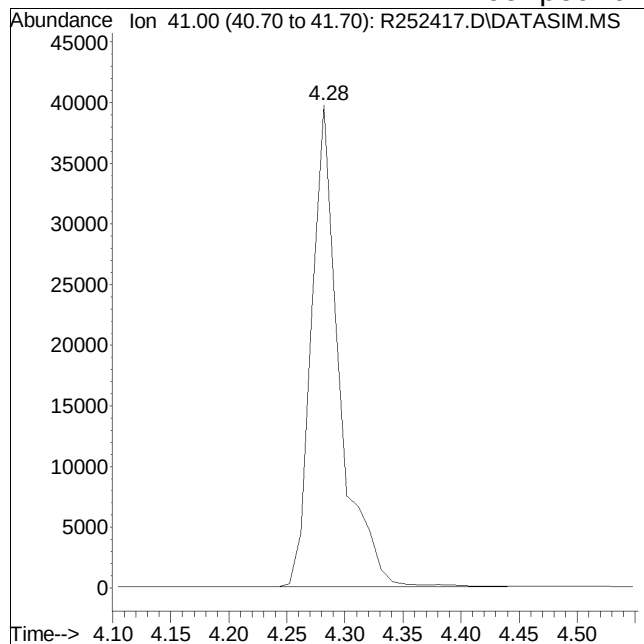
Sub List : Default - All compounds listed 0207SIM_ICAL\R252409.D



Manual Integration/Negative Proof Report

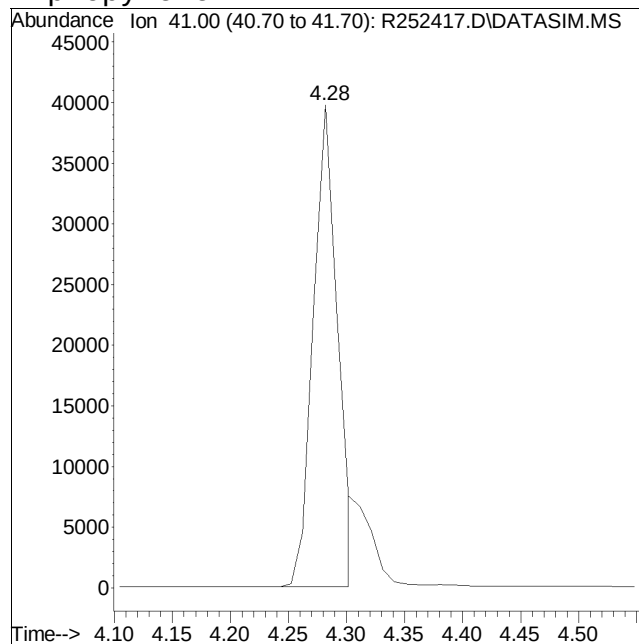
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252417.D Operator : AIRPIAN02:RY
Date Inj'd : 2/8/2018 11:24 am Instrument : Airpiano 2
Sample : CT015-SIMSTD5.0 Quant Date : 2/8/2018 11:49 am

Compound #2: propylene



Original Peak Response = 66739

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

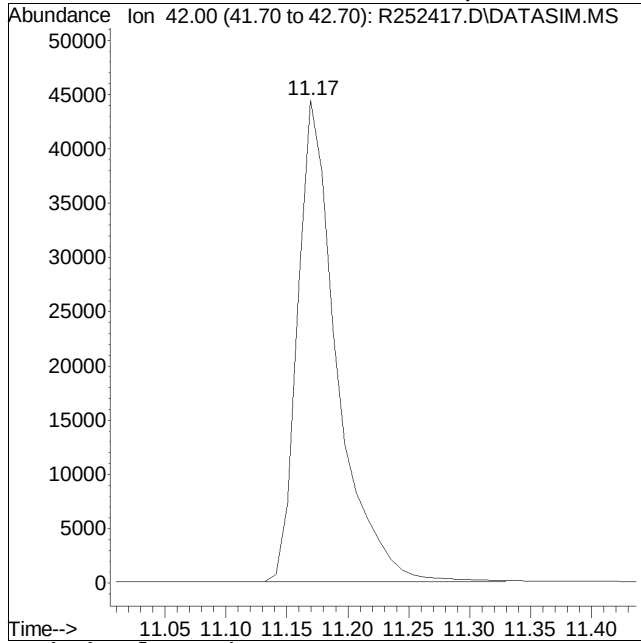


Manual Peak Response = 58097 M6

Manual Integration/Negative Proof Report

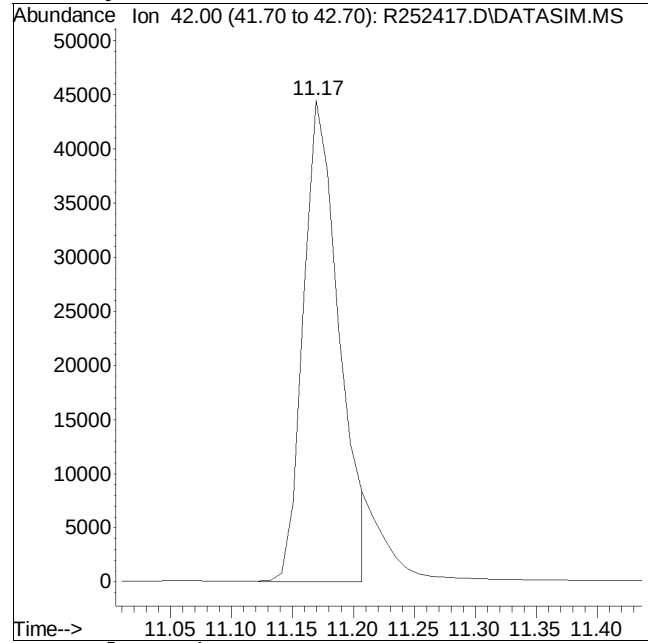
Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252417.D Operator : AIRPIAN02:RY
Date Inj'd : 2/8/2018 11:24 am Instrument : Airpiano 2
Sample : CT015-SIMSTD5.0 Quant Date : 2/8/2018 11:49 am

Compound #31: Tetrahydrofuran



Original Peak Response = 99814

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

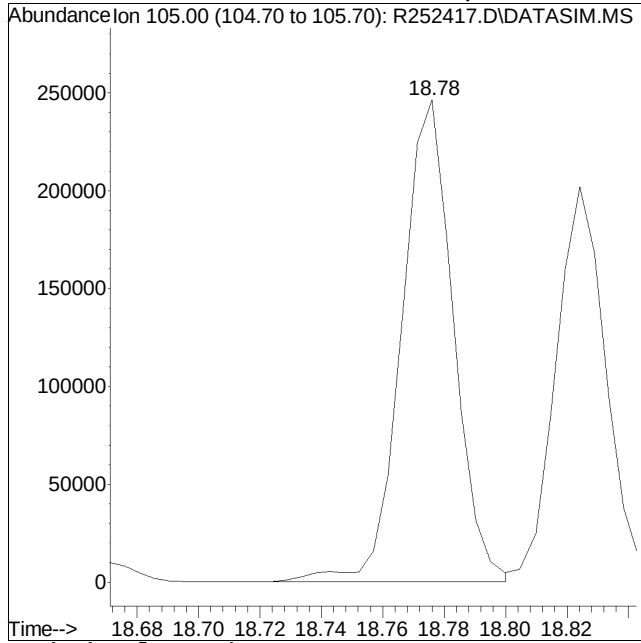


Manual Peak Response = 91523 M6

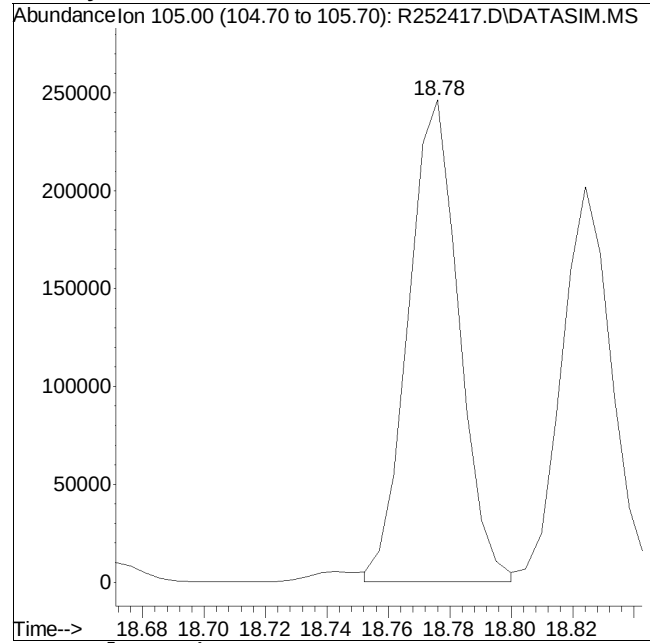
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252417.D Operator : AIRPIAN02:RY
Date Inj'd : 2/8/2018 11:24 am Instrument : Airpiano 2
Sample : CT015-SIMSTD5.0 Quant Date : 2/8/2018 11:49 am

Compound #70: 4-ethyl toluene



Original Peak Response = 289101



Manual Peak Response = 282574 M4

M4 = Poor automated baseline construction.

Continuing Calibration

Continuing Calibration Form 7

Client : Roux Associates, Inc.
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRPIANO2
 Lab File ID : R252709
 Sample No : WG1094275-2
 Channel :

Lab Number : L1806385
 Project Number : 1802.001Y000
 Calibration Date : 03/03/18 12:34
 Init. Calib. Date(s) : 02/07/18 02/07/18
 Init. Calib. Times : 14:26 19:35

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	71	0
vinyl chloride	0.801	0.674	-	15.9	30	60	0
1,1-dichloroethene	1.349	1.094	-	18.9	30	59	0
trans-1,2-dichloroethene	1.229	1.008	-	18	30	60	0
1,1-dichloroethane	1.553	1.284	-	17.3	30	60	0
cis-1,2-dichloroethene	1.139	0.925	-	18.8	30	56	0
1,2-dichloroethane	1.115	1.038	-	6.9	30	69	0
1,4-difluorobenzene	1	1	-	0	30	102	0
1,1,1-trichloroethane	0.826	0.669	-	19	30	84	0
trichloroethene	0.483	0.396	-	18	30	85	0
chlorobenzene-D5	1	1	-	0	30	75	0
tetrachloroethene	1.892	2.266	-	-19.8	30	90	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
 Data File : R252709.D
 Acq On : 3 Mar 2018 12:34 pm
 Operator : AIRPIAN02:GJ
 Sample : WG1094275-2,3,250,250
 Misc : WG1094275,ICAL14413
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 13:05:18 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 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	71	0.00
6 C	vinyl chloride	0.801	0.674	15.9	60	0.00
17 C	1,1-dichloroethene	1.349	1.094	18.9	59#	0.00
23	trans-1,2-dichloroethene	1.229	1.008	18.0	60#	0.00
24 C	1,1-dichloroethane	1.553	1.284	17.3	60	0.00
28	cis-1,2-dichloroethene	1.139	0.925	18.8	56#	0.00
32 C	1,2-dichloroethane	1.115	1.038	6.9	69	0.00
33 I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00
36 C	1,1,1-trichloroethane	0.826	0.669	19.0	84	0.00
44 C	trichloroethene	0.483	0.396	18.0	85	0.00
51 I	chlorobenzene-D5	1.000	1.000	0.0	75	0.00
57 C	tetrachloroethene	1.892	2.266	-19.8	90	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 : 0:\Forensics\Data\AIR2\2018\180303SIM\
 Data File : R252709.D
 Acq On : 3 Mar 2018 12:34 pm
 Operator : AIRPIAN02:GJ
 Sample : WG1094275-2,3,250,250
 Misc : WG1094275,ICAL14413
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 13:05:18 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

Sub List : 9_Chlorinateds - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.54	49	124535	10.000	ppbV	# 0.00
33) 1,4-difluorobenzene	12.74	114	265013	10.000	ppbV	0.00
51) chlorobenzene-D5	17.05	54	60697	10.000	ppbV	# 0.00

System Monitoring Compounds

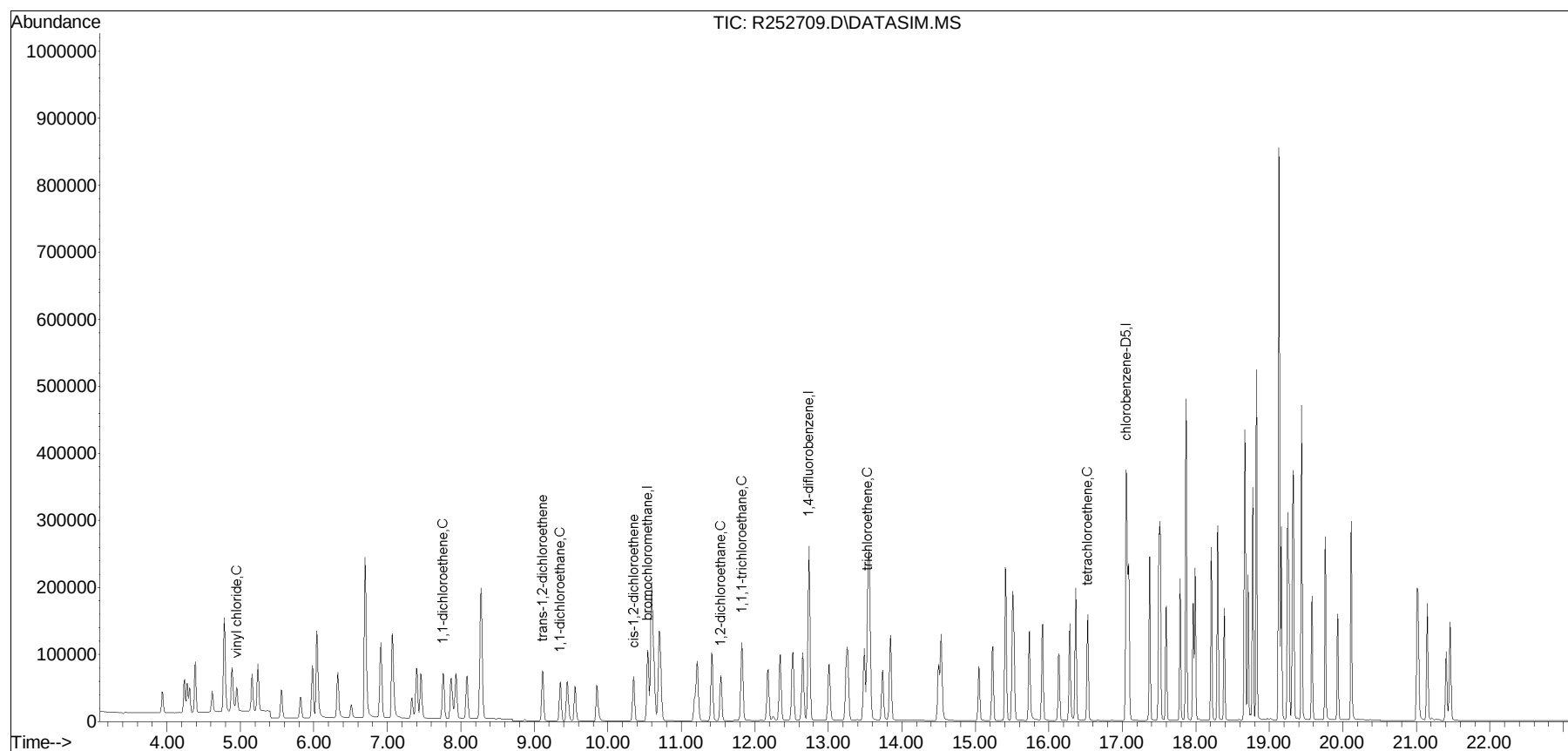
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.95	62	41943	4.203	ppbV	98
17) 1,1-dichloroethene	7.76	61	68116	4.054	ppbV	96
23) trans-1,2-dichloroethene	9.11	61	62785	4.103	ppbV	# 87
24) 1,1-dichloroethane	9.35	63	79971	4.134	ppbV	99
28) cis-1,2-dichloroethene	10.35	61	57593	4.062	ppbV	87
32) 1,2-dichloroethane	11.54	62	64657	4.658	ppbV	96
36) 1,1,1-trichloroethane	11.82	97	88594	4.049	ppbV	88
44) trichloroethene	13.53	130	52414	4.098	ppbV	97
57) tetrachloroethene	16.53	166	68767	5.987	ppbV	95

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

Sub List : 9_Chlorinateds - .eport (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
Data File : R252709.D
Acq On : 3 Mar 2018 12:34 pm
Operator : AIRPIAN02:GJ
Sample : WG1094275-2,3,250,250
Misc : WG1094275,ICAL14413
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 13:05:18 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:50:26 2018
Response via : Initial Calibration



TSIM180207.M Sun Mar 04 15:28:51 2018

Page: 2

Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252709.D Operator : AIRPIAN02:GJ
Date Inj'd : 3/3/2018 12:34 pm Instrument : Airpiano 2
Sample : WG1094275-2,3,250,250 Quant Date : 3/3/2018 1:05 pm

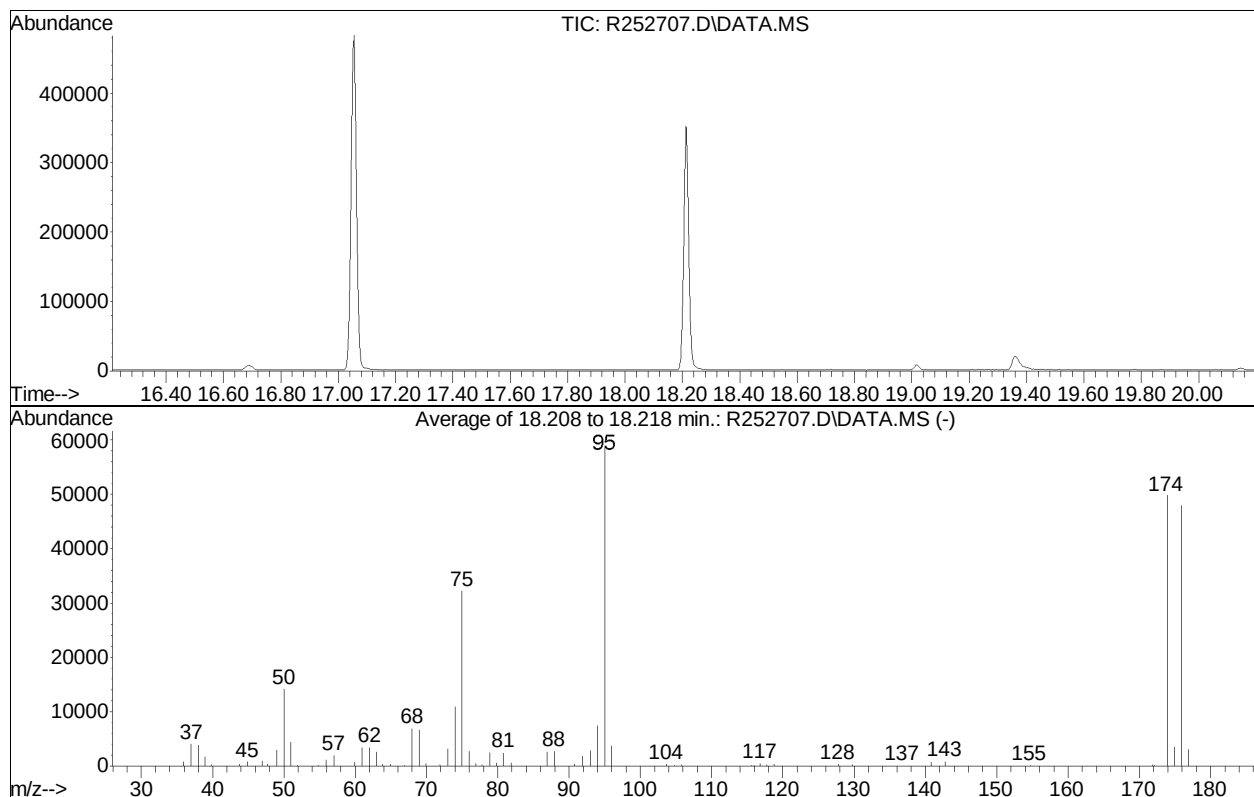
There are no manual integrations or false positives in this file.

BFB

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
 Data File : R252707.D
 Acq On : 3 Mar 2018 11:24 am
 Operator : AIRPIAN02:GJ
 Sample : WG1094275-1,3,250,250
 Misc : WG1094275,ICAL14413
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Thu Feb 08 09:50:26 2018



AutoFind: Scans 1812, 1813, 1814; Background Corrected with Scan 1805

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.1	14142	PASS
75	95	30	66	55.0	32296	PASS
95	95	100	100	100.0	58771	PASS
96	95	5	9	6.4	3780	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	84.7	49808	PASS
175	174	4	9	7.1	3538	PASS
176	174	93	101	96.3	47971	PASS
177	176	5	9	6.5	3097	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
 Data File : R252710.D
 Acq On : 3 Mar 2018 1:38 pm
 Operator : AIRPIAN02:GJ
 Sample : WG1094275-4,3,250,250
 Misc : WG1094275,ICAL14413
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 03 14:08:25 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303SIM\R252709.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.54	49	107665	10.000	ppbV	# 0.00
Standard Area = 124535			Recovery =		86.45%	
33) 1,4-difluorobenzene	12.74	114	209545	10.000	ppbV	0.00
Standard Area = 265013			Recovery =		79.07%	
51) chlorobenzene-D5	17.05	54	46536	10.000	ppbV	0.00
Standard Area = 60697			Recovery =		76.67%	

System Monitoring Compounds

Target Compounds				Qvalue
6) vinyl chloride	4.95	0	N.D.	
17) 1,1-dichloroethene	7.76	0	N.D.	
23) trans-1,2-dichloroethene	9.11	0	N.D.	
24) 1,1-dichloroethane	9.37	0	N.D.	
28) cis-1,2-dichloroethene	10.35	0	N.D.	
32) 1,2-dichloroethane	11.54	0	N.D.	
36) 1,1,1-trichloroethane	11.81	0	N.D.	
44) trichloroethene	13.53	0	N.D.	
57) tetrachloroethene	16.53	0	N.D.	

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

Sub List : 9_Chlorinateds - .AIR2\2018\180303SIM\R252709.D

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\

Data File : R252710.D

Acq On : 3 Mar 2018 1:38 pm

Operator : AIRPIAN02:GJ

Sample : WG1094275-4,3,250,250

Misc : WG1094275,ICAL14413

ALS Vial : 1 Sample Multiplier: 1

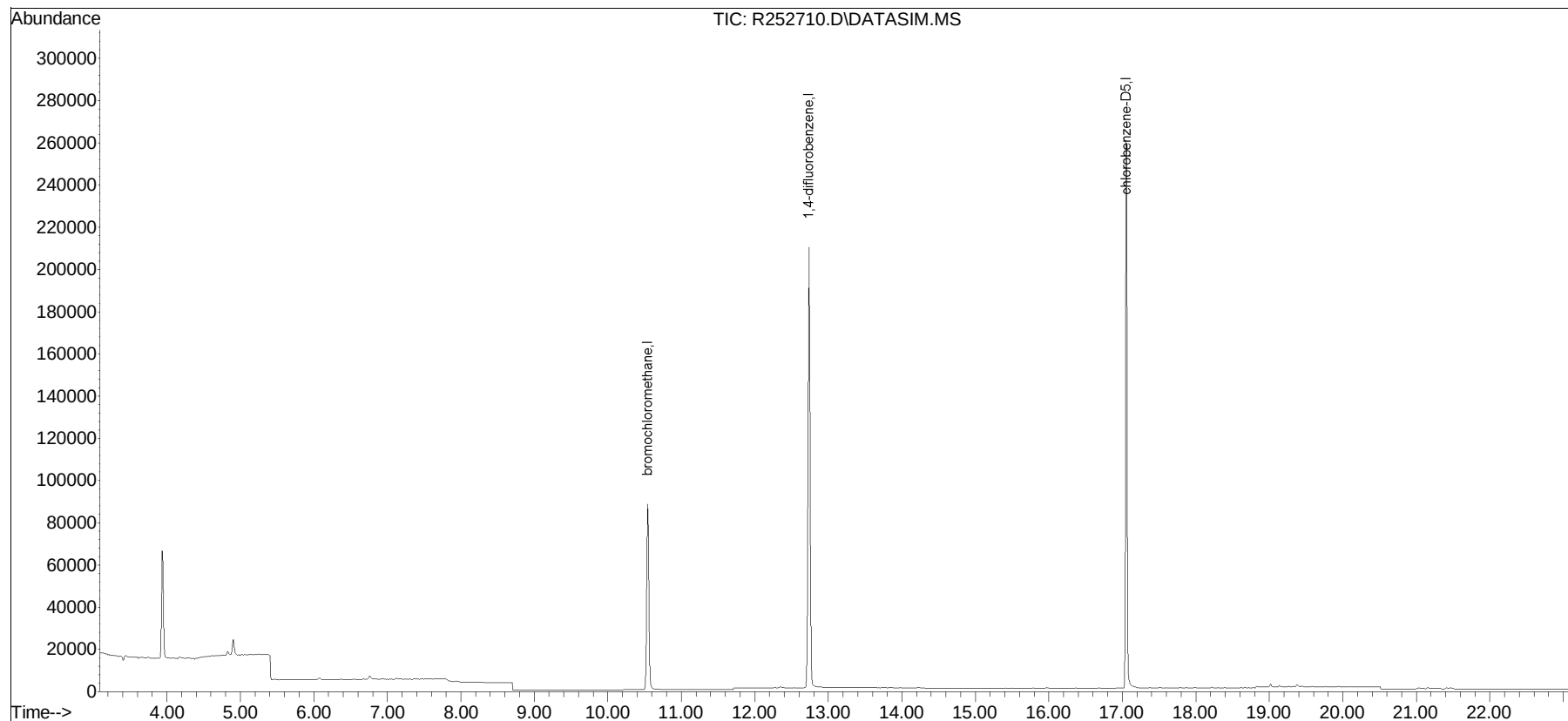
Quant Time: Mar 03 14:08:25 2018

Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Thu Feb 08 09:50:26 2018

Response via : Initial Calibration



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2018QMethod : TSIM180207.M
Data File : R252710.D Operator : AIRPIAN02:GJ
Date Inj'd : 3/3/2018 1:38 pm Instrument : Airpiano 2
Sample : WG1094275-4,3,250,250 Quant Date : 3/3/2018 2:08 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
 Data File : R252709.D
 Acq On : 3 Mar 2018 12:34 pm
 Operator : AIRPIAN02:GJ
 Sample : WG1094275-3,3,250,250
 Misc : WG1094275,ICAL14413
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 13:05:18 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.54	49	124535	10.000	ppbV	# 0.00
33) 1,4-difluorobenzene	12.74	114	265013	10.000	ppbV	0.00
51) chlorobenzene-D5	17.05	54	60697	10.000	ppbV	# 0.00

System Monitoring Compounds

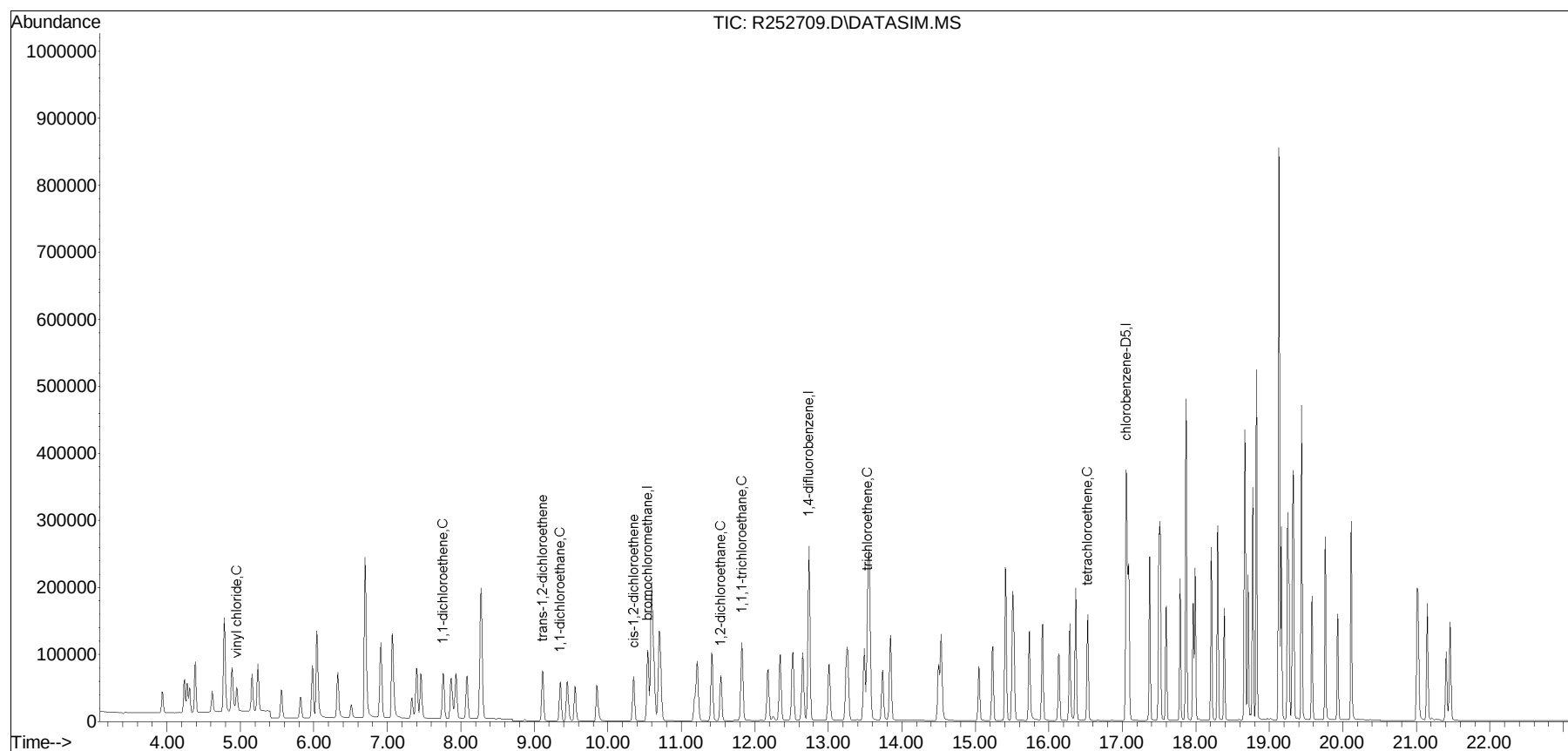
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.95	62	41943	4.203	ppbV	98
17) 1,1-dichloroethene	7.76	61	68116	4.054	ppbV	96
23) trans-1,2-dichloroethene	9.11	61	62785	4.103	ppbV	# 87
24) 1,1-dichloroethane	9.35	63	79971	4.134	ppbV	99
28) cis-1,2-dichloroethene	10.35	61	57593	4.062	ppbV	87
32) 1,2-dichloroethane	11.54	62	64657	4.658	ppbV	96
36) 1,1,1-trichloroethane	11.82	97	88594	4.049	ppbV	88
44) trichloroethene	13.53	130	52414	4.098	ppbV	97
57) tetrachloroethene	16.53	166	68767	5.987	ppbV	95

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

Sub List : 9_Chlorinateds - .eport (QT Reviewed)

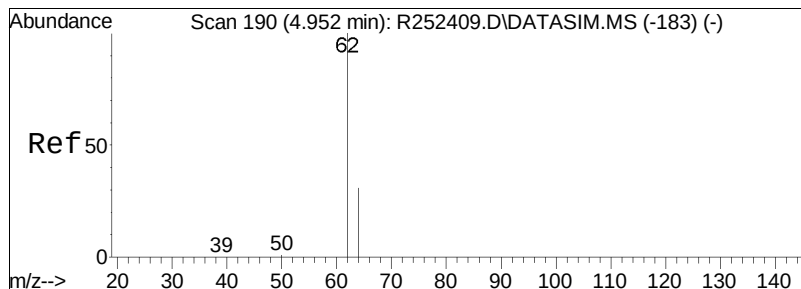
Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
Data File : R252709.D
Acq On : 3 Mar 2018 12:34 pm
Operator : AIRPIAN02:GJ
Sample : WG1094275-3,3,250,250
Misc : WG1094275,ICAL14413
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 13:05:18 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:50:26 2018
Response via : Initial Calibration



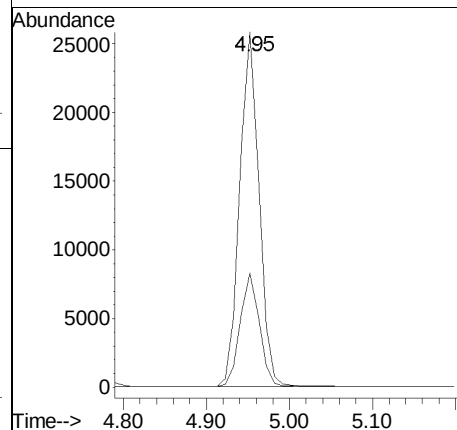
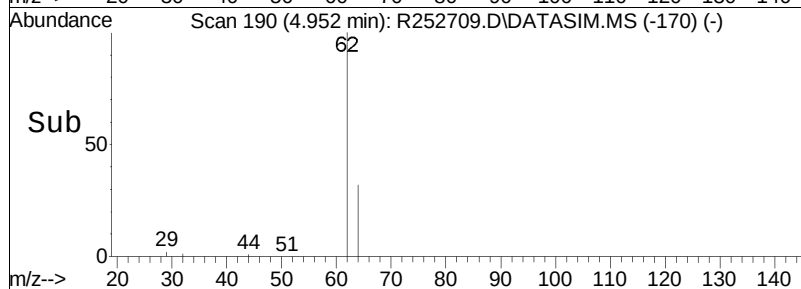
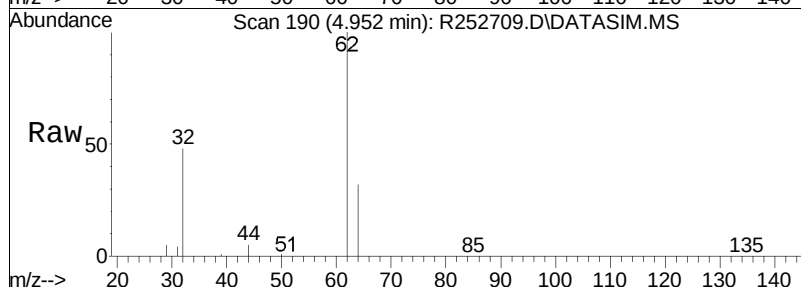
TSIM180207.M Sun Mar 04 15:30:38 2018

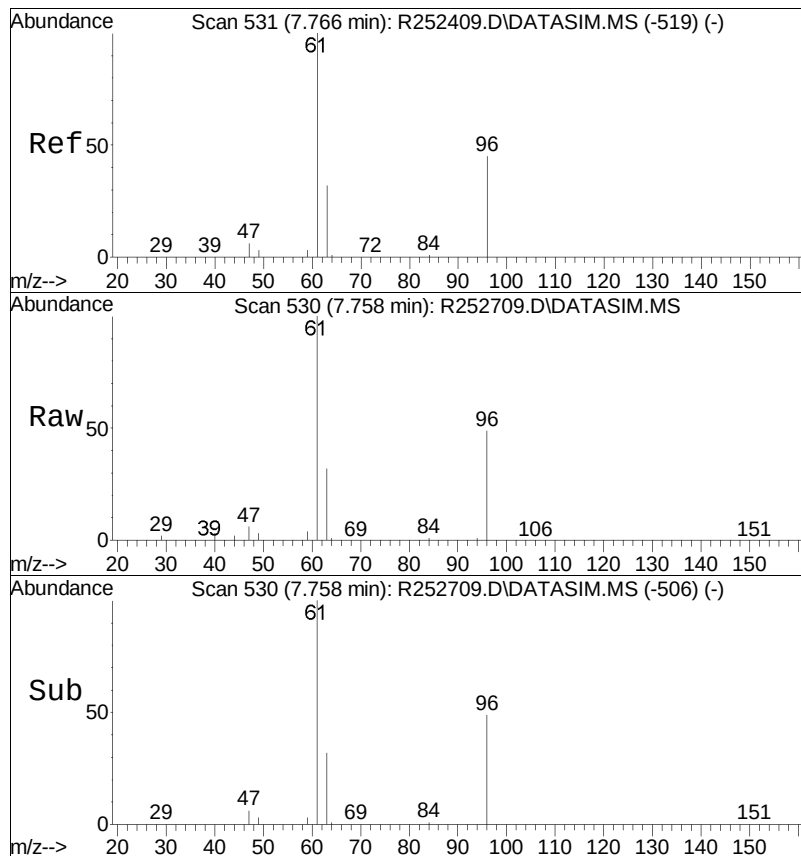
Page: 2



#6
vinyl chloride
Concen: 4.20 ppbV
RT: 4.95 min Scan# 190
Delta R.T. -0.000 min
Lab File: R252709.D
Acq: 3 Mar 2018 12:34 pm

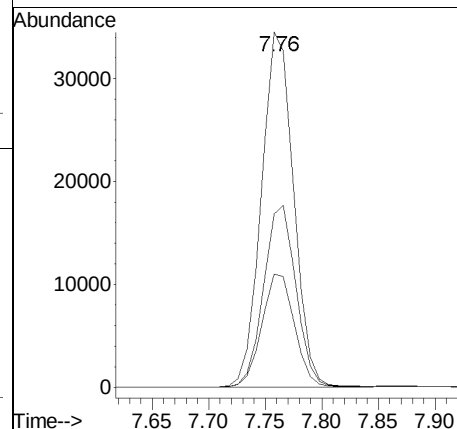
Tgt Ion: 62 Resp: 41943
Ion Ratio Lower Upper
62 100
64 32.2 24.8 37.2

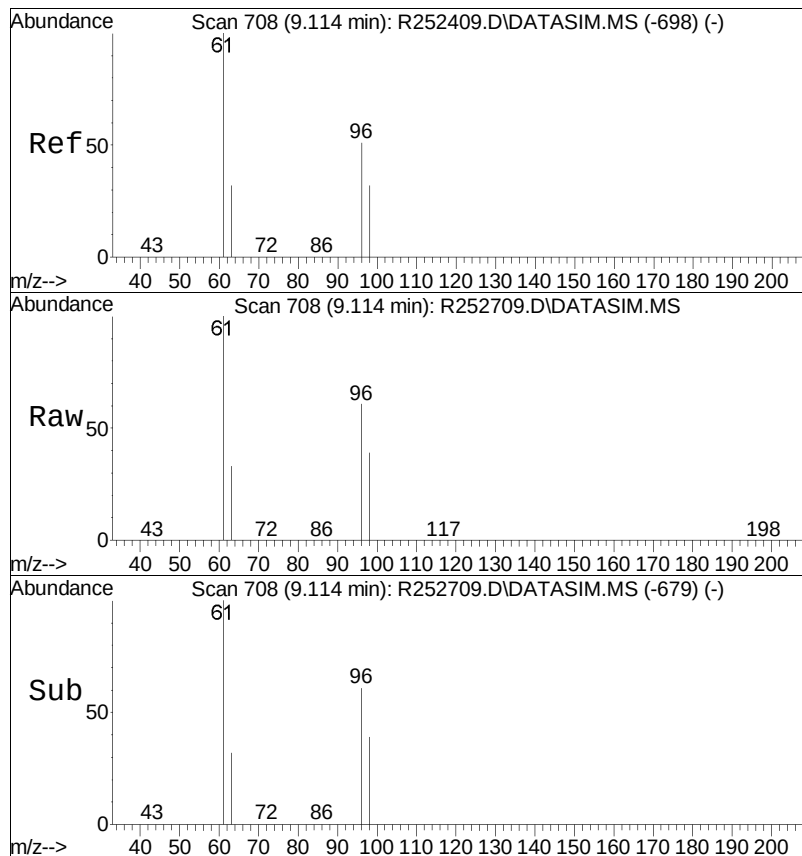




#17
 1,1-dichloroethene
 Concen: 4.05 ppbV
 RT: 7.76 min Scan# 530
 Delta R.T. -0.008 min
 Lab File: R252709.D
 Acq: 3 Mar 2018 12:34 pm

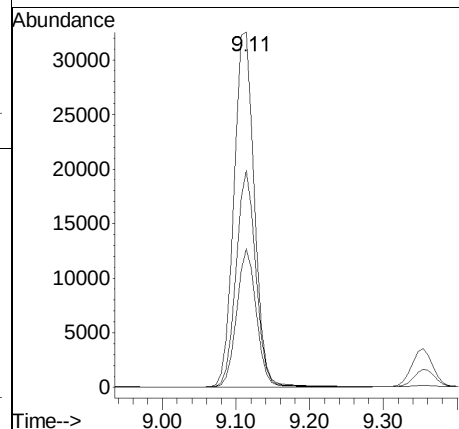
Tgt Ion:	61	Resp:	68116
Ion Ratio	Lower	Upper	
61	100		
96	48.8	35.8	53.8
63	32.0	25.6	38.4

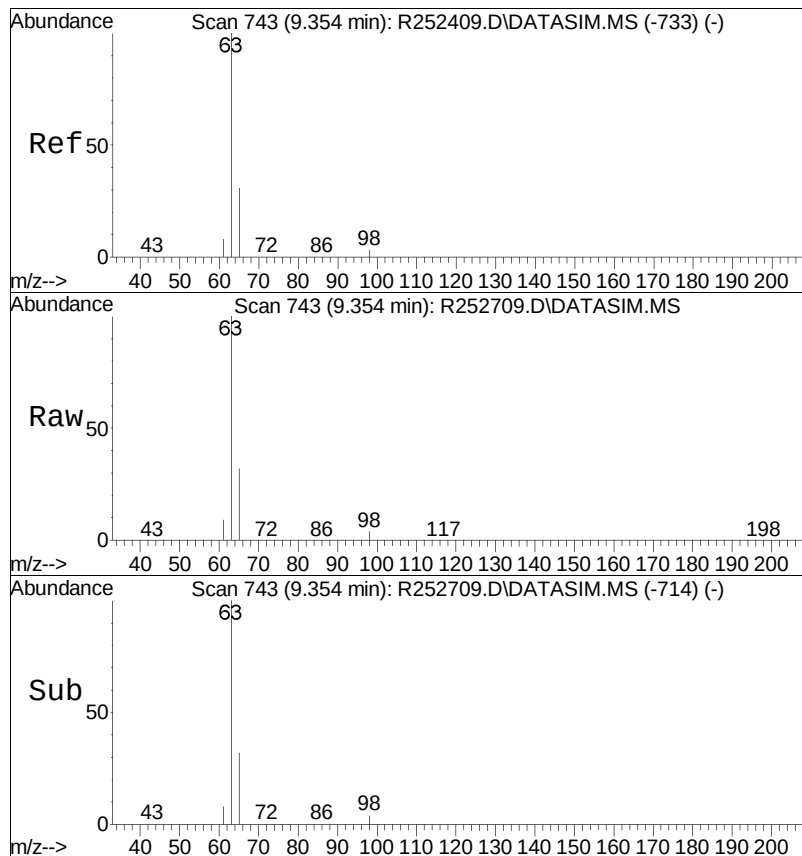




#23
trans-1,2-dichloroethene
Concen: 4.10 ppbV
RT: 9.11 min Scan# 708
Delta R.T. -0.000 min
Lab File: R252709.D
Acq: 3 Mar 2018 12:34 pm

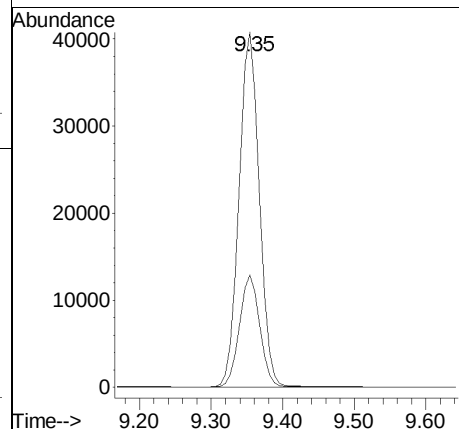
Tgt Ion	Ratio	Lower	Upper
61	100		
96	61.0	41.0	61.4
98	39.0	25.9	38.9

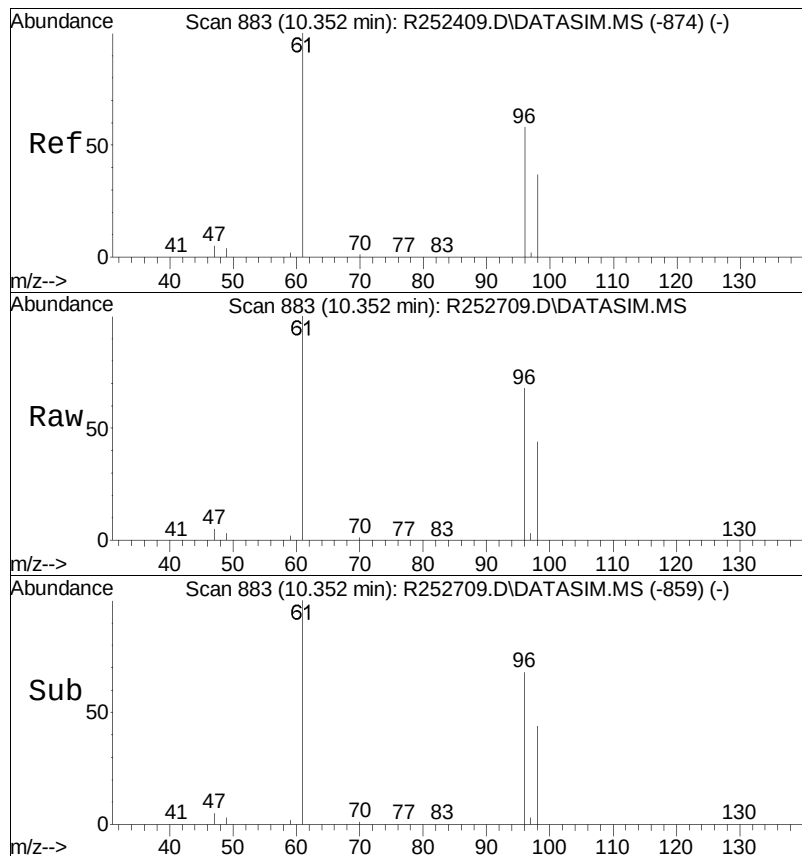




#24
 1,1-dichloroethane
 Concen: 4.13 ppbV
 RT: 9.35 min Scan# 743
 Delta R.T. -0.000 min
 Lab File: R252709.D
 Acq: 3 Mar 2018 12:34 pm

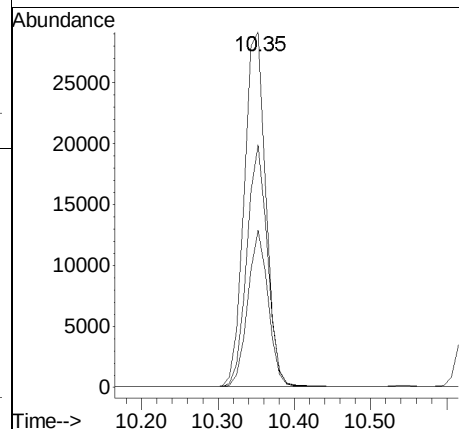
Tgt Ion:	63	Resp:	79971
Ion Ratio	Lower	Upper	
63	100		
65	31.7	25.0	37.6

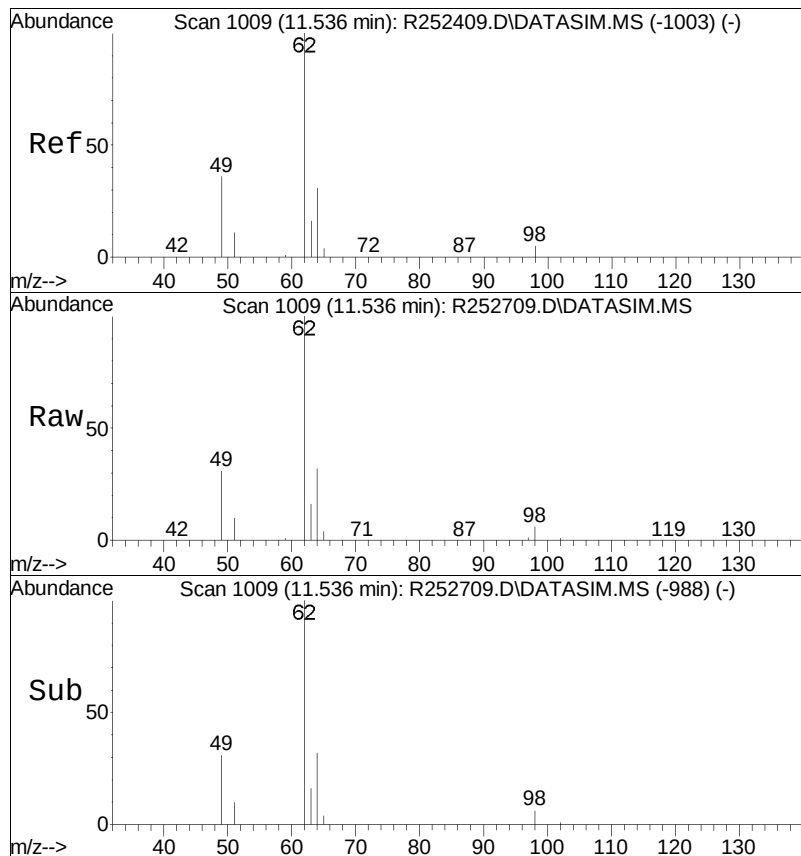




#28
 cis-1,2-dichloroethene
 Concen: 4.06 ppbV
 RT: 10.35 min Scan# 883
 Delta R.T. -0.000 min
 Lab File: R252709.D
 Acq: 3 Mar 2018 12:34 pm

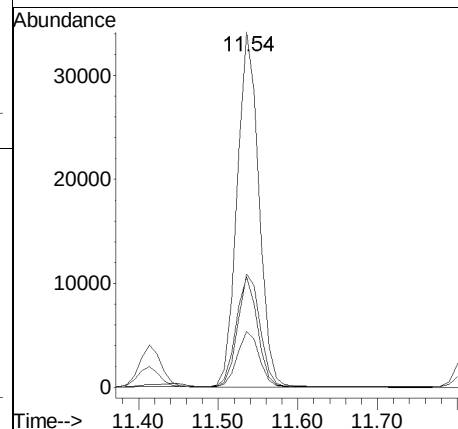
Tgt Ion:	61	Resp:	57593
Ion Ratio	Lower	Upper	
61	100		
96	68.2	46.7	70.1
98	44.2	29.6	44.4

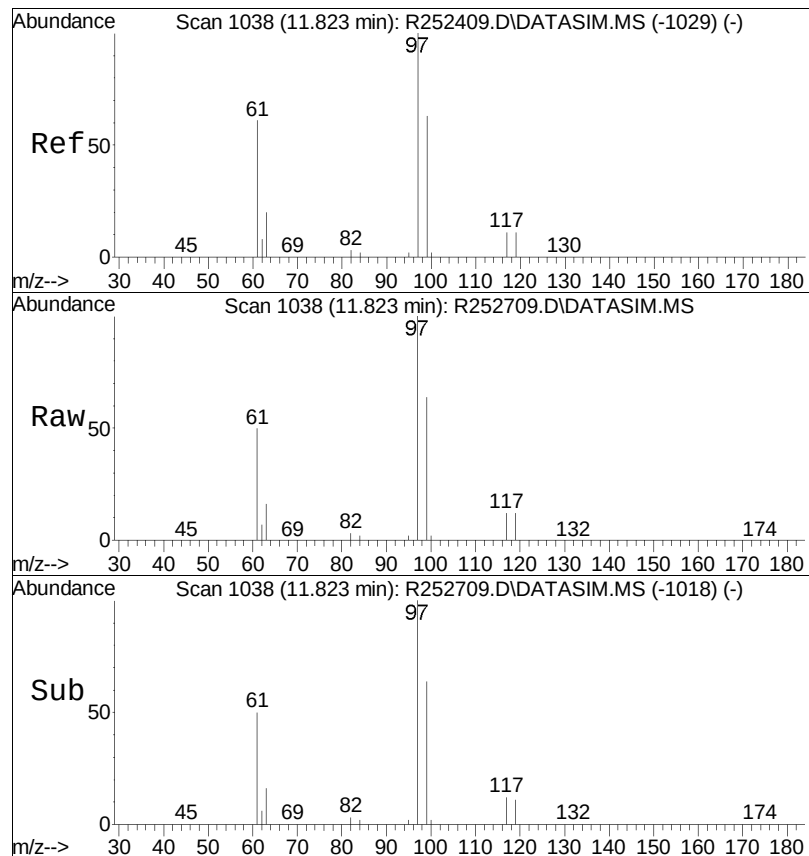




#32
 1,2-dichloroethane
 Concen: 4.66 ppbV
 RT: 11.54 min Scan# 1009
 Delta R.T. -0.000 min
 Lab File: R252709.D
 Acq: 3 Mar 2018 12:34 pm

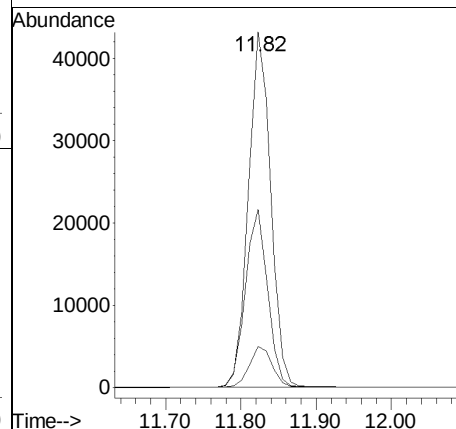
Tgt Ion:	62	Resp:	64657
Ion Ratio	Lower	Upper	
62	100		
64	31.9	24.8	37.2
49	31.0	28.7	43.1
63	15.7	12.7	19.1

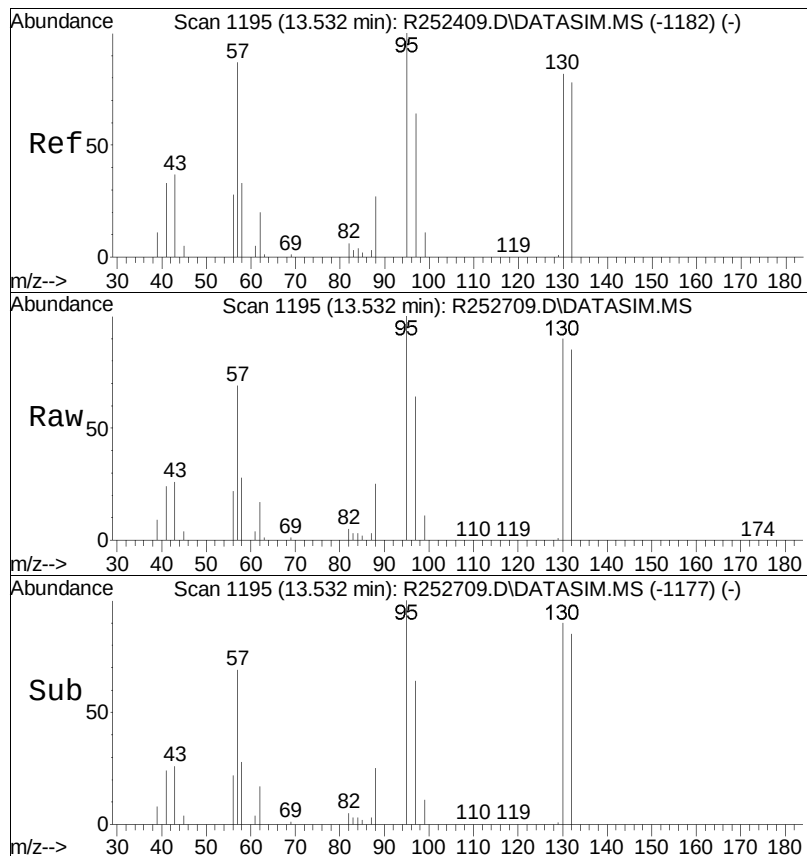




#36
 1,1,1-trichloroethane
 Concen: 4.05 ppbV
 RT: 11.82 min Scan# 1038
 Delta R.T. -0.000 min
 Lab File: R252709.D
 Acq: 3 Mar 2018 12:34 pm

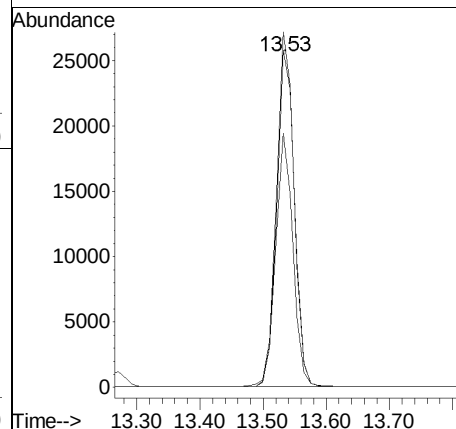
Tgt Ion	Ratio	Lower	Upper
97	100		
61	50.1	48.7	73.1
119	11.5	8.6	13.0

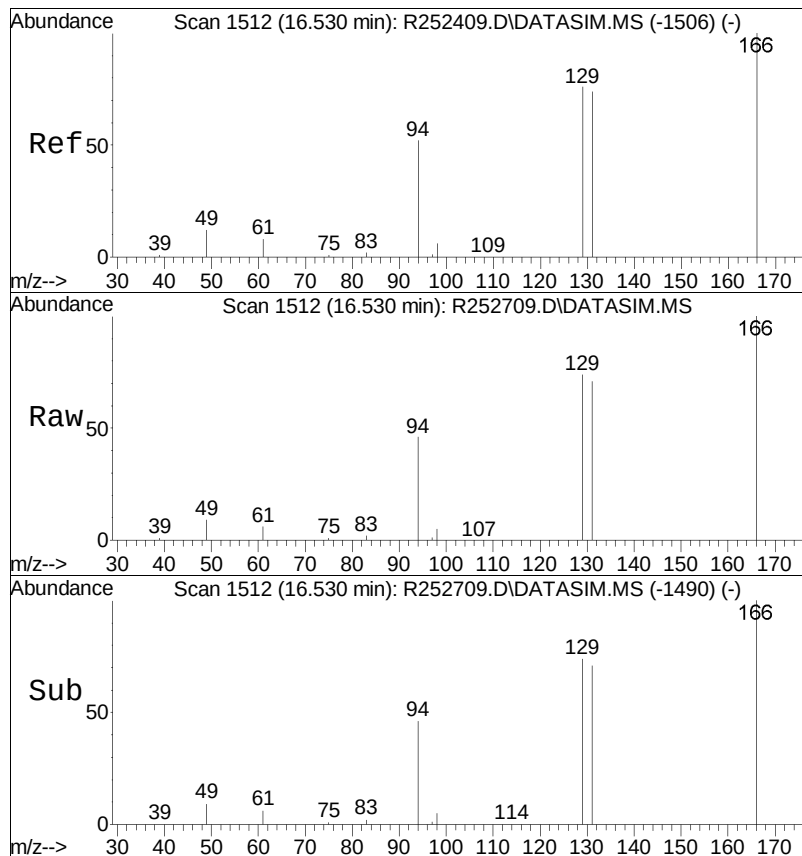




#44
trichloroethene
Concen: 4.10 ppbV
RT: 13.53 min Scan# 1195
Delta R.T. -0.000 min
Lab File: R252709.D
Acq: 3 Mar 2018 12:34 pm

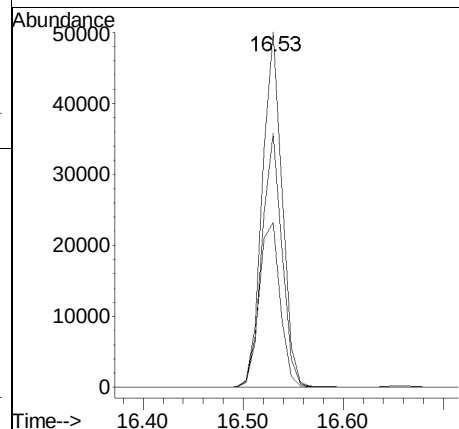
Tgt Ion	Ratio	Lower	Upper
130	100		
132	94.9	75.7	113.5
97	71.6	62.2	93.4





#57
 tetrachloroethene
 Concen: 5.99 ppbV
 RT: 16.53 min Scan# 1512
 Delta R.T. -0.000 min
 Lab File: R252709.D
 Acq: 3 Mar 2018 12:34 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	71.5	59.0	88.6
94	46.4	41.8	62.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TSIM180207.M
Data File	: R252709.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 12:34 pm	Instrument	: Airpiano 2
Sample	: WG1094275-3,3,250,250	Quant Date	: 3/3/2018 1:05 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
 Data File : R252715.D
 Acq On : 3 Mar 2018 5:33 pm
 Operator : AIRPIAN02:GJ
 Sample : WG1094275-5,3,250,250
 Misc : WG1094275,ICAL14413
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 04 15:26:50 2018
 Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Feb 08 09:50:26 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2018\180303SIM\R252709.D
 Sub List : 9_Chlorinateds - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.54	49	107635	10.000	ppbV	# 0.00
Standard Area = 124535			Recovery =		86.43%	
33) 1,4-difluorobenzene	12.74	114	203631	10.000	ppbV	# 0.00
Standard Area = 265013			Recovery =		76.84%	
51) chlorobenzene-D5	17.05	54	49136	10.000	ppbV	# 0.00
Standard Area = 60697			Recovery =		80.95%	

System Monitoring Compounds

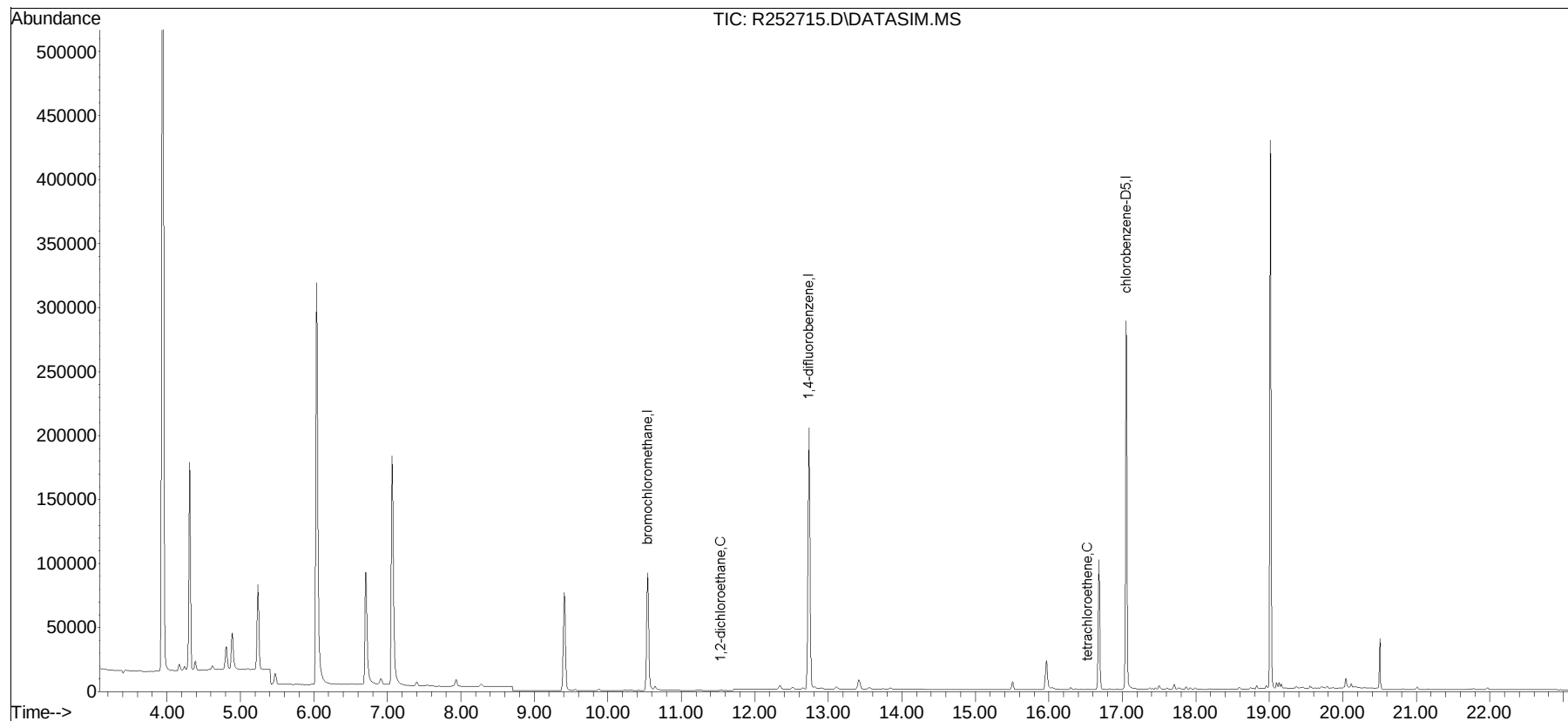
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.95		0		N.D.	
17) 1,1-dichloroethene	7.70		0		N.D.	
23) trans-1,2-dichloroethene	9.11		0		N.D.	
24) 1,1-dichloroethane	0.00		0		N.D.	d
28) cis-1,2-dichloroethene	10.34		0		N.D.	
32) 1,2-dichloroethane	11.54	62	211	0.018	ppbV	# 56
36) 1,1,1-trichloroethane	11.82		0		N.D.	
44) trichloroethene	13.53		0		N.D.	
57) tetrachloroethene	16.53	166	322	0.035	ppbV	96

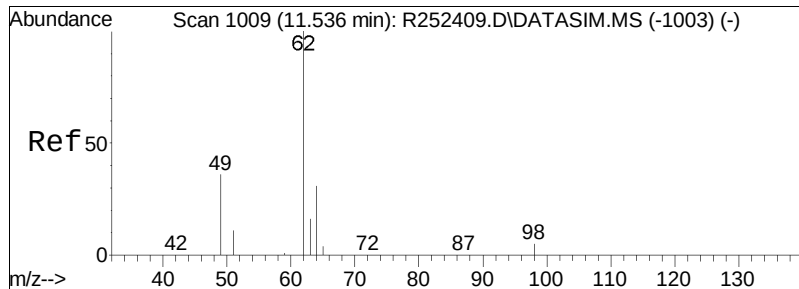
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 9_Chlorinateds - .AIR2\2018\180303SIM\R252709.D

Data Path : 0:\Forensics\Data\AIR2\2018\180303SIM\
Data File : R252715.D
Acq On : 3 Mar 2018 5:33 pm
Operator : AIRPIAN02:GJ
Sample : WG1094275-5,3,250,250
Misc : WG1094275,ICAL14413
ALS Vial : 4 Sample Multiplier: 1

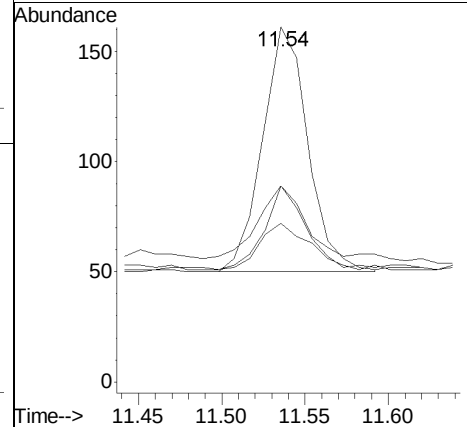
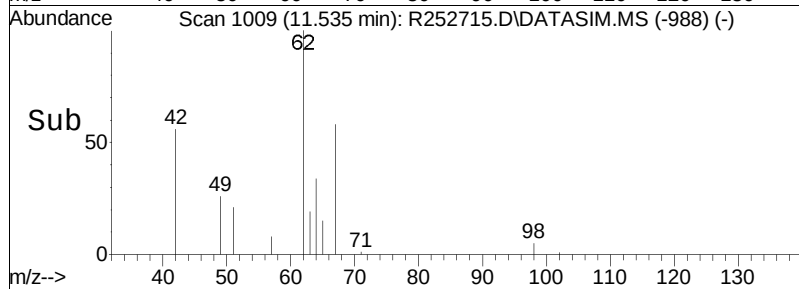
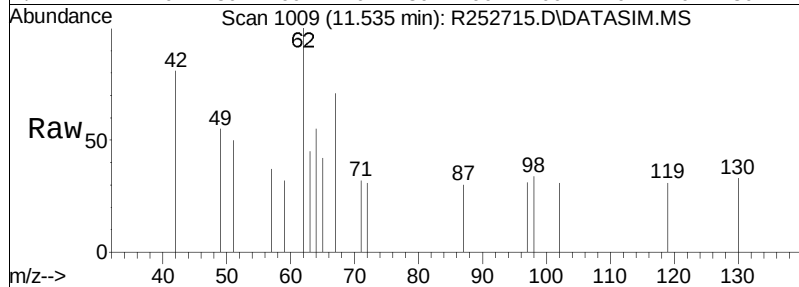
Quant Time: Mar 04 15:26:50 2018
Quant Method : 0:\Forensics\Data\AIR2\2018\180303SIM\TSIM180207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 08 09:50:26 2018
Response via : Initial Calibration

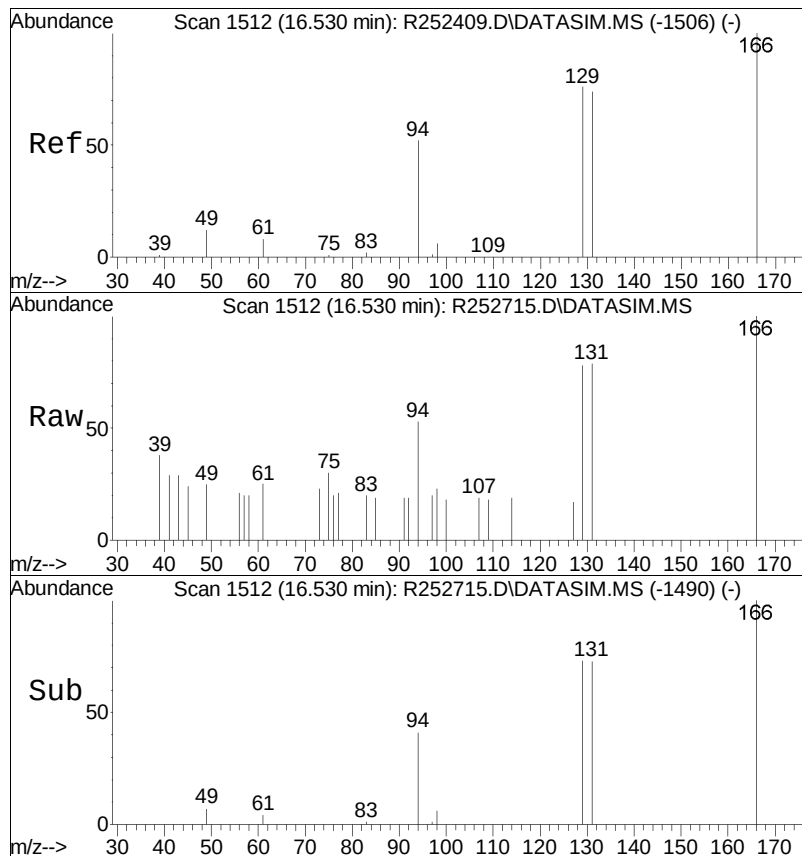




#32
 1,2-dichloroethane
 Concen: 0.02 ppbV
 RT: 11.54 min Scan# 1009
 Delta R.T. -0.000 min
 Lab File: R252715.D
 Acq: 3 Mar 2018 5:33 pm

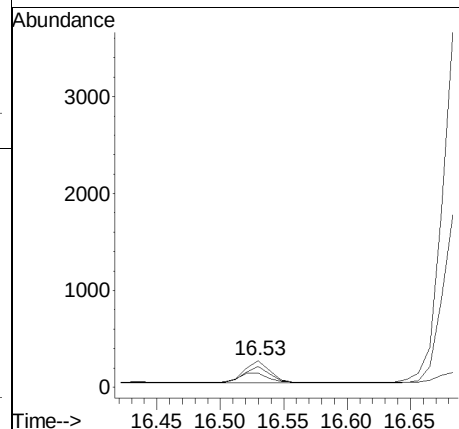
Tgt Ion:	62	Resp:	211
Ion Ratio	Lower	Upper	
62	100		
64	55.3	24.8	37.2#
49	55.3	28.7	43.1#
63	44.7	12.7	19.1#





#57
 tetrachloroethene
 Concen: 0.03 ppbV
 RT: 16.53 min Scan# 1512
 Delta R.T. -0.000 min
 Lab File: R252715.D
 Acq: 3 Mar 2018 5:33 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	78.5	59.0	88.6
94	53.5	41.8	62.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2018Q	Method	: TSIM180207.M
Data File	: R252715.D	Operator	: AIRPIAN02:GJ
Date Inj'd	: 3/3/2018 5:33 pm	Instrument	: Airpiano 2
Sample	: WG1094275-5,3,250,250	Quant Date	: 3/4/2018 8:05 am

There are no manual integrations or false positives in this file.

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 06 2018, 10:59 am

Work Group: WG1094275 for Department: 3 GC/MS

Created: 03-MAR-18 Due: Operator: ry

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1806385-02	IA-DCF	S T015-SIM	AIR	DONE	U	0324	0302	S0	Can-6
L1806385-04	IA-DCR	S T015-SIM	AIR	DONE	U	0324	0302	S0	Can-6
L1806385-06	AMBIENT	S T015-SIM	AIR	DONE	U	0324	0302	S0	Can-6
L1806385-08	IA-WINE	S T015-SIM	AIR	DONE	U	0324	0302	S0	Can-6
L1806385-11	IA-YOGURT	S T015-SIM	AIR	DONE	U	0324	0302	S0	Can-6
WG1094275-1	MS BFB Tune Standard	S T015-SIM	AIR	DONE	U				
WG1094275-2	Continuing Calibrati	S T015-SIM	AIR	DONE	U				
WG1094275-3	Laboratory Control S	S T015-SIM	AIR	DONE	U				
WG1094275-4	Laboratory Method Bl	S T015-SIM	AIR	DONE	U				
WG1094275-5	Duplicate Sample	S T015-SIM	AIR	DONE	U				
Comments:									
WG1094275-5	L1806385-04								

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

Sequence Name: C:\Smart\180207T_ICAL.SEQ

Date: 02-08-2018

Time: 11:32:42

Int. Std Volume: 100 cc

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
TA2020701	1	1	250	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.02	1	5	50	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.04	1	5	100	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.1	1	5	250	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.2	1	6	50	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.5	1	6	125	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD1.0	1	6	250	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD5.0	1	7	125	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD10.0	1	7	250	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD20.0	1	8	50	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD50.0	1	8	125	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD100.0	1	8	250	100	C:\Smart\Alpha-TO15.CTD	12:00
BA2020701	1	1	250	100	C:\Smart\Alpha-TO15.CTD	12:00
BA2020702	1	1	250	100	C:\Smart\Alpha-TO15.CTD	12:00
CTO15-LLSTD10.0	1	2	250	100	C:\Smart\Alpha-TO15.CTD	12:00
CTO15-SIMSTD5.0	1	2	125	100	C:\Smart\Alpha-TO15.CTD	12:00

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airpiano 2

Internal Standard/Surrogate IDs: SS17-030/ SS17-031

Date: 02/07/18

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: RY

Sequence File Name: 180207.S

SIM ICAL#

Full Scan ICAL#

TO-12 ICAL#

APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Leak Check Pass ? Y/N
1	TA2020701	TO15_SFS	R252402	250ml	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS	R252403	SS18-001D 125ML	SIM ONLY		NA
5	ITO15-SIMSTD0.04	TO15_SFS	R252404	SS18-001D 250ML	SIM ONLY		NA
5	ITO15-SIMSTD0.1	TO15_SFS	R252405	SS18-001C 25ML	SIM ONLY		NA
6	ITO15-SIMSTD0.2	TO15_SFS	R252406	SS18-001C 50ML			NA
6	ITO15-SIMSTD0.5	TO15_SFS	R252407	SS18-001C 125ML			NA
6	ITO15-SIMSTD1.0	TO15_SFS	R252408	SS18-001C 250ML			NA
7	ITO15-SIMSTD5.0	TO15_SFS	R252409	SS18-001B1 125ML			NA
7	ITO15-SIMSTD10.0	TO15_SFS	R252410	SS18-001B1 250ML			NA
8	ITO15-SIMSTD20.0	TO15_SFS	R252411	SS18-001A 50ML			NA
8	ITO15-SIMSTD50.0	TO15_SFS	R252412	SS18-001A 125ML			NA
8	ITO15-SIMSTD100.0	TO15_SFS	R252413	SS18-001A 250ML	NOT USED FOR SIM		NA
1	BA2020701	TO15_SFS	R252414	250ml			NA
		Pause					
1	BA2020702	TO15_SFS	R252415	250ml			NA
2	CTO15-LLSTD10.0	TO15_SFS	R252416	SS18-002A 250ML	FULL SCAN ICV		NA
2	CTO15-SIMSTD5.0	TO15_SFS	R252417	SS18-002A 125ML	SIM ICV		NA

Alpha Analytical Air Lab Instrument Run Log

[illegible]

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airpiano 2

Internal Standard/Surrogate IDs: SS17-030/ SS17-031

Date: 03/03/18

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: RY

Sequence File Name: 180303.S

SIM ICAL# 14413

Full Scan ICAL# 14412

TO-12 ICAL#

APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/Sublist	Leak Check Pass ? Y/N
1	TA2030301	TO15_SFS	R252707	250ml	TUNE		NA
2	CTO15-LLSTD10.0	TO15_SFS	R252708	250ml; SS18-002C	LL LCS		NA
2	CTO15-SIMSTD5.0	TO15_SFS	R252709	125ml; SS18-002C	SIM LCS		NA
1	BA2030301	TO15_SFS	R252710	250ml	BLANK		Y
1	L1806639-05,3,250,250	TO15_SFS	R252711	WG1094273,ICAL14412		9-CL	Y
2	L1806385-06,3,250,250	TO15_SFS	R252712	WG1094275,ICAL14413		6 CL BY SIM	Y
3	L1806385-02,3,250,250	TO15_SFS	R252713	WG1094275,ICAL14413		6 CL BY SIM	Y
4	L1806385-04,3,250,250	TO15_SFS	R252714	WG1094275,ICAL14413		6 CL BY SIM	Y
4	L1806385-04DUP,3,250,250	TO15_SFS	R252715	WG1094275,ICAL14413	TO15-SIM DUP	6 CL BY SIM	Y
5	L1806385-08,3,250,250	TO15_SFS	R252716	WG1094275,ICAL14413		6 CL BY SIM	Y
6	L1806385-11,3,250,250	TO15_SFS	R252717	WG1094275,ICAL14413		6 CL BY SIM	Y
7	L1806639-01D,3,167.16,250	TO15_SFS	R252718	WG1094273,ICAL14412		9-CL	Y
8	L1806639-02,3,250,250	TO15_SFS	R252719	WG1094273,ICAL14412		9-CL	Y
9	L1806639-03,3,250,250	TO15_SFS	R252720	WG1094273,ICAL14412		9-CL	Y
9	L1806639-03DUP,3,250,250	TO15_SFS	R252721	WG1094273,ICAL14412	MCP-TO15 DUP	9-CL	Y
10	L1806639-04,3,250,250	TO15_SFS	R252722	WG1094273,ICAL14412		9-CL	Y
11	L1806385-01,3,250,250	TO15_SFS	R252723	WG1094274,ICAL14412		6 CL	Y
12	L1806385-03,3,250,250	TO15_SFS	R252724	WG1094274,ICAL14412		6 CL	Y
12	L1806385-03DUP,3,250,250	TO15_SFS	R252725	WG1094274,ICAL14412	TO15-LL DUP	6 CL	Y
13	L1806385-05,3,250,250	TO15_SFS	R252726	WG1094274,ICAL14412		6 CL	Y
14	L1806385-07,3,250,250	TO15_SFS	R252727	WG1094274,ICAL14412		6 CL	Y

Alpha Analytical Air Lab Instrument Run Log

15	L1806385-09,3,250,250	TO15_SFS	R252728	WG1094274,ICAL14412		6 CL	Y
16	L1806385-10,3,250,250	TO15_SFS	R252729	WG1094274,ICAL14412		6 CL	Y

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed



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Alpha Analytical

Laboratory Code: 11148

SDG Number: L1815200

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Project Name: OCEANSIDE PLAZA
Project Number: 1802.0001Y000

Lab Number: L1815200
Report Date: 05/03/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1815200-01	VS-DCF	SOIL_VAPOR	OCEANSIDE, NY	04/27/18 17:04	04/27/18
L1815200-02	IA-DCF	AIR	OCEANSIDE, NY	04/27/18 16:51	04/27/18
L1815200-03	VS-MRE	SOIL_VAPOR	OCEANSIDE, NY	04/27/18 16:55	04/27/18
L1815200-04	IA-DCR	AIR	OCEANSIDE, NY	04/27/18 17:07	04/27/18
L1815200-05	VS-DCR	SOIL_VAPOR	OCEANSIDE, NY	04/27/18 16:57	04/27/18
L1815200-06	VS-FENCE	SOIL_VAPOR	OCEANSIDE, NY	04/27/18 17:08	04/27/18
L1815200-07	IA-WINE	AIR	OCEANSIDE, NY	04/27/18 17:34	04/27/18
L1815200-08	VS-VAC	SOIL_VAPOR	OCEANSIDE, NY	04/27/18 17:36	04/27/18
L1815200-09	VS-BOOK	SOIL_VAPOR	OCEANSIDE, NY	04/27/18 17:21	04/27/18
L1815200-10	IA-YOGURT	AIR	OCEANSIDE, NY	04/27/18 17:19	04/27/18
L1815200-11	AMBIENT	AIR	OCEANSIDE, NY	04/27/18 17:43	04/27/18

Project Name: OCEANSIDE PLAZA
Project Number: 1802.0001Y000

Lab Number: L1815200
Report Date: 05/03/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

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.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: OCEANSIDE PLAZA
Project Number: 1802.0001Y000

Lab Number: L1815200
Report Date: 05/03/18

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 27, 2018. The canister certification results are provided as an addendum.

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: 

Report Date: 05/03/18

Title: Technical Director/Representative



GLOSSARY

Acronyms

EDL	- Estimated 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 EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report



Project Name: OCEANSIDE PLAZA
Project Number: 1802.0001Y000

Lab Number: L1815200
Report Date: 05/03/18

Data Qualifiers

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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- 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 lower value for the two columns 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.
- 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.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.



Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 5975MSD (or equivalent)	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.52 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-1701	df: 0.25
Column B: Restek RTX-5	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

EPH

Instrument: Agilent 6890N w/FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (ECD):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L1815200

Received : 27-APR-2018

Reviewer : Kim L. Bailey

Account Name : Roux Envr. Engr. & Geology, DPC

Project Number : 1802.0001Y000

Project Name : OCEANSIDE PLAZA

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
N/A	Absent/			

Condition Information

All samples on COC received? **YES**

Extra samples received? **NO**

Are there any sample container discrepancies? **NO**

Are there any discrepancies between sample labels & COC? **NO**

Are samples in appropriate containers for requested analysis? **YES**

Are samples properly preserved for requested analysis? **YES**

Are samples within holding time for requested analysis? **YES**

All sampling equipment returned? **YES**

Volatile Organics/VPH

Reagent Water Vials Frozen by Client? **NA**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
May 03 2018, 04:14 pm

Login Number: L1815200

Account: ROUX-NY Roux Envr. Engr. & Geology, DPCProject: 1802.0001Y000

Received: 27APR18 Due Date: 03MAY18

Sample #	Client ID	Mat PR Collected
L1815200-01 VS-DCF		11 S0 27APR18 17:04
Please report: 1,1-DCE, cis and trans-1,2-DCE, Total 1,2-DCE, PCE, TCE and VC. Need 1 ug/m3 or less. ASP-B Package Due Date: 05/03/18		
ASP-B, CAN-RENT, FLOW-RENT, T015-SIM		
L1815200-02 IA-DCF		10 S0 27APR18 16:51
Please report: 1,1-DCE, cis and trans-1,2-DCE, Total 1,2-DCE, PCE, TCE and VC. Need 1 ug/m3 or less. Package Due Date: 05/03/18		
CAN-RENT, FLOW-RENT, T015-SIM		
L1815200-03 VS-MRE		11 S0 27APR18 16:55
Please report: 1,1-DCE, cis and trans-1,2-DCE, Total 1,2-DCE, PCE, TCE and VC. Need 1 ug/m3 or less. Package Due Date: 05/03/18		
CAN-RENT, FLOW-RENT, T015-SIM		
L1815200-04 IA-DCR		10 S0 27APR18 17:07
Please report: 1,1-DCE, cis and trans-1,2-DCE, Total 1,2-DCE, PCE, TCE and VC. Need 1 ug/m3 or less. Package Due Date: 05/03/18		
CAN-RENT, FLOW-RENT, T015-SIM		
L1815200-05 VS-DCR		11 S0 27APR18 16:57
Please report: 1,1-DCE, cis and trans-1,2-DCE, Total 1,2-DCE, PCE, TCE and VC. Need 1 ug/m3 or less. Package Due Date: 05/03/18		
CAN-RENT, FLOW-RENT, T015-SIM		
L1815200-06 VS-FENCE		11 S0 27APR18 17:08
Please report: 1,1-DCE, cis and trans-1,2-DCE, Total 1,2-DCE, PCE, TCE and VC. Need 1 ug/m3 or less. Package Due Date: 05/03/18		

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
May 03 2018, 04:14 pm

Login Number: L1815200

Account: ROUX-NY Roux Envr. Engr. & Geology, DPCProject: 1802.0001Y000

Received: 27APR18 Due Date: 03MAY18

Sample # Client ID Mat PR Collected

CAN-RENT, FLOW-RENT, T015-SIM

L1815200-07 IA-WINE

10 S0 27APR18 17:34

Need 1 ug/m3 or less. Please report: 1,1-DCE, cis and trans-1,2-DCE, Total 1,2-DCE, PCE, TCE and VC.
Package Due Date: 05/03/18

CAN-RENT, FLOW-RENT, T015-SIM

L1815200-08 VS-VAC

11 S0 27APR18 17:36

Please report: 1,1-DCE, cis and trans-1,2-DCE, Total 1,2-DCE, PCE, TCE and VC. Need 1 ug/m3 or less.
Package Due Date: 05/03/18

CAN-RENT, FLOW-RENT, T015-SIM

L1815200-09 VS-BOOK

11 S0 27APR18 17:21

Please report: 1,1-DCE, cis and trans-1,2-DCE, Total 1,2-DCE, PCE, TCE and VC. Need 1 ug/m3 or less.
Package Due Date: 05/03/18

CAN-RENT, FLOW-RENT, T015-SIM

L1815200-10 IA-YOGURT

10 S0 27APR18 17:19

Please report: 1,1-DCE, cis and trans-1,2-DCE, Total 1,2-DCE, PCE, TCE and VC. Need 1 ug/m3 or less.
Package Due Date: 05/03/18

CAN-RENT, FLOW-RENT, T015-SIM

L1815200-11 AMBIENT

10 S0 27APR18 17:43

Please report: 1,1-DCE, cis and trans-1,2-DCE, Total 1,2-DCE, PCE, TCE and VC. Need 1 ug/m3 or less.
Package Due Date: 05/03/18

CAN-RENT, FLOW-RENT, T015-SIM

Page 2

Logged By: Chris Anderson



AIR ANALYSIS

CHAIN OF CUSTODY

PAGE 1 OF 2

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Roux
Address: 209 Shatter Street
Islandia NY 11749
Phone: 631-232-2600
Fax: 631-232-9898
Email: rkovacs@rouxinc.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐
Detection Limit 1 ug/m³ or less

Project Information

Project Name: Oceanside Plaza
Project Location: Oceanside, NY
Project #: 1802.0001Y000
Project Manager: Rob Kovacs
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Date Rec'd in Lab: 4/28/18

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☒ Additional Deliverables:
NYSDEC ASP Cat B
Report to: (if different than Project Manager)

ALPHA Job #: L1815200

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

Trans-1,2-Dichloroethene
1,2-Dichloroethene (total)
Tetrachloroethene
Trichloroethene
Vinyl Chloride
Cis-1,2-Dichloroethene

ANALYSIS

☐ TO-15 SIM
☐ TO-15 SPM
☐ APH
☐ Fixed Gases
☐ Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 S	APH	Fixed G	Sulfides &	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum												
15200.01	VS-DCF	4/27/18	9:12	17:04	-29.41	-7.07	SV	VS	2.7L	2070	01055	X						
.02	IA-DCF		9:14	16:51	-30.65	-4.76	IA	VS	2.7L	1747	0870	X						
.03	VS-MRE		9:19	16:55	-30.07	-5.97	SV	VS	2.7L	144	0848	X						
.04	IA-DCR		9:26	17:07	-29.71	-6.18	IA	VS	2.7L	520	0255	X						
.05	VS-DCR		9:25	16:57	-30.08	-4.30	SV	VS	2.7L	1740	0437	X						
.06	VS-Fence		9:29	17:08	-28.08	-6.36	SV	VS	2.7L	2277	01056	X						
.07	IA-Wine		10:04	17:34	-29.60	-6.89	IA	VS	2.7L	2311	0970	X						
.08	VS-VAC		10:06	17:36	-29.86	-8.33	SV	VS	2.7L	541	01060	X						
.09	VS-Book		9:38	17:21	-29.82	-7.86	SV	VS	2.7L	420	01058	X						
.10	IA-Yogurt	✓	9:36	17:19	-30.07	-6.78	IA	VS	2.7L	413	0044	X						

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

CS

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time:

Valerie Salomon
Daniel Fischer AAL
Ken Kp

4/27/18 17:48
4/27/18 21:03
4/28/18 03:34

Daniel Fischer AAL
Ken Kp
Ken Kp

4/27/18 17:48
4/28/18 21:03
4/28/18 03:34

Supporting Documentation

Project Name: OCEANSIDE PLAZA

Lab Number: L1815200

Project Number: 1802.0001Y000

Report Date: 05/03/18

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1815200-01	VS-DCF	01055	Flow 5	04/27/18	264453		-	-	-	Pass	4.5	4.4	2
L1815200-01	VS-DCF	2020	2.7L Can	04/27/18	264453	L1814473-01	Pass	-29.4	-6.7	-	-	-	-
L1815200-02	IA-DCF	0870	Flow 5	04/27/18	264453		-	-	-	Pass	4.5	4.9	9
L1815200-02	IA-DCF	1747	2.7L Can	04/27/18	264453	L1814256-02	Pass	-29.5	-5.0	-	-	-	-
L1815200-03	VS-MRE	0848	Flow 5	04/27/18	264453		-	-	-	Pass	4.5	4.8	6
L1815200-03	VS-MRE	144	2.7L Can	04/27/18	264453	L1814473-01	Pass	-29.5	-6.2	-	-	-	-
L1815200-04	IA-DCR	0255	Flow 5	04/27/18	264453		-	-	-	Pass	4.5	4.5	0
L1815200-04	IA-DCR	520	2.7L Can	04/27/18	264453	L1814256-02	Pass	-29.5	-6.5	-	-	-	-
L1815200-05	VS-DCR	0437	Flow 5	04/27/18	264453		-	-	-	Pass	4.5	4.6	2
L1815200-05	VS-DCR	1740	2.7L Can	04/27/18	264453	L1814256-02	Pass	-29.5	-4.2	-	-	-	-
L1815200-06	VS-FENCE	01056	Flow 5	04/27/18	264453		-	-	-	Pass	4.5	4.4	2
L1815200-06	VS-FENCE	2277	2.7L Can	04/27/18	264453	L1814473-01	Pass	-28.6	-5.4	-	-	-	-
L1815200-07	IA-WINE	0970	Flow 5	04/27/18	264453		-	-	-	Pass	4.4	4.5	2
L1815200-07	IA-WINE	2311	2.7L Can	04/27/18	264453	L1814473-01	Pass	-29.4	-7.0	-	-	-	-
L1815200-08	VS-VAC	01060	Flow 5	04/27/18	264453		-	-	-	Pass	4.5	4.1	9

Project Name: OCEANSIDE PLAZA

Lab Number: L1815200

Project Number: 1802.0001Y000

Report Date: 05/03/18

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1815200-08	VS-VAC	541	2.7L Can	04/27/18	264453	L1814256-01	Pass	-29.5	-8.2	-	-	-	-
L1815200-09	VS-BOOK	01058	Flow 5	04/27/18	264453		-	-	-	Pass	4.5	4.5	0
L1815200-09	VS-BOOK	420	2.7L Can	04/27/18	264453	L1814256-02	Pass	-29.5	-7.7	-	-	-	-
L1815200-10	IA-YOGURT	0044	Flow 1	04/27/18	264453		-	-	-	Pass	4.5	4.5	0
L1815200-10	IA-YOGURT	413	2.7L Can	04/27/18	264453	L1814256-02	Pass	-29.5	-6.9	-	-	-	-
L1815200-11	AMBIENT	0698	Flow 4	04/27/18	264453		-	-	-	Pass	4.5	4.8	6
L1815200-11	AMBIENT	359	2.7L Can	04/27/18	264453	L1814256-01	Pass	-29.3	-7.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-01
 Client ID: CAN 214 SHELF 2
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/24/18 19:23
 Analyst: RY

Date Collected: 04/23/18 16:00
 Date Received: 04/24/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		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
Methanol	ND	5.00	--	ND	6.55	--		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	5.00	--	ND	9.42	--		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	0.500	--	ND	1.09	--		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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-01
 Client ID: CAN 214 SHELF 2
 Sample Location:

Date Collected: 04/23/18 16:00
 Date Received: 04/24/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-01
 Client ID: CAN 214 SHELF 2
 Sample Location:

Date Collected: 04/23/18 16:00
 Date Received: 04/24/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		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	1.21	--		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
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-01
 Client ID: CAN 214 SHELF 2
 Sample Location:

Date Collected: 04/23/18 16:00
 Date Received: 04/24/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
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-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
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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-01
Client ID: CAN 214 SHELF 2
Sample Location:

Date Collected: 04/23/18 16:00
Date Received: 04/24/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	87		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-01
Client ID: CAN 214 SHELF 2
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 04/24/18 19:23
Analyst: RY

Date Collected: 04/23/18 16:00
Date Received: 04/24/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		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	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		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
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-01
 Client ID: CAN 214 SHELF 2
 Sample Location:

Date Collected: 04/23/18 16:00
 Date Received: 04/24/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		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	0.100	--	ND	0.461	--		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	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-01 Date Collected: 04/23/18 16:00
 Client ID: CAN 214 SHELF 2 Date Received: 04/24/18
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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	92		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	87		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-02
 Client ID: CAN 2521 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/24/18 19:56
 Analyst: RY

Date Collected: 04/23/18 16:00
 Date Received: 04/24/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		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
Methanol	ND	5.00	--	ND	6.55	--		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	5.00	--	ND	9.42	--		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	0.500	--	ND	1.09	--		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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-02
 Client ID: CAN 2521 SHELF 3
 Sample Location:

Date Collected: 04/23/18 16:00
 Date Received: 04/24/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-02
 Client ID: CAN 2521 SHELF 3
 Sample Location:

Date Collected: 04/23/18 16:00
 Date Received: 04/24/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		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	1.21	--		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
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-02
 Client ID: CAN 2521 SHELF 3
 Sample Location:

Date Collected: 04/23/18 16:00
 Date Received: 04/24/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
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-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
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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-02
Client ID: CAN 2521 SHELF 3
Sample Location:

Date Collected: 04/23/18 16:00
Date Received: 04/24/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	86		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-02
 Client ID: CAN 2521 SHELF 3
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/24/18 19:56
 Analyst: RY

Date Collected: 04/23/18 16:00
 Date Received: 04/24/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		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	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		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
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-02
 Client ID: CAN 2521 SHELF 3
 Sample Location:

Date Collected: 04/23/18 16:00
 Date Received: 04/24/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		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	0.100	--	ND	0.461	--		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
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814256
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814256-02
 Client ID: CAN 2521 SHELF 3
 Sample Location:

Date Collected: 04/23/18 16:00
 Date Received: 04/24/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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	84		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	86		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814473
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814473-01
 Client ID: CAN 423 SHELF 4
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/25/18 10:58
 Analyst: RY

Date Collected: 04/24/18 16:00
 Date Received: 04/25/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		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
Methanol	ND	5.00	--	ND	6.55	--		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	5.00	--	ND	9.42	--		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	0.500	--	ND	1.09	--		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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814473
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814473-01
 Client ID: CAN 423 SHELF 4
 Sample Location:

Date Collected: 04/24/18 16:00
 Date Received: 04/25/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
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	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		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	0.500	--	ND	1.47	--		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



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814473
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814473-01
 Client ID: CAN 423 SHELF 4
 Sample Location:

Date Collected: 04/24/18 16:00
 Date Received: 04/25/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		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	1.21	--		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
Project Number: CANISTER QC BAT

Lab Number: L1814473
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814473-01
Client ID: CAN 423 SHELF 4
Sample Location:

Date Collected: 04/24/18 16:00
Date Received: 04/25/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
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-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
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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814473
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814473-01
Client ID: CAN 423 SHELF 4
Sample Location:

Date Collected: 04/24/18 16:00
Date Received: 04/25/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	91		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814473
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814473-01
Client ID: CAN 423 SHELF 4
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 04/25/18 10:58
Analyst: RY

Date Collected: 04/24/18 16:00
Date Received: 04/25/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		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	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		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	0.200	--	ND	0.721	--		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
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814473
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814473-01
 Client ID: CAN 423 SHELF 4
 Sample Location:

Date Collected: 04/24/18 16:00
 Date Received: 04/25/18
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		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	0.100	--	ND	0.461	--		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	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1814473
Report Date: 05/03/18

Air Canister Certification Results

Lab ID: L1814473-01
Client ID: CAN 423 SHELF 4
Sample Location:

Date Collected: 04/24/18 16:00
Date Received: 04/25/18
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
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	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140



Organics

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Volatiles QC Summary

Lab Duplicates Form 3

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Client Sample ID : NA
 Lab Sample ID : NA
 Lab File ID : R157399_EV2
 Dup Sample ID : WG1111464-5

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Matrix : AIR
 Analysis Date : 05/01/18 19:10
 DUP File ID : r157400_Ev2
 DUP Analysis Date : 05/01/18 19:45

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Chloromethane	ND	ND	NC	25
Vinyl chloride	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
Methylene chloride	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
cis-1,2-Dichloroethene	ND	ND	NC	25
1,2-Dichloroethane	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
Benzene	1.50	1.49	1	25
Carbon tetrachloride	ND	ND	NC	25
1,2-Dichloropropane	ND	ND	NC	25
Trichloroethene	0.290	0.280	4	25
Toluene	0.520	0.500	4	25
Tetrachloroethene	ND	0.200	NC	25
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	0.200	ND	NC	25
p/m-Xylene	0.640	0.620	3	25
o-Xylene	0.270	0.270	0	25
1,3,5-Trimethylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	ND	ND	NC	25
1,3-Dichlorobenzene	1.66	1.67	1	25
1,2-Dichlorobenzene	ND	ND	NC	25
Naphthalene	ND	ND	NC	25

Lab Duplicates Form 3

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Client Sample ID : NA
 Lab Sample ID : NA
 Lab File ID : R159131
 Dup Sample ID : WG1111916-5

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Matrix : AIR
 Analysis Date : 05/03/18 00:34
 DUP File ID : R159132
 DUP Analysis Date : 05/03/18 01:04

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Chloromethane	0.592	0.528	11	25
Vinyl chloride	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
Methylene chloride	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
cis-1,2-Dichloroethene	ND	ND	NC	25
1,2-Dichloroethane	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
Benzene	0.296	0.258	14	25
Carbon tetrachloride	0.094	0.082	14	25
1,2-Dichloropropane	ND	ND	NC	25
Trichloroethene	0.082	0.068	19	25
Toluene	0.224	0.238	6	25
Tetrachloroethene	0.094	0.096	2	25
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	0.198	0.196	1	25
p/m-Xylene	0.768	0.826	7	25
o-Xylene	0.326	0.332	2	25
1,3,5-Trimethylbenzene	0.098	0.110	12	25
1,2,4-Trimethylbenzene	0.376	0.384	2	25
1,3-Dichlorobenzene	0.428	0.454	6	25
1,2-Dichlorobenzene	ND	ND	NC	25
Naphthalene	0.130	0.136	5	25

Laboratory Control Sample Form 3

Client	: Roux Envr. Engr. & Geology, DPC	Lab Number	: L1815200
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Matrix	: AIR		
LCS Sample ID	: WG1111464-3	Analysis Date	: 05/01/18 10:36
LCSD Sample ID	:	File ID	: r157387_Ev2
		Analysis Date	:
		File ID	:

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Propylene	5	4.08	82				-	70-130	25
Dichlorodifluoromethane	5	4.10	82				-	70-130	25
Chloromethane	5	4.15	83				-	70-130	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5	4.57	91				-	70-130	25
Vinyl chloride	5	4.08	82				-	70-130	25
1,3-Butadiene	5	4.72	94				-	70-130	25
Bromomethane	5	4.10	82				-	70-130	25
Chloroethane	5	4.20	84				-	70-130	25
Ethyl Alcohol	25	18.5	74				-	70-130	25
Vinyl bromide	5	4.02	80				-	70-130	25
Acetone	25	18.9	76				-	70-130	25
Trichlorofluoromethane	5	3.64	73				-	70-130	25
Acrylonitrile	5	3.98	80				-	70-130	25
1,1-Dichloroethene	5	3.86	77				-	70-130	25
Methylene chloride	5	3.98	80				-	70-130	25
3-Chloropropene	5	3.84	77				-	70-130	25
Carbon disulfide	5	4.13	83				-	70-130	25
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	3.98	80				-	70-130	25
trans-1,2-Dichloroethene	5	4.34	87				-	70-130	25
1,1-Dichloroethane	5	4.16	83				-	70-130	25
Methyl tert butyl ether	5	4.16	83				-	70-130	25
Vinyl acetate	5	4.86	97				-	70-130	25
2-Butanone	5	4.12	82				-	70-130	25
cis-1,2-Dichloroethene	5	4.13	83				-	70-130	25

Laboratory Control Sample Form 3

Client	: Roux Envr. Engr. & Geology, DPC	Lab Number	: L1815200
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Matrix	: AIR		
LCS Sample ID	: WG1111464-3	Analysis Date	: 05/01/18 10:36
LCSD Sample ID	:	File ID	: r157387_Ev2
		File ID	:

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Ethyl Acetate	5	4.38	88				-	70-130	25
Chloroform	5	4.52	90				-	70-130	25
Tetrahydrofuran	5	3.96	79				-	70-130	25
1,2-Dichloroethane	5	3.67	73				-	70-130	25
n-Hexane	5	4.49	90				-	70-130	25
1,1,1-Trichloroethane	5	4.51	90				-	70-130	25
Benzene	5	4.38	88				-	70-130	25
Carbon tetrachloride	5	4.21	84				-	70-130	25
Cyclohexane	5	4.67	93				-	70-130	25
Dibromomethane	5	3.55	71				-	70-130	25
1,2-Dichloropropane	5	3.85	77				-	70-130	25
Bromodichloromethane	5	4.88	98				-	70-130	25
1,4-Dioxane	5	4.73	95				-	70-130	25
Trichloroethene	5	4.32	86				-	70-130	25
2,2,4-Trimethylpentane	5	4.67	93				-	70-130	25
cis-1,3-Dichloropropene	5	4.59	92				-	70-130	25
4-Methyl-2-pentanone	5	4.35	87				-	70-130	25
trans-1,3-Dichloropropene	5	3.82	76				-	70-130	25
1,1,2-Trichloroethane	5	4.29	86				-	70-130	25
Toluene	5	4.89	98				-	70-130	25
2-Hexanone	5	4.93	99				-	70-130	25
Dibromochloromethane	5	6.13	123				-	70-130	25
1,2-Dibromoethane	5	5.16	103				-	70-130	25
Tetrachloroethene	5	5.21	104				-	70-130	25
1,1,1,2-Tetrachloroethane	5	5.04	101				-	70-130	25
Chlorobenzene	5	5.22	104				-	70-130	25
Ethylbenzene	5	5.12	102				-	70-130	25
p/m-Xylene	10	10.3	103				-	70-130	25



Laboratory Control Sample Form 3

Client	: Roux Envr. Engr. & Geology, DPC	Lab Number	: L1815200
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Matrix	: AIR		
LCS Sample ID	: WG1111464-3	Analysis Date	: 05/01/18 10:36
LCSD Sample ID	:	File ID	: r157387_Ev2
		File ID	:

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Bromoform	5	6.24	125				-	70-130	25
Styrene	5	5.35	107				-	70-130	25
1,1,2,2-Tetrachloroethane	5	5.46	109				-	70-130	25
o-Xylene	5	5.18	104				-	70-130	25
1,2,3-Trichloropropane	5	4.71	94				-	70-130	25
Isopropylbenzene	5	5.20	104				-	70-130	25
Bromobenzene	5	4.75	95				-	70-130	25
4-Ethyltoluene	5	5.63	113				-	70-130	25
1,3,5-Trimethylbenzene	5	5.39	108				-	70-130	25
1,2,4-Trimethylbenzene	5	5.57	111				-	70-130	25
Benzyl chloride	5	5.75	115				-	70-130	25
1,3-Dichlorobenzene	5	5.27	105				-	70-130	25
1,4-Dichlorobenzene	5	5.20	104				-	70-130	25
sec-Butylbenzene	5	5.24	105				-	70-130	25
p-Isopropyltoluene	5	4.86	97				-	70-130	25
1,2-Dichlorobenzene	5	5.34	107				-	70-130	25
n-Butylbenzene	5	5.12	102				-	70-130	25
1,2,4-Trichlorobenzene	5	4.72	94				-	70-130	25
Naphthalene	5	4.59	92				-	70-130	25
1,2,3-Trichlorobenzene	5	4.83	97				-	70-130	25
Hexachlorobutadiene	5	5.65	113				-	70-130	25

Laboratory Control Sample Form 3

Client	: Roux Envr. Engr. & Geology, DPC	Lab Number	: L1815200
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Matrix	: AIR		
LCS Sample ID	: WG1111916-3	Analysis Date	: 05/02/18 13:48
LCSD Sample ID	:	File ID	: R159114
		Analysis Date	:
		File ID	:

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Dichlorodifluoromethane	5	4.84	97				-	70-130	25
Chloromethane	5	3.50	70				-	70-130	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5	4.87	97				-	70-130	25
Vinyl chloride	5	4.27	85				-	70-130	25
1,3-Butadiene	5	4.51	90				-	70-130	25
Bromomethane	5	5.11	102				-	70-130	25
Chloroethane	5	4.27	85				-	70-130	25
Ethyl Alcohol	25	18.9	76				-	70-130	25
Vinyl bromide	5	5.38	108				-	70-130	25
Acetone	25	26.1	104				-	70-130	25
Trichlorofluoromethane	5	5.58	112				-	70-130	25
iso-Propyl Alcohol	12.5	10.9	87				-	70-130	25
Acrylonitrile	5	4.18	84				-	70-130	25
1,1-Dichloroethene	5	4.90	98				-	70-130	25
tert-Butyl Alcohol	5	4.35	87				-	70-130	25
Methylene chloride	5	4.94	99				-	70-130	25
3-Chloropropene	5	5.07	101				-	70-130	25
Carbon disulfide	5	4.85	97				-	70-130	25
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	5.25	105				-	70-130	25
trans-1,2-Dichloroethene	5	4.50	90				-	70-130	25
1,1-Dichloroethane	5	4.53	91				-	70-130	25
Methyl tert butyl ether	5	4.33	87				-	70-130	25
Vinyl acetate	5	4.63	93				-	70-130	25
2-Butanone	5	4.36	87				-	70-130	25



Laboratory Control Sample Form 3

Client	: Roux Envr. Engr. & Geology, DPC	Lab Number	: L1815200
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Matrix	: AIR		
LCS Sample ID	: WG1111916-3	Analysis Date	: 05/02/18 13:48
LCSD Sample ID	:	File ID	: R159114
		Analysis Date	:
		File ID	:

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
cis-1,2-Dichloroethene	5	4.30	86				-	70-130	25
Ethyl Acetate	5	4.95	99				-	70-130	25
Chloroform	5	5.10	102				-	70-130	25
Tetrahydrofuran	5	4.07	81				-	70-130	25
1,2-Dichloroethane	5	4.77	95				-	70-130	25
n-Hexane	5	4.12	82				-	70-130	25
1,1,1-Trichloroethane	5	4.89	98				-	70-130	25
Benzene	5	4.11	82				-	70-130	25
Carbon tetrachloride	5	5.15	103				-	70-130	25
Cyclohexane	5	4.04	81				-	70-130	25
Dibromomethane	5	4.11	82				-	70-130	25
1,2-Dichloropropane	5	4.26	85				-	70-130	25
Bromodichloromethane	5	5.17	103				-	70-130	25
1,4-Dioxane	5	4.76	95				-	70-130	25
Trichloroethene	5	4.82	96				-	70-130	25
2,2,4-Trimethylpentane	5	4.57	91				-	70-130	25
cis-1,3-Dichloropropene	5	4.37	87				-	70-130	25
4-Methyl-2-pentanone	5	4.98	100				-	70-130	25
trans-1,3-Dichloropropene	5	3.96	79				-	70-130	25
1,1,2-Trichloroethane	5	4.81	96				-	70-130	25
Toluene	5	4.73	95				-	70-130	25
2-Hexanone	5	5.23	105				-	70-130	25
Dibromochloromethane	5	6.41	128				-	70-130	25
1,2-Dibromoethane	5	5.30	106				-	70-130	25
Tetrachloroethene	5	5.60	112				-	70-130	25
1,1,1,2-Tetrachloroethane	5	5.13	103				-	70-130	25
Chlorobenzene	5	5.04	101				-	70-130	25
Ethylbenzene	5	4.64	93				-	70-130	25

Laboratory Control Sample Form 3

Client	: Roux Envr. Engr. & Geology, DPC	Lab Number	: L1815200
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Matrix	: AIR		
LCS Sample ID	: WG1111916-3	Analysis Date	: 05/02/18 13:48
LCSD Sample ID	:	File ID	: R159114
		Analysis Date	:
		File ID	:

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
p/m-Xylene	10	9.85	98				-	70-130	25
Bromoform	5	6.43	129				-	70-130	25
Styrene	5	4.98	100				-	70-130	25
1,1,2,2-Tetrachloroethane	5	5.52	110				-	70-130	25
o-Xylene	5	5.16	103				-	70-130	25
1,2,3-Trichloropropane	5	4.89	98				-	70-130	25
Isopropylbenzene	5	5.07	101				-	70-130	25
Bromobenzene	5	4.65	93				-	70-130	25
4-Ethyltoluene	5	5.74	115				-	70-130	25
1,3,5-Trimethylbenzene	5	5.24	105				-	70-130	25
1,2,4-Trimethylbenzene	5	5.55	111				-	70-130	25
Benzyl chloride	5	5.50	110				-	70-130	25
1,3-Dichlorobenzene	5	6.01	120				-	70-130	25
1,4-Dichlorobenzene	5	6.13	123				-	70-130	25
sec-Butylbenzene	5	5.30	106				-	70-130	25
p-Isopropyltoluene	5	4.60	92				-	70-130	25
1,2-Dichlorobenzene	5	6.26	125				-	70-130	25
n-Butylbenzene	5	5.49	110				-	70-130	25
1,2,4-Trichlorobenzene	5	7.75	155 Q				-	70-130	25
Naphthalene	5	5.88	118				-	70-130	25
1,2,3-Trichlorobenzene	5	7.34	147 Q				-	70-130	25
Hexachlorobutadiene	5	7.96	159 Q				-	70-130	25

**Method Blank Summary
Form 4
AIRVOA**

Client	: Roux Envr. Engr. & Geology, DPC	Lab Number	: L1815200
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab Sample ID	: WG1111464-4	Lab File ID	: r157390_Ev2
Instrument ID	: AIRLAB15		
Matrix	: AIR	Analysis Date	: 05/01/18 12:53

Client Sample No.	Lab Sample ID	Analysis Date
WG1111464-3LCS	WG1111464-3	05/01/18 10:36
AMBIENT	L1815200-11	05/01/18 14:57
IA-DCF	L1815200-02	05/01/18 16:45
IA-DCR	L1815200-04	05/01/18 17:21
IA-YOGURT	L1815200-10	05/01/18 18:34
SV-1-20180426DUP	WG1111464-5D	05/01/18 19:45

Method Blank Summary
Form 4
AIRVOA

Client	: Roux Envr. Engr. & Geology, DPC	Lab Number	: L1815200
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab Sample ID	: WG1111916-4	Lab File ID	: R159115
Instrument ID	: AIRPIANO1		
Matrix	: AIR	Analysis Date	: 05/02/18 15:08

Client Sample No.	Lab Sample ID	Analysis Date
WG1111916-3LCS	WG1111916-3	05/02/18 13:48
IA-WINE	L1815200-07	05/02/18 18:38
VS-DCF	L1815200-01	05/02/18 19:11
VS-MRE	L1815200-03	05/02/18 19:43
VS-DCR	L1815200-05	05/02/18 20:16
VS-FENCE	L1815200-06	05/02/18 20:48
VS-VAC	L1815200-08	05/02/18 21:21
VS-BOOK	L1815200-09	05/02/18 21:53
SV-7-20180426DUP	WG1111916-5	05/03/18 01:04

Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : Roux Envr. Engr. & Geology, DPC	Lab Number : L1815200
Project Name : OCEANSIDE PLAZA	Project Number : 1802.0001Y000
Instrument ID : AIRPIANO1	Analysis Date : 02/26/18 21:29
Tune Standard : WG1092763-1	Tune File ID : R157599_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	26
75	30.0 - 66.0% of mass 95	53.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	65.8
175	4.0 - 9.0% of mass 174	5.1 (7.8)1
176	93.0 - 101% of mass 174	63.2 (96.2)1
177	5.0 - 9.0% of mass 176	4.3 (6.8)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 ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1050680-1	R157600	02/26/18 22:00
STD0.04	R1050680-2	R157601	02/26/18 22:31
STD0.1	R1050680-3	R157602	02/26/18 23:05
STD0.2	R1050680-4	R157603	02/26/18 23:36
STD0.5	R1050680-5	R157604	02/27/18 00:07
STD1.0	R1050680-6	R157605	02/27/18 00:41
STD5.0	R1050680-7	R157606	02/27/18 01:13
STD10.0	R1050680-8	R157607	02/27/18 01:47
STD20.0	R1050680-9	R157608	02/27/18 02:18
STD50.0	R1050680-10	R157609	02/27/18 02:50
ICV Quant	R1050680-11	R157614	02/27/18 09:40

Instrument Performance Check Bromofluorobenzene (BFB) Form 5

Client : Roux Envr. Engr. & Geology, DPC	Lab Number : L1815200
Project Name : OCEANSIDE PLAZA	Project Number : 1802.0001Y000
Instrument ID : AIRPIANO1	Analysis Date : 05/02/18 12:10
Tune Standard : WG1111916-1	Tune File ID : R159111_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	22.1
75	30.0 - 66.0% of mass 95	51
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 (0)1
174	50.0 - 120.0% of mass 95	79.9
175	4.0 - 9.0% of mass 174	6.4 (8)1
176	93.0 - 101% of mass 174	77.1 (96.5)1
177	5.0 - 9.0% of mass 176	5.3 (6.9)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 ID	Lab Sample ID	File ID	Analysis Date/Time
WG1111916-2CCAL	WG1111916-2	R159114	05/02/18 13:48
WG1111916-3LCS	WG1111916-3	R159114	05/02/18 13:48
WG1111916-4BLANK	WG1111916-4	R159115	05/02/18 15:08
IA-WINE	L1815200-07	R159120	05/02/18 18:38
VS-DCF	L1815200-01	R159121	05/02/18 19:11
VS-MRE	L1815200-03	R159122	05/02/18 19:43
VS-DCR	L1815200-05	R159123	05/02/18 20:16
VS-FENCE	L1815200-06	R159124	05/02/18 20:48
VS-VAC	L1815200-08	R159125	05/02/18 21:21
VS-BOOK	L1815200-09	R159126	05/02/18 21:53
WG1111916-5DUP	WG1111916-5	R159132	05/03/18 01:04

Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : Roux Envr. Engr. & Geology, DPC	Lab Number : L1815200
Project Name : OCEANSIDE PLAZA	Project Number : 1802.0001Y000
Instrument ID : AIRLAB15	Analysis Date : 04/04/18 17:34
Tune Standard : WG1103790-1	Tune File ID : R156843_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	18.9
75	30.0 - 66.0% of mass 95	43.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.3 (.5)1
174	50.0 - 120.0% of mass 95	58.8
175	4.0 - 9.0% of mass 174	3.9 (6.7)1
176	93.0 - 101% of mass 174	54.9 (93.4)1
177	5.0 - 9.0% of mass 176	3.4 (6.2)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 ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1061018-1	R156844_EV2	04/04/18 18:10
STD0.04	R1061018-2	R156845_EV2	04/04/18 18:44
STD0.1	R1061018-3	R156846_EV2	04/04/18 19:21
STD0.2	R1061018-4	R156847_EV2	04/04/18 19:58
STD0.5	R1061018-5	R156848_EV2	04/04/18 20:33
STD1.0	R1061018-6	R156849_EV2	04/04/18 21:11
STD5.0	R1061018-7	R156850_EV2	04/04/18 21:48
STD010	R1061018-8	R156851_EV2	04/04/18 22:25
STD020	R1061018-9	R156852_EV2	04/04/18 23:01
STD050	R1061018-10	R156853_EV2	04/04/18 23:39
ICV QUANT REPORT	R1061018-11	R156858_EV2	04/05/18 10:22

Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : Roux Envr. Engr. & Geology, DPC	Lab Number : L1815200
Project Name : OCEANSIDE PLAZA	Project Number : 1802.0001Y000
Instrument ID : AIRLAB15	Analysis Date : 05/01/18 10:00
Tune Standard : WG1111464-1	Tune File ID : r157386_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	16.6
75	30.0 - 66.0% of mass 95	40.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	68
175	4.0 - 9.0% of mass 174	4.6 (6.8)1
176	93.0 - 101% of mass 174	64.7 (95.3)1
177	5.0 - 9.0% of mass 176	4.4 (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 ID	Lab Sample ID	File ID	Analysis Date/Time
WG1111464-2CCAL	WG1111464-2	R157387_EV2	05/01/18 10:36
WG1111464-3LCS	WG1111464-3	R157387_EV2	05/01/18 10:36
WG1111464-4BLANK	WG1111464-4	R157390_EV2	05/01/18 12:53
AMBIENT	L1815200-11	R157392_EV2	05/01/18 14:57
IA-DCF	L1815200-02	R157395_EV2	05/01/18 16:45
IA-DCR	L1815200-04	R157396_EV2	05/01/18 17:21
IA-YOGURT	L1815200-10	R157398_EV2	05/01/18 18:34
WG1111464-5DUP	WG1111464-5D	R157400_EV2	05/01/18 19:45

Internal Standard Area and RT Summary Form 8

Client : Roux Envr. Engr. & Geology, DPC
Project Name : OCEANSIDE PLAZA
Instrument ID : AIRLAB15
Sample No : WG1111464-2

Lab Number : L1815200
Project Number : 1802.0001Y000
Analysis Date : 05/01/18 10:36
Lab File ID : R157387_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1111464-2	133881	9.62	300815	11.89	52930	16.55
Upper Limit	187433	9.95	421141	12.22	74102	16.88
Lower Limit	80329	9.29	180489	11.56	31758	16.22
Sample ID						
WG1111464-3 LCS	133881	9.62	300815	11.89	52930	16.55
WG1111464-4 BLANK	129365	9.63	288501	11.89	51550	16.55
AMBIENT	85456	9.62	218710	11.89	46897	16.56
IA-DCF	83062	9.63	217833	11.89	45208	16.56
IA-DCR	82037	9.63	210602	11.89	44572	16.56
IA-YOGURT	84328	9.63	215768	11.89	45279	16.56
SV-1-20180426 DUP	85143	9.62	216103	11.89	46218	16.56

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



Internal Standard Area and RT Summary Form 8

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRPIANO1
 Sample No : WG1111916-2

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Analysis Date : 05/02/18 13:48
 Lab File ID : R159114

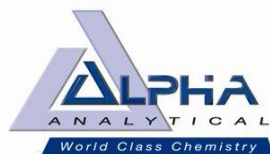
	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1111916-2	171514	10.18	248964	12.40	64233	16.82
Upper Limit	240120	10.51	348550	12.73	89926	17.15
Lower Limit	102908	9.85	149378	12.07	38540	16.49
Sample ID						
WG1111916-3 LCS	171514	10.18	248964	12.40	64233	16.82
WG1111916-4 BLANK	162332	10.18	221901	12.40	57267	16.82
IA-WINE	150394	10.18	172421	12.40	52339	16.82
VS-DCF	144973	10.18	176426	12.40	50683	16.82
VS-MRE	148921	10.18	184367	12.40	50987	16.82
VS-DCR	146443	10.18	176224	12.40	54661	16.82
VS-FENCE	148296	10.18	175507	12.40	52427	16.82
VS-VAC	146464	10.18	183389	12.40	52794	16.82
VS-BOOK	142102	10.18	188522	12.40	49811	16.82
SV-7-20180426 DUP	142503	10.18	210019	12.40	51264	16.82

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





Date Created: 11/08/17
Created By: Jason Hebert
File: PM4244-1
Page: 1

Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.02	0.006	ppbV	70-130	25		25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.02	0.006	ppbV	70-130	25		25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.02	0.007	ppbV	70-130	25		25	25			
1,1,2-Trichloroethane	79-00-5	0.02	0.004	ppbV	70-130	25		25	25			
1,1-Dichloroethane	75-34-3	0.02	0.007	ppbV	70-130	25		25	25			
1,1-Dichloroethene	75-35-4	0.02	0.007	ppbV	70-130	25		25	25			
1,2,4-Trimethylbenzene	95-63-6	0.02	0.007	ppbV	70-130	25		25	25			
1,2-Dibromoethane	106-93-4	0.02	0.008	ppbV	70-130	25		25	25			
1,2-Dichlorobenzene	95-50-1	0.02	0.006	ppbV	70-130	25		25	25			
1,2-Dichloroethane	107-06-2	0.02	0.005	ppbV	70-130	25		25	25			
1,2-Dichloropropane	78-87-5	0.02	0.008	ppbV	70-130	25		25	25			
1,3,5-Trimethylbenzene	108-67-8	0.02	0.005	ppbV	70-130	25		25	25			
1,3-Butadiene	106-99-0	0.02	0.007	ppbV	70-130	25		25	25			
1,3-Dichlorobenzene	541-73-1	0.02	0.006	ppbV	70-130	25		25	25			
1,4-Dichlorobenzene	106-46-7	0.02	0.008	ppbV	70-130	25		25	25			
1,4-Dioxane	123-91-1	0.1	0.014	ppbV	70-130	25		25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.027	ppbV	70-130	25		25	25			
2-Hexanone	591-78-6	0.2	0.03	ppbV	70-130	25		25	25			
3-Chloropropene	107-05-1	0.2	0.02	ppbV	70-130	25		25	25			
4-Ethyltoluene	622-96-8	0.02	0.01	ppbV	70-130	25		25	25			
Benzene	71-43-2	0.1	0.019	ppbV	70-130	25		25	25			
Benzyl chloride	100-44-7	0.2	0.037	ppbV	70-130	25		25	25			
Bromodichloromethane	75-27-4	0.02	0.008	ppbV	70-130	25		25	25			
Bromoform	75-25-2	0.02	0.015	ppbV	70-130	25		25	25			
Bromomethane	74-83-9	0.02	0.008	ppbV	70-130	25		25	25			
Carbon disulfide	75-15-0	0.2	0.063	ppbV	70-130	25		25	25			
Carbon tetrachloride	56-23-5	0.02	0.007	ppbV	70-130	25		25	25			
Chlorobenzene	108-90-7	0.1	0.007	ppbV	70-130	25		25	25			
Chloroethane	75-00-3	0.1	0.017	ppbV	70-130	25		25	25			
Chloroform	67-66-3	0.02	0.005	ppbV	70-130	25		25	25			
Chloromethane	74-87-3	0.2	0.048	ppbV	70-130	25		25	25			
cis-1,2-Dichloroethene	156-59-2	0.02	0.007	ppbV	70-130	25		25	25			
trans-1,2-Dichloroethene	156-60-5	0.02	0.006	ppbV	70-130	25		25	25			
1,2-Dichloroethene (total)	540-59-0	0.02	0.006	ppbV	70-130	25		25	25			
cis-1,3-Dichloropropene	10061-01-5	0.02	0.006	ppbV	70-130	25		25	25			
1,3-Dichloropropene (Total)	542-75-6	0.02	0.008	ppbV	70-130	25		25	25			
Cyclohexane	110-82-7	0.2	0.03	ppbV	70-130	25		25	25			
Dibromochloromethane	124-48-1	0.02	0.008	ppbV	70-130	25		25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0112	ppbV	70-130	25		25	25			
Ethyl Alcohol	GCDAl06	5	0.157	ppbV	70-130	25		25	25			
Ethyl Acetate	141-78-6	0.5	0.038	ppbV	70-130	25		25	25			
Ethylbenzene	100-41-4	0.02	0.007	ppbV	70-130	25		25	25			

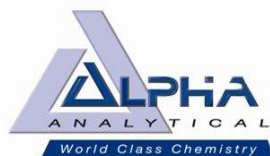
Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Date Created: 11/08/17
Created By: Jason Hebert
File: PM4244-1
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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.05	0.0127	ppbV	70-130	25		25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.05	0.0116	ppbV	70-130	25		25	25			
Methylene chloride	75-09-2	0.5	0.25	ppbV	70-130	25		25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.006	ppbV	70-130	25		25	25			
Naphthalene	91-20-3	0.05	0.008	ppbV	70-130	25		25	25			
p/m-Xylene	179601-23-1	0.04	0.007	ppbV	70-130	25		25	25			
o-Xylene	95-47-6	0.02	0.008	ppbV	70-130	25		25	25			
Xylene (Total)	1330-20-7	0.02	0.007	ppbV	70-130	25		25	25			
Heptane	142-82-5	0.2	0.032	ppbV	70-130	25		25	25			
n-Hexane	110-54-3	0.2	0.033	ppbV	70-130	25		25	25			
Propylene	115-07-1	0.5	0.034	ppbV	70-130	25		25	25			
Styrene	100-42-5	0.02	0.007	ppbV	70-130	25		25	25			
Tetrachloroethene	127-18-4	0.02	0.008	ppbV	70-130	25		25	25			
Tetrahydrofuran	109-99-9	0.5	0.037	ppbV	70-130	25		25	25			
Toluene	108-88-3	0.05	0.006	ppbV	70-130	25		25	25			
trans-1,3-Dichloropropene	10061-02-6	0.02	0.008	ppbV	70-130	25		25	25			
Trichloroethene	79-01-6	0.02	0.007	ppbV	70-130	25		25	25			
1,2,4-Trichlorobenzene	120-82-1	0.05	0.01	ppbV	70-130	25		25	25			
Trichlorofluoromethane	75-69-4	0.05	0.0113	ppbV	70-130	25		25	25			
Vinyl acetate	108-05-4	1	0.027	ppbV	70-130	25		25	25			
Vinyl bromide	593-60-2	0.2	0.023	ppbV	70-130	25		25	25			
Hexachlorobutadiene	87-68-3	0.05	0.007	ppbV	70-130	25		25	25			
Iso-Propyl Alcohol	67-63-0	0.5	0.153	ppbV	70-130	25		25	25			
Vinyl chloride	75-01-4	0.02	0.006	ppbV	70-130	25		25	25			
Acrylonitrile	107-13-1	0.5	0.0248	ppbV	70-130	25		25	25			
n-Butylbenzene	104-51-8	0.2	0.008	ppbV	70-130	25		25	25			
sec-Butylbenzene	135-98-8	0.2	0.008	ppbV	70-130	25		25	25			
Isopropylbenzene	98-82-8	0.2	0.007	ppbV	70-130	25		25	25			
p-Isopropyltoluene	99-87-6	0.2	0.007	ppbV	70-130	25		25	25			
Acetone	67-64-1	1	0.366	ppbV	70-130	25		25	25			
2-Butanone	78-93-3	0.5	0.016	ppbV	70-130	25		25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.005	ppbV	70-130	25		25	25			
Halothane	151-67-7	0.05	0.008	ppbV	70-130	25		25	25			
1,2,3-Trichlorobenzene	87-61-6	0.05	0.019	ppbV	70-130	25		25	25			
1,2-Dichloroethane-d4	17060-07-0										70-130	
Toluene-d8	2037-26-5										70-130	
Bromofluorobenzene	460-00-4										70-130	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatiles Sample Data

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1815200-01
 Client ID : VS-DCF
 Sample Location : OCEANSIDE, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R159121
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/27/18 17:04
 Date Received : 04/27/18
 Date Analyzed : 05/02/18 19:11
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRPIANO1
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	0.127	0.020	--	0.683	0.107	--	
127-18-4	Tetrachloroethene	0.259	0.020	--	1.76	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1815200-02
 Client ID : IA-DCF
 Sample Location : OCEANSIDE, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R157395_EV2
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/27/18 16:51
 Date Received : 04/27/18
 Date Analyzed : 05/01/18 16:45
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1815200-03
 Client ID : VS-MRE
 Sample Location : OCEANSIDE, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R159122
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/27/18 16:55
 Date Received : 04/27/18
 Date Analyzed : 05/02/18 19:43
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRPIANO1
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	0.262	0.020	--	1.41	0.107	--	
127-18-4	Tetrachloroethene	9.90	0.020	--	67.1	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1815200-04
 Client ID : IA-DCR
 Sample Location : OCEANSIDE, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R157396_EV2
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/27/18 17:07
 Date Received : 04/27/18
 Date Analyzed : 05/01/18 17:21
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.020	0.020	--	0.136	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1815200-05
 Client ID : VS-DCR
 Sample Location : OCEANSIDE, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R159123
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/27/18 16:57
 Date Received : 04/27/18
 Date Analyzed : 05/02/18 20:16
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRPIANO1
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	0.173	0.020	--	0.930	0.107	--	
127-18-4	Tetrachloroethene	0.944	0.020	--	6.40	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1815200-06
 Client ID : VS-FENCE
 Sample Location : OCEANSIDE, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R159124
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/27/18 17:08
 Date Received : 04/27/18
 Date Analyzed : 05/02/18 20:48
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRPIANO1
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	0.185	0.020	--	0.994	0.107	--	
127-18-4	Tetrachloroethene	0.020	0.020	--	0.136	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1815200-07
 Client ID : IA-WINE
 Sample Location : OCEANSIDE, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R159120
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/27/18 17:34
 Date Received : 04/27/18
 Date Analyzed : 05/02/18 18:38
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRPIANO1
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.054	0.020	--	0.366	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1815200-08
 Client ID : VS-VAC
 Sample Location : OCEANSIDE, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R159125
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/27/18 17:36
 Date Received : 04/27/18
 Date Analyzed : 05/02/18 21:21
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRPIANO1
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	0.258	0.020	--	1.39	0.107	--	
127-18-4	Tetrachloroethene	33.6	0.020	--	228	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1815200-09
 Client ID : VS-BOOK
 Sample Location : OCEANSIDE, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R159126
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/27/18 17:21
 Date Received : 04/27/18
 Date Analyzed : 05/02/18 21:53
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRPIANO1
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	0.022	0.020	--	0.118	0.107	--	
127-18-4	Tetrachloroethene	0.914	0.020	--	6.20	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1815200-10
 Client ID : IA-YOGURT
 Sample Location : OCEANSIDE, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R157398_EV2
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/27/18 17:19
 Date Received : 04/27/18
 Date Analyzed : 05/01/18 18:34
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.024	0.020	--	0.163	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : L1815200-11
 Client ID : AMBIENT
 Sample Location : OCEANSIDE, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R157392_EV2
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/27/18 17:43
 Date Received : 04/27/18
 Date Analyzed : 05/01/18 14:57
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1111464-4
 Client ID : WG1111464-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R157390_EV2
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 05/01/18 12:53
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1111464-5D
 Client ID : SV-1-20180426DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R157400_EV2
 Sample Amount : 25.0 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/26/18 14:02
 Date Received : 04/26/18
 Date Analyzed : 05/01/18 19:45
 Dilution Factor : 10
 Analyst : MB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
74-87-3	Chloromethane	ND	2.00	--	ND	4.13	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-00-3	Chloroethane	ND	1.00	--	ND	2.64	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-09-2	Methylene chloride	ND	5.00	--	ND	17.4	--	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	2.00	--	ND	7.21	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	1.49	1.00	--	4.76	3.19	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
79-01-6	Trichloroethene	0.280	0.200	--	1.50	1.07	--	
108-88-3	Toluene	0.500	0.500	--	1.88	1.88	--	
127-18-4	Tetrachloroethene	0.200	0.200	--	1.36	1.36	--	
108-90-7	Chlorobenzene	ND	1.00	--	ND	4.61	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	0.620	0.400	--	2.69	1.74	--	
95-47-6	o-Xylene	0.270	0.200	--	1.17	0.869	--	
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
541-73-1	1,3-Dichlorobenzene	1.67	0.200	--	10.0	1.20	--	
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
91-20-3	Naphthalene	ND	0.500	--	ND	2.62	--	U



Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1111916-4
 Client ID : WG1111916-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R159115
 Sample Amount : 250 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 05/02/18 15:08
 Dilution Factor : 1
 Analyst : MB
 Instrument ID : AIRPIANO1
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Form 1

Volatile Organics

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Lab ID : WG1111916-5
 Client ID : SV-7-20180426DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R159132
 Sample Amount : 125 ml

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Date Collected : 04/26/18 17:34
 Date Received : 04/27/18
 Date Analyzed : 05/03/18 01:04
 Dilution Factor : 2
 Analyst : MB
 Instrument ID : AIRPIANO1
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
74-87-3	Chloromethane	0.528	0.400	--	1.09	0.826	--	
75-01-4	Vinyl chloride	ND	0.040	--	ND	0.102	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
75-35-4	1,1-Dichloroethene	ND	0.040	--	ND	0.159	--	U
75-09-2	Methylene chloride	ND	1.00	--	ND	3.47	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.040	--	ND	0.159	--	U
75-34-3	1,1-Dichloroethane	ND	0.040	--	ND	0.162	--	U
1634-04-4	Methyl tert butyl ether	ND	0.400	--	ND	1.44	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.040	--	ND	0.159	--	U
107-06-2	1,2-Dichloroethane	ND	0.040	--	ND	0.162	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.040	--	ND	0.218	--	U
71-43-2	Benzene	0.258	0.200	--	0.824	0.639	--	
56-23-5	Carbon tetrachloride	0.082	0.040	--	0.516	0.252	--	
78-87-5	1,2-Dichloropropane	ND	0.040	--	ND	0.185	--	U
79-01-6	Trichloroethene	0.068	0.040	--	0.365	0.215	--	
108-88-3	Toluene	0.238	0.100	--	0.897	0.377	--	
127-18-4	Tetrachloroethene	0.096	0.040	--	0.651	0.271	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.196	0.040	--	0.851	0.174	--	
179601-23-1	p/m-Xylene	0.826	0.080	--	3.59	0.347	--	
95-47-6	o-Xylene	0.332	0.040	--	1.44	0.174	--	
108-67-8	1,3,5-Trimethylbenzene	0.110	0.040	--	0.541	0.197	--	
95-63-6	1,2,4-Trimethylbenzene	0.384	0.040	--	1.89	0.197	--	
541-73-1	1,3-Dichlorobenzene	0.454	0.040	--	2.73	0.240	--	
95-50-1	1,2-Dichlorobenzene	ND	0.040	--	ND	0.240	--	U
91-20-3	Naphthalene	0.136	0.100	--	0.713	0.524	--	



Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157392_Ev2.D
 Acq On : 1 May 2018 2:57 PM
 Operator : AIRLAB15:MB
 Sample : L1815200-11,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 02 14:02:47 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180501SIM\r157387_Ev2.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	9.617	49	85456	10.000	ppbV	#-0.04
Standard Area = 133881			Recovery =		63.83%	
33) 1,4-difluorobenzene	11.893	114	218710	10.000	ppbV	-0.03
Standard Area = 300815			Recovery =		72.71%	
51) chlorobenzene-D5	16.558	54	46897	10.000	ppbV	-0.02
Standard Area = 52930			Recovery =		88.60%	

System Monitoring Compounds

Target Compounds					Qvalue
6) vinyl chloride	0.000		0	N.D.	
17) 1,1-dichloroethene	0.000		0	N.D.	d
23) trans-1,2-dichloroethene	0.000		0	N.D.	
28) cis-1,2-dichloroethene	0.000		0	N.D.	
44) trichloroethene	0.000		0	N.D.	
57) tetrachloroethene	15.975	166	126	0.012	ppbV # 77

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

Sub List : 9_Chlorinateds - .Airlab15\2018\180501SIM\r157387_Ev2.D

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\

Data File : r157392_Ev2.D

Acq On : 1 May 2018 2:57 PM

Operator : AIRLAB15:MB

Sample : L1815200-11,3,250,250

Misc : WG1111464,ICAL14605

ALS Vial : 0 Sample Multiplier: 1

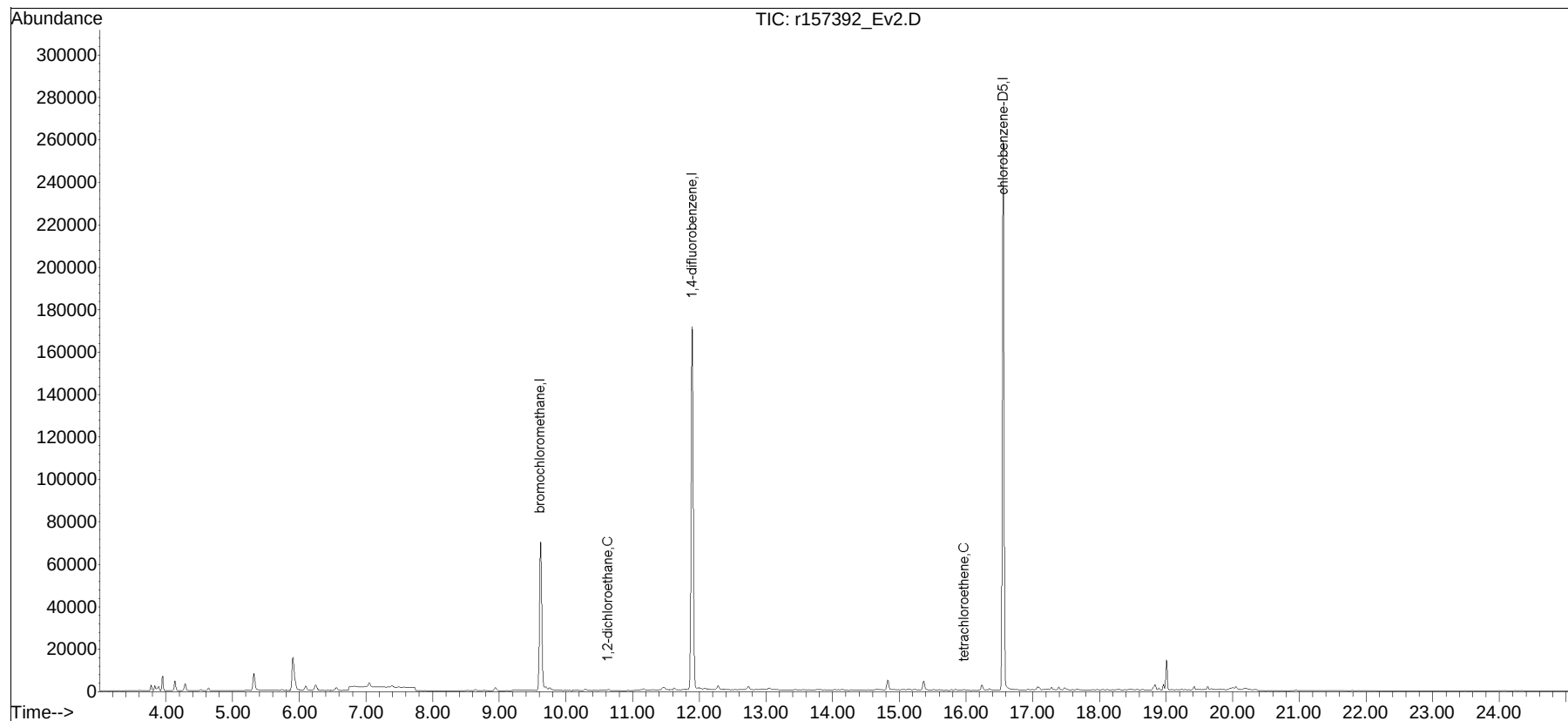
Quant Time: May 02 14:02:47 2018

Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

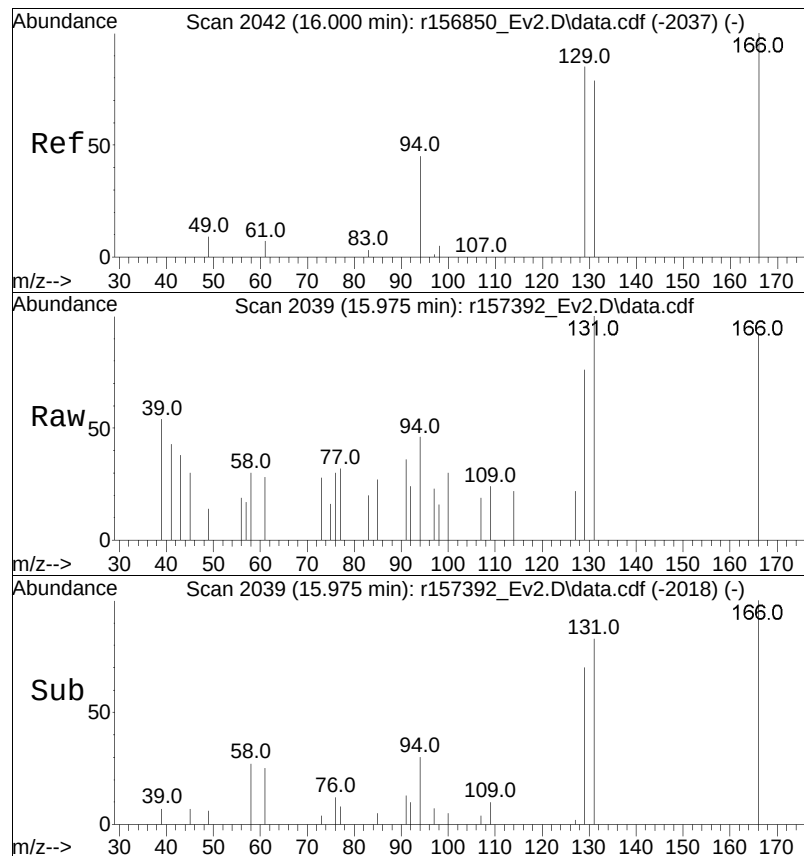
QLast Update : Thu Apr 05 10:02:48 2018

Response via : Initial Calibration



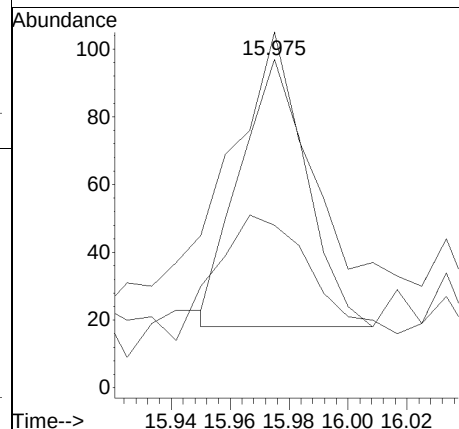
TSIM180404.M Wed May 02 14:17:49 2018

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#57
 tetrachloroethene
 Concen: 0.01 ppbV
 RT: 15.975 min Scan# 2039
 Delta R.T. -0.025 min
 Lab File: r157392_Ev2.D
 Acq: 1 May 2018 2:57 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	108.2	63.5	95.3#
94	49.5	36.1	54.1



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\Airlab15\QMethod	: TSIM180404.M
Data File	: r157392_Ev2.D	Operator : AIRLAB15:MB
Date Inj'd	: 5/1/2018 2:57 PM	Instrument :
Sample	: L1815200-11,3,250,250	Quant Date : 5/2/2018 6:04 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157395_Ev2.D
 Acq On : 1 May 2018 4:45 PM
 Operator : AIRLAB15:MB
 Sample : L1815200-02,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 02 14:03:16 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180501SIM\r157387_Ev2.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	9.625	49	83062	10.000	ppbV	#-0.03
Standard Area = 133881			Recovery =		62.04%	
33) 1,4-difluorobenzene	11.893	114	217833	10.000	ppbV	-0.03
Standard Area = 300815			Recovery =		72.41%	
51) chlorobenzene-D5	16.558	54	45208	10.000	ppbV	-0.02
Standard Area = 52930			Recovery =		85.41%	

System Monitoring Compounds

Target Compounds					Qvalue
6) vinyl chloride	0.000		0	N.D.	
17) 1,1-dichloroethene	0.000		0	N.D.	d
23) trans-1,2-dichloroethene	0.000		0	N.D.	
28) cis-1,2-dichloroethene	0.000		0	N.D.	
44) trichloroethene	0.000		0	N.D.	
57) tetrachloroethene	15.975	166	142	0.014 ppbV	# 79

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

Sub List : 9_Chlorinateds - .Airlab15\2018\180501SIM\r157387_Ev2.D

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\

Data File : r157395_Ev2.D

Acq On : 1 May 2018 4:45 PM

Operator : AIRLAB15:MB

Sample : L1815200-02,3,250,250

Misc : WG1111464,ICAL14605

ALS Vial : 0 Sample Multiplier: 1

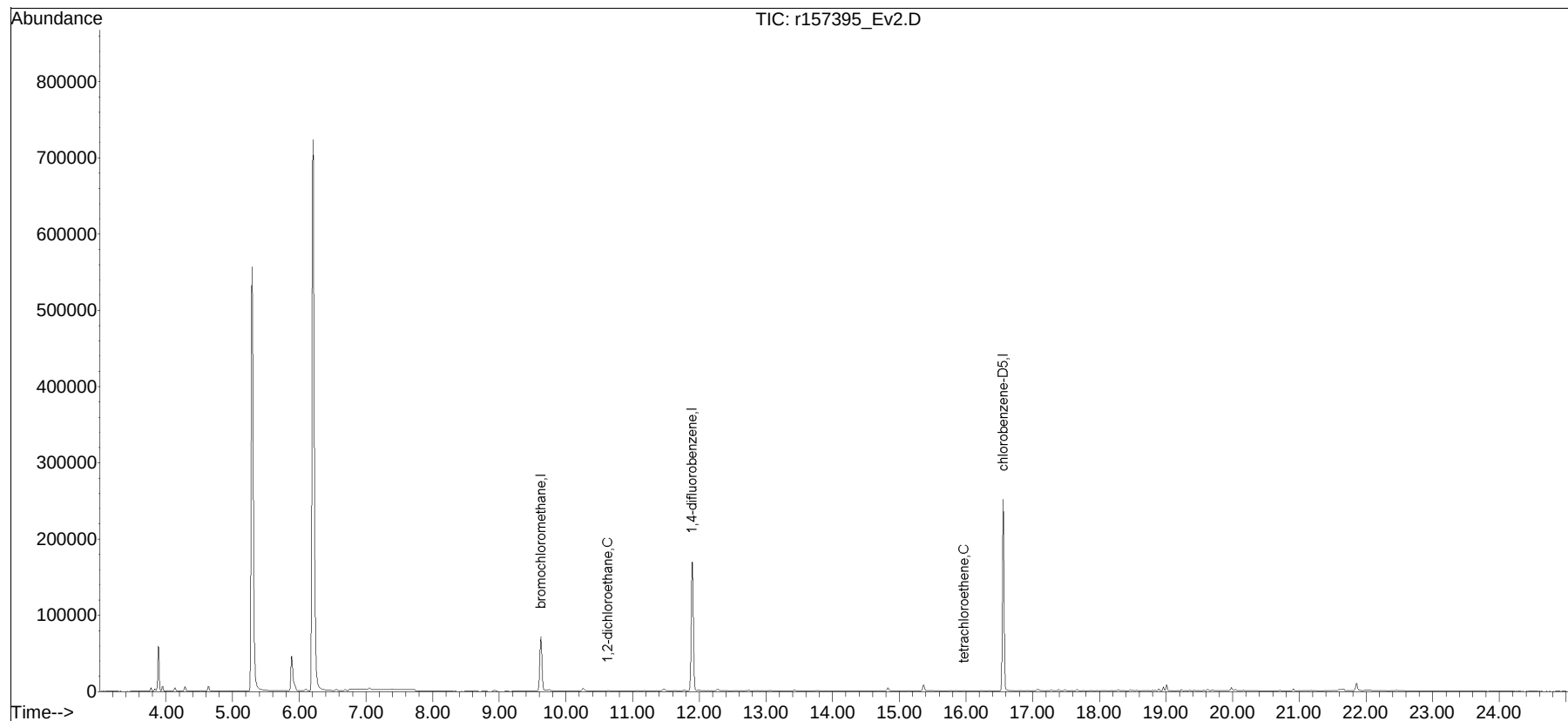
Quant Time: May 02 14:03:16 2018

Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

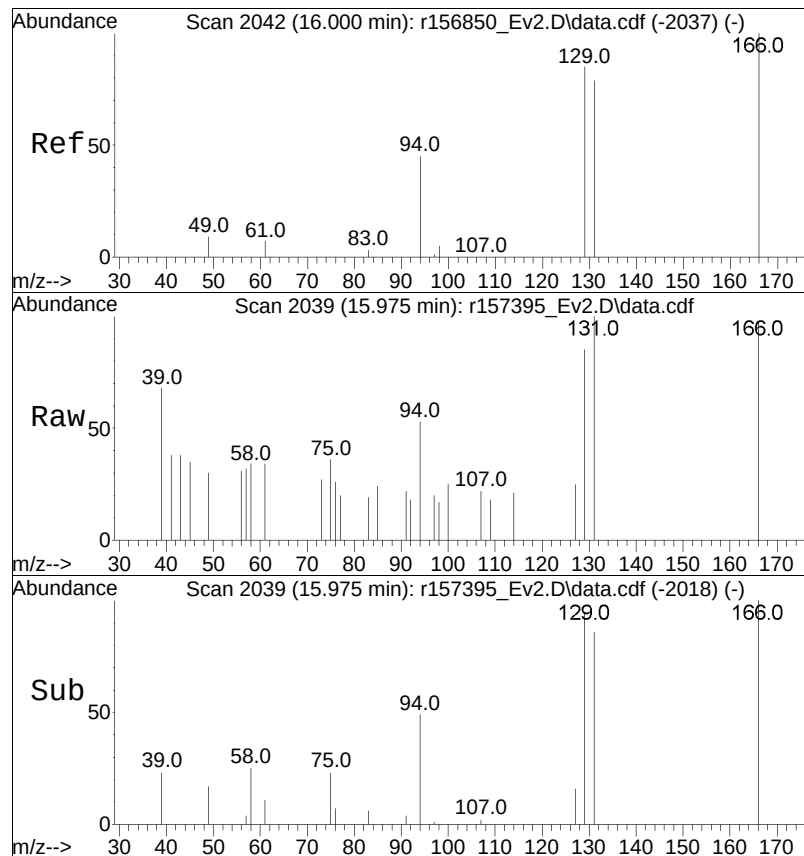
QLast Update : Thu Apr 05 10:02:48 2018

Response via : Initial Calibration



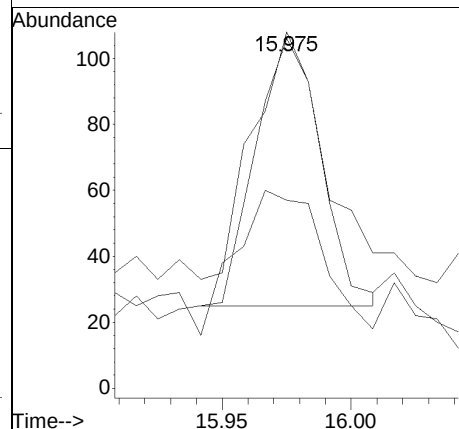
TSIM180404.M Wed May 02 14:18:00 2018

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#57
 tetrachloroethene
 Concen: 0.01 ppbV
 RT: 15.975 min Scan# 2039
 Delta R.T. -0.025 min
 Lab File: r157395_Ev2.D
 Acq: 1 May 2018 4:45 PM

Tgt	Ion	Ratio	Lower	Upper
166	100			
131	101.9	63.5	95.3#	
94	53.8	36.1	54.1	



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\Airlab15\QMethod	: TSIM180404.M
Data File	: r157395_Ev2.D	Operator : AIRLAB15:MB
Date Inj'd	: 5/1/2018 4:45 PM	Instrument :
Sample	: L1815200-02,3,250,250	Quant Date : 5/2/2018 6:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157396_Ev2.D
 Acq On : 1 May 2018 5:21 PM
 Operator : AIRLAB15:MB
 Sample : L1815200-04,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 02 14:03:27 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180501SIM\r157387_Ev2.D
 Sub List : 9_Chlorinateds - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.625	49	82037	10.000	ppbV	#-0.03
Standard Area = 133881			Recovery =		61.28%	
33) 1,4-difluorobenzene	11.893	114	210602	10.000	ppbV	-0.03
Standard Area = 300815			Recovery =		70.01%	
51) chlorobenzene-D5	16.558	54	44572	10.000	ppbV	-0.02
Standard Area = 52930			Recovery =		84.21%	

System Monitoring Compounds

Target Compounds					Qvalue
6) vinyl chloride	0.000		0	N.D.	
17) 1,1-dichloroethene	0.000		0	N.D.	d
23) trans-1,2-dichloroethene	0.000		0	N.D.	
28) cis-1,2-dichloroethene	0.000		0	N.D.	
44) trichloroethene	0.000		0	N.D.	
57) tetrachloroethene	15.983	166	202	0.020 ppbV	87

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

Sub List : 9_Chlorinateds - .Airlab15\2018\180501SIM\r157387_Ev2.D

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\

Data File : r157396_Ev2.D

Acq On : 1 May 2018 5:21 PM

Operator : AIRLAB15:MB

Sample : L1815200-04,3,250,250

Misc : WG1111464,ICAL14605

ALS Vial : 0 Sample Multiplier: 1

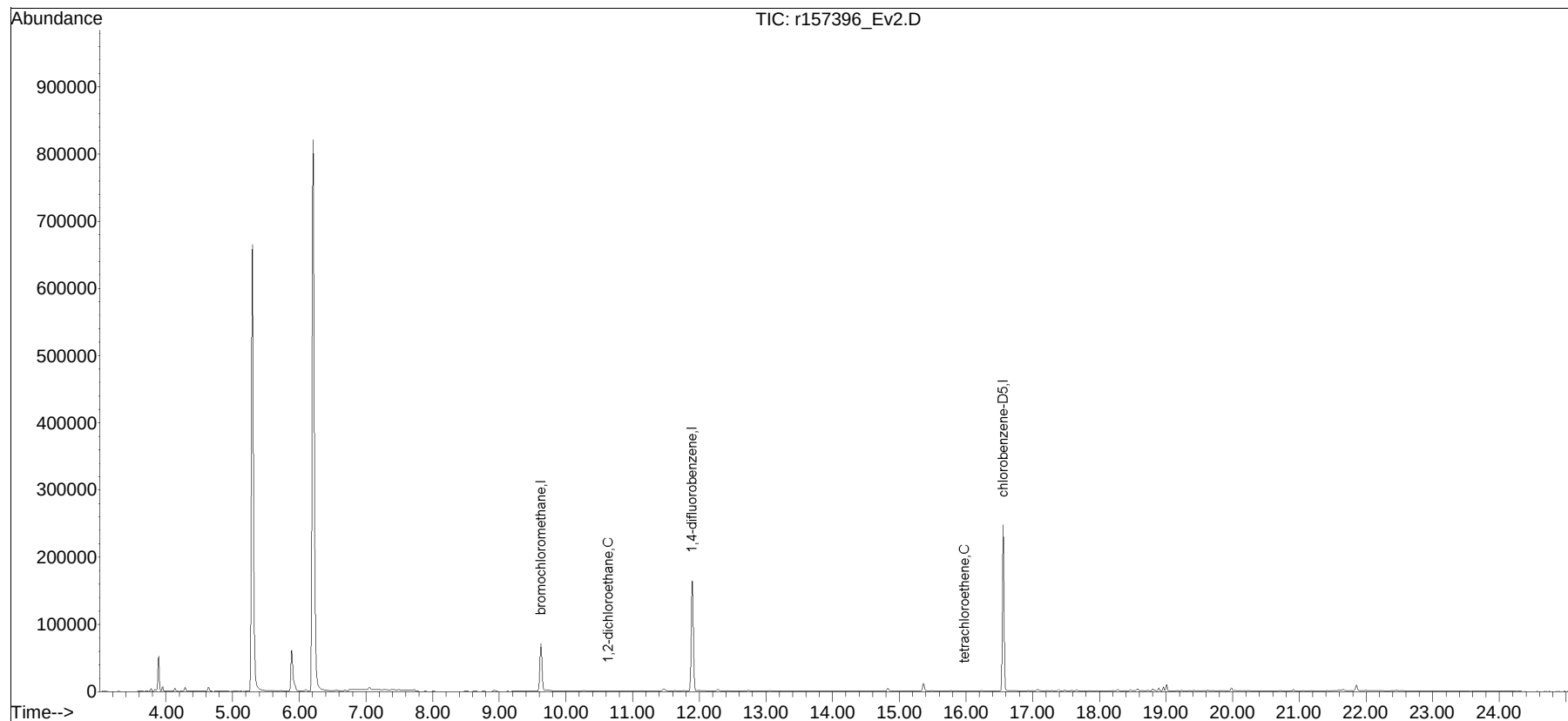
Quant Time: May 02 14:03:27 2018

Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

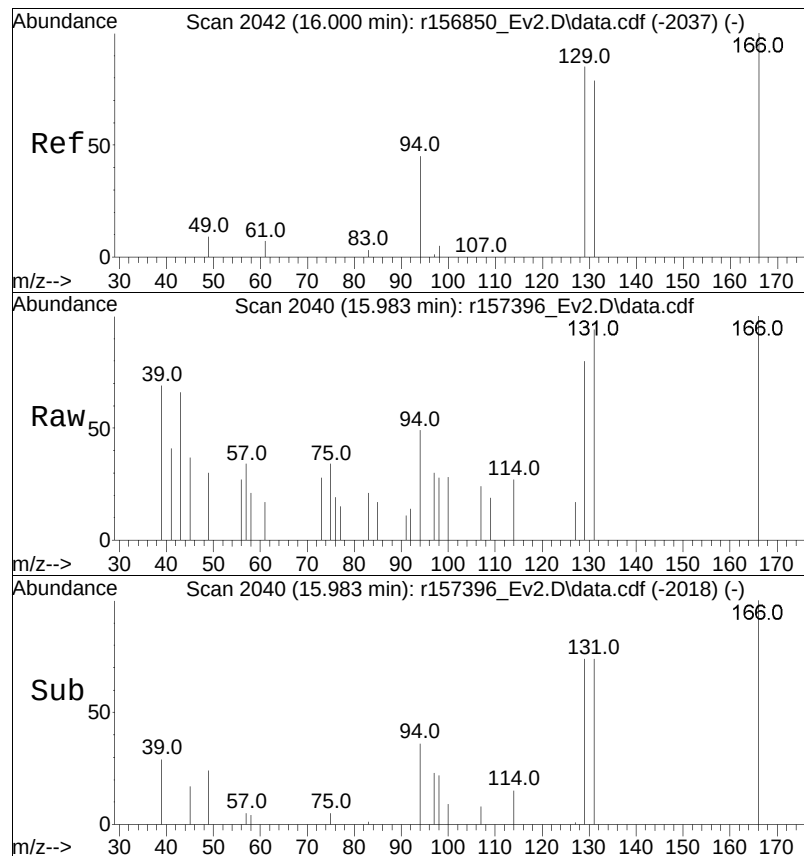
QLast Update : Thu Apr 05 10:02:48 2018

Response via : Initial Calibration



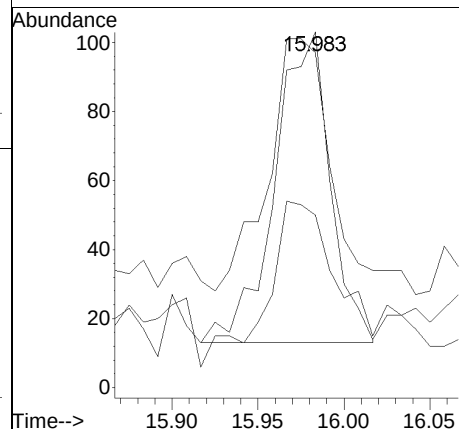
TSIM180404.M Wed May 02 14:18:05 2018

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#57
 tetrachloroethene
 Concen: 0.02 ppbV
 RT: 15.983 min Scan# 2040
 Delta R.T. -0.017 min
 Lab File: r157396_Ev2.D
 Acq: 1 May 2018 5:21 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	94.2	63.5	95.3
94	48.5	36.1	54.1



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\Airlab15\QMethod	: TSIM180404.M
Data File	: r157396_Ev2.D	Operator : AIRLAB15:MB
Date Inj'd	: 5/1/2018 5:21 PM	Instrument :
Sample	: L1815200-04,3,250,250	Quant Date : 5/2/2018 6:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157398_Ev2.D
 Acq On : 1 May 2018 6:34 PM
 Operator : AIRLAB15:MB
 Sample : L1815200-10,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 02 14:03:51 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180501SIM\r157387_Ev2.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	9.625	49	84328	10.000	ppbV	#-0.03
Standard Area = 133881			Recovery =		62.99%	
33) 1,4-difluorobenzene	11.893	114	215768	10.000	ppbV	-0.03
Standard Area = 300815			Recovery =		71.73%	
51) chlorobenzene-D5	16.558	54	45279	10.000	ppbV	-0.02
Standard Area = 52930			Recovery =		85.55%	

System Monitoring Compounds

Target Compounds						Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D.	d
23) trans-1,2-dichloroethene	0.000		0		N.D.	
28) cis-1,2-dichloroethene	0.000		0		N.D.	
44) trichloroethene	12.693	130	96	0.010	ppbV #	88
57) tetrachloroethene	15.975	166	242	0.024	ppbV #	86

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

Sub List : 9_Chlorinateds - .Airlab15\2018\180501SIM\r157387_Ev2.D

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\

Data File : r157398_Ev2.D

Acq On : 1 May 2018 6:34 PM

Operator : AIRLAB15:MB

Sample : L1815200-10,3,250,250

Misc : WG1111464,ICAL14605

ALS Vial : 0 Sample Multiplier: 1

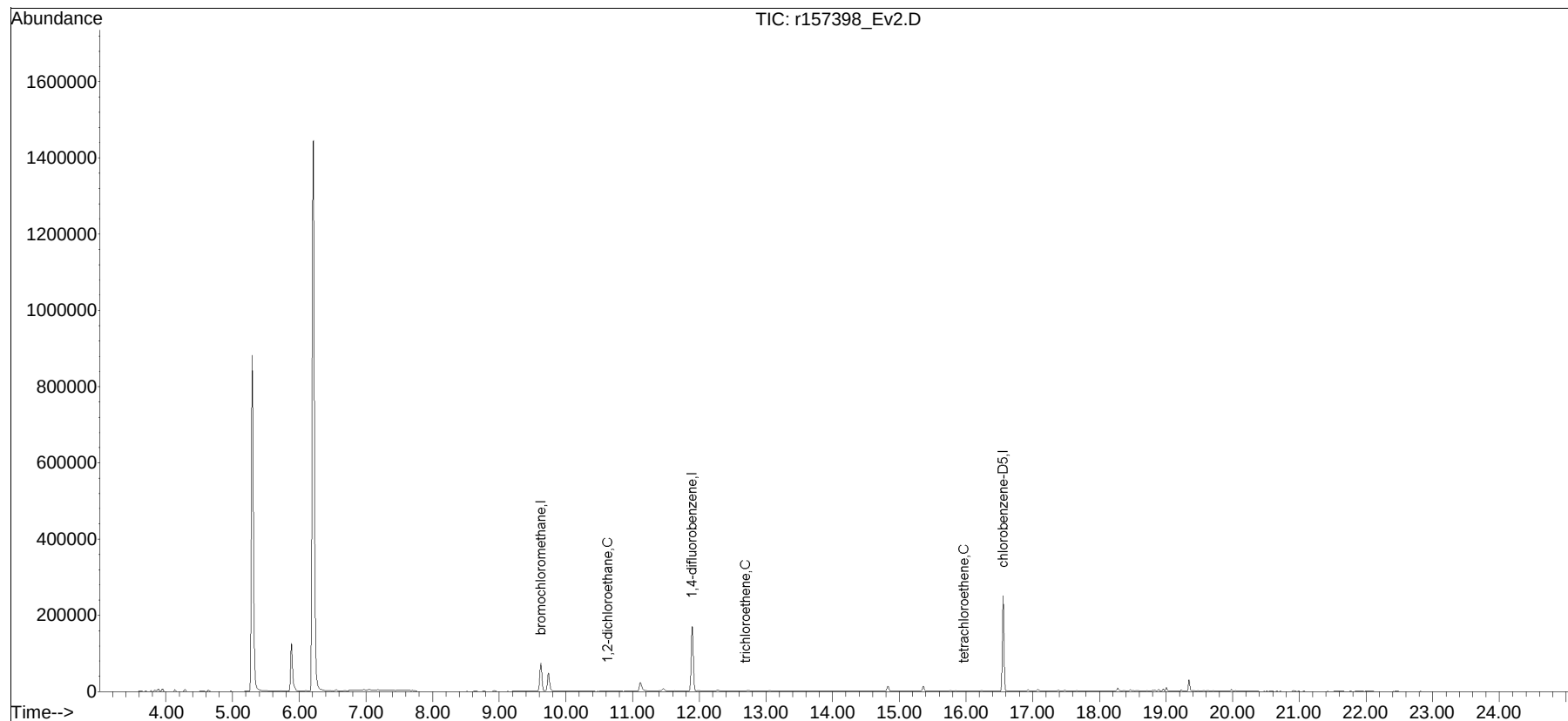
Quant Time: May 02 14:03:51 2018

Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

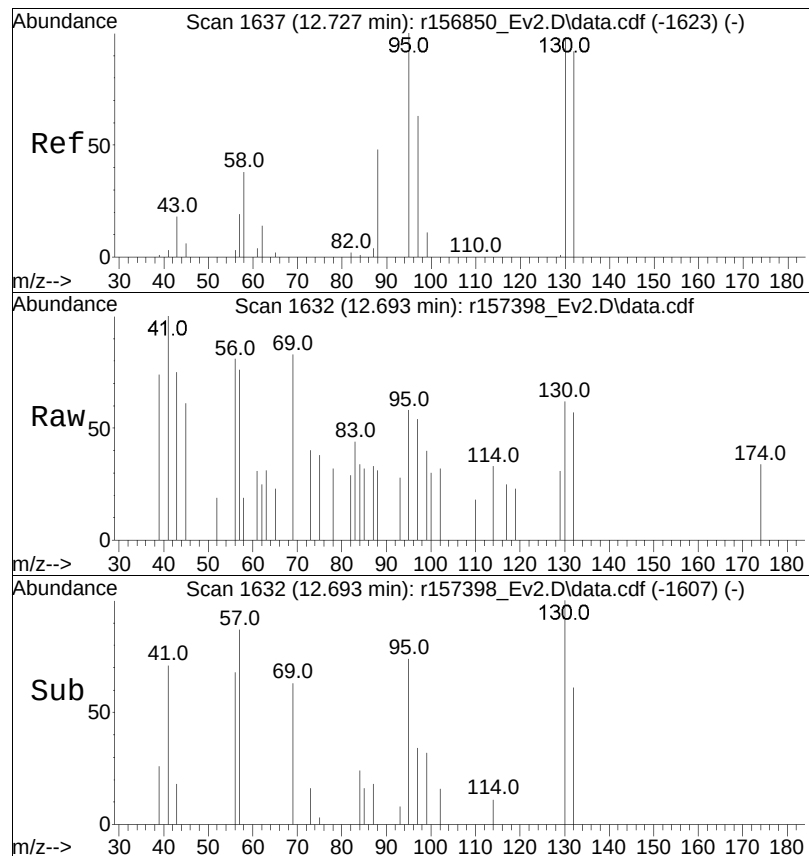
QLast Update : Thu Apr 05 10:02:48 2018

Response via : Initial Calibration



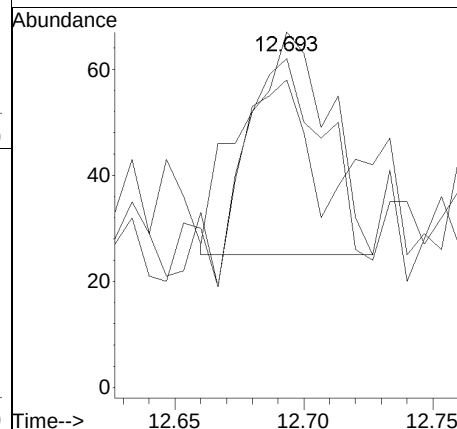
TSIM180404.M Wed May 02 14:18:10 2018

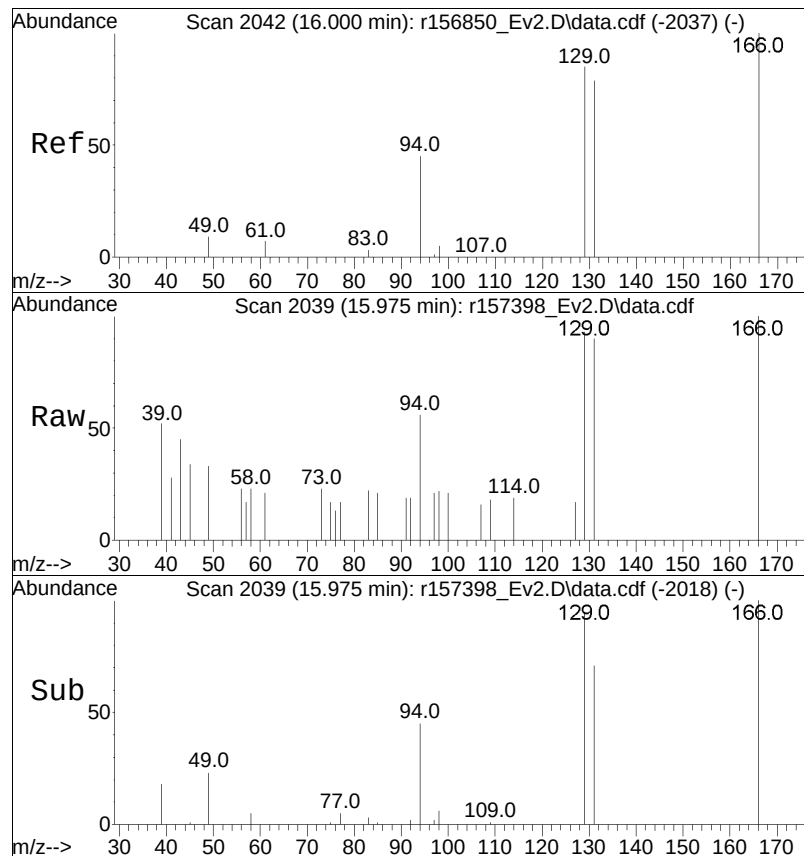
Page 2



#44
trichloroethene
Concen: 0.01 ppbV
RT: 12.693 min Scan# 1632
Delta R.T. -0.033 min
Lab File: r157398_Ev2.D
Acq: 1 May 2018 6:34 PM

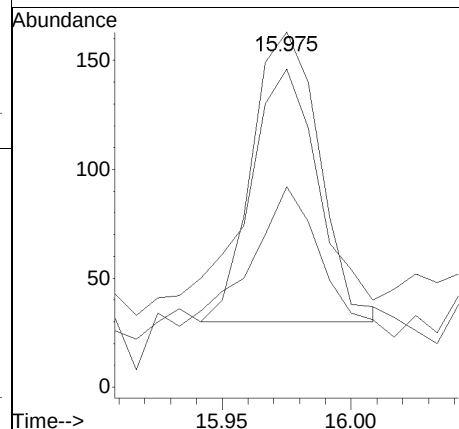
Tgt Ion:	130	Resp:	96
Ion Ratio	Lower	Upper	
130	100		
132	92.5	75.5	113.3
97	86.6	51.9	77.9#





#57
 tetrachloroethene
 Concen: 0.02 ppbV
 RT: 15.975 min Scan# 2039
 Delta R.T. -0.025 min
 Lab File: r157398_Ev2.D
 Acq: 1 May 2018 6:34 PM

Tgt	Ion:166	Resp:	242
Ion	Ratio	Lower	Upper
166	100		
131	89.6	63.5	95.3
94	56.4	36.1	54.1#



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\Airlab15\QMethod	: TSIM180404.M
Data File	: r157398_Ev2.D	Operator : AIRLAB15:MB
Date Inj'd	: 5/1/2018 6:34 PM	Instrument :
Sample	: L1815200-10,3,250,250	Quant Date : 5/2/2018 6:06 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159120.D
 Acq On : 2 May 2018 6:38 pm
 Operator : AIRPIAN01:MB
 Sample : L1815200-07,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 03 08:20:41 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : 9_Chlorinateds - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.181	49	150394	10.000	ppbV	0.00
Standard Area = 171514			Recovery =		87.69%	
33) 1,4-difluorobenzene	12.401	114	172421	10.000	ppbV	0.00
Standard Area = 248964			Recovery =		69.26%	
51) chlorobenzene-D5	16.822	54	52339	10.000	ppbV	0.00
Standard Area = 64233			Recovery =		81.48%	

System Monitoring Compounds

Target Compounds					Qvalue
6) vinyl chloride	4.666		0	N.D.	
17) 1,1-dichloroethene	0.000		0	N.D.	d
23) trans-1,2-dichloroethene	8.876		0	N.D.	
28) cis-1,2-dichloroethene	9.988		0	N.D.	
44) trichloroethene	13.193		0	N.D.	
57) tetrachloroethene	16.283	166	489	0.054 ppbV #	92

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

Sub List : 9_Chlorinateds - .AIR1\2018\180502SIM\R159114.D

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\

Data File : R159120.D

Acq On : 2 May 2018 6:38 pm

Operator : AIRPIAN01:MB

Sample : L1815200-07,3,250,250

Misc : WG1111916,ICAL14483

ALS Vial : 5 Sample Multiplier: 1

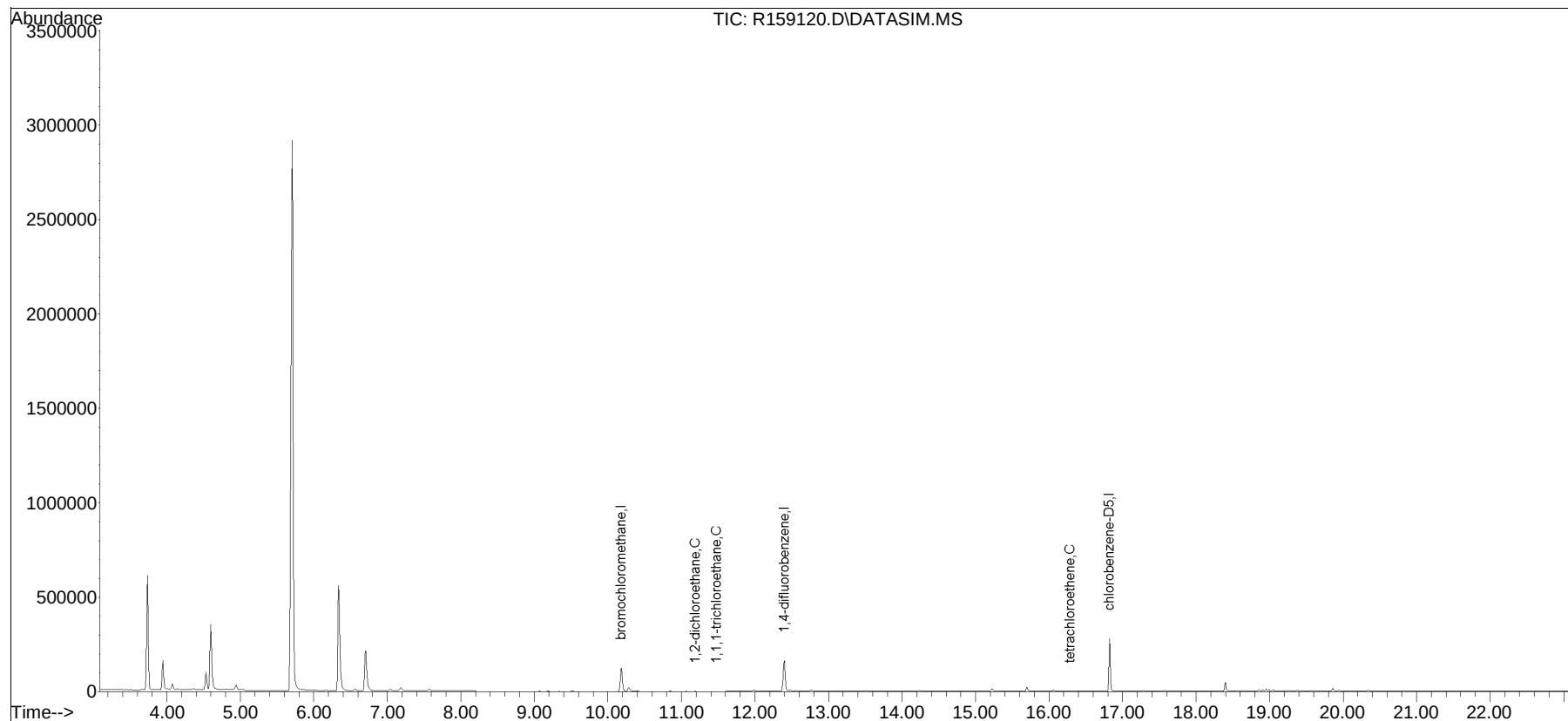
Quant Time: May 03 08:20:41 2018

Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

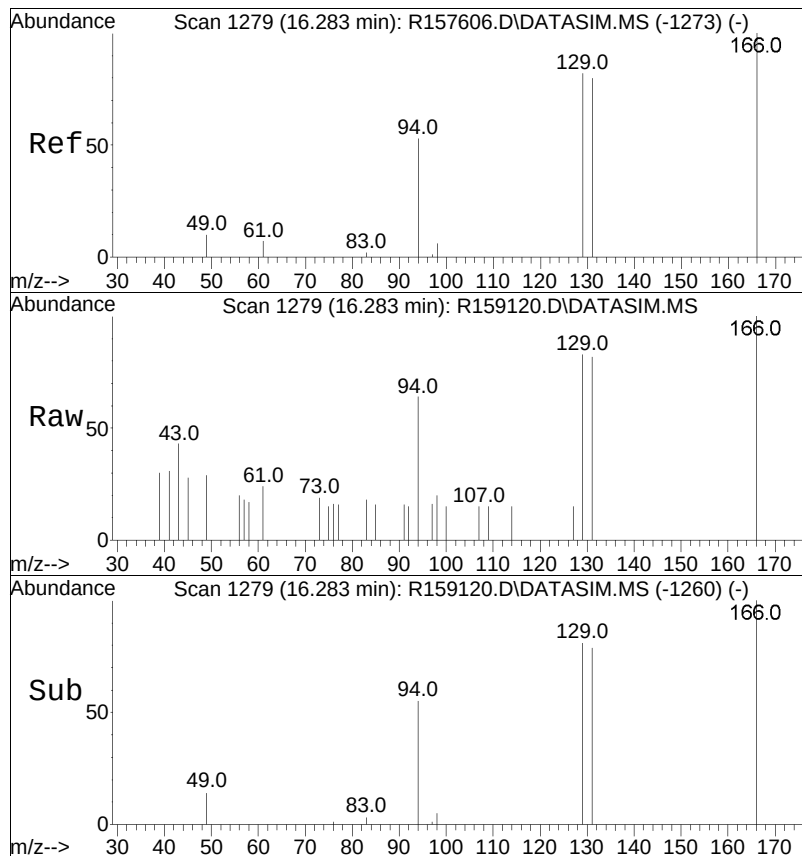
QLast Update : Tue Feb 27 12:44:53 2018

Response via : Initial Calibration



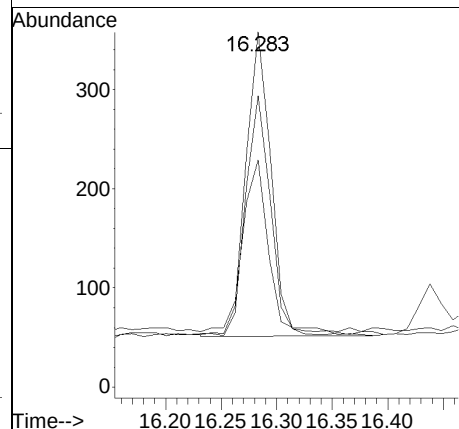
TSIM180226.M Thu May 03 08:27:30 2018

Page 2



#57
 tetrachloroethene
 Concen: 0.05 ppbV
 RT: 16.283 min Scan# 1279
 Delta R.T. -0.000 min
 Lab File: R159120.D
 Acq: 2 May 2018 6:38 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	82.1	63.7	95.5
94	64.0	42.1	63.1#



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159120.D Operator : AIRPIAN01:MB
Date Inj'd : 5/2/2018 6:38 pm Instrument : Air Piano 1
Sample : L1815200-07,3,250,250 Quant Date : 5/3/2018 6:44 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159121.D
 Acq On : 2 May 2018 7:11 pm
 Operator : AIRPIAN01:MB
 Sample : L1815200-01,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 03 06:44:46 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : 9_Chlorinateds - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.181	49	144973	10.000	ppbV	0.00
Standard Area = 171514			Recovery =		84.53%	
33) 1,4-difluorobenzene	12.401	114	176426	10.000	ppbV	0.00
Standard Area = 248964			Recovery =		70.86%	
51) chlorobenzene-D5	16.823	54	50683	10.000	ppbV	0.00
Standard Area = 64233			Recovery =		78.90%	

System Monitoring Compounds

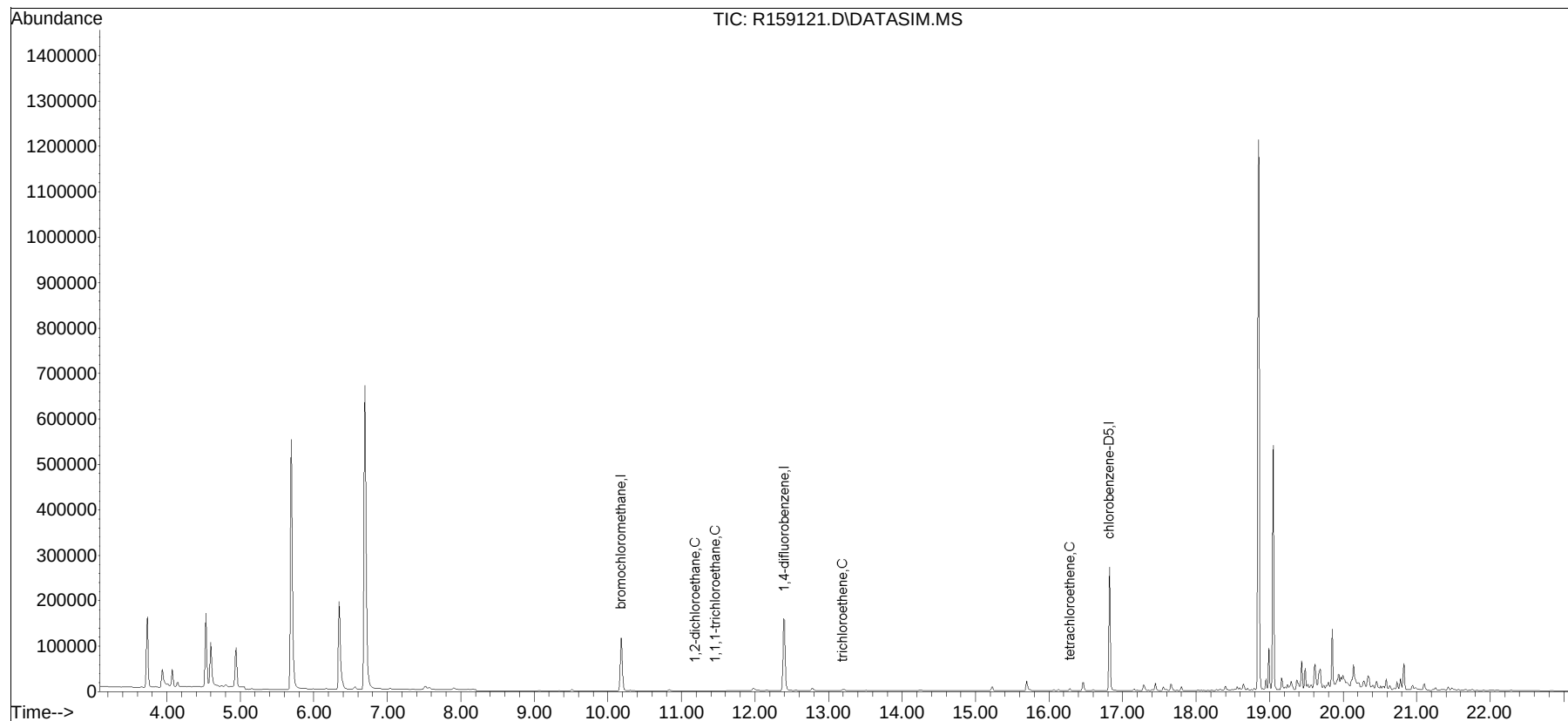
Target Compounds					Qvalue
6) vinyl chloride	4.677		0	N.D.	
17) 1,1-dichloroethene	7.330		0	N.D.	
23) trans-1,2-dichloroethene	8.745		0	N.D.	
28) cis-1,2-dichloroethene	9.996		0	N.D.	
44) trichloroethene	13.193	130	921	0.127 ppbV	98
57) tetrachloroethene	16.283	166	2258	0.259 ppbV	96

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

Sub List : 9_Chlorinateds - .AIR1\2018\180502SIM\R159114.D

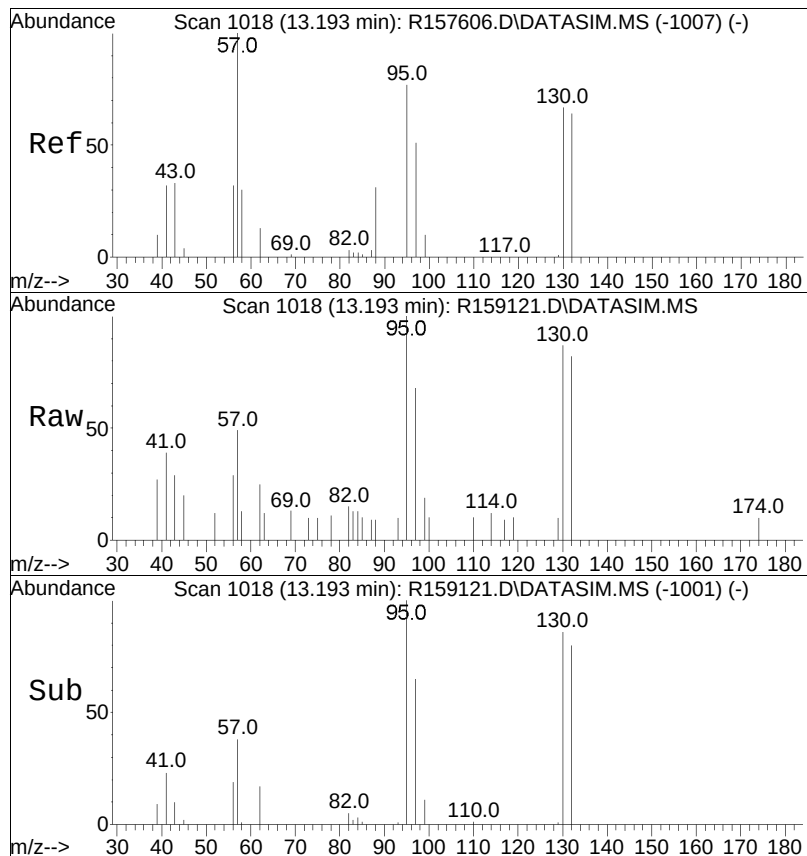
Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
Data File : R159121.D
Acq On : 2 May 2018 7:11 pm
Operator : AIRPIAN01:MB
Sample : L1815200-01,3,250,250
Misc : WG1111916,ICAL14483
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 03 06:44:46 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



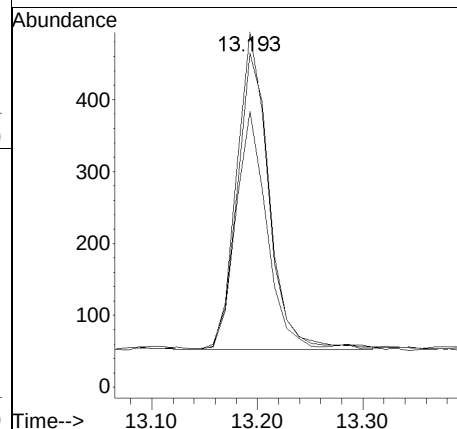
TSIM180226.M Thu May 03 08:27:35 2018

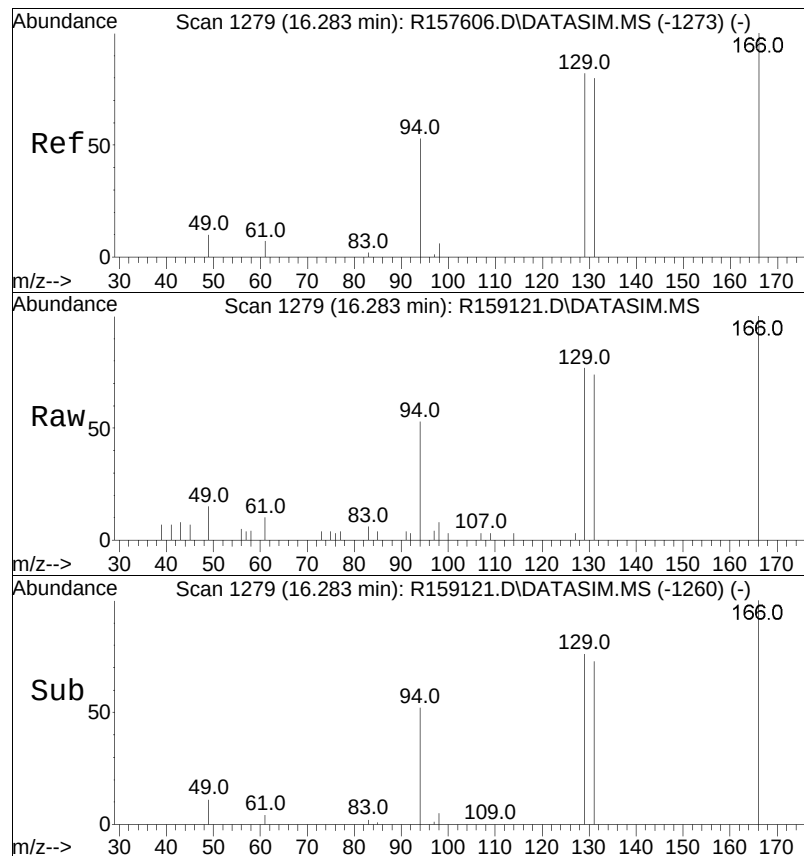
Page 2



#44
trichloroethene
Concen: 0.13 ppbV
RT: 13.193 min Scan# 1018
Delta R.T. 0.000 min
Lab File: R159121.D
Acq: 2 May 2018 7:11 pm

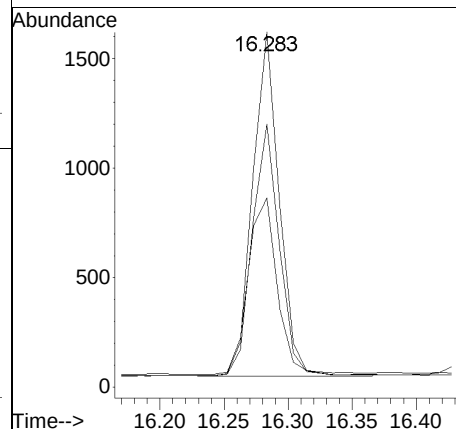
Tgt Ion:130 Resp: 921
Ion Ratio Lower Upper
130 100
132 94.1 77.4 116.0
97 77.7 60.9 91.3





#57
 tetrachloroethene
 Concen: 0.26 ppbV
 RT: 16.283 min Scan# 1279
 Delta R.T. 0.000 min
 Lab File: R159121.D
 Acq: 2 May 2018 7:11 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	74.1	63.7	95.5
94	53.3	42.1	63.1



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159121.D Operator : AIRPIAN01:MB
Date Inj'd : 5/2/2018 7:11 pm Instrument : Air Piano 1
Sample : L1815200-01,3,250,250 Quant Date : 5/3/2018 6:44 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159122.D
 Acq On : 2 May 2018 7:43 pm
 Operator : AIRPIAN01:MB
 Sample : L1815200-03,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 03 06:44:55 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.181	49	148921	10.000	ppbV	0.00
Standard Area = 171514			Recovery =		86.83%	
33) 1,4-difluorobenzene	12.401	114	184367	10.000	ppbV	0.00
Standard Area = 248964			Recovery =		74.05%	
51) chlorobenzene-D5	16.822	54	50987	10.000	ppbV	0.00
Standard Area = 64233			Recovery =		79.38%	

System Monitoring Compounds

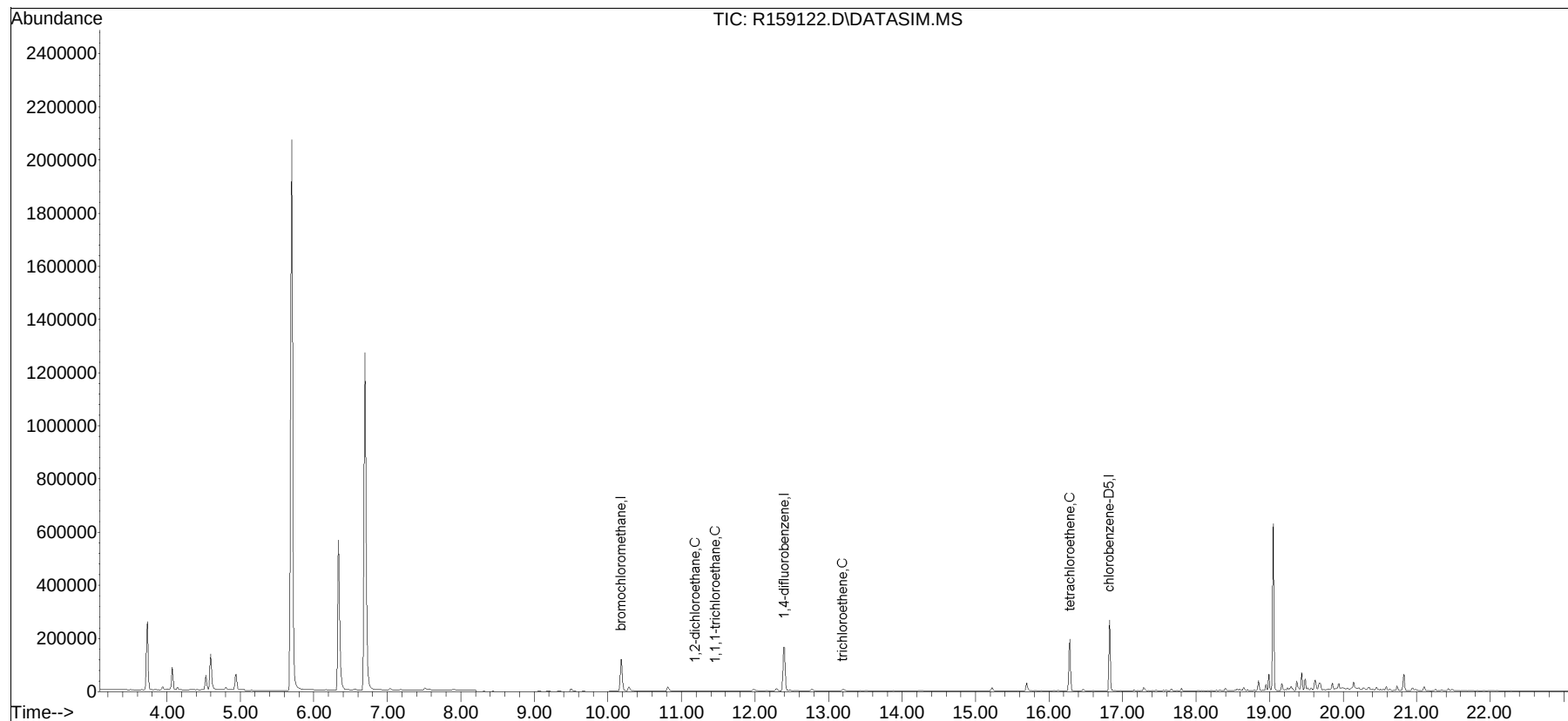
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.677		0		N.D.	
17) 1,1-dichloroethene	7.441		0		N.D.	
23) trans-1,2-dichloroethene	8.753		0		N.D.	
28) cis-1,2-dichloroethene	9.988		0		N.D.	
44) trichloroethene	13.193	130	1986	0.262	ppbV	99
57) tetrachloroethene	16.283	166	86783	9.905	ppbV	96

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

Sub List : 9_Chlorinateds - .AIR1\2018\180502SIM\R159114.D

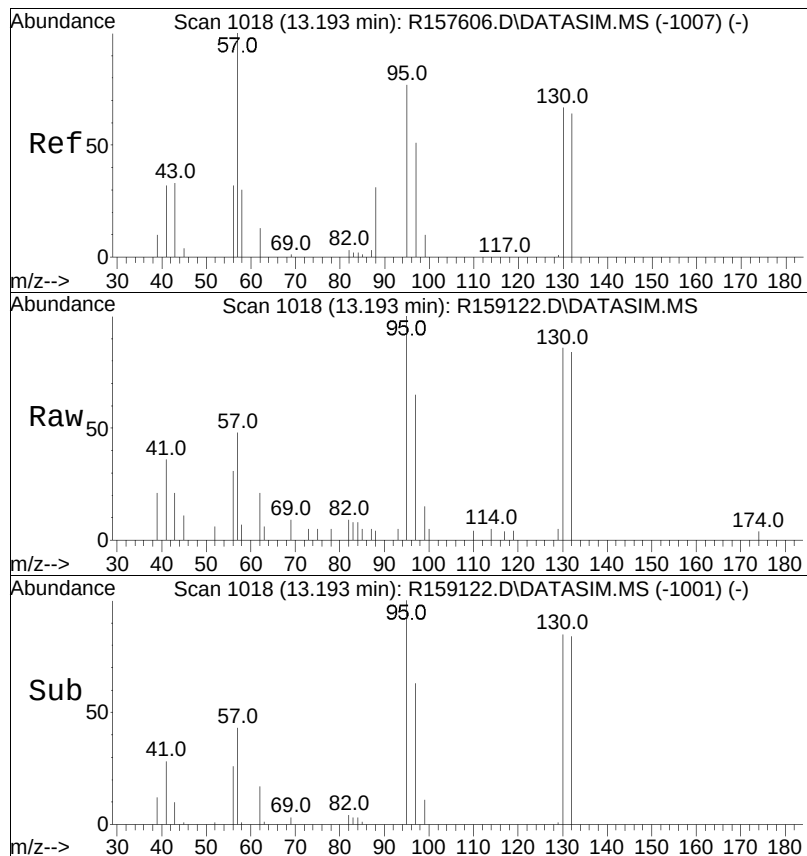
Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
Data File : R159122.D
Acq On : 2 May 2018 7:43 pm
Operator : AIRPIAN01:MB
Sample : L1815200-03,3,250,250
Misc : WG1111916,ICAL14483
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 03 06:44:55 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



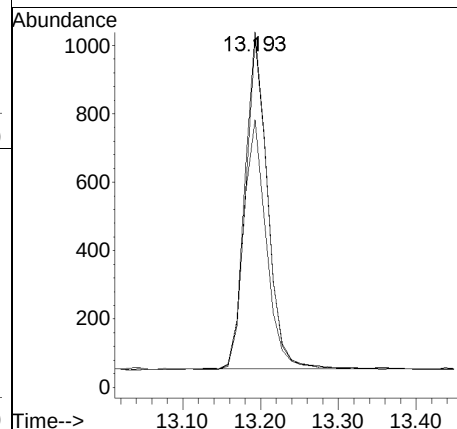
TSIM180226.M Thu May 03 08:27:39 2018

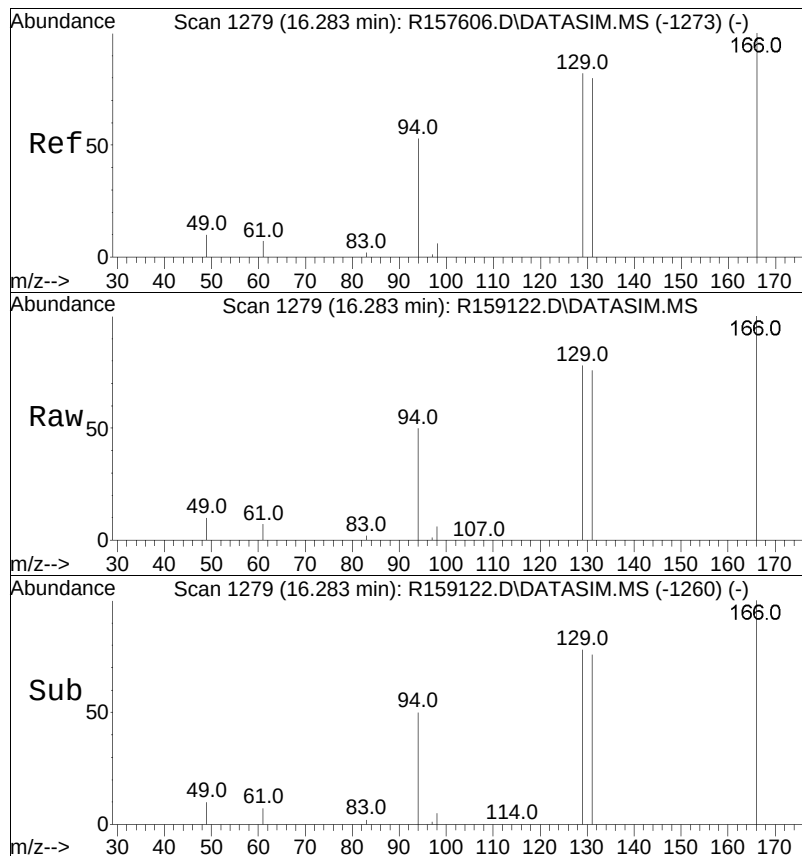
Page 2



#44
trichloroethene
Concen: 0.26 ppbV
RT: 13.193 min Scan# 1018
Delta R.T. -0.000 min
Lab File: R159122.D
Acq: 2 May 2018 7:43 pm

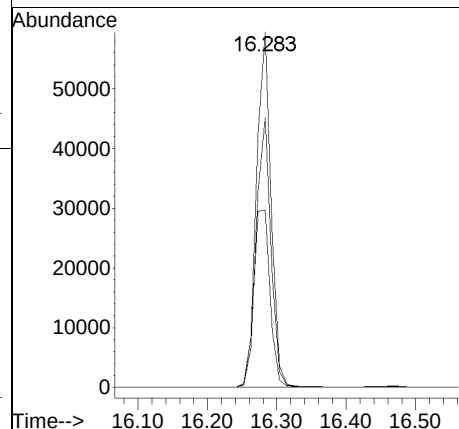
Tgt Ion	Ratio	Lower	Upper
130	100		
132	98.0	77.4	116.0
97	75.4	60.9	91.3





#57
 tetrachloroethene
 Concen: 9.91 ppbV
 RT: 16.283 min Scan# 1279
 Delta R.T. -0.000 min
 Lab File: R159122.D
 Acq: 2 May 2018 7:43 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	76.1	63.7	95.5
94	49.9	42.1	63.1



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\AIR1\2018Q	Method	: TSIM180226.M
Data File	: R159122.D	Operator	: AIRPIAN01:MB
Date Inj'd	: 5/2/2018 7:43 pm	Instrument	: Air Piano 1
Sample	: L1815200-03,3,250,250	Quant Date	: 5/3/2018 6:44 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159123.D
 Acq On : 2 May 2018 8:16 pm
 Operator : AIRPIAN01:MB
 Sample : L1815200-05,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 03 08:21:17 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : 9_Chlorinateds - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.181	49	146443	10.000	ppbV	0.00
Standard Area = 171514			Recovery =		85.38%	
33) 1,4-difluorobenzene	12.401	114	176224	10.000	ppbV	0.00
Standard Area = 248964			Recovery =		70.78%	
51) chlorobenzene-D5	16.823	54	54661	10.000	ppbV	0.00
Standard Area = 64233			Recovery =		85.10%	

System Monitoring Compounds

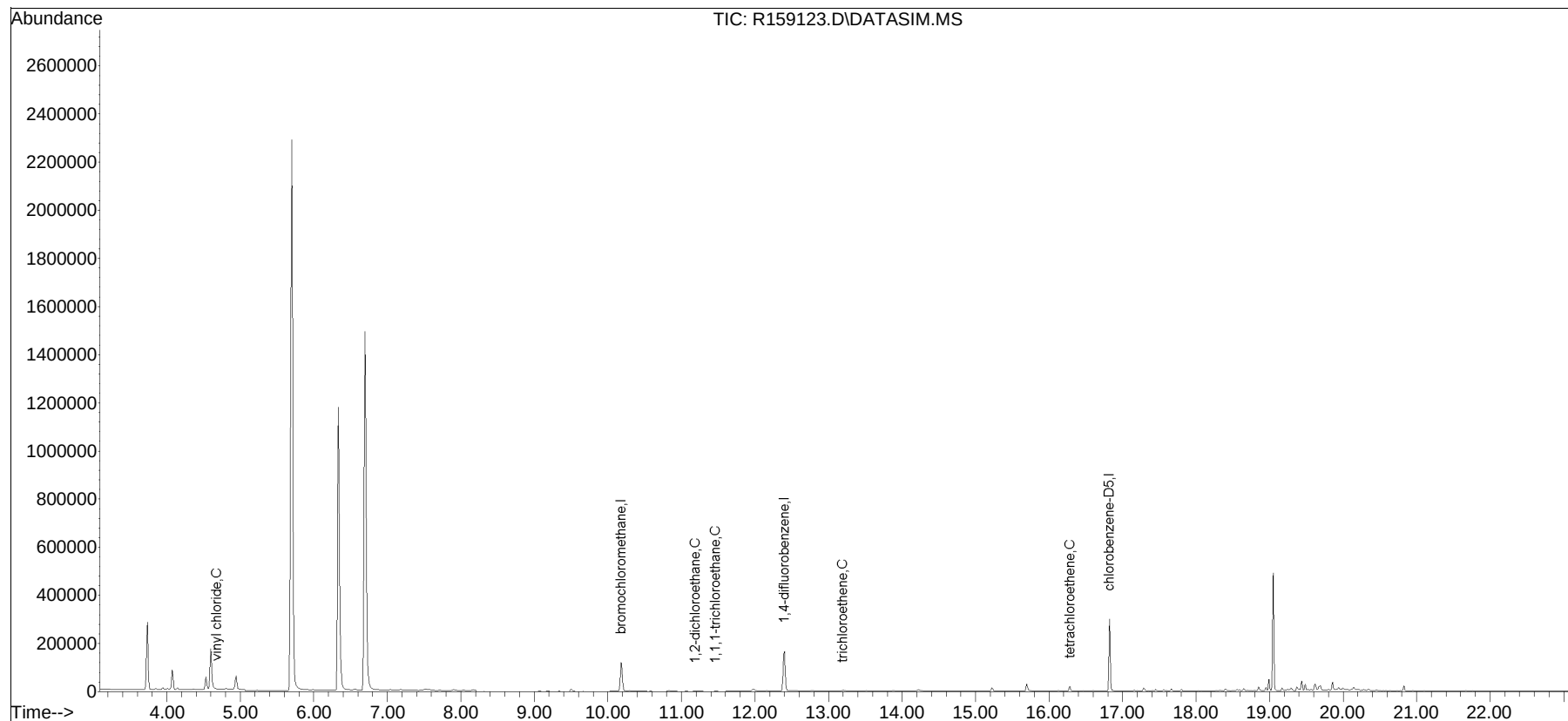
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.677	62	103M4	0.012	ppbV	
17) 1,1-dichloroethene	7.441		0	N.D.		
23) trans-1,2-dichloroethene	8.745		0	N.D.		
28) cis-1,2-dichloroethene	9.988		0	N.D.		
44) trichloroethene	13.193	130	1253	0.173	ppbV	99
57) tetrachloroethene	16.283	166	8866	0.944	ppbV	97

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

Sub List : 9_Chlorinateds - .AIR1\2018\180502SIM\R159114.D

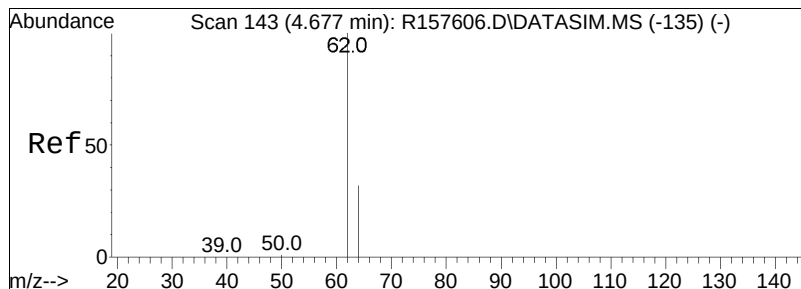
Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
Data File : R159123.D
Acq On : 2 May 2018 8:16 pm
Operator : AIRPIAN01:MB
Sample : L1815200-05,3,250,250
Misc : WG1111916,ICAL14483
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 03 08:21:17 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



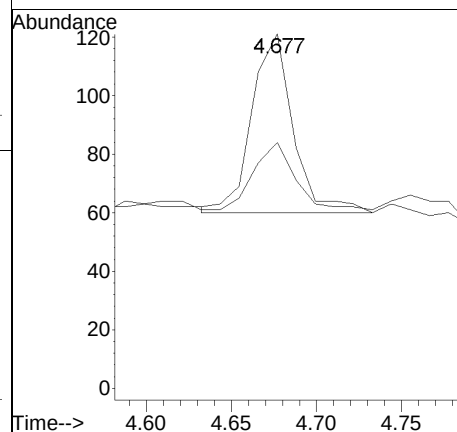
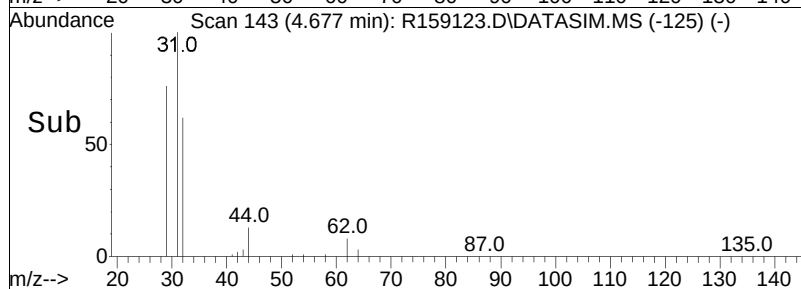
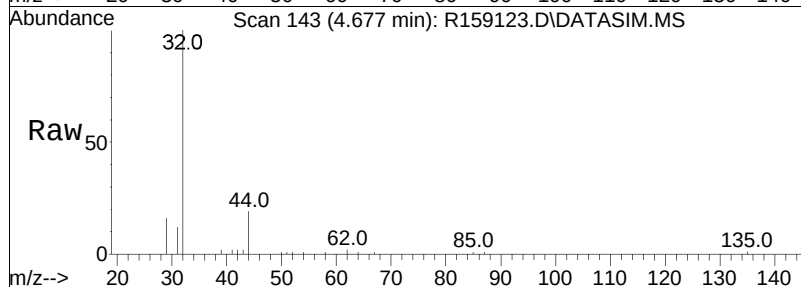
TSIM180226.M Thu May 03 08:27:46 2018

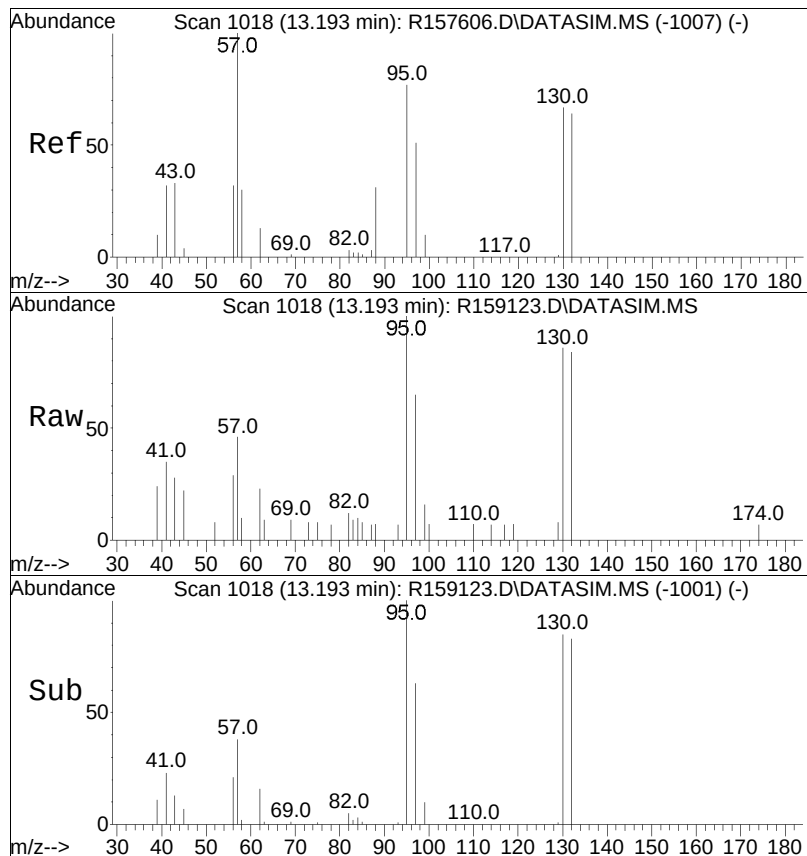
Page 2



#6
vinyl chloride
Concen: 0.01 ppbV m
RT: 4.677 min Scan# 143
Delta R.T. 0.000 min
Lab File: R159123.D
Acq: 2 May 2018 8:16 pm

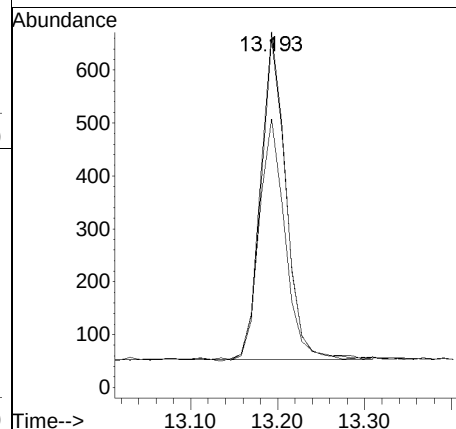
Tgt Ion: 62 Resp: 103
Ion Ratio Lower Upper
62 100
64 69.4 25.5 38.3#

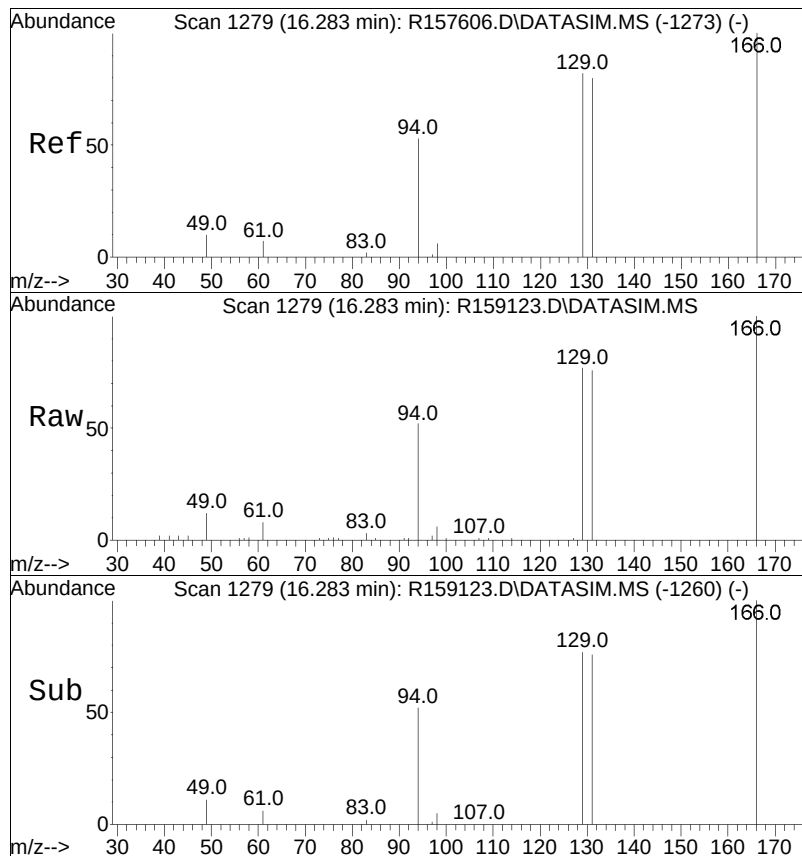




#44
trichloroethene
Concen: 0.17 ppbV
RT: 13.193 min Scan# 1018
Delta R.T. 0.000 min
Lab File: R159123.D
Acq: 2 May 2018 8:16 pm

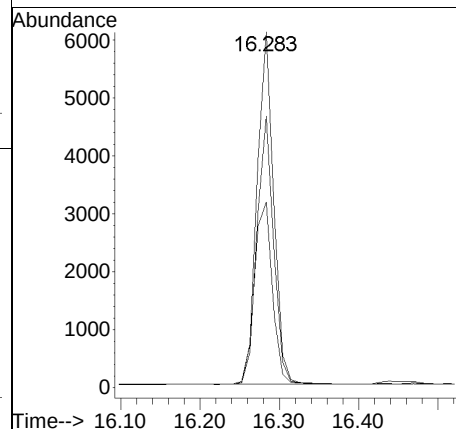
Tgt Ion	Ratio	Lower	Upper
130	100		
132	98.2	77.4	116.0
97	75.6	60.9	91.3





#57
 tetrachloroethene
 Concen: 0.94 ppbV
 RT: 16.283 min Scan# 1279
 Delta R.T. 0.000 min
 Lab File: R159123.D
 Acq: 2 May 2018 8:16 pm

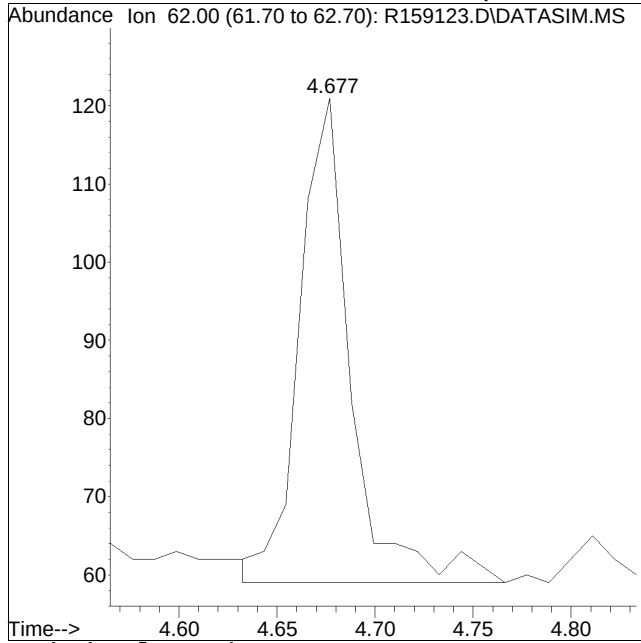
Tgt Ion	Ratio	Lower	Upper
166	100		
131	76.3	63.7	95.5
94	52.1	42.1	63.1



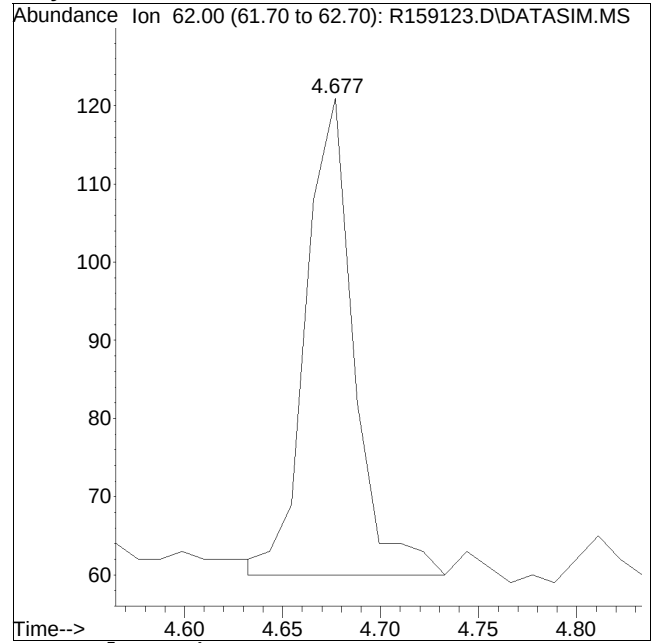
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159123.D Operator : AIRPIAN01:MB
Date Inj'd : 5/2/2018 8:16 pm Instrument : Air Piano 1
Sample : L1815200-05,3,250,250 Quant Date : 5/3/2018 6:45 am

Compound #6: vinyl chloride



Original Peak Response = 113



Manual Peak Response = 103 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159124.D
 Acq On : 2 May 2018 8:48 pm
 Operator : AIRPIAN01:MB
 Sample : L1815200-06,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 03 06:45:12 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.181	49	148296	10.000	ppbV	0.00
Standard Area = 171514			Recovery =		86.46%	
33) 1,4-difluorobenzene	12.401	114	175507	10.000	ppbV	0.00
Standard Area = 248964			Recovery =		70.49%	
51) chlorobenzene-D5	16.822	54	52427	10.000	ppbV	0.00
Standard Area = 64233			Recovery =		81.62%	

System Monitoring Compounds

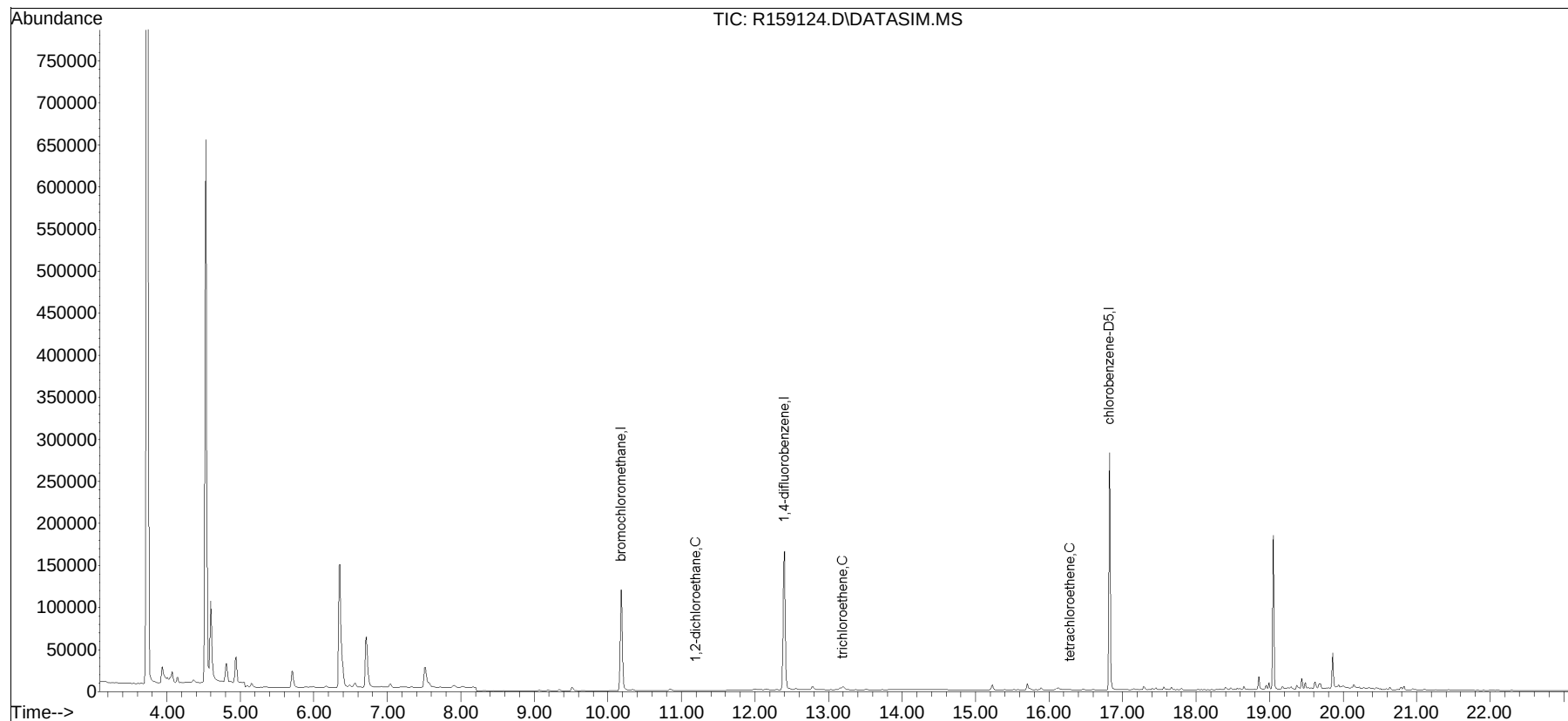
Target Compounds					Qvalue	
6) vinyl chloride	4.677		0	N.D.		
17) 1,1-dichloroethene	7.441		0	N.D.		
23) trans-1,2-dichloroethene	8.737		0	N.D.		
28) cis-1,2-dichloroethene	9.996		0	N.D.		
44) trichloroethene	13.193	130	1330	0.185	ppbV	96
57) tetrachloroethene	16.283	166	176	0.020	ppbV #	89

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

Sub List : 9_Chlorinateds - .AIR1\2018\180502SIM\R159114.D

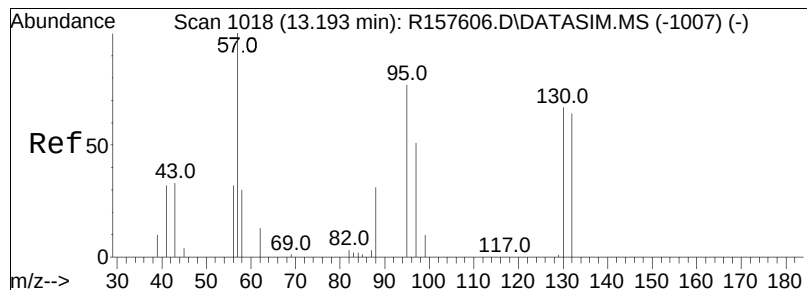
Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
Data File : R159124.D
Acq On : 2 May 2018 8:48 pm
Operator : AIRPIAN01:MB
Sample : L1815200-06,3,250,250
Misc : WG1111916,ICAL14483
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 03 06:45:12 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



TSIM180226.M Thu May 03 08:27:51 2018

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#44

trichloroethene

Concen: 0.18 ppbV

RT: 13.193 min Scan# 1018

Delta R.T. 0.000 min

Lab File: R159124.D

Acq: 2 May 2018 8:48 pm

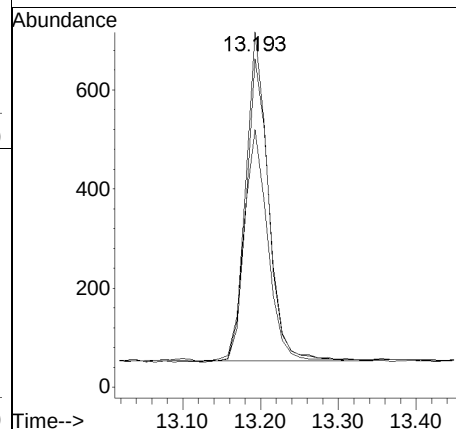
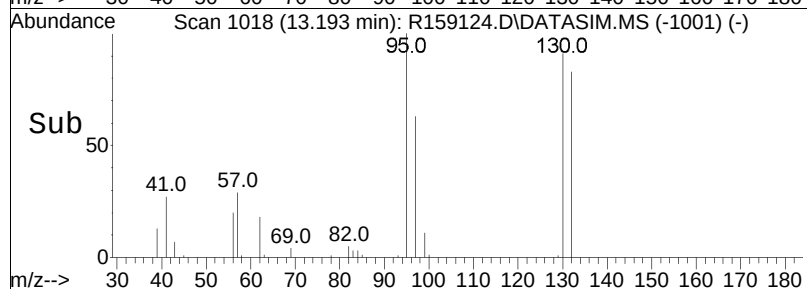
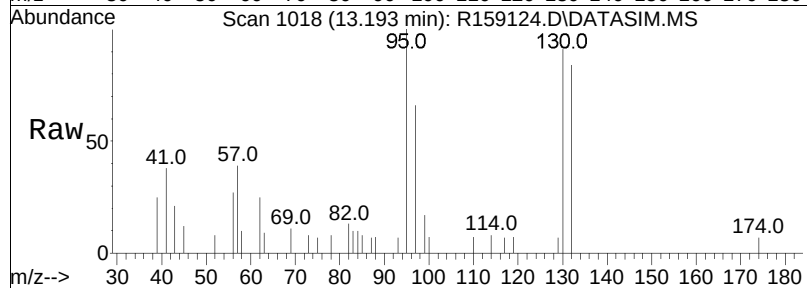
Tgt Ion:130 Resp: 1330

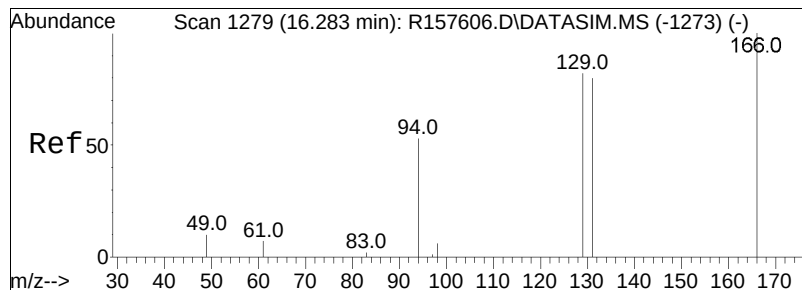
Ion Ratio Lower Upper

130 100

132 92.5 77.4 116.0

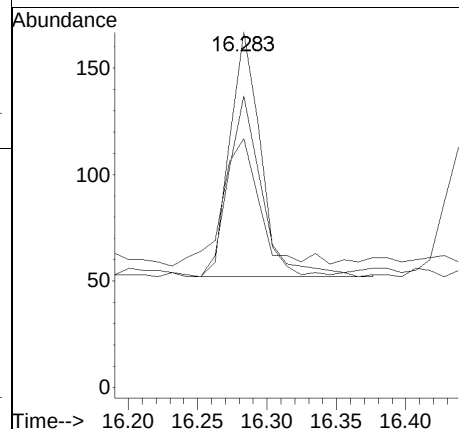
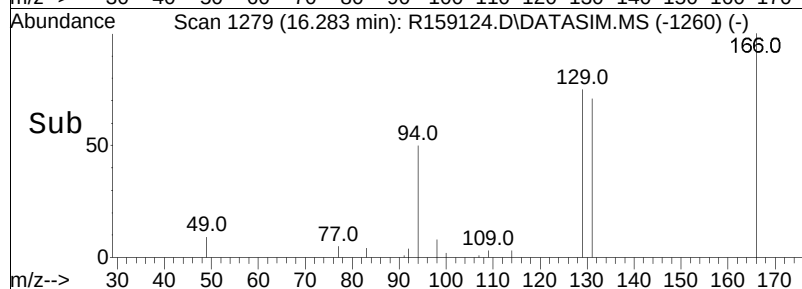
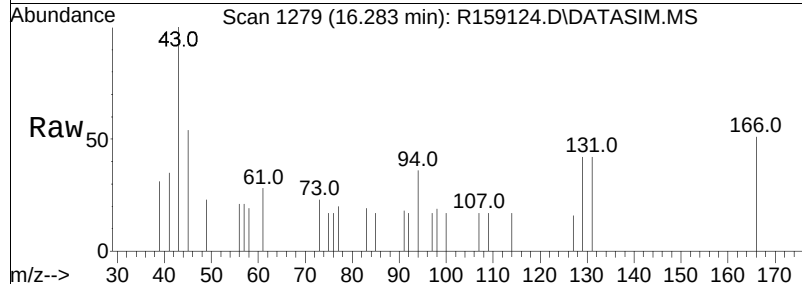
97 72.5 60.9 91.3





#57
 tetrachloroethene
 Concen: 0.02 ppbV
 RT: 16.283 min Scan# 1279
 Delta R.T. 0.000 min
 Lab File: R159124.D
 Acq: 2 May 2018 8:48 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	82.0	63.7	95.5
94	70.1	42.1	63.1



Manual Integration/Negative Proof Report

Data Path	: 0:\Forensics\Data\AIR1\2018Q	Method	: TSIM180226.M
Data File	: R159124.D	Operator	: AIRPIAN01:MB
Date Inj'd	: 5/2/2018 8:48 pm	Instrument	: Air Piano 1
Sample	: L1815200-06,3,250,250	Quant Date	: 5/3/2018 6:45 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159125.D
 Acq On : 2 May 2018 9:21 pm
 Operator : AIRPIAN01:MB
 Sample : L1815200-08,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 03 08:21:54 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : 9_Chlorinateds - .

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

Internal Standards						
1) bromochloromethane	10.181	49	146464	10.000	ppbV	0.00
Standard Area = 171514			Recovery =		85.39%	
33) 1,4-difluorobenzene	12.401	114	183389	10.000	ppbV	0.00
Standard Area = 248964			Recovery =		73.66%	
51) chlorobenzene-D5	16.823	54	52794	10.000	ppbV	0.00
Standard Area = 64233			Recovery =		82.19%	

System Monitoring Compounds

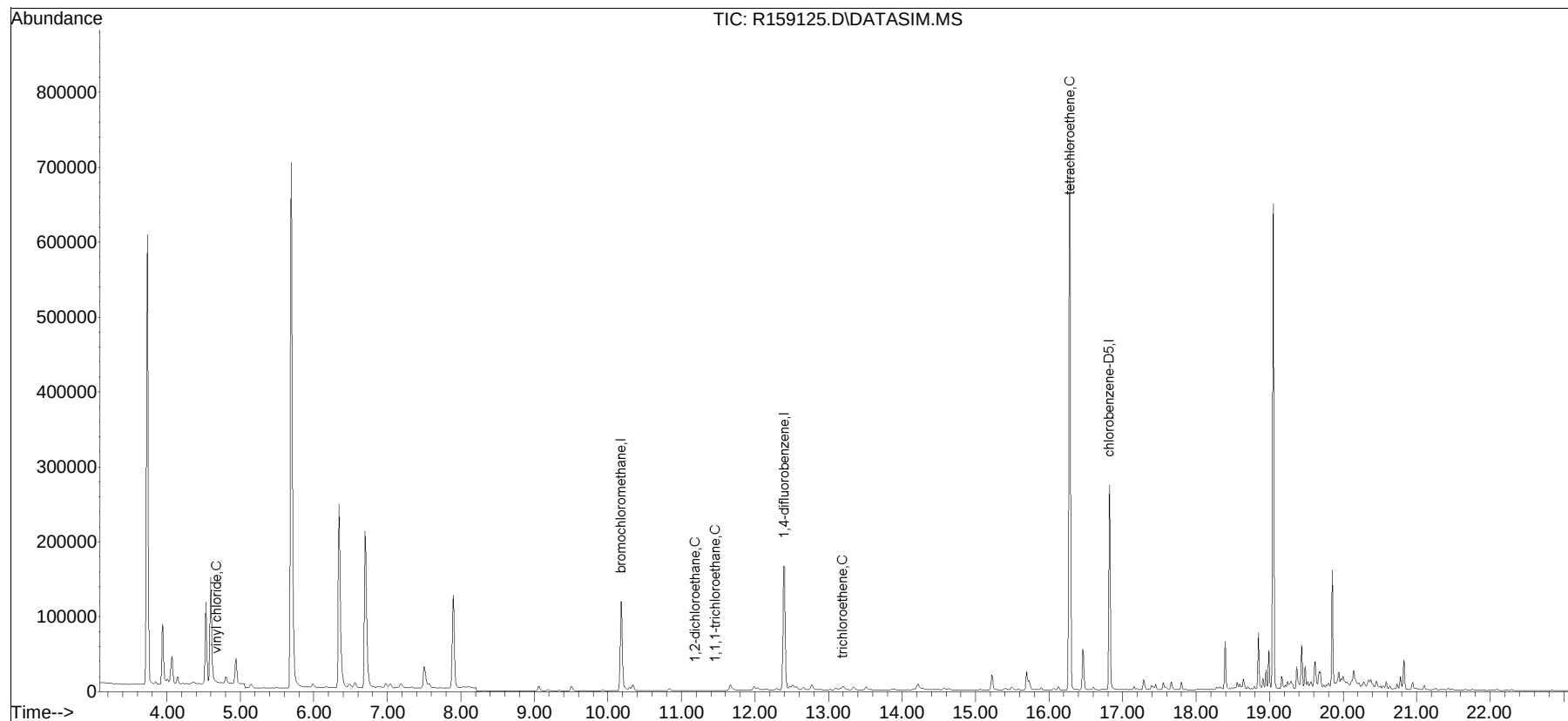
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.677	62	113M4	0.013	ppbV	
17) 1,1-dichloroethene	7.395		0	N.D.		
23) trans-1,2-dichloroethene	8.754		0	N.D.		
28) cis-1,2-dichloroethene	9.988		0	N.D.		
44) trichloroethene	13.193	130	1939	0.258	ppbV	99
57) tetrachloroethene	16.283	166	304557	33.571	ppbV	97

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

Sub List : 9_Chlorinateds - .AIR1\2018\180502SIM\R159114.D

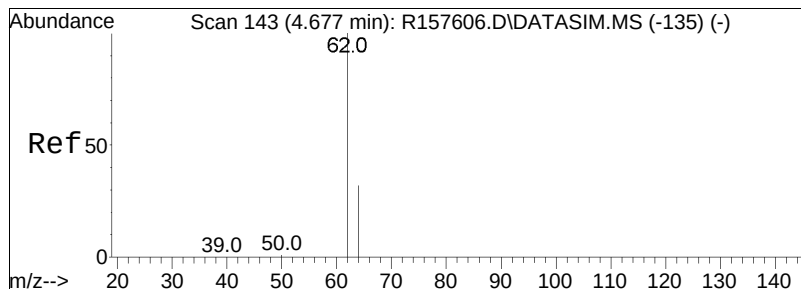
Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
Data File : R159125.D
Acq On : 2 May 2018 9:21 pm
Operator : AIRPIAN01:MB
Sample : L1815200-08,3,250,250
Misc : WG1111916,ICAL14483
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 03 08:21:54 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



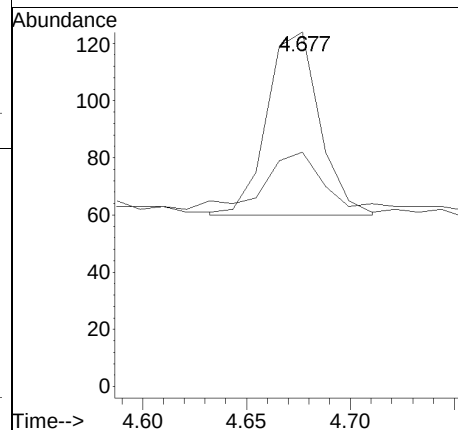
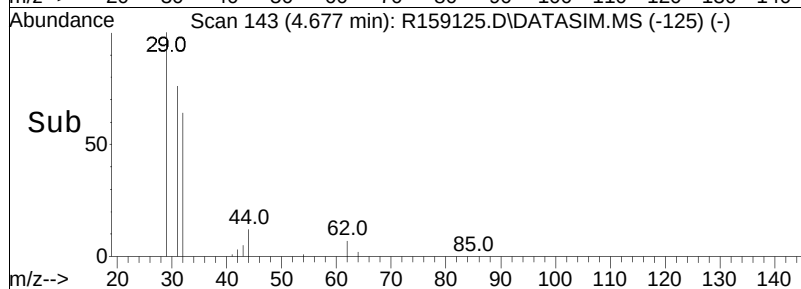
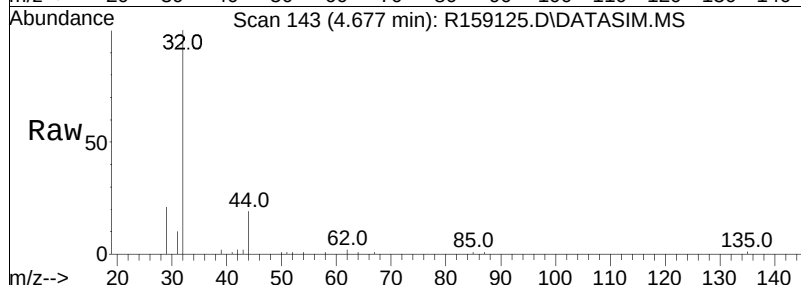
TSIM180226.M Thu May 03 08:27:56 2018

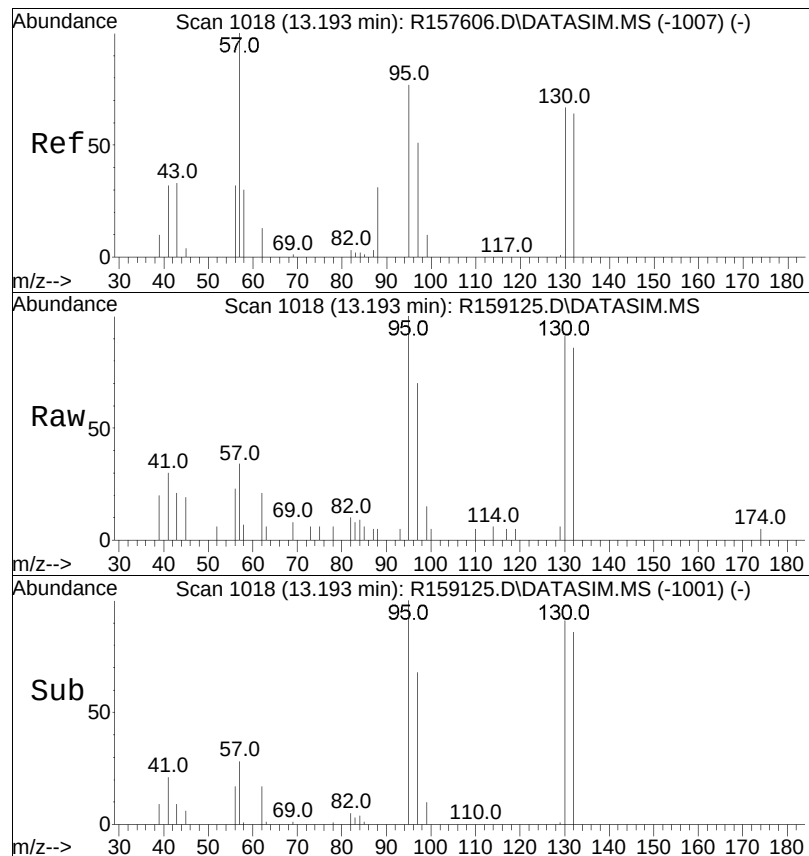
Page 2



#6
vinyl chloride
Concen: 0.01 ppbV m
RT: 4.677 min Scan# 143
Delta R.T. 0.000 min
Lab File: R159125.D
Acq: 2 May 2018 9:21 pm

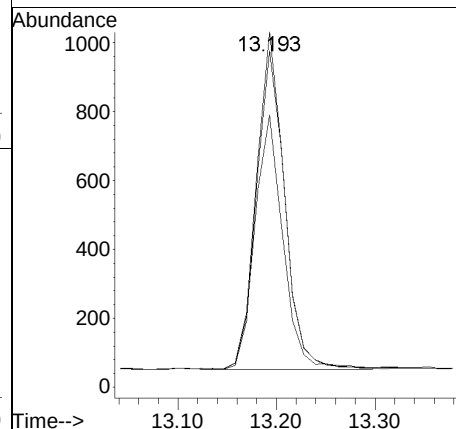
Tgt Ion: 62 Resp: 113
Ion Ratio Lower Upper
62 100
64 66.1 25.5 38.3#

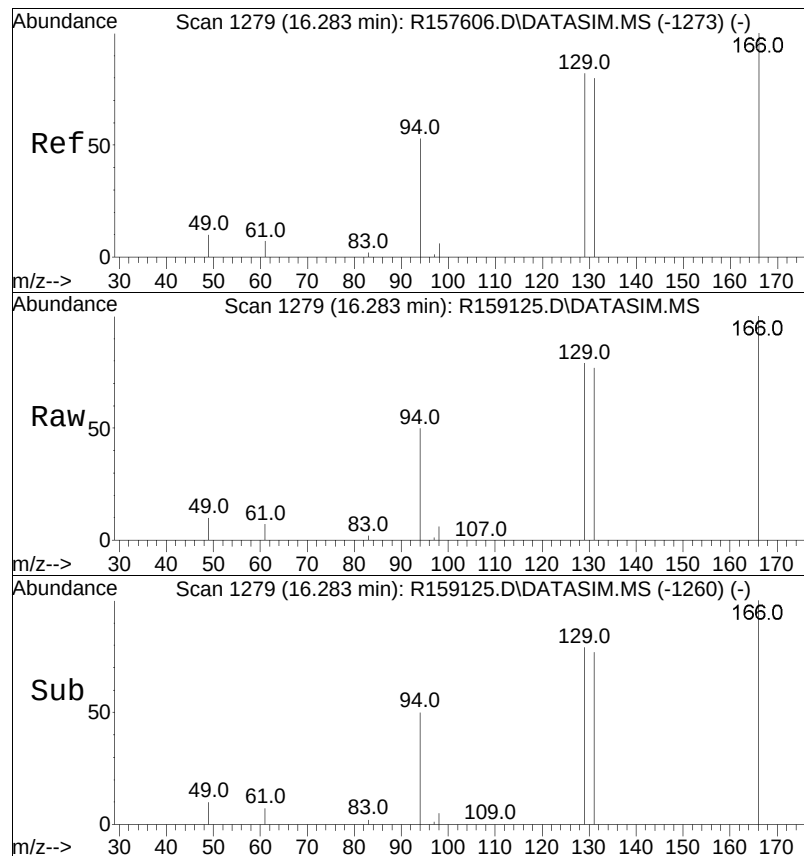




#44
trichloroethene
Concen: 0.26 ppbV
RT: 13.193 min Scan# 1018
Delta R.T. 0.000 min
Lab File: R159125.D
Acq: 2 May 2018 9:21 pm

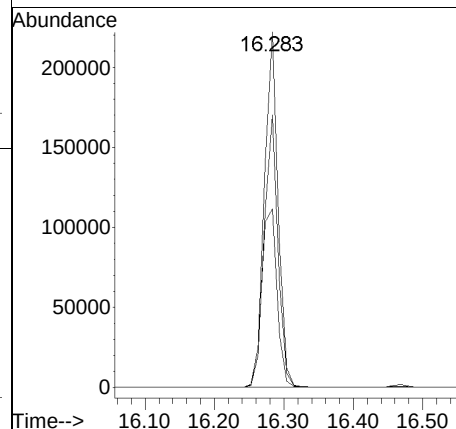
Tgt Ion	Ratio	Lower	Upper
130	100		
132	94.8	77.4	116.0
97	76.6	60.9	91.3





#57
 tetrachloroethene
 Concen: 33.57 ppbV
 RT: 16.283 min Scan# 1279
 Delta R.T. 0.000 min
 Lab File: R159125.D
 Acq: 2 May 2018 9:21 pm

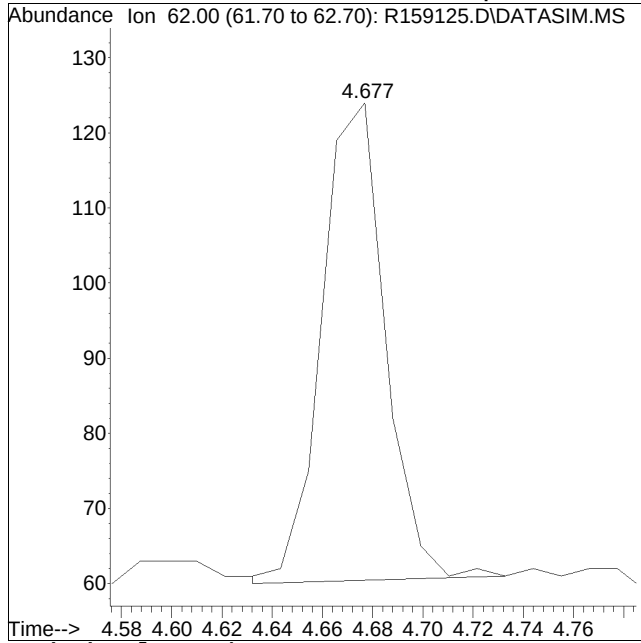
Tgt Ion	Ratio	Lower	Upper
166	100		
131	76.6	63.7	95.5
94	50.3	42.1	63.1



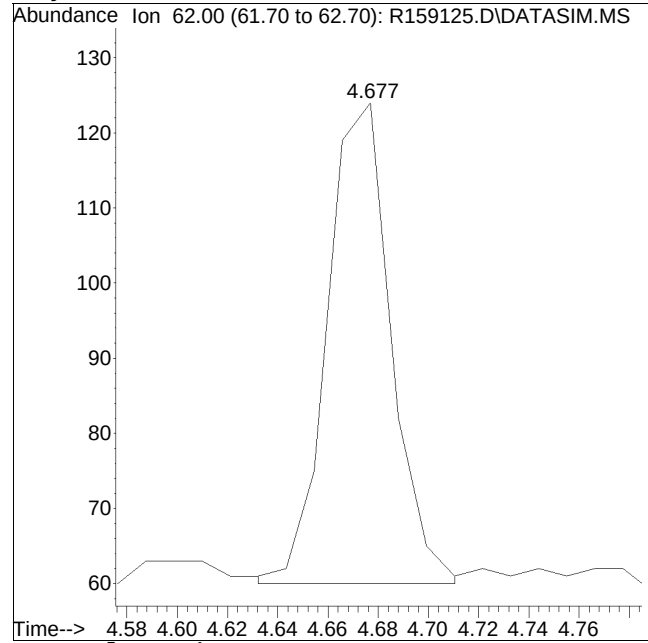
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159125.D Operator : AIRPIAN01:MB
Date Inj'd : 5/2/2018 9:21 pm Instrument : Air Piano 1
Sample : L1815200-08,3,250,250 Quant Date : 5/3/2018 6:45 am

Compound #6: vinyl chloride



Original Peak Response = 112



Manual Peak Response = 113 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159126.D
 Acq On : 2 May 2018 9:53 pm
 Operator : AIRPIAN01:MB
 Sample : L1815200-09,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 03 06:45:28 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : 9_Chlorinateds - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.181	49	142102	10.000	ppbV	0.00
Standard Area = 171514			Recovery =		82.85%	
33) 1,4-difluorobenzene	12.401	114	188522	10.000	ppbV	0.00
Standard Area = 248964			Recovery =		75.72%	
51) chlorobenzene-D5	16.822	54	49811	10.000	ppbV	0.00
Standard Area = 64233			Recovery =		77.55%	

System Monitoring Compounds

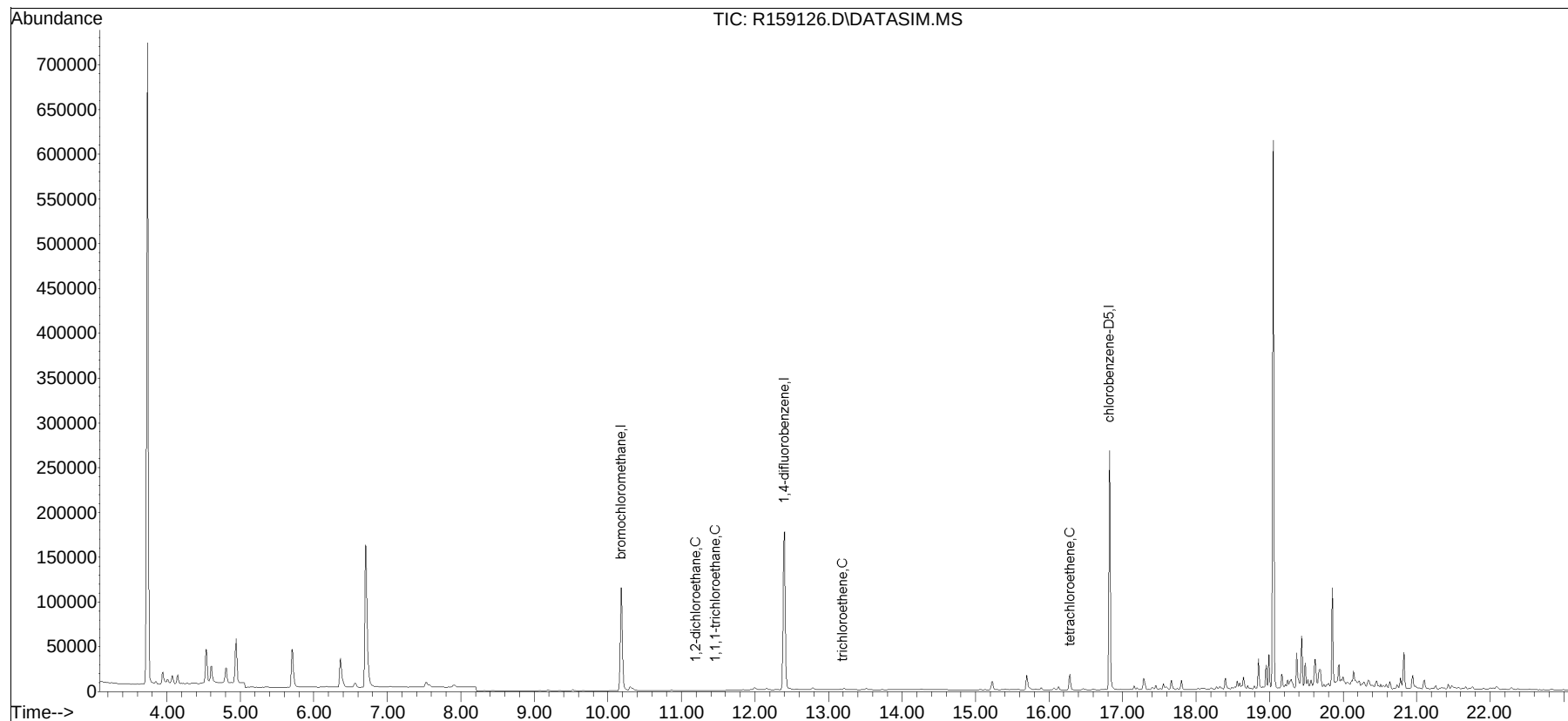
Target Compounds					Qvalue
6) vinyl chloride	4.632		0	N.D.	
17) 1,1-dichloroethene	7.413		0	N.D.	
23) trans-1,2-dichloroethene	8.753		0	N.D.	
28) cis-1,2-dichloroethene	9.996		0	N.D.	
44) trichloroethene	13.193	130	168	0.022 ppbV #	90
57) tetrachloroethene	16.283	166	7825	0.914 ppbV	98

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

Sub List : 9_Chlorinateds - .AIR1\2018\180502SIM\R159114.D

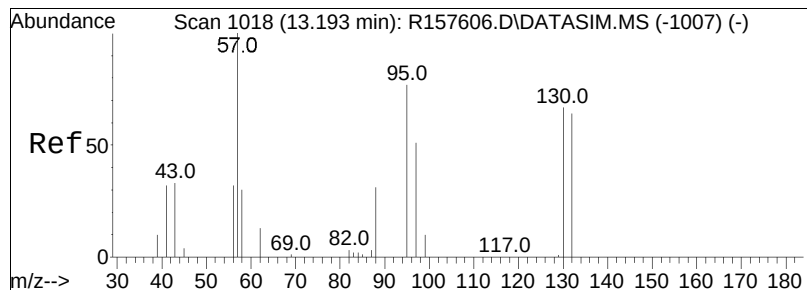
Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
Data File : R159126.D
Acq On : 2 May 2018 9:53 pm
Operator : AIRPIAN01:MB
Sample : L1815200-09,3,250,250
Misc : WG1111916,ICAL14483
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 03 06:45:28 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



TSIM180226.M Thu May 03 08:28:01 2018

Page 2



#44

trichloroethene

Concen: 0.02 ppbV

RT: 13.193 min Scan# 1018

Delta R.T. -0.000 min

Lab File: R159126.D

Acq: 2 May 2018 9:53 pm

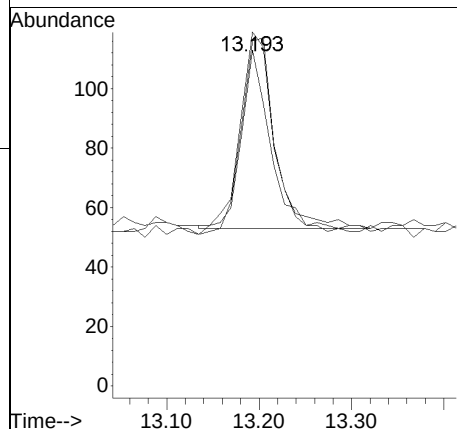
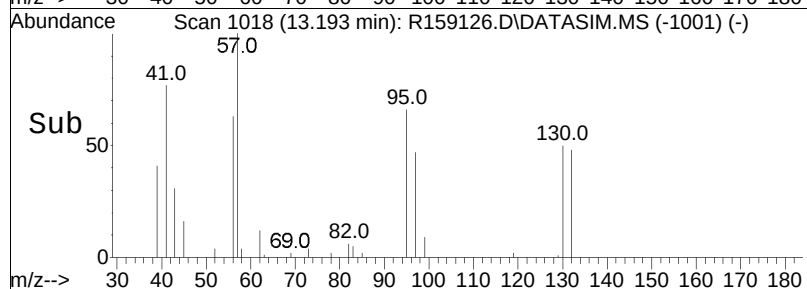
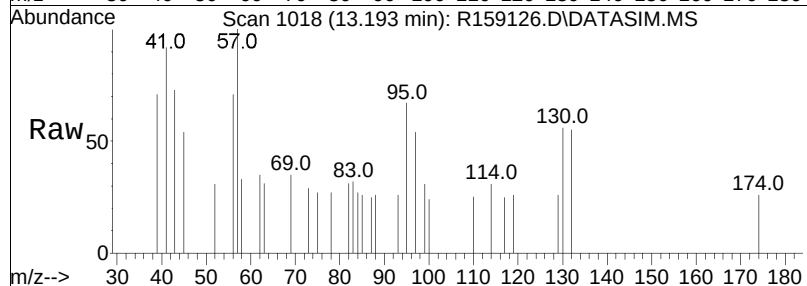
Tgt Ion:130 Resp: 168

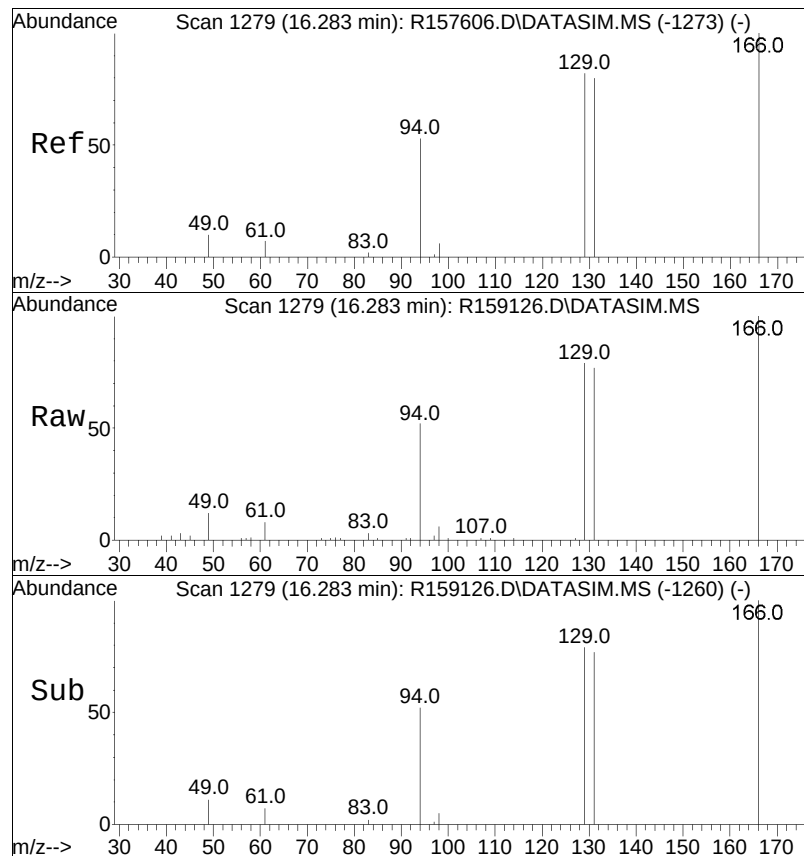
Ion Ratio Lower Upper

130 100

132 97.5 77.4 116.0

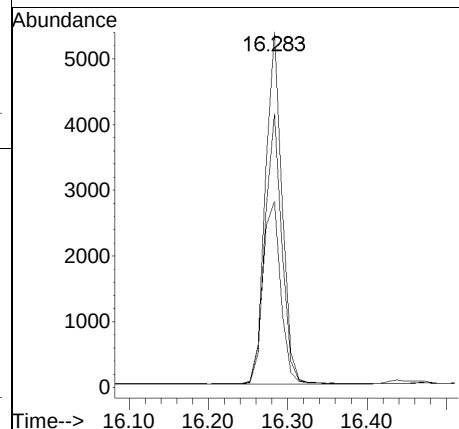
97 95.0 60.9 91.3#





#57
 tetrachloroethene
 Concen: 0.91 ppbV
 RT: 16.283 min Scan# 1279
 Delta R.T. -0.000 min
 Lab File: R159126.D
 Acq: 2 May 2018 9:53 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	77.1	63.7	95.5
94	52.4	42.1	63.1



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159126.D Operator : AIRPIAN01:MB
Date Inj'd : 5/2/2018 9:53 pm Instrument : Air Piano 1
Sample : L1815200-09,3,250,250 Quant Date : 5/3/2018 6:45 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRPIANO1
 Calibration dates : 02/26/18 22:00 02/27/18 02:50

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Ical Ref : ICAL14483

Calibration Files

0.02=R157600.D 0.04=R157601.D 0.1 =R157602.D 0.2 =R157603.D 0.5 =R157604.D 1.0 =R157605.D
 5.0 =R157606.D 10.0=R157607.D 20.0=R157608.D 50.0=R157609.D

Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1) I bromochloromethane	-----ISTD-----											
2) propylene				0.646	0.581	0.558	0.482	0.500	0.462	0.438	0.5239	14.15
3) dichlorodifluoromethane	1.141	1.128	0.982	1.268	1.229	1.037	1.154	1.071	1.275	0.939	1.1223	10.31
4) C chloromethane		0.609	0.600	0.639	0.608	0.602	0.575	0.566	0.531	0.467	0.5775	8.95
5) Freon-114	1.461	1.420	1.394	1.555	1.550	1.521	1.465	1.398	1.377	1.201	1.4343	7.28
6) C vinyl chloride	0.603	0.586	0.583	0.649	0.632	0.624	0.604	0.579	0.565	0.500	0.5926	7.05
7) C 1,3-butadiene	0.431	0.414	0.390	0.435	0.424	0.420	0.409	0.401	0.383	0.342	0.4049	6.86
8) C bromomethane	0.561	0.496	0.486	0.536	0.531	0.498	0.516	0.472	0.481	0.414	0.4989	8.17
9) C chloroethane	0.351	0.277	0.266	0.300	0.289	0.284	0.279	0.257	0.259	0.228	0.2790	11.61
10) ethanol				0.660	0.504	0.452	0.429	0.444	0.399	0.337	0.4608	22.08
11) C vinyl bromide	0.490	0.441	0.424	0.465	0.477	0.467	0.452	0.434	0.450	0.387	0.4487	6.55
12) C acrolein	0.356	0.289	0.262	0.250	0.237	0.233	0.232	0.228	0.230	0.194	0.2510	17.65
13) acetone				0.946	0.819	0.796	0.703	0.711	0.715	0.591	0.7546	14.85
14) trichlorofluoromethane	1.315	1.225	1.243	1.339	1.333	1.307	1.277	1.225	1.259	1.086	1.2608	5.91
15) isopropyl alcohol				1.685	1.203	1.043	0.850	0.840	0.856	0.726	1.0289	32.01#
16) C acrylonitrile	0.476	0.446	0.368	0.475	0.462	0.452	0.416	0.416	0.415	0.359	0.4285	9.66
17) C 1,1-dichloroethene	1.004	0.964	0.938	1.033	1.030	1.002	0.980	0.962	0.949	0.830	0.9692	6.07
18) tertiary butyl alcohol			1.313	1.194	1.150	1.149	1.107	1.104	1.072	0.952	1.1301	9.14
19) C methylene chloride				0.827	0.830	0.792	0.786	0.759	0.663	0.7761		7.92
20) C 3-chloropropene				0.883	0.821	0.811	0.801	0.822	0.781	0.696	0.8021	7.01
21) C carbon disulfide			1.607	1.686	1.647	1.595	1.596	1.532	1.579	1.323	1.5705	6.99
22) Freon 113	1.030	0.956	0.940	1.043	1.057	1.022	1.007	0.953	1.005	0.851	0.9864	6.29
23) trans-1,2-dichloroethene	0.900	0.871	0.864	0.967	0.935	0.926	0.890	0.884	0.897	0.821	0.8954	4.55
24) C 1,1-dichloroethane	1.143	1.094	1.082	1.203	1.173	1.169	1.116	1.094	1.111	1.004	1.1190	5.08
25) C MTBE	1.405	1.273	1.277	1.382	1.393	1.395	1.303	1.303	1.310	1.203	1.3244	5.05
26) C vinyl acetate				1.255	1.174	1.221	1.327	1.367	1.328	1.2787		5.79
27) C 2-butanone				1.439	1.369	1.359	1.312	1.388	1.349	1.229	1.3493	4.87
28) cis-1,2-dichloroethene	0.987	0.930	0.957	1.043	1.024	1.001	0.978	0.956	0.960	0.881	0.9718	4.79
29) Ethyl Acetate			0.218	0.193	0.222	0.230	0.221	0.232	0.241	0.220	0.2221	6.38
30) C chloroform	1.416	1.336	1.330	1.445	1.423	1.396	1.368	1.348	1.384	1.256	1.3703	4.05
31) Tetrahydrofuran			0.824	0.762	0.682	0.718	0.739	0.787	0.748	0.707	0.7457	6.12
32) C 1,2-dichloroethane	0.877	0.864	0.838	0.897	0.863	0.840	0.834	0.833	0.825	0.760	0.8432	4.38
33) I 1,4-difluorobenzene	-----ISTD-----											
34) C hexane	0.828	0.788	0.778	0.841	0.822	0.754	0.755	0.793	0.782	0.729	0.7870	4.54
35) s 1,2-dichloroethane-D4	0.390	0.385	0.406	0.403	0.396	0.380	0.367	0.396	0.380	0.374	0.3878	3.24
36) C 1,1,1-trichloroethane	0.773	0.735	0.738	0.794	0.785	0.735	0.729	0.755	0.740	0.713	0.7496	3.51
37) C benzene		1.181	1.140	1.227	1.167	1.130	1.101	1.151	1.125	1.042	1.1403	4.54
38) C carbon tetrachloride	0.702	0.711	0.690	0.754	0.716	0.696	0.703	0.732	0.736	0.691	0.7130	2.99



Initial Calibration Summary

Form 6

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRPIANO1
 Calibration dates : 02/26/18 22:00 02/27/18 02:50

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Ical Ref : ICAL14483

Calibration Files

0.02=R157600.D 0.04=R157601.D 0.1 =R157602.D 0.2 =R157603.D 0.5 =R157604.D 1.0 =R157605.D
 5.0 =R157606.D 10.0=R157607.D 20.0=R157608.D 50.0=R157609.D

Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
39) cyclohexane	0.639	0.616	0.631	0.687	0.664	0.614	0.625	0.661	0.639	0.596	0.6373	4.25
40) dibromomethane	0.714	0.568	0.493	0.505	0.463	0.456	0.450	0.462	0.462	0.435	0.5008	16.77
41) C 1,2-dichloropropane	0.508	0.524	0.498	0.556	0.521	0.508	0.505	0.518	0.512	0.482	0.5132	3.74
42) bromodichloromethane	0.884	0.849	0.818	0.913	0.883	0.865	0.874	0.907	0.898	0.853	0.8744	3.34
43) C 1,4-dioxane	0.206	0.203	0.215	0.224	0.213	0.223	0.232	0.241	0.230	0.2207	5.69	
44) C trichloroethene	0.428	0.413	0.363	0.436	0.409	0.409	0.408	0.416	0.422	0.401	0.4104	4.76
45) C 2,2,4-trimethylpentane	2.056	1.979	2.002	2.255	2.151	2.049	2.020	2.123	2.044	1.925	2.0602	4.59
46) heptane	0.857	0.855	0.861	0.938	0.903	0.851	0.845	0.919	0.851	0.808	0.8688	4.48
47) C cis-1,3-dichloropropene	2.349	2.228	2.294	2.553	2.505	2.438	2.580	2.753	2.696	2.606	2.5002	6.87
48) C 4-methyl-2-pentanone	0.759	0.853	0.991	1.124	1.109	1.082	1.160	1.278	1.169	1.132	1.0659	14.66
49) trans-1,3-dichloropropene	0.520	0.488	0.530	0.594	0.596	0.585	0.649	0.648	0.675	0.659	0.5944	10.87
50) C 1,1,2-trichloroethane	0.422	0.410	0.413	0.465	0.447	0.447	0.447	0.454	0.456	0.424	0.4385	4.46
51) I chlorobenzene-D5	-----ISTD-----											
52) C toluene	4.478	4.308	4.562	4.372	4.557	4.607	4.438	4.614	4.240	4.4640	3.02	
53) s toluene-D8	3.243	3.087	3.175	3.065	3.043	3.299	3.301	3.143	3.331	3.212	3.1898	3.27
54) 2-hexanone	2.643	2.928	3.485	3.650	4.101	4.189	4.255	3.829	3.6350	16.29		
55) dibromochloromethane	2.424	2.243	2.246	2.457	2.414	2.558	2.702	2.623	2.863	2.712	2.5240	8.09
56) C 1,2-dibromoethane	2.357	2.279	2.214	2.451	2.398	2.498	2.645	2.540	2.710	2.546	2.4637	6.34
57) C tetrachloroethene	1.676	1.650	1.556	1.720	1.638	1.738	1.789	1.690	1.902	1.824	1.7184	5.82
58) 1,1,1,2-tetrachloroethane	1.652	1.650	1.473	1.681	1.604	1.706	1.787	1.710	1.859	1.757	1.6879	6.26
59) C chlorobenzene	3.165	3.161	3.053	3.412	3.263	3.417	3.516	3.368	3.610	3.409	3.3373	5.21
60) C ethylbenzene	5.946	5.470	5.162	5.850	5.497	5.808	6.035	5.893	6.168	5.715	5.7546	5.24
61) C m+p-xylene	4.501	4.131	3.932	4.501	4.306	4.506	4.751	4.673	4.860	4.410	4.4569	6.29
62) C bromoform	2.509	2.079	1.910	2.132	2.068	2.195	2.421	2.413	2.646	2.590	2.2964	10.95
63) C styrene	2.527	2.562	2.471	2.908	2.859	3.058	3.332	3.300	3.511	3.293	2.9822	12.60
64) C 1,1,2,2-tetrachloroethane	3.936	3.664	3.626	4.070	3.896	4.122	4.343	4.251	4.519	3.974	4.0401	7.01
65) C o-xylene	4.798	4.433	4.281	4.714	4.456	4.676	4.952	4.840	5.088	4.575	4.6814	5.34
66) 1,2,3-trichloropropane	3.007	2.723	2.781	3.163	3.033	3.091	3.257	3.213	3.302	3.055	3.0626	6.23
67) s bromofluorobenzene	1.779	1.736	1.765	1.745	1.697	1.812	1.843	1.795	1.913	1.860	1.7947	3.59
68) C isopropylbenzene	5.515	4.945	4.939	5.467	5.265	5.397	5.534	5.638	5.960	5.417	5.4078	5.66
69) bromobenzene	3.280	3.125	3.153	3.560	3.362	3.498	3.644	3.636	3.880	3.568	3.4705	6.87
70) 4-ethyl toluene	4.847	4.710	4.818	5.526	5.460	5.677	6.212	6.162	6.263	5.890	5.5564	10.73
71) 1,3,5-trimethylbenzene	4.707	4.186	4.264	4.807	4.660	4.840	5.235	5.195	5.288	5.007	4.8190	7.94
72) tert-butylbenzene	4.361	4.114	3.969	4.589	4.433	4.608	5.076	5.066	5.032	4.414	4.5662	8.55
73) 1,2,4-trimethylbenzene	4.094	4.064	4.051	4.639	4.548	4.836	5.376	5.413	5.372	4.724	4.7117	11.53
74) C Benzyl Chloride	3.420	3.493	3.744	4.733	4.955	5.139	5.036	4.3603	17.70			
75) 1,3-dichlorobenzene	2.745	2.550	2.650	3.049	2.974	3.173	3.528	3.501	3.532	3.530	3.1232	12.47
76) C 1,4-dichlorobenzene	2.794	2.794	2.737	3.123	3.113	3.254	3.583	3.577	3.552	3.614	3.2141	11.08



Initial Calibration Summary

Form 6

Client : Roux Envr. Engr. & Geology, DPC
Project Name : OCEANSIDE PLAZA
Instrument ID : AIRPIANO1
Calibration dates : 02/26/18 22:00 02/27/18 02:50

Lab Number : L1815200
Project Number : 1802.0001Y000
Ical Ref : ICAL14483

Calibration Files

0.02=R157600.D 0.04=R157601.D 0.1 =R157602.D 0.2 =R157603.D 0.5 =R157604.D 1.0 =R157605.D
 5.0 =R157606.D 10.0=R157607.D 20.0=R157608.D 50.0=R157609.D

Compound		0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
77)	sec-butylbenzene	6.013	5.946	5.952	6.775	6.637	6.958	7.578	7.553	7.369	6.701	6.7482	9.37
78)	p-isopropyltoluene	5.047	4.805	4.647	5.333	5.219	5.572	6.045	6.128	5.768	5.354	5.3920	9.16
79)	1,2-dichlorobenzene	2.594	2.485	2.548	2.894	2.868	3.058	3.295	3.328	3.173	3.362	2.9605	11.30
80)	n-butylbenzene	4.428	4.501	5.026	5.772	5.978	6.350	6.953	7.074	6.240	6.323	5.8645	15.96
81) C	1,2,4-trichlorobenzene	1.445	1.593	1.678	2.044	2.296	2.809	3.055	1.940	2.547	2.1562	2.1562	26.01
82)	naphthalene	4.761	4.481	5.952	5.386	5.570	7.006	7.195	4.288	5.577	5.5796	5.5796	18.33
83)	1,2,3-trichlorobenzene	1.290	1.527	1.496	1.885	2.144	2.714	2.933	1.649	2.240	1.9865	1.9865	28.57
84) C	hexachlorobutadiene	1.475	1.587	1.550	1.800	1.943	2.314	2.507	1.478	2.095	1.8610	1.8610	20.42

Initial Calibration Summary

Form 6

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Calibration dates : 04/04/18 18:10 04/04/18 23:39

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Ical Ref : ICAL14605

Calibration Files

0.02=r156844_Ev2.D 0.04=r156845_Ev2.D 0.1 =r156846_Ev2.D 0.2 =r156847_Ev2.D 0.5 =r156848_Ev2.D
 1.0 =r156849_Ev2.D 5.0 =r156850_Ev2.D 10.0=r156851_Ev2.D 20.0=r156852_Ev2.D 50.0=r156853_Ev2.D

Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1) I bromochloromethane	-----ISTD-----											
2) propylene			0.808	0.869	0.806	0.793	0.724	0.715	0.699	0.530	0.7430	13.93
3) dichlorodifluoromethane	1.557	1.386	1.305	1.523	1.414	1.388	1.279	1.301	1.288	0.993	1.3434	11.64
4) C chloromethane		0.849	0.762	0.885	0.822	0.801	0.755	0.857	0.856	0.676	0.8071	8.18
5) Freon-114	1.648	1.616	1.558	1.797	1.699	1.653	1.530	1.667	1.727	1.379	1.6274	7.18
6) C vinyl chloride	0.903	0.830	0.762	0.893	0.832	0.817	0.757	0.784	0.794	0.660	0.8033	8.74
7) C 1,3-butadiene	0.685	0.711	0.585	0.698	0.645	0.636	0.601	0.662	0.699	0.572	0.6493	7.73
8) C bromomethane	0.576	0.784	0.638	0.751	0.690	0.665	0.621	0.621	0.648	0.544	0.6537	11.23
9) C chloroethane	0.579	0.418	0.351	0.463	0.424	0.423	0.272	0.400	0.419	0.347	0.4096	19.70
10) ethanol					0.706	0.655	0.613	0.604	0.644	0.514	0.6226	10.33
11) C vinyl bromide	0.831	0.705	0.619	0.704	0.667	0.642	0.609	0.613	0.636	0.515	0.6543	12.63
12) acrolein	0.658	0.456	0.304	0.384	0.349	0.321	0.317	0.321	0.352	0.305	0.3769	28.96
13) acetone			1.303	1.169	1.073	0.904	0.855	0.842	0.599	0.9634	24.41	
14) trichlorofluoromethane	1.369	1.345	1.251	1.473	1.401	1.335	1.237	1.176	1.099	0.850	1.2536	14.36
15) isopropyl alcohol			2.101	1.512	1.294	1.143	1.062	1.150	0.865	1.3039	30.99#	
16) C acrylonitrile	0.677	0.650	0.522	0.656	0.616	0.605	0.595	0.598	0.656	0.565	0.6141	7.75
17) C 1,1-dichloroethene	1.155	1.090	1.083	1.252	1.168	1.131	1.056	1.013	1.006	0.830	1.0783	10.64
18) tertiary butyl alcohol	1.497	1.409	1.232	1.344	1.203	1.107	1.140	1.054	1.164	0.995	1.2145	13.12
19) C methylene chloride				1.108	1.078	0.998	0.977	1.015	0.827	1.0003	9.86	
20) C 3-chloropropene			1.297	1.238	1.231	1.377	1.130	1.102	0.869	1.1776	14.03	
21) C carbon disulfide			2.189	2.112	2.077	2.047	2.062	2.195	1.846	2.0754	5.65	
22) Freon 113	1.565	1.338	1.307	1.508	1.386	1.367	1.258	1.222	1.226	1.021	1.3199	11.68
23) trans-1,2-dichloroethene	1.159	1.079	1.016	1.247	1.170	1.137	1.068	1.027	1.021	0.847	1.0771	10.27
24) C 1,1-dichloroethane	1.591	1.332	1.388	1.641	1.457	1.431	1.325	1.289	1.256	1.015	1.3725	12.91
25) C MTBE	1.922	1.867	1.662	1.927	2.006	1.922	1.805	1.765	1.781	1.401	1.8056	9.63
26) C vinyl acetate		1.835	2.004	2.049	2.037	1.825	2.106	1.780	1.388	1.8779	12.35	
27) C 2-butanone			2.192	2.075	2.010	1.786	1.904	1.957	1.243	1.8809	16.43	
28) cis-1,2-dichloroethene	1.132	1.060	0.966	1.160	1.086	1.100	1.031	1.011	1.016	0.844	1.0408	8.74
29) Ethyl Acetate			0.295	0.281	0.268	0.263	0.256	0.267	0.239	0.2669	6.75	
30) C chloroform	1.452	1.244	1.201	1.399	1.333	1.325	1.242	1.202	1.217	1.032	1.2646	9.39
31) Tetrahydrofuran		1.110	1.281	1.238	1.220	1.202	1.192	1.224	1.037	1.1880	6.55	
32) C 1,2-dichloroethane	1.016	0.995	0.917	1.063	0.988	0.956	0.893	0.853	0.831	0.649	0.9160	12.99
33) I 1,4-difluorobenzene	-----ISTD-----											
34) C hexane		0.595	0.658	0.635	0.649	0.622	0.608	0.622	0.534	0.6154	6.30	
35) s 1,2-dichloroethane-D4	0.273	0.278	0.272	0.275	0.272	0.274	0.272	0.267	0.249	0.204	0.2634	8.53
36) C 1,1,1-trichloroethane	0.530	0.395	0.380	0.509	0.538	0.560	0.491	0.547	0.554	0.433	0.4937	13.66
37) C benzene		1.163	1.106	1.257	1.172	1.187	1.118	1.109	1.175	1.053	1.1490	5.15
38) C carbon tetrachloride	0.510	0.471	0.424	0.483	0.469	0.472	0.456	0.457	0.470	0.387	0.4598	7.29



Initial Calibration Summary

Form 6

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Calibration dates : 04/04/18 18:10 04/04/18 23:39

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Ical Ref : ICAL14605

Calibration Files

0.02=r156844_Ev2.D 0.04=r156845_Ev2.D 0.1 =r156846_Ev2.D 0.2 =r156847_Ev2.D 0.5 =r156848_Ev2.D
 1.0 =r156849_Ev2.D 5.0 =r156850_Ev2.D 10.0=r156851_Ev2.D 20.0=r156852_Ev2.D 50.0=r156853_Ev2.D

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
39)	cyclohexane	0.606	0.645	0.617	0.663	0.657	0.678	0.651	0.638	0.672	0.594	0.6421	4.44
40)	Dibromomethane	0.556	0.493	0.385	0.408	0.373	0.373	0.351	0.343	0.353	0.300	0.3935	19.32
41) C	1,2-dichloropropane	0.448	0.512	0.452	0.507	0.493	0.474	0.450	0.439	0.453	0.383	0.4611	8.20
42)	bromodichloromethane	0.523	0.483	0.553	0.600	0.589	0.595	0.599	0.603	0.632	0.538	0.5715	8.01
43) C	1,4-dioxane		0.246	0.199	0.269	0.230	0.233	0.233	0.225	0.253	0.232	0.2357	8.26
44) C	trichloroethene	0.547	0.419	0.428	0.472	0.445	0.428	0.419	0.423	0.445	0.401	0.4427	9.35
45) C	2,2,4-trimethylpentane	2.055	1.938	1.857	2.229	2.132	2.115	2.023	1.991	2.072	1.801	2.0212	6.41
46)	heptane	1.042	0.983	0.869	1.021	1.013	1.027	0.983	0.973	1.000	0.808	0.9718	7.71
47) C	cis-1,3-dichloropropene	0.527	0.478	0.438	0.524	0.512	0.532	0.555	0.574	0.626	0.549	0.5315	9.61
48) C	4-methyl-2-pentanone	0.976	0.912	0.903	1.087	1.077	1.139	1.101	1.119	1.169	0.928	1.0412	9.71
49)	trans-1,3-dichloropropene	0.486	0.378	0.403	0.487	0.463	0.502	0.523	0.544	0.591	0.516	0.4893	12.90
50) C	1,1,2-trichloroethane	0.506	0.431	0.406	0.451	0.421	0.429	0.414	0.411	0.436	0.382	0.4289	7.71
51) I	chlorobenzene-D5	-----ISTD-----											
52) C	toluene	7.240	6.641	6.015	7.047	6.683	6.547	6.218	6.171	6.338	5.938	6.4839	6.63
53) s	toluene-D8	4.517	4.452	4.493	4.556	4.540	4.397	4.416	4.383	4.476	4.541	4.4772	1.40
54)	2-hexanone	4.011	3.838	4.141	4.778	4.939	5.055	5.184	5.008	5.071	4.377	4.6402	10.79
55)	dibromochloromethane	1.872	2.386	2.066	2.461	2.397	2.429	2.522	2.602	2.762	2.556	2.4052	10.78
56) C	1,2-dibromoethane	3.514	3.034	2.691	3.116	3.003	2.991	2.906	2.981	3.182	2.999	3.0416	6.92
57) C	tetrachloroethene	2.041	2.372	2.131	2.473	2.263	2.267	2.161	2.137	2.277	2.219	2.2341	5.65
58)	1,1,1,2-tetrachloroethane	2.271	1.484	1.670	2.071	1.929	1.930	1.946	1.991	2.100	1.961	1.9354	11.38
59) C	chlorobenzene	5.412	4.682	4.403	5.200	4.895	4.889	4.655	4.709	5.052	4.788	4.8685	6.01
60) C	ethylbenzene	7.471	7.246	6.861	8.294	8.011	8.115	8.039	8.033	8.300	7.510	7.7880	6.25
61) C	m+p-xylene	6.131	5.866	5.663	7.030	6.800	6.820	6.589	6.678	6.751	5.973	6.4300	7.41
62) C	bromoform	2.183	1.502	1.471	1.790	1.757	1.803	1.999	2.124	2.294	2.193	1.9116	15.25
63) C	styrene	4.632	4.100	4.100	4.869	4.890	4.928	5.141	5.345	5.709	5.239	4.8954	10.50
64) C	1,1,2,2-tetrachloroethane	4.445	4.065	3.970	4.811	4.698	4.624	4.685	4.730	5.017	4.491	4.5535	7.14
65) C	o-xylene	6.451	5.722	5.700	6.990	6.798	6.881	6.866	6.790	6.944	5.996	6.5138	7.91
66)	1,2,3-Trichloropropane	3.718	3.647	3.382	4.047	3.858	3.718	3.667	3.781	3.962	3.592	3.7371	5.08
67) s	bromofluorobenzene	1.378	2.084	1.991	2.343	2.457	2.370	2.451	2.743	2.443	2.532	2.2791	16.75
68) C	isopropylbenzene	7.870	7.232	6.924	8.500	8.201	8.169	8.379	8.457	8.756	7.726	8.0215	7.29
69)	Bromobenzene	5.120	4.447	4.061	4.831	4.585	4.540	4.683	4.790	5.066	4.539	4.6661	6.63
70)	4-ethyl toluene	7.542	6.983	7.146	8.994	8.843	8.928	9.376	9.570	9.800	8.592	8.5774	11.75
71)	1,3,5-trimethylbenzene	6.326	6.210	6.185	7.928	7.805	7.896	8.125	8.189	8.389	7.327	7.4379	11.73
72)	tert-butylbenzene				7.578	7.494	7.610	7.840	8.036	8.161	6.750	7.6383	6.06
73)	1,2,4-trimethylbenzene	5.829	6.002	5.907	7.573	7.574	7.735	8.039	8.223	8.368	6.843	7.2092	13.71
74) C	Benzyl Chloride	3.026	3.003	2.981	3.575	3.832	4.038	4.819	5.219	5.977	5.637	4.2107	26.84
75)	1,3-dichlorobenzene	3.993	3.998	4.031	4.853	4.813	4.698	4.992	5.227	5.519	4.893	4.7017	11.31
76) C	1,4-dichlorobenzene	4.144	4.127	3.894	4.727	4.610	4.640	4.914	5.191	5.391	4.848	4.6487	10.29



Initial Calibration Summary

Form 6

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRLAB15
 Calibration dates : 04/04/18 18:10 04/04/18 23:39

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Ical Ref : ICAL14605

Calibration Files

0.02=r156844_Ev2.D 0.04=r156845_Ev2.D 0.1 =r156846_Ev2.D 0.2 =r156847_Ev2.D 0.5 =r156848_Ev2.D
 1.0 =r156849_Ev2.D 5.0 =r156850_Ev2.D 10.0=r156851_Ev2.D 20.0=r156852_Ev2.D 50.0=r156853_Ev2.D

Compound		0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
77)	sec-butylbenzene	0.907	0.830	0.849	1.068	1.044	1.074	1.151	1.151	1.160	0.992	1.0225	12.14
78)	p-isopropyltoluene	7.160	6.903	7.204	8.977	8.843	9.101	9.667	9.808	9.796	8.108	8.5567	13.27
79)	1,2-dichlorobenzene	3.798	3.923	3.752	4.443	4.390	4.443	4.777	4.967	5.168	4.624	4.4284	10.94
80)	n-butylbenzene	5.661	6.428	6.632	8.392	8.556	8.882	9.539	9.466	9.291	8.005	8.0852	17.08
81) C	1,2,4-trichlorobenzene	1.617	1.937	2.718	2.948	3.205	4.017	4.252	4.071	3.675	3.1600		29.89
82)	naphthalene	0.549	0.594	0.929	1.013	1.101	1.142	1.181	1.097	0.964	0.9523		24.25
83)	1,2,3-trichlorobenzene	2.159	2.085	2.698	2.837	3.060	3.809	3.973	3.637	3.312	3.0633		22.30
84) C	hexachlorobutadiene	2.245	2.203	2.247	2.730	2.679	2.767	3.359	3.400	3.009	2.697	2.7338	15.78

Response Factor Report Air Piano 1

Method Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Method File : TSIM180226.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Feb 27 08:55:14 2018
 Response Via : Initial Calibration

Calibration Files

0.02=R157600.D 0.04=R157601.D 0.1 =R157602.D 0.2 =R157603.D 0.5 =R157604.D 1.0 =R157605.D
 5.0 =R157606.D 10.0=R157607.D 20.0=R157608.D 50.0=R157609.D

Compound		0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
-----ISTD-----													
1) I	bromochloromethane												
2)	propylene				0.646	0.581	0.558	0.482	0.500	0.462	0.438	0.5239	14.15
3)	dichlorodifluorome...	1.141	1.128	0.982	1.268	1.229	1.037	1.154	1.071	1.275	0.939	1.1223	10.31
4) C	chloromethane		0.609	0.600	0.639	0.608	0.602	0.575	0.566	0.531	0.467	0.5775	8.95
5)	Freon-114	1.461	1.420	1.394	1.555	1.550	1.521	1.465	1.398	1.377	1.201	1.4343	7.28
6) C	vinyl chloride	0.603	0.586	0.583	0.649	0.632	0.624	0.604	0.579	0.565	0.500	0.5926	7.05
7) C	1,3-butadiene	0.431	0.414	0.390	0.435	0.424	0.420	0.409	0.401	0.383	0.342	0.4049	6.86
8) C	bromomethane	0.561	0.496	0.486	0.536	0.531	0.498	0.516	0.472	0.481	0.414	0.4989	8.17
9) C	chloroethane	0.351	0.277	0.266	0.300	0.289	0.284	0.279	0.257	0.259	0.228	0.2790	11.61
10)	ethanol				0.660	0.504	0.452	0.429	0.444	0.399	0.337	0.4608	22.08
11) C	vinyl bromide	0.490	0.441	0.424	0.465	0.477	0.467	0.452	0.434	0.450	0.387	0.4487	6.55
12) C	acrolein	0.356	0.289	0.262	0.250	0.237	0.233	0.232	0.228	0.230	0.194	0.2510	17.65
13)	acetone				0.946	0.819	0.796	0.703	0.711	0.715	0.591	0.7546	14.85
14)	trichlorofluoromet...	1.315	1.225	1.243	1.339	1.333	1.307	1.277	1.225	1.259	1.086	1.2608	5.91
15)	isopropyl alcohol				1.685	1.203	1.043	0.850	0.840	0.856	0.726	1.0289	32.01#
16) C	acrylonitrile	0.476	0.446	0.368	0.475	0.462	0.452	0.416	0.416	0.415	0.359	0.4285	9.66
17) C	1,1-dichloroethene	1.004	0.964	0.938	1.033	1.030	1.002	0.980	0.962	0.949	0.830	0.9692	6.07
18)	tertiary butyl alc...			1.313	1.194	1.150	1.149	1.107	1.104	1.072	0.952	1.1301	9.14
19) C	methylene chloride					0.827	0.830	0.792	0.786	0.759	0.663	0.7761	7.92
20) C	3-chloropropene				0.883	0.821	0.811	0.801	0.822	0.781	0.696	0.8021	7.01
21) C	carbon disulfide			1.607	1.686	1.647	1.595	1.596	1.532	1.579	1.323	1.5705	6.99
22)	Freon 113	1.030	0.956	0.940	1.043	1.057	1.022	1.007	0.953	1.005	0.851	0.9864	6.29
23)	trans-1,2-dichloro...	0.900	0.871	0.864	0.967	0.935	0.926	0.890	0.884	0.897	0.821	0.8954	4.55
24) C	1,1-dichloroethane	1.143	1.094	1.082	1.203	1.173	1.169	1.116	1.094	1.111	1.004	1.1190	5.08
25) C	MTBE	1.405	1.273	1.277	1.382	1.393	1.395	1.303	1.303	1.310	1.203	1.3244	5.05
26) C	vinyl acetate					1.255	1.174	1.221	1.327	1.367	1.328	1.2787	5.79
27) C	2-butanone				1.439	1.369	1.359	1.312	1.388	1.349	1.229	1.3493	4.87
28)	cis-1,2-dichloroet...	0.987	0.930	0.957	1.043	1.024	1.001	0.978	0.956	0.960	0.881	0.9718	4.79
29)	Ethyl Acetate			0.218	0.193	0.222	0.230	0.221	0.232	0.241	0.220	0.2221	6.38
30) C	chloroform	1.416	1.336	1.330	1.445	1.423	1.396	1.368	1.348	1.384	1.256	1.3703	4.05
31)	Tetrahydrofuran			0.824	0.762	0.682	0.718	0.739	0.787	0.748	0.707	0.7457	6.12

Response Factor Report Air Piano 1

Method Path : O:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Method File : TSIM180226.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Tue Feb 27 08:55:14 2018
 Response Via : Initial Calibration

Calibration Files

0.02=R157600.D 0.04=R157601.D 0.1 =R157602.D 0.2 =R157603.D 0.5 =R157604.D 1.0 =R157605.D
 5.0 =R157606.D 10.0=R157607.D 20.0=R157608.D 50.0=R157609.D

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
32) C	1,2-dichloroethane	0.877	0.864	0.838	0.897	0.863	0.840	0.834	0.833	0.825	0.760	0.8432	4.38
33) I	1,4-difluorobenzene	-----ISTD-----											
34) C	hexane	0.828	0.788	0.778	0.841	0.822	0.754	0.755	0.793	0.782	0.729	0.7870	4.54
35) s	1,2-dichloroethane-D4	0.390	0.385	0.406	0.403	0.396	0.380	0.367	0.396	0.380	0.374	0.3878	3.24
36) C	1,1,1-trichloroethane	0.773	0.735	0.738	0.794	0.785	0.735	0.729	0.755	0.740	0.713	0.7496	3.51
37) C	benzene		1.181	1.140	1.227	1.167	1.130	1.101	1.151	1.125	1.042	1.1403	4.54
38) C	carbon tetrachloride	0.702	0.711	0.690	0.754	0.716	0.696	0.703	0.732	0.736	0.691	0.7130	2.99
39)	cyclohexane	0.639	0.616	0.631	0.687	0.664	0.614	0.625	0.661	0.639	0.596	0.6373	4.25
40)	dibromomethane	0.714	0.568	0.493	0.505	0.463	0.456	0.450	0.462	0.462	0.435	0.5008	16.77
41) C	1,2-dichloropropane	0.508	0.524	0.498	0.556	0.521	0.508	0.505	0.518	0.512	0.482	0.5132	3.74
42)	bromodichloromethane	0.884	0.849	0.818	0.913	0.883	0.865	0.874	0.907	0.898	0.853	0.8744	3.34
43) C	1,4-dioxane		0.206	0.203	0.215	0.224	0.213	0.223	0.232	0.241	0.230	0.2207	5.69
44) C	trichloroethene	0.428	0.413	0.363	0.436	0.409	0.409	0.408	0.416	0.422	0.401	0.4104	4.76
45) C	2,2,4-trimethylpen...	2.056	1.979	2.002	2.255	2.151	2.049	2.020	2.123	2.044	1.925	2.0602	4.59
46)	heptane	0.857	0.855	0.861	0.938	0.903	0.851	0.845	0.919	0.851	0.808	0.8688	4.48
47) C	cis-1,3-dichloropr...	2.349	2.228	2.294	2.553	2.505	2.438	2.580	2.753	2.696	2.606	2.5002	6.87
48) C	4-methyl-2-pentanone	0.759	0.853	0.991	1.124	1.109	1.082	1.160	1.278	1.169	1.132	1.0659	14.66
49)	trans-1,3-dichloro...	0.520	0.488	0.530	0.594	0.596	0.585	0.649	0.648	0.675	0.659	0.5944	10.87
50) C	1,1,2-trichloroethane	0.422	0.410	0.413	0.465	0.447	0.447	0.447	0.454	0.456	0.424	0.4385	4.46
51) I	chlorobenzene-D5	-----ISTD-----											
52) C	toluene		4.478	4.308	4.562	4.372	4.557	4.607	4.438	4.614	4.240	4.4640	3.02
53) s	toluene-D8	3.243	3.087	3.175	3.065	3.043	3.299	3.301	3.143	3.331	3.212	3.1898	3.27
54)	2-hexanone			2.643	2.928	3.485	3.650	4.101	4.189	4.255	3.829	3.6350	16.29
55)	dibromochloromethane	2.424	2.243	2.246	2.457	2.414	2.558	2.702	2.623	2.863	2.712	2.5240	8.09
56) C	1,2-dibromoethane	2.357	2.279	2.214	2.451	2.398	2.498	2.645	2.540	2.710	2.546	2.4637	6.34
57) C	tetrachloroethene	1.676	1.650	1.556	1.720	1.638	1.738	1.789	1.690	1.902	1.824	1.7184	5.82
58)	1,1,1,2-tetrachlor...	1.652	1.650	1.473	1.681	1.604	1.706	1.787	1.710	1.859	1.757	1.6879	6.26
59) C	chlorobenzene	3.165	3.161	3.053	3.412	3.263	3.417	3.516	3.368	3.610	3.409	3.3373	5.21
60) C	ethylbenzene	5.946	5.470	5.162	5.850	5.497	5.808	6.035	5.893	6.168	5.715	5.7546	5.24
61) C	m+p-xylene	4.501	4.131	3.932	4.501	4.306	4.506	4.751	4.673	4.860	4.410	4.4569	6.29

Response Factor Report Air Piano 1

Method Path : O:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Method File : TSIM180226.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Feb 27 08:55:14 2018
 Response Via : Initial Calibration

Calibration Files

0.02=R157600.D 0.04=R157601.D 0.1 =R157602.D 0.2 =R157603.D 0.5 =R157604.D 1.0 =R157605.D
 5.0 =R157606.D 10.0=R157607.D 20.0=R157608.D 50.0=R157609.D

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
62)	C bromoform	2.509	2.079	1.910	2.132	2.068	2.195	2.421	2.413	2.646	2.590	2.2964	10.95
63)	C styrene	2.527	2.562	2.471	2.908	2.859	3.058	3.332	3.300	3.511	3.293	2.9822	12.60
64)	C 1,1,2,2-tetrachlor...	3.936	3.664	3.626	4.070	3.896	4.122	4.343	4.251	4.519	3.974	4.0401	7.01
65)	C o-xylene	4.798	4.433	4.281	4.714	4.456	4.676	4.952	4.840	5.088	4.575	4.6814	5.34
66)	1,2,3-trichloropro...	3.007	2.723	2.781	3.163	3.033	3.091	3.257	3.213	3.302	3.055	3.0626	6.23
67)	s bromofluorobenzene	1.779	1.736	1.765	1.745	1.697	1.812	1.843	1.795	1.913	1.860	1.7947	3.59
68)	C isopropylbenzene	5.515	4.945	4.939	5.467	5.265	5.397	5.534	5.638	5.960	5.417	5.4078	5.66
69)	bromobenzene	3.280	3.125	3.153	3.560	3.362	3.498	3.644	3.636	3.880	3.568	3.4705	6.87
70)	4-ethyl toluene	4.847	4.710	4.818	5.526	5.460	5.677	6.212	6.162	6.263	5.890	5.5564	10.73
71)	1,3,5-trimethylben...	4.707	4.186	4.264	4.807	4.660	4.840	5.235	5.195	5.288	5.007	4.8190	7.94
72)	tert-butylbenzene	4.361	4.114	3.969	4.589	4.433	4.608	5.076	5.066	5.032	4.414	4.5662	8.55
73)	1,2,4-trimethylben...	4.094	4.064	4.051	4.639	4.548	4.836	5.376	5.413	5.372	4.724	4.7117	11.53
74)	C Benzyl Chloride				3.420	3.493	3.744	4.733	4.955	5.139	5.036	4.3603	17.70
75)	1,3-dichlorobenzene	2.745	2.550	2.650	3.049	2.974	3.173	3.528	3.501	3.532	3.530	3.1232	12.47
76)	C 1,4-dichlorobenzene	2.794	2.794	2.737	3.123	3.113	3.254	3.583	3.577	3.552	3.614	3.2141	11.08
77)	sec-butylbenzene	6.013	5.946	5.952	6.775	6.637	6.958	7.578	7.553	7.369	6.701	6.7482	9.37
78)	p-isopropyltoluene	5.047	4.805	4.647	5.333	5.219	5.572	6.045	6.128	5.768	5.354	5.3920	9.16
79)	1,2-dichlorobenzene	2.594	2.485	2.548	2.894	2.868	3.058	3.295	3.328	3.173	3.362	2.9605	11.30
80)	n-butylbenzene	4.428	4.501	5.026	5.772	5.978	6.350	6.953	7.074	6.240	6.323	5.8645	15.96
81)	C 1,2,4-trichloroben...		1.445	1.593	1.678	2.044	2.296	2.809	3.055	1.940	2.547	2.1562	26.01
82)	naphthalene		4.761	4.481	5.952	5.386	5.570	7.006	7.195	4.288	5.577	5.5796	18.33
83)	1,2,3-trichloroben...		1.290	1.527	1.496	1.885	2.144	2.714	2.933	1.649	2.240	1.9865	28.57
84)	C hexachlorobutadiene		1.475	1.587	1.550	1.800	1.943	2.314	2.507	1.478	2.095	1.8610	20.42

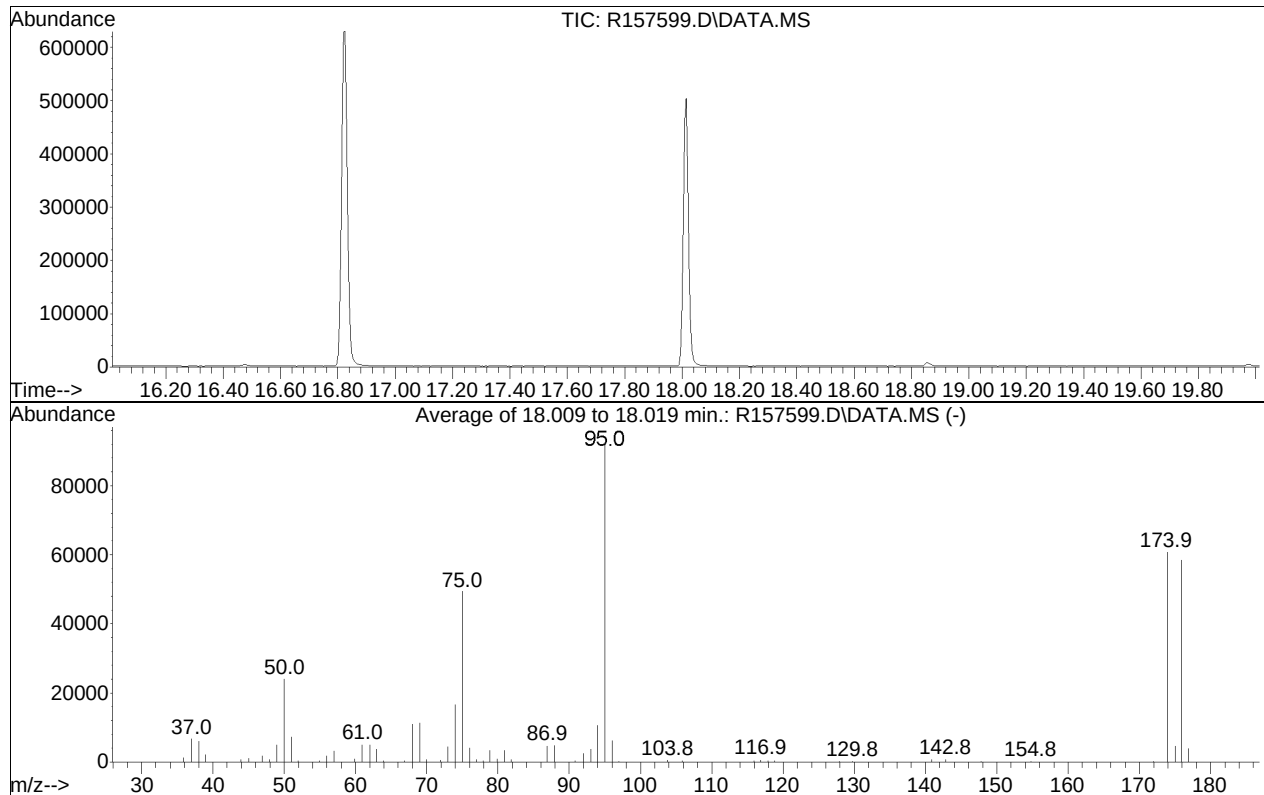
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157599.D
 Acq On : 26 Feb 2018 9:29 pm
 Operator : AIRPIAN01:MB
 Sample : WG1092763-1,3,250,250
 Misc : WG1092763
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Feb 27 08:55:14 2018



AutoFind: Scans 1575, 1576, 1577; Background Corrected with Scan 1568

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	26.0	24021	PASS
75	95	30	66	53.4	49387	PASS
95	95	100	100	100.0	92448	PASS
96	95	5	9	6.7	6172	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	65.8	60789	PASS
175	174	4	9	7.8	4733	PASS
176	174	93	101	96.2	58469	PASS
177	176	5	9	6.8	3970	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157600.D
 Acq On : 26 Feb 2018 10:00 pm
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.02
 Misc : WG1092763
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 12:45:09 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157600.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	212164	10.000	ppbV	0.00
Standard Area = 218948			Recovery =	96.90%		
33) 1,4-difluorobenzene	12.401	114	291155	10.000	ppbV	0.00
Standard Area = 315293			Recovery =	92.34%		
51) chlorobenzene-D5	16.823	54	82318	10.000	ppbV	0.00
Standard Area = 85423			Recovery =	96.37%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.066	65	113428	10.045	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.45%		
53) toluene-D8	15.128	98	266923	10.166	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.66%		
67) bromofluorobenzene	18.012	95	146437	9.912	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.12%		
Target Compounds						
					Qvalue	
2) propylene	4.051	41	276M6	0.025	ppbV	
3) dichlorodifluoromethane	4.152	85	484	0.020	ppbV #	85
4) chloromethane	4.364	50	269M4	0.022	ppbV	
5) Freon-114	4.520	85	620	0.020	ppbV #	89
6) vinyl chloride	4.677	62	256	0.020	ppbV #	52
7) 1,3-butadiene	4.867	54	183	0.021	ppbV #	49
8) bromomethane	5.245	94	238	0.022	ppbV #	76
9) chloroethane	5.505	64	149	0.025	ppbV #	52
10) ethanol	5.719	31	4719	0.483	ppbV	98
11) vinyl bromide	5.989	106	208	0.022	ppbV	97
12) acrolein	6.176	56	151	0.028	ppbV #	74
13) acetone	6.390	43	4344	0.271	ppbV #	98
14) trichlorofluoromethane	6.566	101	558	0.021	ppbV	91
15) isopropyl alcohol	6.743	45	8511	0.390	ppbV	98
16) acrylonitrile	6.995	53	202	0.022	ppbV #	78
17) 1,1-dichloroethene	7.395	61	426M4	0.021	ppbV	
18) tertiary butyl alcohol	7.572	59	624	0.026	ppbV #	1
19) methylene chloride	7.572	49	567	0.034	ppbV	95
20) 3-chloropropene	7.721	41	359M4	0.021	ppbV	
21) carbon disulfide	7.897	76	962	0.029	ppbV #	1
22) Freon 113	7.916	101	437	0.021	ppbV #	86
23) trans-1,2-dichloroethene	8.745	61	382	0.020	ppbV #	84
24) 1,1-dichloroethane	8.991	63	485	0.020	ppbV #	75

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157600.D
 Acq On : 26 Feb 2018 10:00 pm
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.02
 Misc : WG1092763
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 12:45:09 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157600.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	9.130	73	596	0.021	ppbV	#	37
26) vinyl acetate	9.211	43	582	0.021	ppbV	#	64
27) 2-butanone	9.547	43	712	0.025	ppbV	#	73
28) cis-1,2-dichloroethene	9.996	61	419	0.020	ppbV	#	78
29) Ethyl Acetate	0.000		0	N.D.	d		
30) chloroform	10.341	83	601	0.021	ppbV	#	86
31) Tetrahydrofuran	10.889	42	327M6	0.021	ppbV		
32) 1,2-dichloroethane	11.188	62	372	0.021	ppbV	#	51
34) hexane	10.234	57	482M4	0.021	ppbV		
36) 1,1,1-trichloroethane	11.477	97	450M4	0.021	ppbV		
37) benzene	11.994	78	740	0.022	ppbV	#	65
38) carbon tetrachloride	12.157	117	409	0.020	ppbV	#	88
39) cyclohexane	12.297	56	372	0.020	ppbV	#	82
40) dibromomethane	12.902	93	416	0.029	ppbV		91
41) 1,2-dichloropropane	12.925	63	296M4	0.020	ppbV		
42) bromodichloromethane	13.146	83	515	0.020	ppbV	#	87
43) 1,4-dioxane	13.298	88	125M4	0.019	ppbV		
44) trichloroethene	13.205	130	249	0.021	ppbV		96
45) 2,2,4-trimethylpentane	13.216	57	1197	0.020	ppbV	#	71
46) heptane	13.519	43	499M4	0.020	ppbV		
47) cis-1,3-dichloropropene	14.187	75	1368M4	0.019	ppbV		
48) 4-methyl-2-pentanone	14.307	43	442M3	0.014	ppbV		
49) trans-1,3-dichloropropene	14.798	75	303	0.018	ppbV	#	2
50) 1,1,2-trichloroethane	14.963	97	246	0.019	ppbV		96
52) toluene	15.231	91	804	0.022	ppbV		94
54) 2-hexanone	0.000		0	N.D.	d		
55) dibromochloromethane	15.654	129	399	0.019	ppbV	#	89
56) 1,2-dibromoethane	15.891	107	388	0.019	ppbV		98
57) tetrachloroethene	16.283	166	276	0.020	ppbV	#	81
58) 1,1,1,2-tetrachloroethane	16.847	131	272	0.020	ppbV	#	85
59) chlorobenzene	16.862	112	521	0.019	ppbV	#	84
60) ethylbenzene	17.161	91	979	0.021	ppbV		97
61) m+p-xylene	17.295	91	1482	0.040	ppbV		93
62) bromoform	17.380	173	413	0.022	ppbV		92
63) styrene	17.594	104	416	0.017	ppbV	#	88
64) 1,1,2,2-tetrachloroethane	17.673	83	648	0.019	ppbV		100
65) o-xylene	17.668	91	790	0.021	ppbV		94
66) 1,2,3-trichloropropane	17.773	75	495	0.020	ppbV	#	65
68) isopropylbenzene	18.106	105	908	0.020	ppbV		96
69) bromobenzene	18.196	77	540	0.019	ppbV		87

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157600.D
 Acq On : 26 Feb 2018 10:00 pm
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.02
 Misc : WG1092763
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 12:45:09 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157600.D
 Sub List : Default - All compounds listed

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

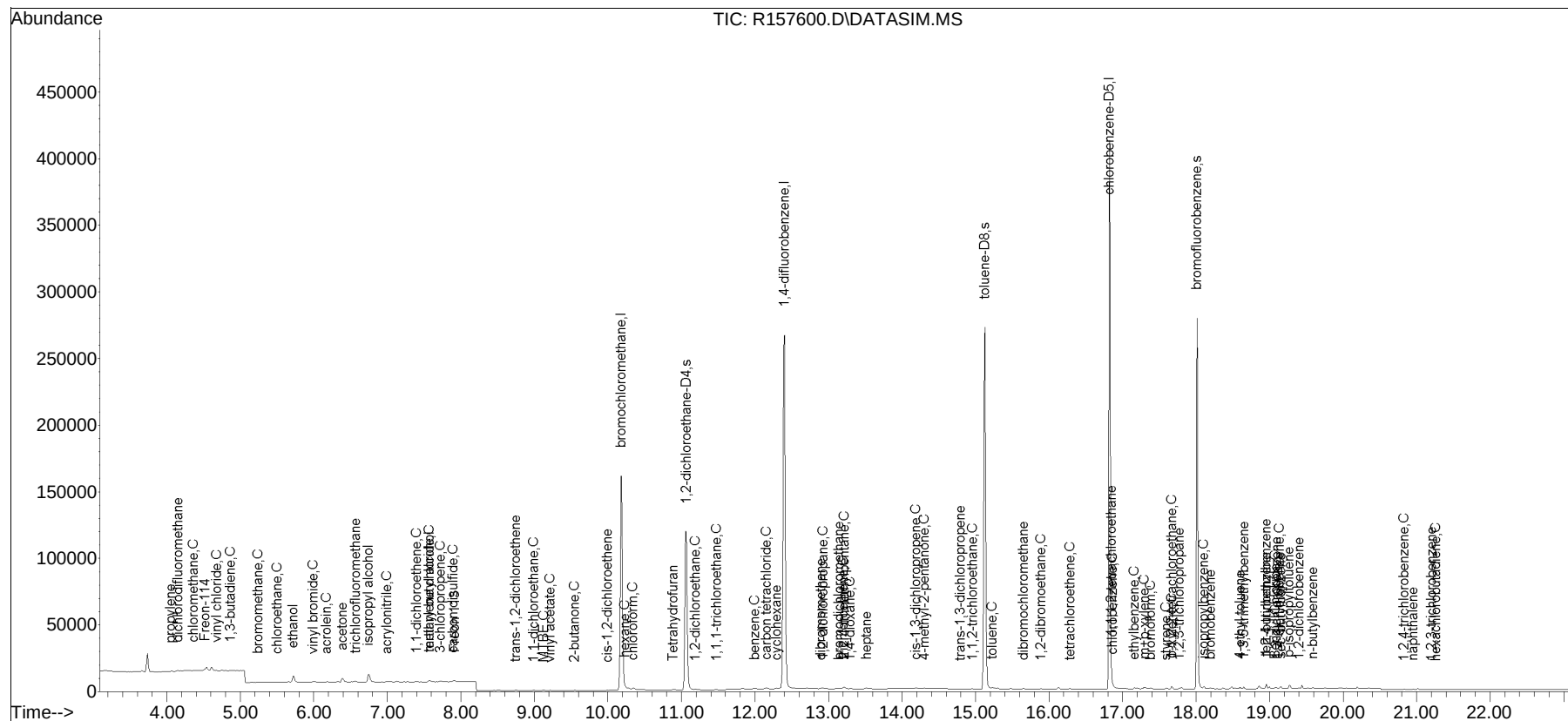
70) 4-ethyl toluene	18.599	105	798	0.017	ppbV	#	91
71) 1,3,5-trimethylbenzene	18.649	105	775	0.020	ppbV	#	89
72) tert-butylbenzene	18.951	119	718M4	0.019	ppbV		
73) 1,2,4-trimethylbenzene	18.957	105	674	0.017	ppbV		92
74) Benzyl Chloride	19.078	91	489	0.014	ppbV	#	54
75) 1,3-dichlorobenzene	19.090	146	452	0.018	ppbV	#	75
76) 1,4-dichlorobenzene	19.138	146	460M4	0.017	ppbV		
77) sec-butylbenzene	19.157	105	990	0.018	ppbV	#	82
78) p-isopropyltoluene	19.265	119	831	0.019	ppbV		91
79) 1,2-dichlorobenzene	19.404	146	427	0.018	ppbV	#	87
80) n-butylbenzene	19.586	91	729	0.015	ppbV	#	88
81) 1,2,4-trichlorobenzene	20.828	180	227	0.013	ppbV	#	32
82) naphthalene	20.948	128	1103	0.024	ppbV	#	83
83) 1,2,3-trichlorobenzene	21.200	180	217	0.013	ppbV	#	32
84) hexachlorobutadiene	21.260	225	251	0.016	ppbV	#	89

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

Sub List : Default - All compounds listed0226SIM_ICAL\R157606.D

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
Data File : R157600.D
Acq On : 26 Feb 2018 10:00 pm
Operator : AIRPIAN01:MB
Sample : IT015-SIMSTD0.02
Misc : WG1092763
ALS Vial : 5 Sample Multiplier: 1

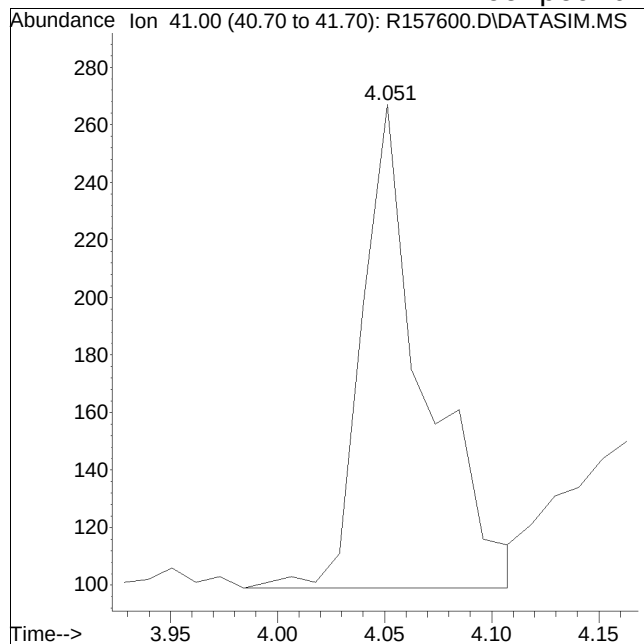
Quant Time: Feb 27 12:45:09 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



Manual Integration/Negative Proof Report

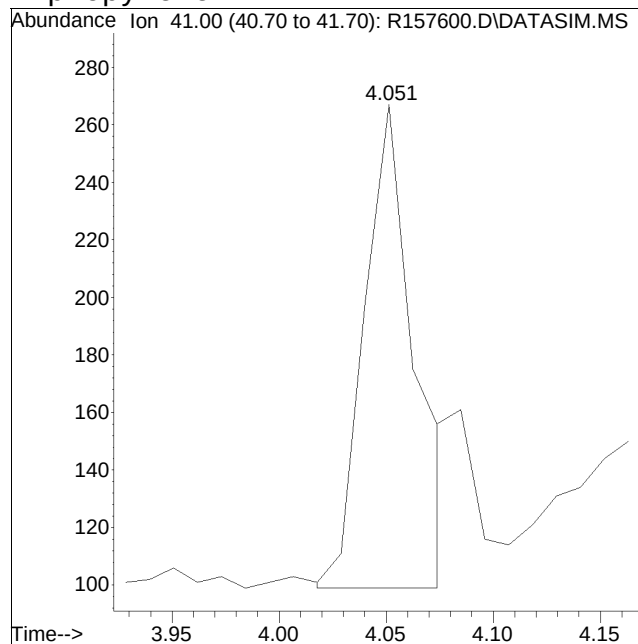
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #2: propylene



Original Peak Response = 345

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

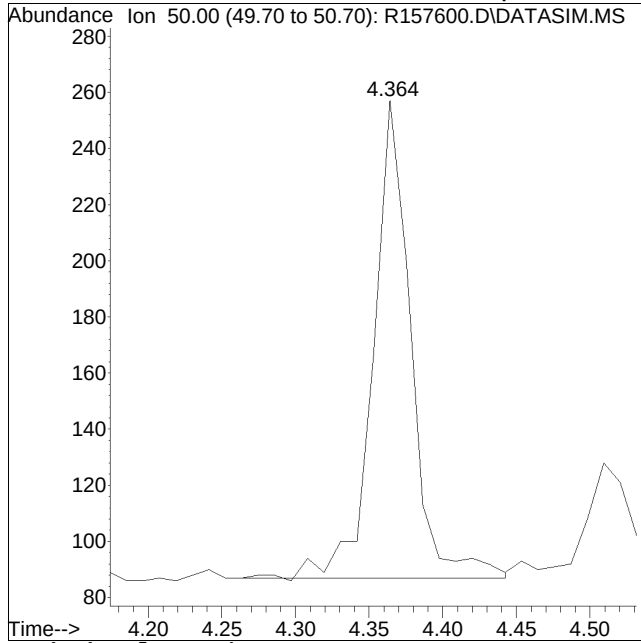


Manual Peak Response = 276 M6

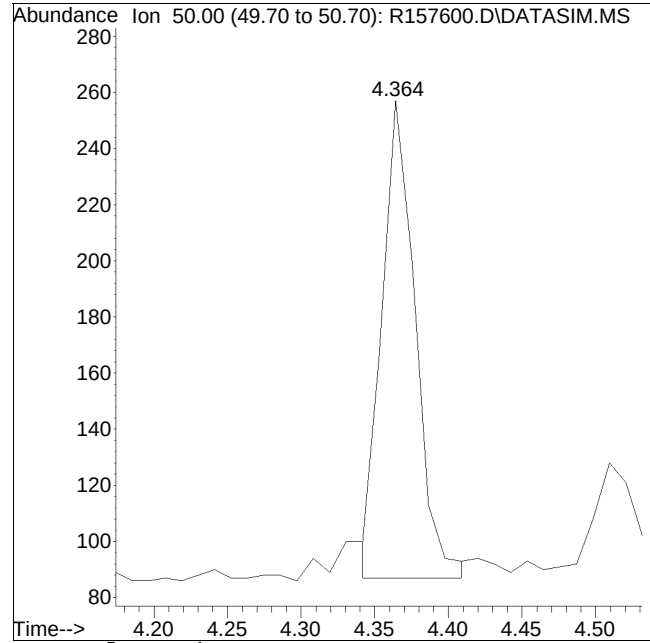
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #4: chloromethane



Original Peak Response = 302



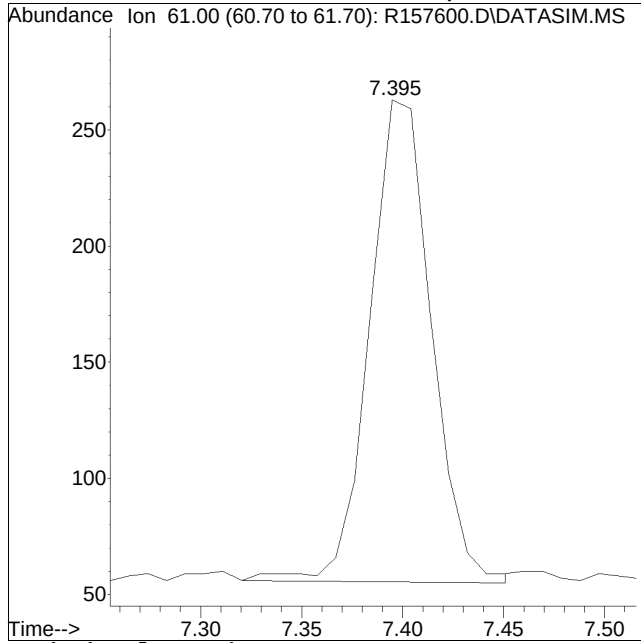
Manual Peak Response = 269 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

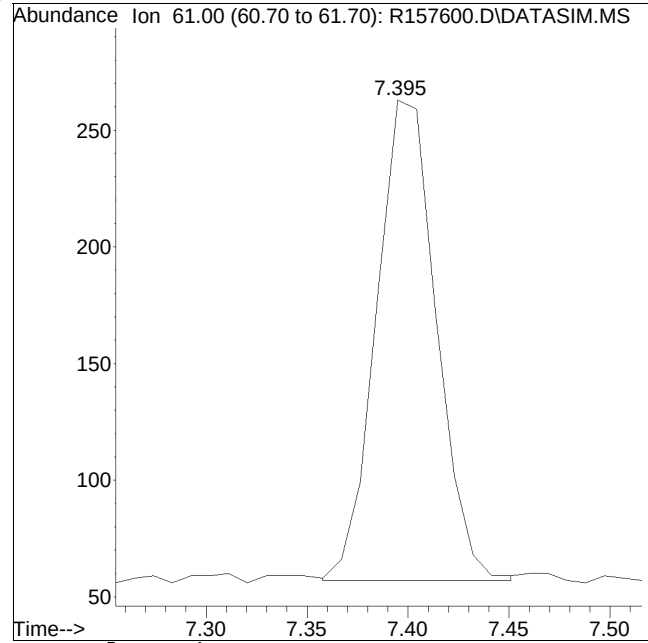
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #17: 1,1-dichloroethene



Original Peak Response = 441

M4 = Poor automated baseline construction.

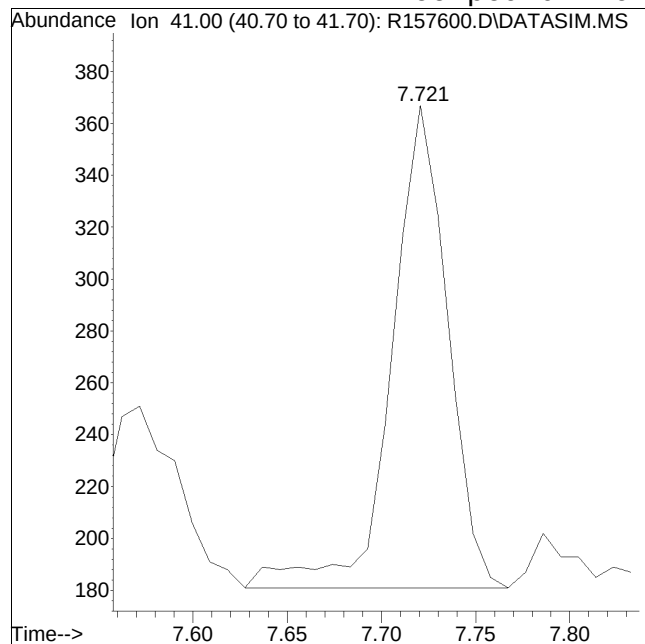


Manual Peak Response = 426 M4

Manual Integration/Negative Proof Report

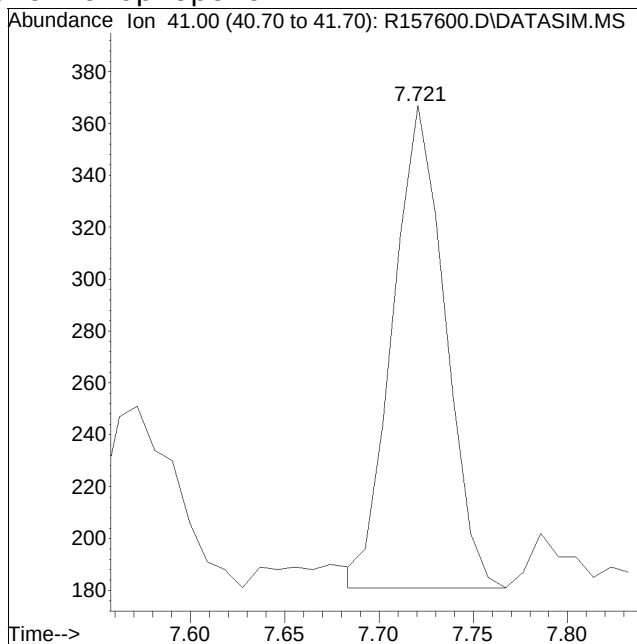
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #20: 3-chloropropene



Original Peak Response = 385

M4 = Poor automated baseline construction.

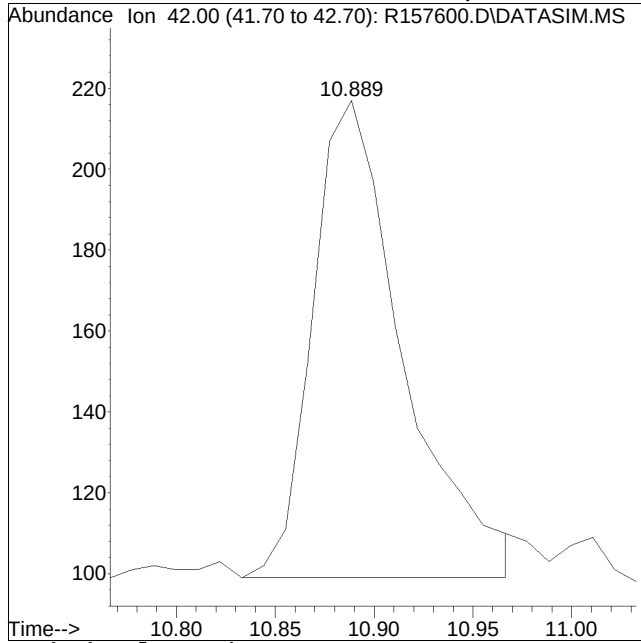


Manual Peak Response = 359 M4

Manual Integration/Negative Proof Report

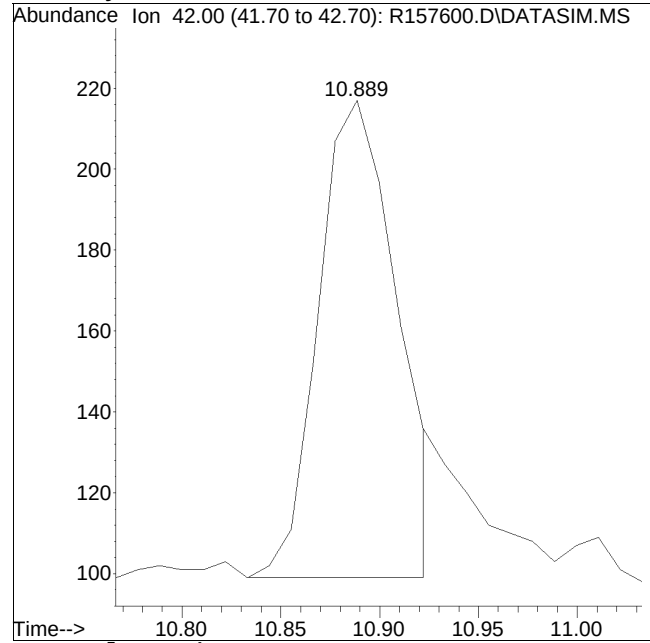
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 376

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

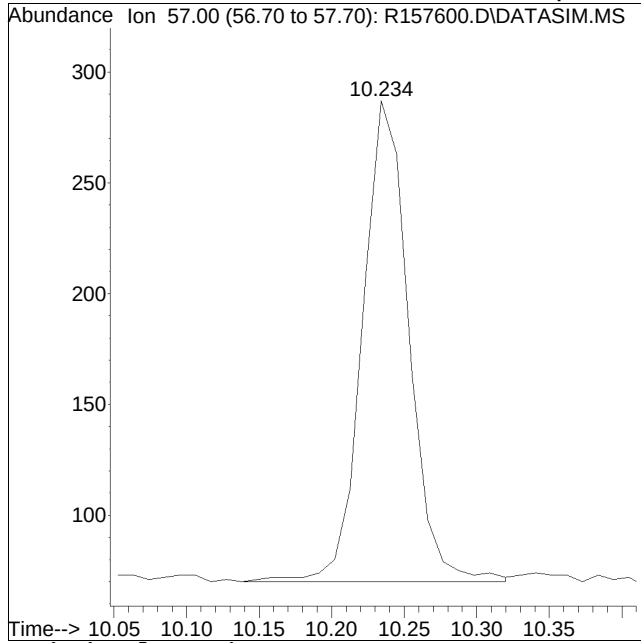


Manual Peak Response = 327 M6

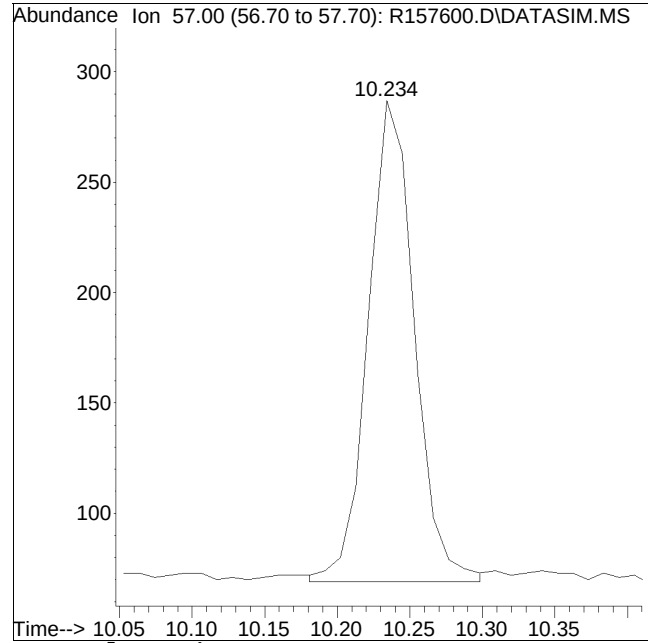
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #34: hexane



Original Peak Response = 483



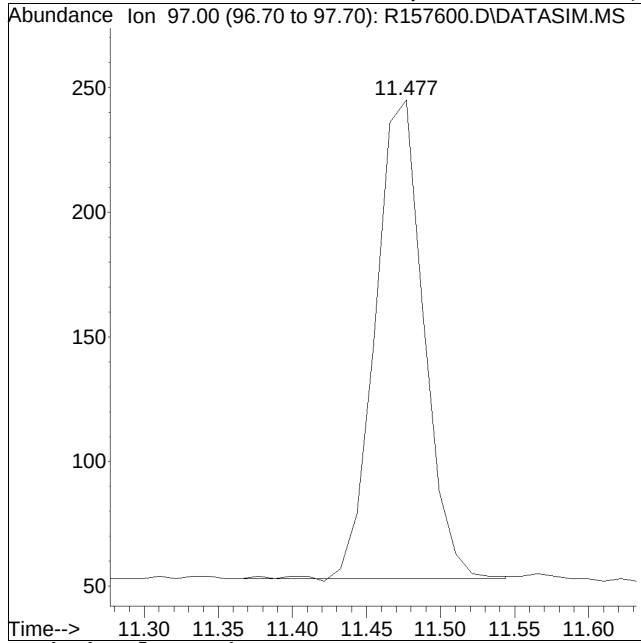
Manual Peak Response = 482 M4

M4 = Poor automated baseline construction.

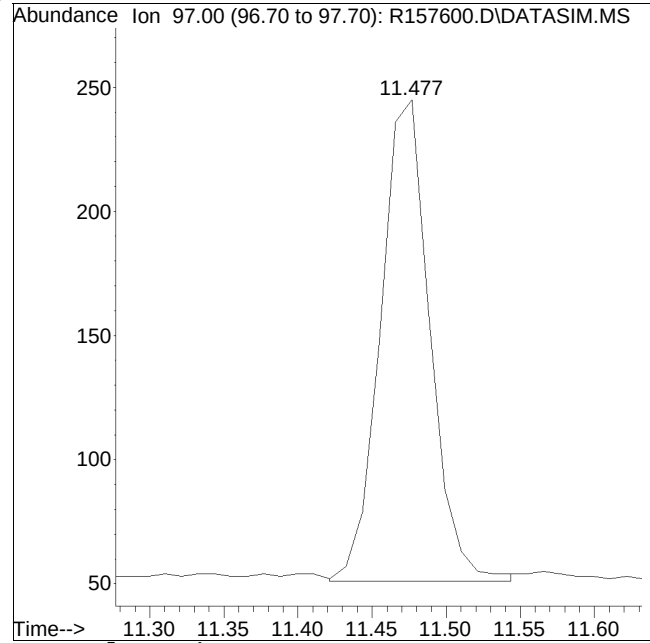
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #36: 1,1,1-trichloroethane



Original Peak Response = 437



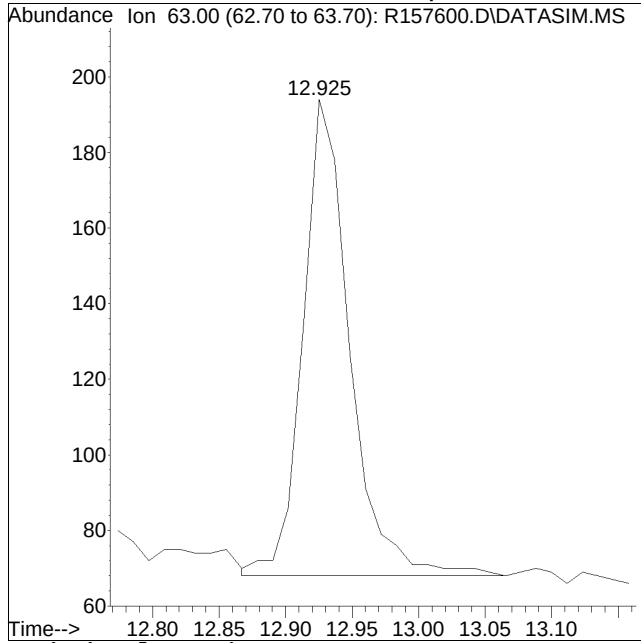
Manual Peak Response = 450 M4

M4 = Poor automated baseline construction.

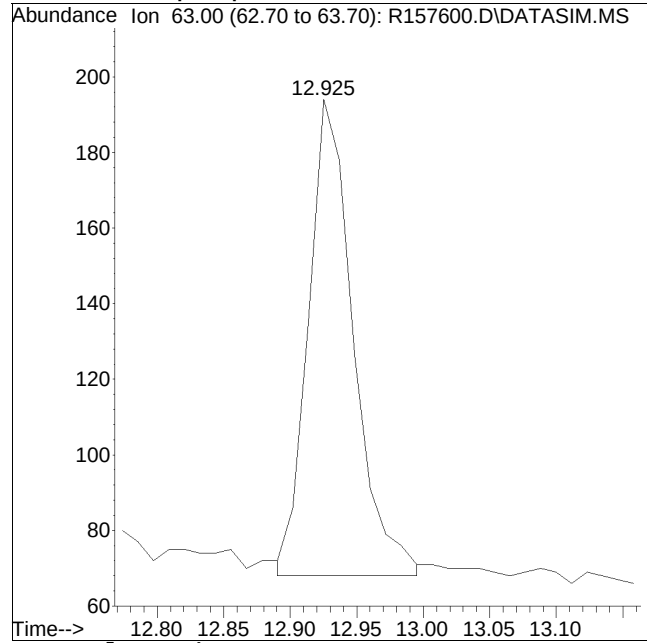
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #41: 1,2-dichloropropane



Original Peak Response = 309



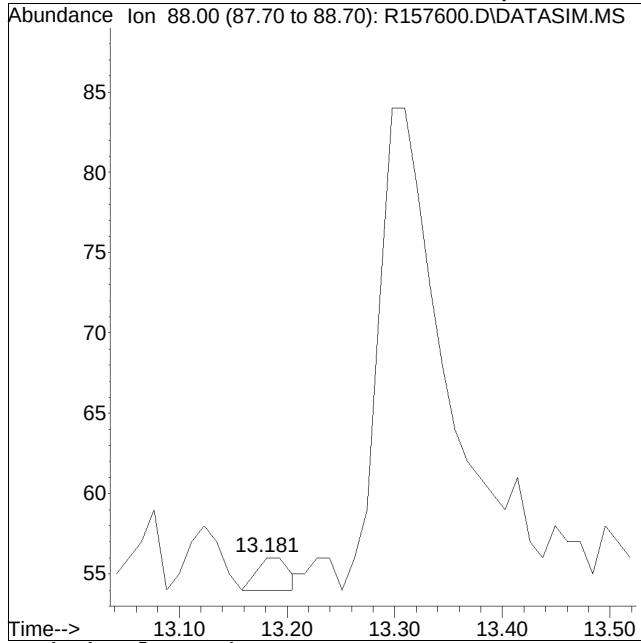
Manual Peak Response = 296 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

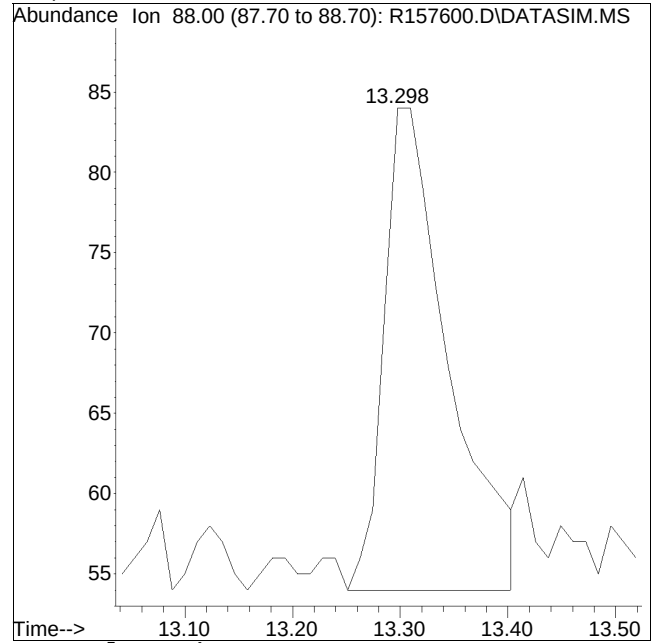
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #43: 1,4-dioxane



Original Peak Response = 4

M4 = Poor automated baseline construction.

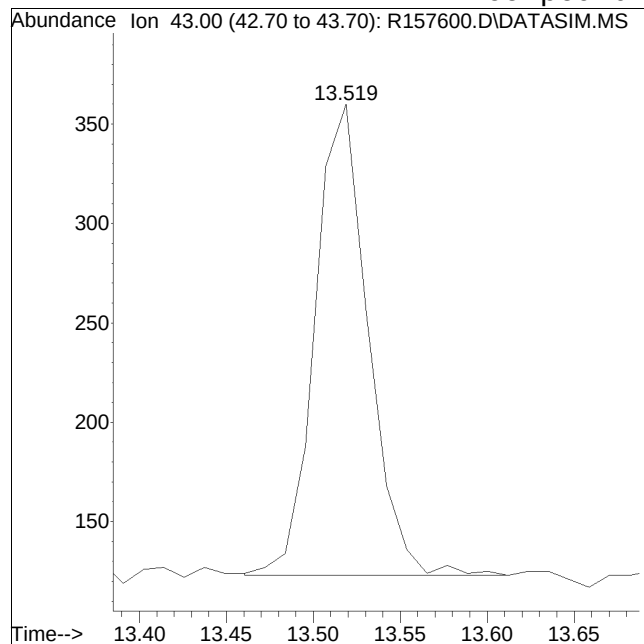


Manual Peak Response = 125 M4

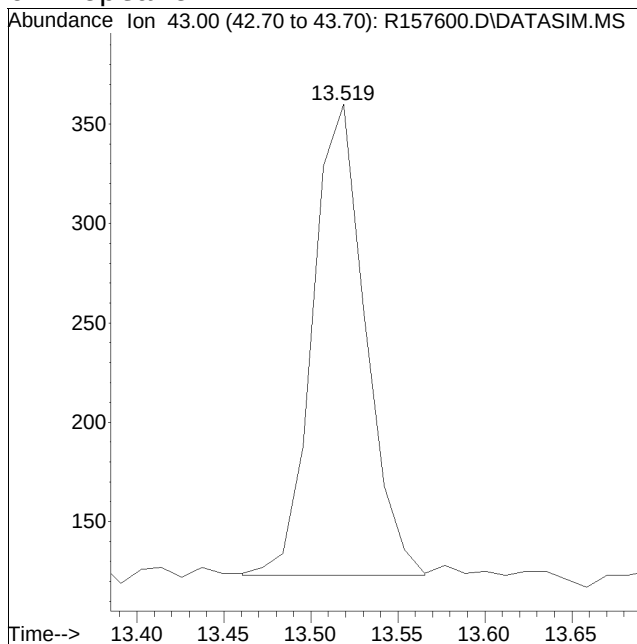
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #46: heptane



Original Peak Response = 504



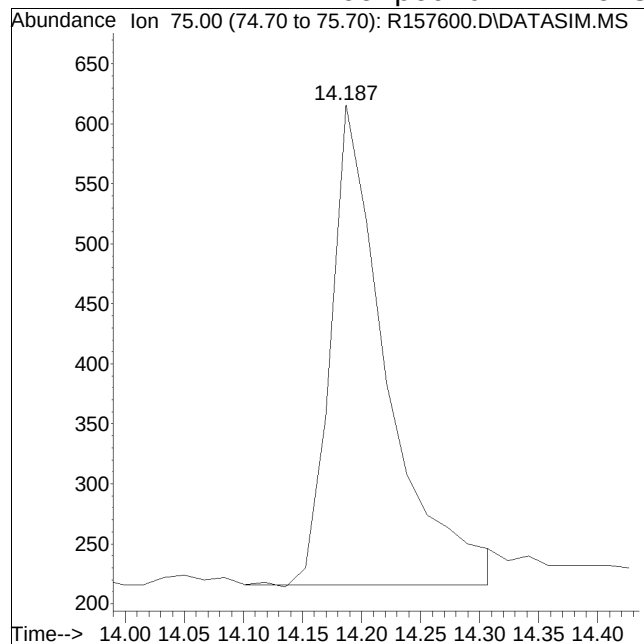
Manual Peak Response = 499 M4

M4 = Poor automated baseline construction.

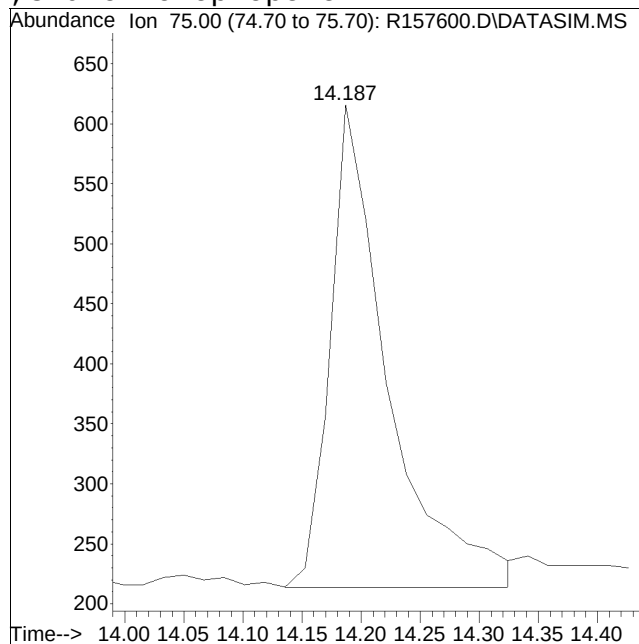
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 1324



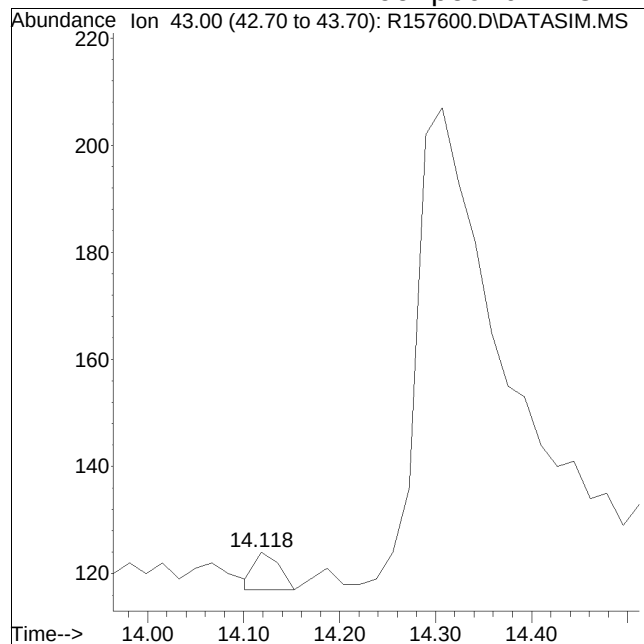
Manual Peak Response = 1368 M4

M4 = Poor automated baseline construction.

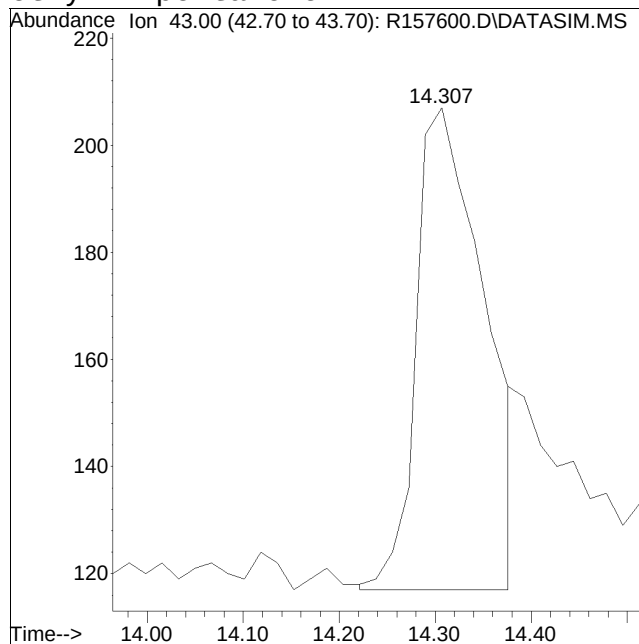
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
 Data File : R157600.D Operator : AIRPIAN01:MB
 Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
 Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 12



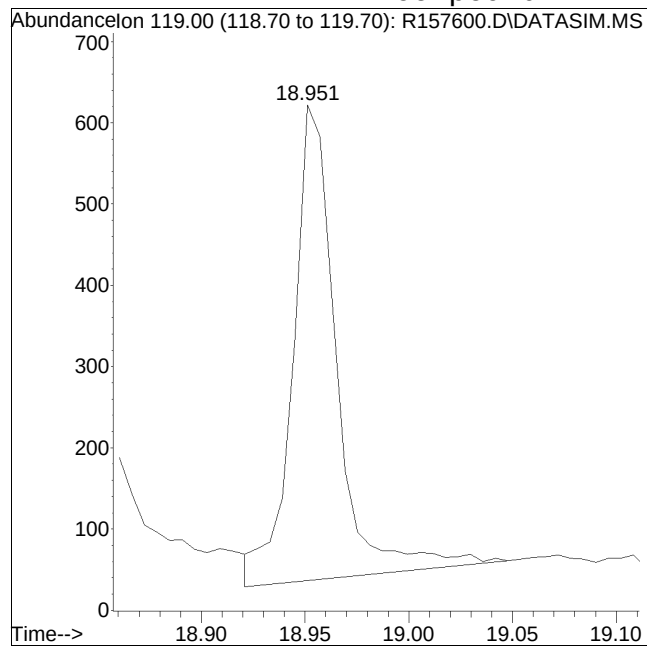
Manual Peak Response = 442 M3

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

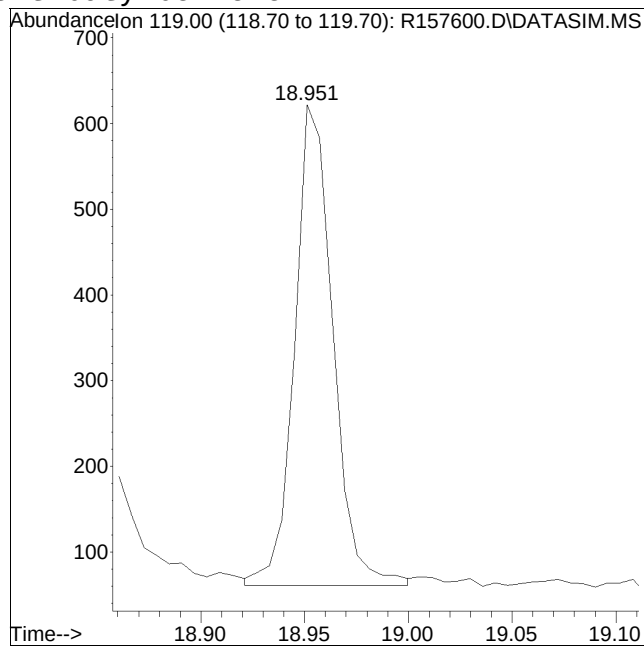
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #72: tert-butylbenzene



Original Peak Response = 854

M4 = Poor automated baseline construction.

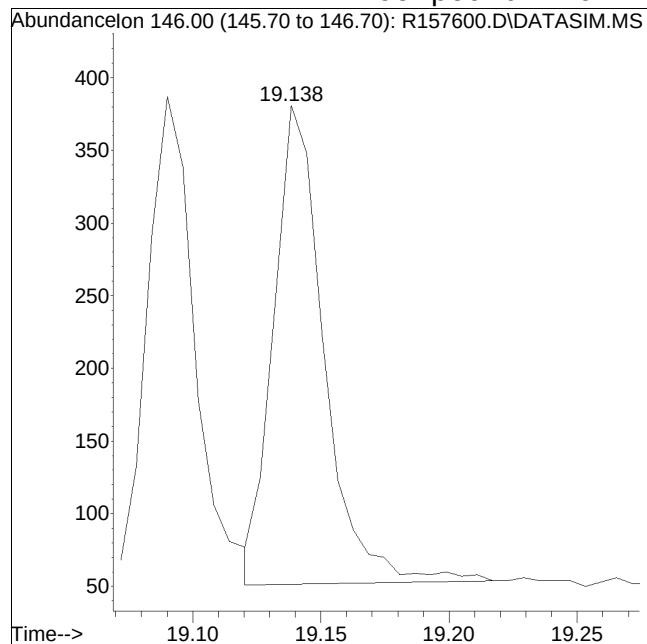


Manual Peak Response = 718 M4

Manual Integration/Negative Proof Report

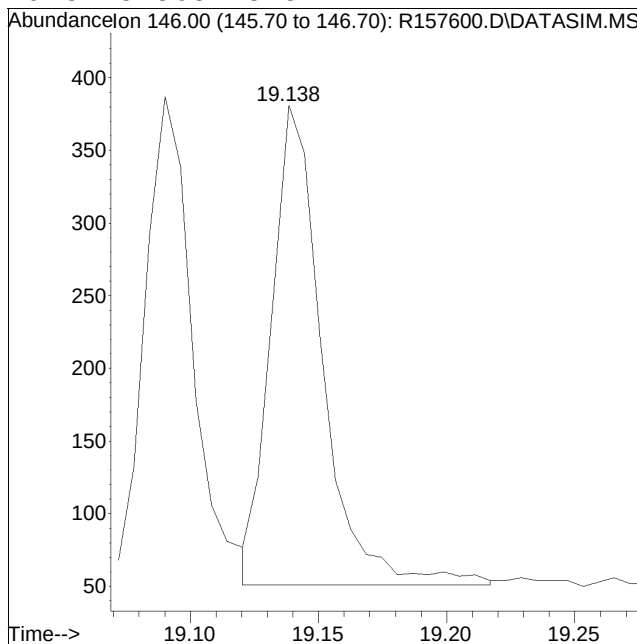
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157600.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:00 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.02 Quant Date : 2/27/2018 12:45 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 451

M4 = Poor automated baseline construction.



Manual Peak Response = 460 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157601.D
 Acq On : 26 Feb 2018 10:31 pm
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.04
 Misc : WG1092763
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 12:45:14 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

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

Internal Standards							
1) bromochloromethane	10.181	49	213906	10.000	ppbV	0.00	
Standard Area = 218948			Recovery =		97.70%		
33) 1,4-difluorobenzene	12.401	114	292809	10.000	ppbV	0.00	
Standard Area = 315293			Recovery =		92.87%		
51) chlorobenzene-D5	16.822	54	83917	10.000	ppbV	0.00	
Standard Area = 85423			Recovery =		98.24%		
System Monitoring Compounds							
35) 1,2-dichloroethane-D4	11.066	65	112836	9.936	ppbV	0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.36%		
53) toluene-D8	15.128	98	259031	9.677	ppbV	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.77%		
67) bromofluorobenzene	18.012	95	145717	9.675	ppbV	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.75%		
Target Compounds							
					Qvalue		
2) propylene	4.051	41	490M6	0.044	ppbV		
3) dichlorodifluoromethane	4.152	85	965M4	0.040	ppbV		
4) chloromethane	4.364	50	521M4	0.042	ppbV		
5) Freon-114	4.520	85	1215M4	0.040	ppbV		
6) vinyl chloride	4.677	62	501M4	0.040	ppbV		
7) 1,3-butadiene	4.867	54	354	0.041	ppbV #	66	
8) bromomethane	5.254	94	424	0.040	ppbV	82	
9) chloroethane	5.505	64	237M4	0.040	ppbV		
10) ethanol	5.719	31	5601	0.568	ppbV	96	
11) vinyl bromide	5.989	106	377	0.039	ppbV	99	
12) acrolein	6.175	56	247	0.046	ppbV	97	
13) acetone	6.390	43	6209M4	0.385	ppbV		
14) trichlorofluoromethane	6.566	101	1048	0.039	ppbV	99	
15) isopropyl alcohol	6.743	45	9240	0.420	ppbV	98	
16) acrylonitrile	6.995	53	382M6	0.042	ppbV		
17) 1,1-dichloroethene	7.404	61	825	0.040	ppbV #	88	
18) tertiary butyl alcohol	7.572	59	1177	0.049	ppbV #	3	
19) methylene chloride	7.572	49	903	0.054	ppbV	96	
20) 3-chloropropene	7.721	41	751	0.044	ppbV #	85	
21) carbon disulfide	7.897	76	1555	0.046	ppbV #	1	
22) Freon 113	7.916	101	818	0.039	ppbV	92	
23) trans-1,2-dichloroethene	8.745	61	745	0.039	ppbV #	91	
24) 1,1-dichloroethane	8.991	63	936	0.039	ppbV #	82	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157601.D
 Acq On : 26 Feb 2018 10:31 pm
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.04
 Misc : WG1092763
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 12:45:14 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	9.121	73	1089	0.038	ppbV	#	60
26) vinyl acetate	9.219	43	1014	0.037	ppbV	#	75
27) 2-butanone	9.547	43	1172	0.041	ppbV	#	85
28) cis-1,2-dichloroethene	9.996	61	796	0.038	ppbV	#	84
29) Ethyl Acetate	0.000		0	N.D.	d		
30) chloroform	10.341	83	1143	0.039	ppbV	#	90
31) Tetrahydrofuran	10.877	42	701M4	0.044	ppbV		
32) 1,2-dichloroethane	11.188	62	739	0.041	ppbV	#	70
34) hexane	10.234	57	923	0.040	ppbV	#	55
36) 1,1,1-trichloroethane	11.477	97	861	0.039	ppbV	#	94
37) benzene	11.994	78	1383M4	0.041	ppbV		
38) carbon tetrachloride	12.157	117	833	0.040	ppbV	#	93
39) cyclohexane	12.297	56	722	0.039	ppbV	#	83
40) dibromomethane	12.902	93	665	0.045	ppbV		93
41) 1,2-dichloropropane	12.925	63	614	0.041	ppbV	#	82
42) bromodichloromethane	13.146	83	994	0.039	ppbV	#	95
43) 1,4-dioxane	13.286	88	241M4	0.037	ppbV		
44) trichloroethene	13.204	130	484	0.040	ppbV		96
45) 2,2,4-trimethylpentane	13.216	57	2318	0.038	ppbV	#	81
46) heptane	13.519	43	1001M4	0.039	ppbV		
47) cis-1,3-dichloropropene	14.187	75	2610M4	0.036	ppbV		
48) 4-methyl-2-pentanone	14.290	43	999M4	0.032	ppbV		
49) trans-1,3-dichloropropene	14.787	75	571M4	0.033	ppbV		
50) 1,1,2-trichloroethane	14.952	97	480	0.037	ppbV		89
52) toluene	15.231	91	1503	0.040	ppbV		95
54) 2-hexanone	15.582	43	814M3	0.027	ppbV		
55) dibromochloromethane	15.654	129	753M4	0.036	ppbV		
56) 1,2-dibromoethane	15.891	107	765	0.037	ppbV		95
57) tetrachloroethene	16.283	166	554	0.038	ppbV	#	89
58) 1,1,1,2-tetrachloroethane	16.847	131	554	0.039	ppbV		91
59) chlorobenzene	16.862	112	1061M4	0.038	ppbV		
60) ethylbenzene	17.161	91	1836	0.038	ppbV		99
61) m+p-xylene	17.295	91	2773M4	0.074	ppbV		
62) bromoform	17.380	173	698M4	0.036	ppbV		
63) styrene	17.589	104	860	0.034	ppbV		96
64) 1,1,2,2-tetrachloroethane	17.668	83	1230	0.036	ppbV		100
65) o-xylene	17.668	91	1488	0.038	ppbV		93
66) 1,2,3-trichloropropane	17.773	75	914	0.036	ppbV	#	78
68) isopropylbenzene	18.106	105	1660M4	0.037	ppbV		
69) bromobenzene	18.196	77	1049	0.036	ppbV		91

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157601.D
 Acq On : 26 Feb 2018 10:31 pm
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.04
 Misc : WG1092763
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 12:45:14 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

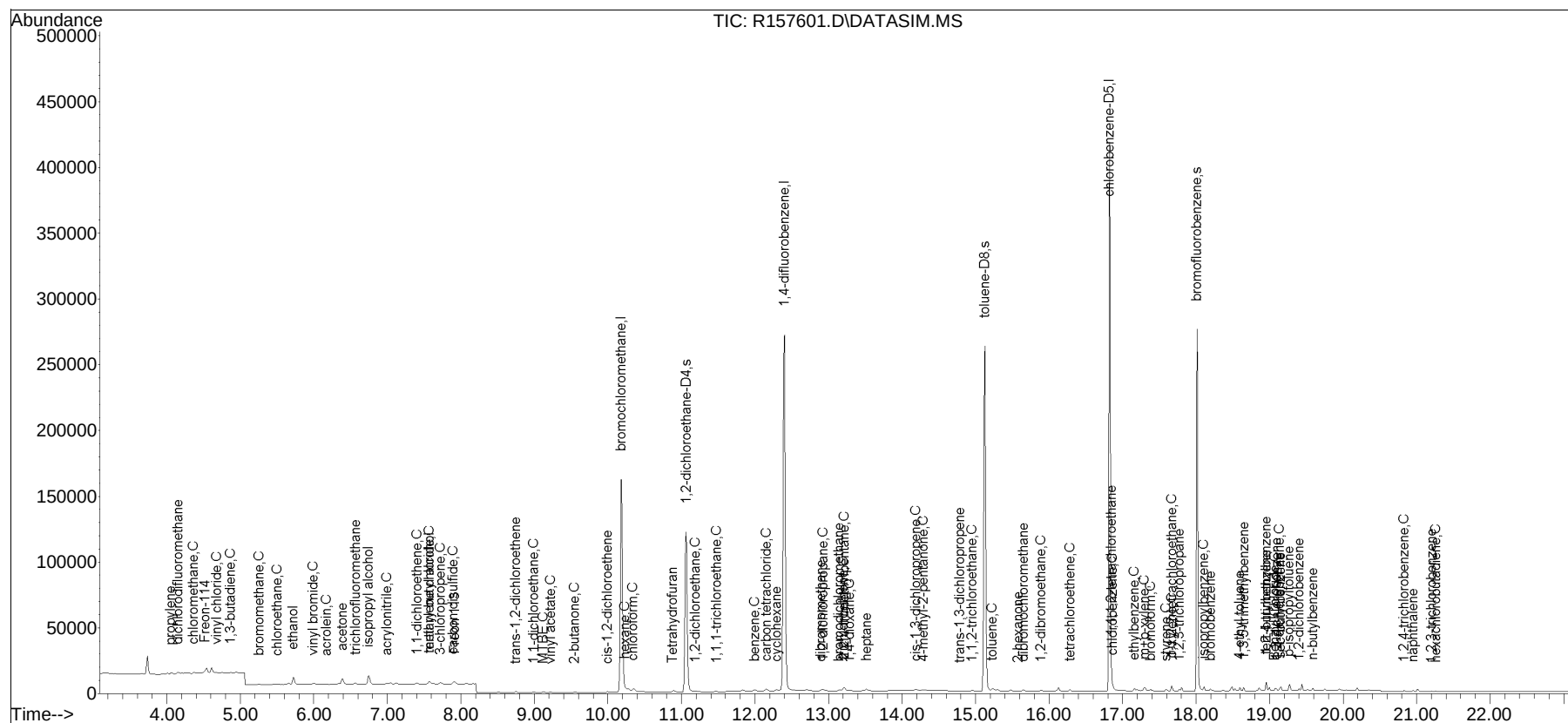
CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.594	105	1581M6	0.034	ppbV	
71) 1,3,5-trimethylbenzene	18.649	105	1405M4	0.035	ppbV	
72) tert-butylbenzene	18.951	119	1381M4	0.036	ppbV	
73) 1,2,4-trimethylbenzene	18.957	105	1364	0.034	ppbV	94
74) Benzyl Chloride	19.072	91	934M4	0.026	ppbV	
75) 1,3-dichlorobenzene	19.090	146	856	0.033	ppbV #	87
76) 1,4-dichlorobenzene	19.138	146	938M4	0.035	ppbV	
77) sec-butylbenzene	19.150	105	1996	0.035	ppbV	95
78) p-isopropyltoluene	19.265	119	1613	0.036	ppbV	96
79) 1,2-dichlorobenzene	19.398	146	834	0.034	ppbV #	87
80) n-butylbenzene	19.585	91	1511	0.031	ppbV	93
81) 1,2,4-trichlorobenzene	20.828	180	485	0.027	ppbV #	56
82) naphthalene	20.948	128	1598	0.034	ppbV #	88
83) 1,2,3-trichlorobenzene	21.200	180	433	0.026	ppbV #	52
84) hexachlorobutadiene	21.260	225	495	0.032	ppbV #	87

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

```
Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
Data File : R157601.D
Acq On    : 26 Feb 2018  10:31 pm
Operator  : AIRPIAN01:MB
Sample    : IT015-SIMSTD0.04
Misc      : WG1092763
ALS Vial  : 5      Sample Multiplier: 1
```

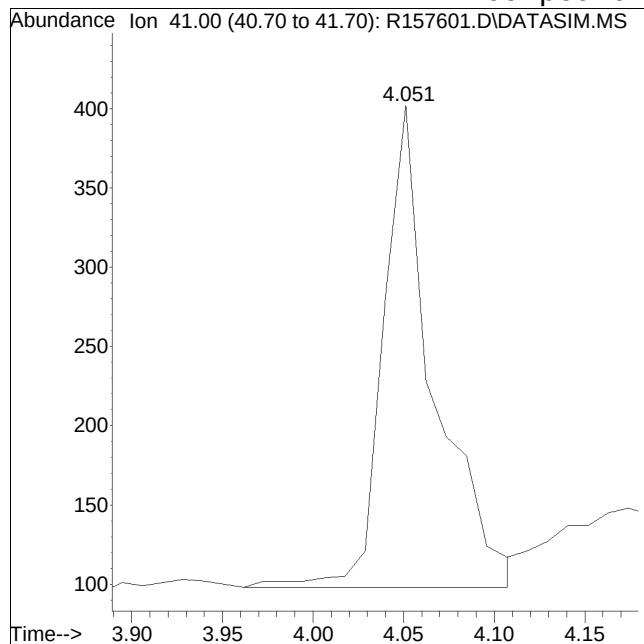
Quant Time: Feb 27 12:45:14 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



Manual Integration/Negative Proof Report

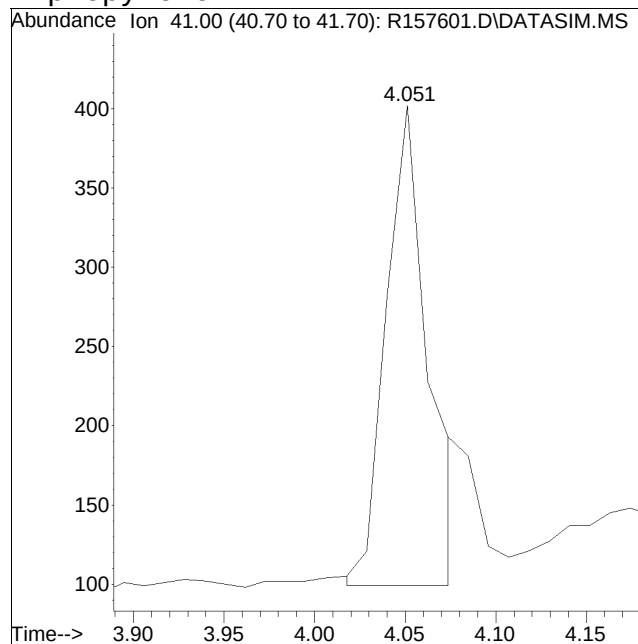
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #2: propylene



Original Peak Response = 596

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

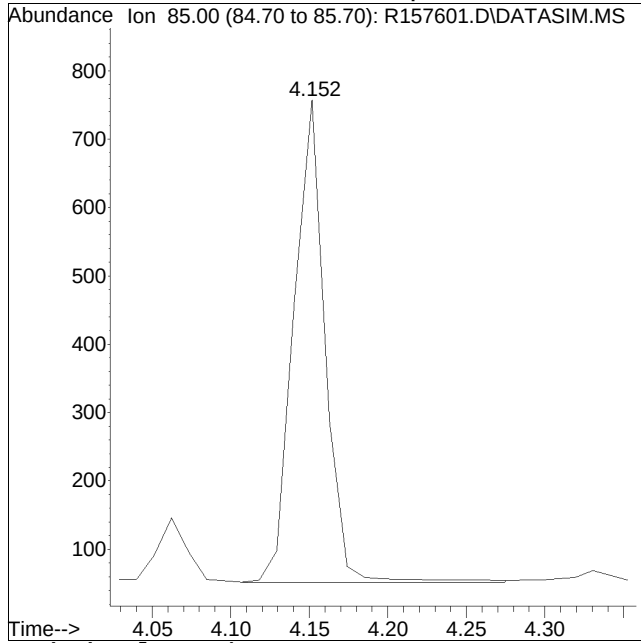


Manual Peak Response = 490 M6

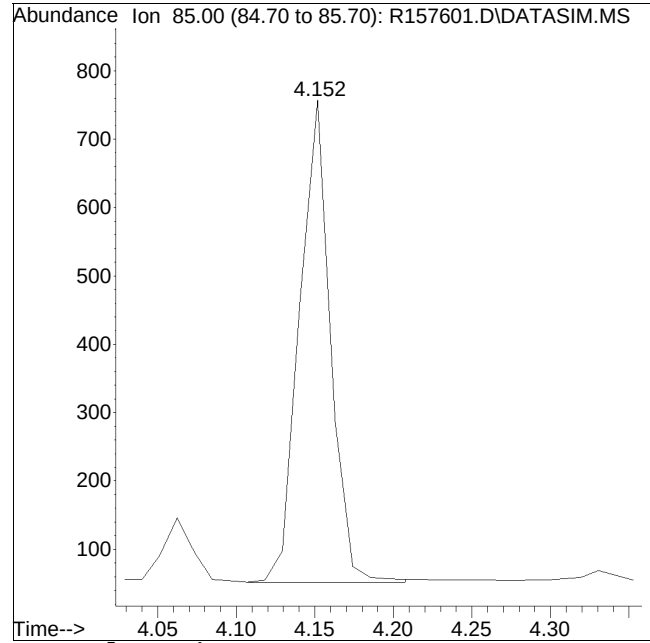
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #3: dichlorodifluoromethane



Original Peak Response = 977



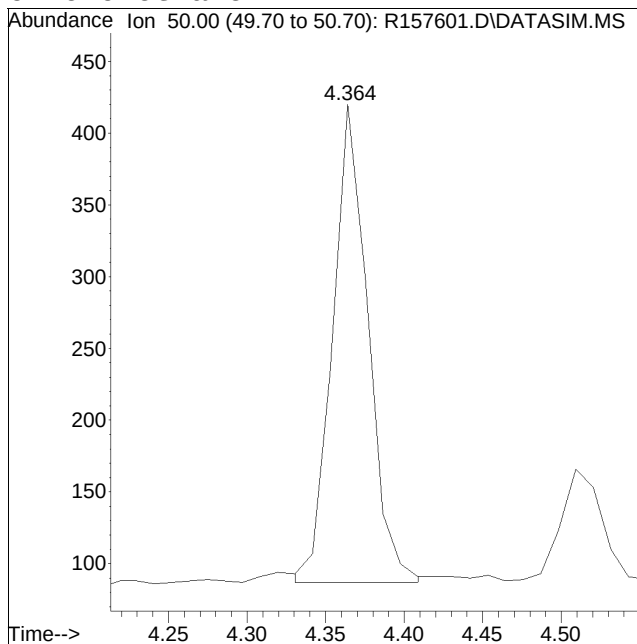
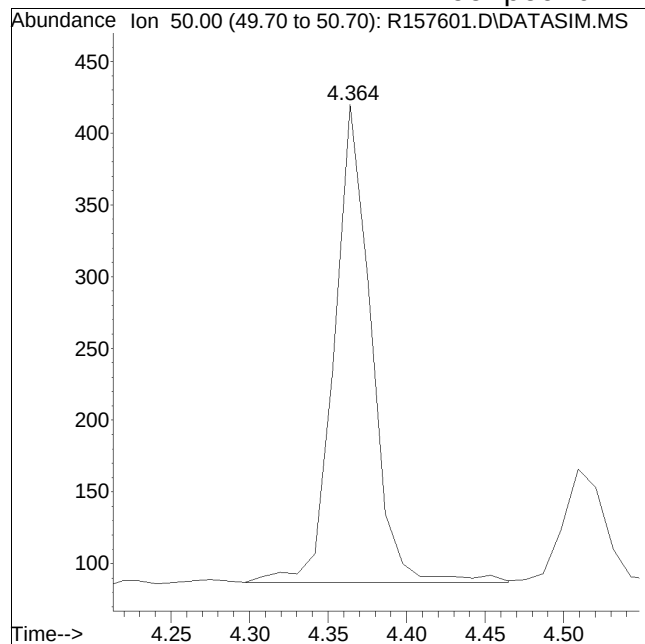
Manual Peak Response = 965 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #4: chloromethane

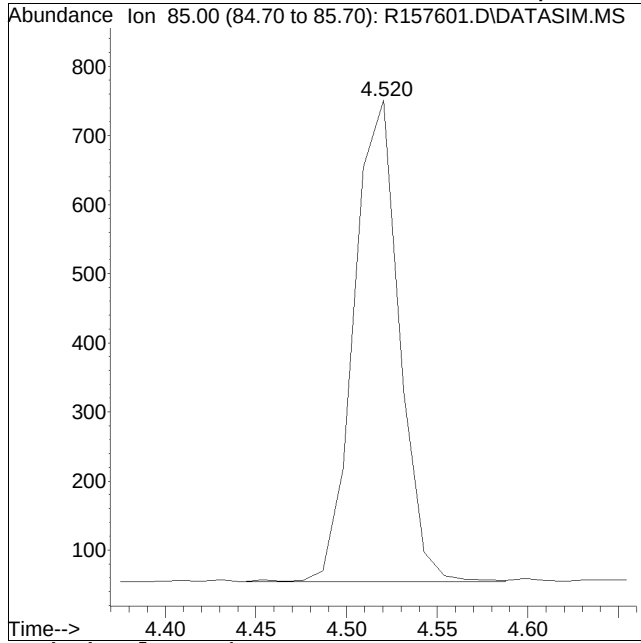


M4 = Poor automated baseline construction.

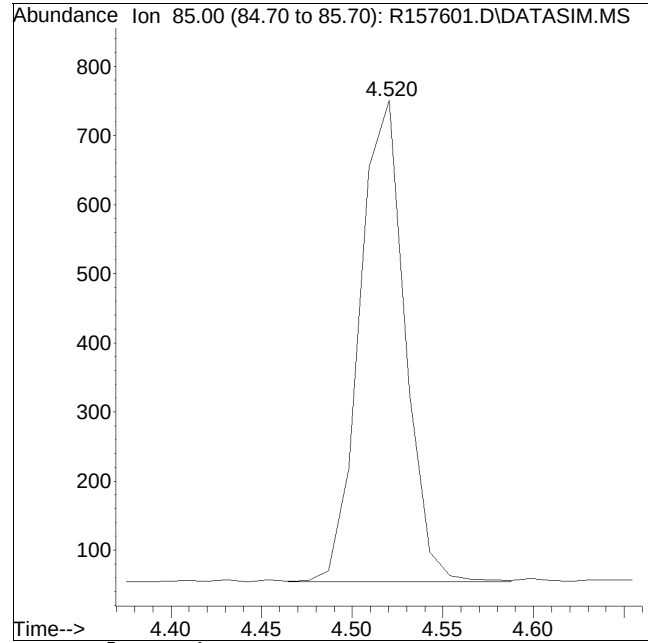
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #5: Freon-114



Original Peak Response = 1217



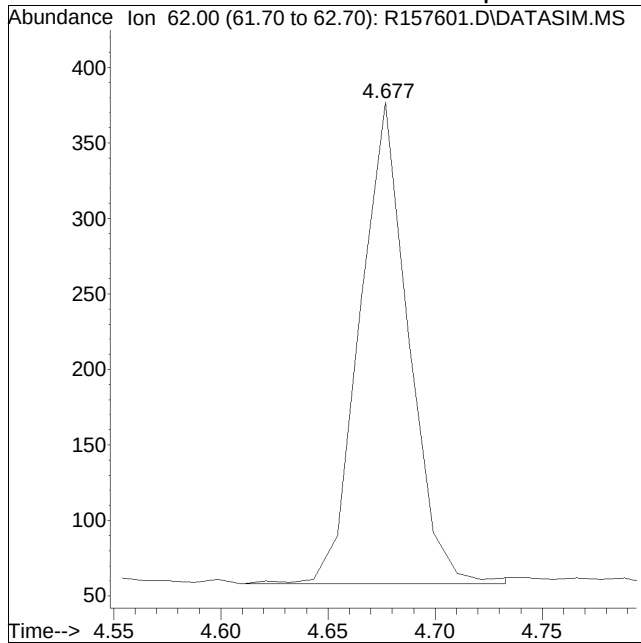
Manual Peak Response = 1215 M4

M4 = Poor automated baseline construction.

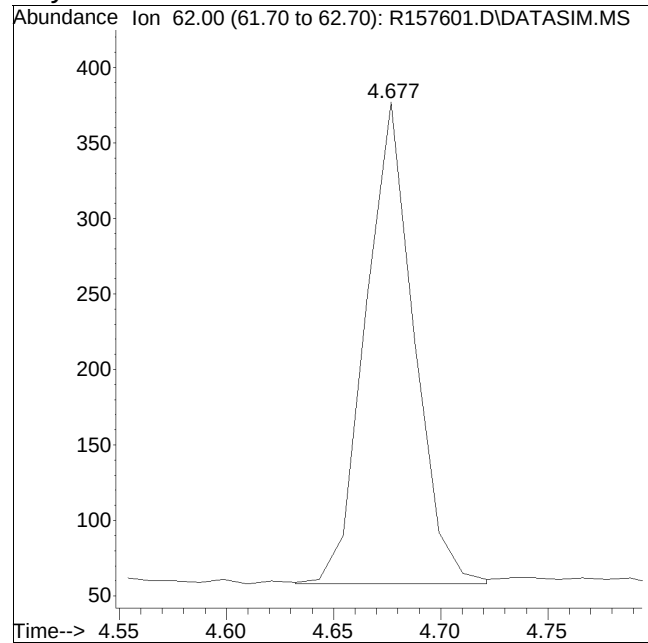
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #6: vinyl chloride



Original Peak Response = 505



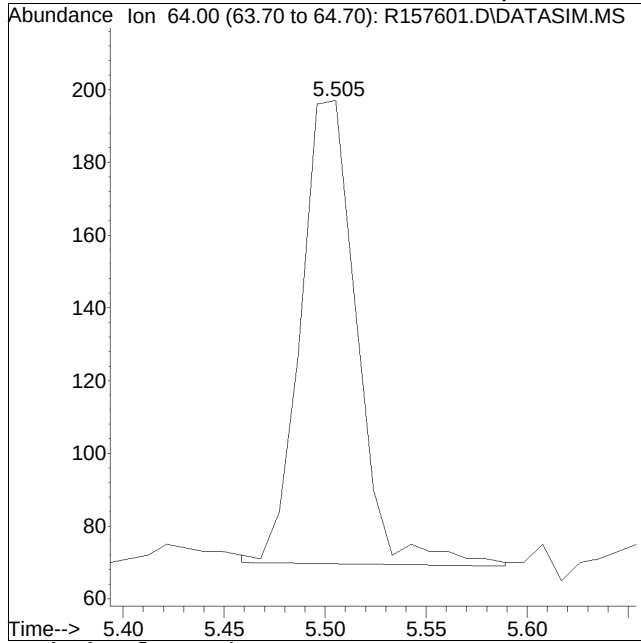
Manual Peak Response = 501 M4

M4 = Poor automated baseline construction.

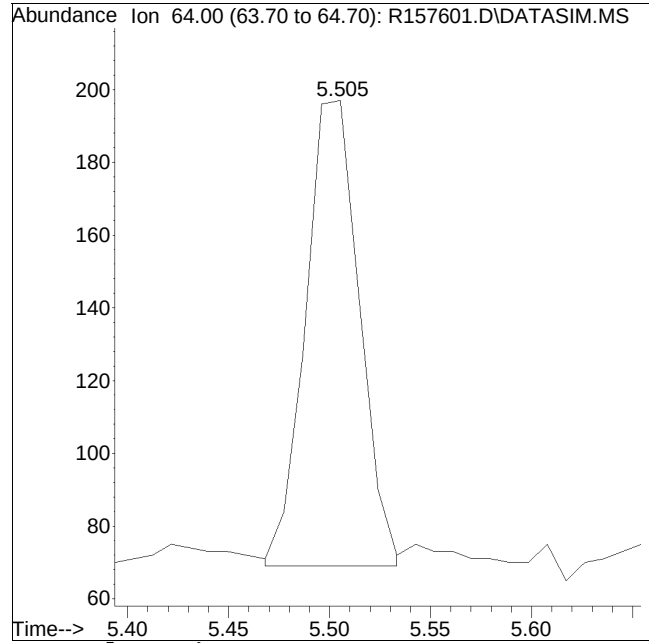
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #9: chloroethane



Original Peak Response = 245



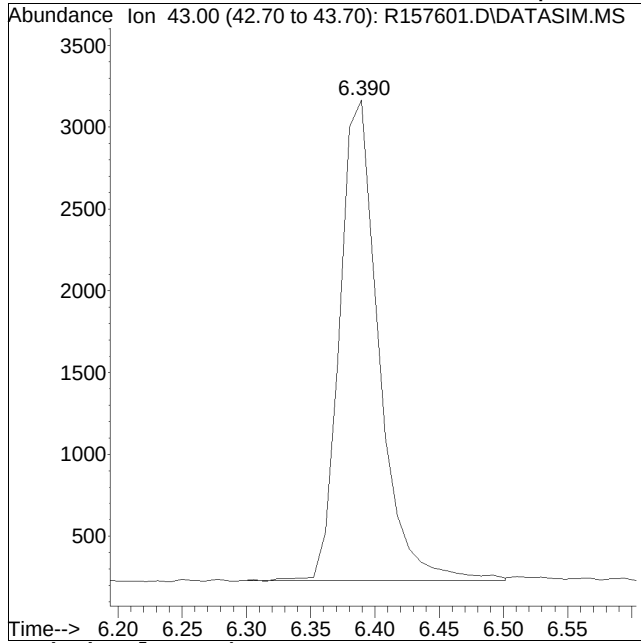
Manual Peak Response = 237 M4

M4 = Poor automated baseline construction.

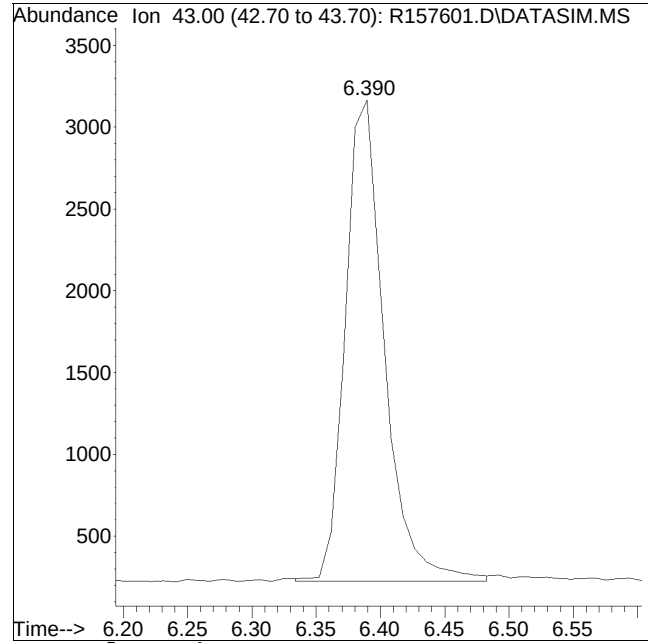
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #13: acetone



Original Peak Response = 6236



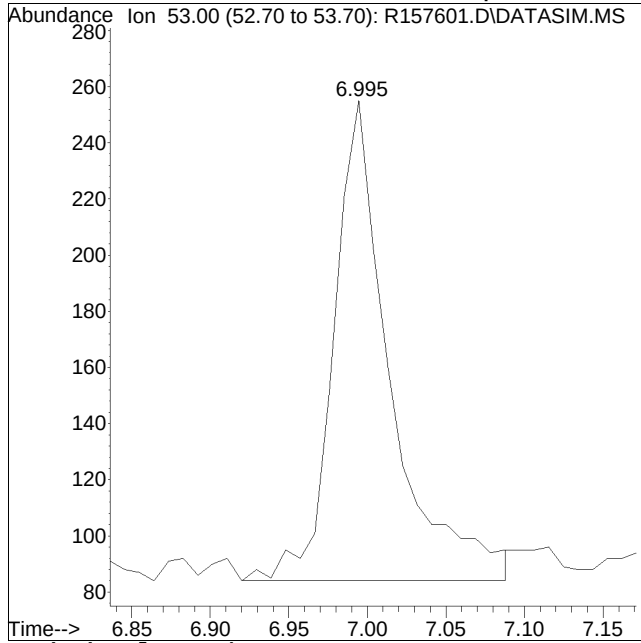
Manual Peak Response = 6209 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

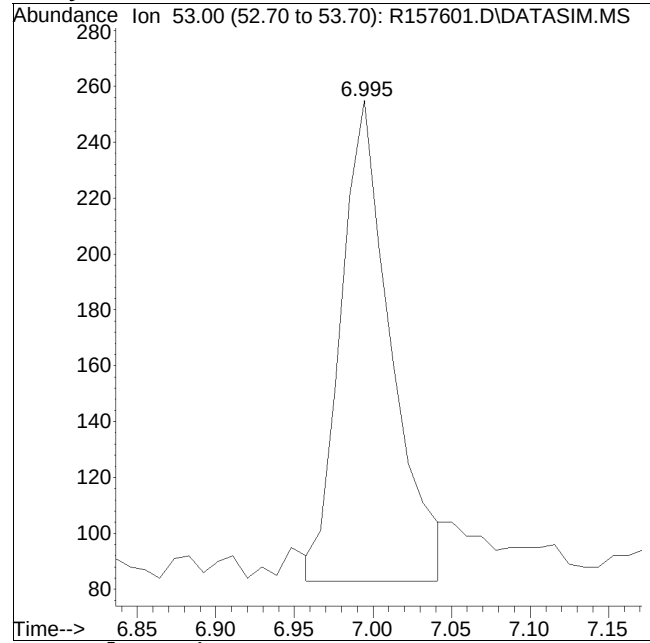
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #16: acrylonitrile



Original Peak Response = 430

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

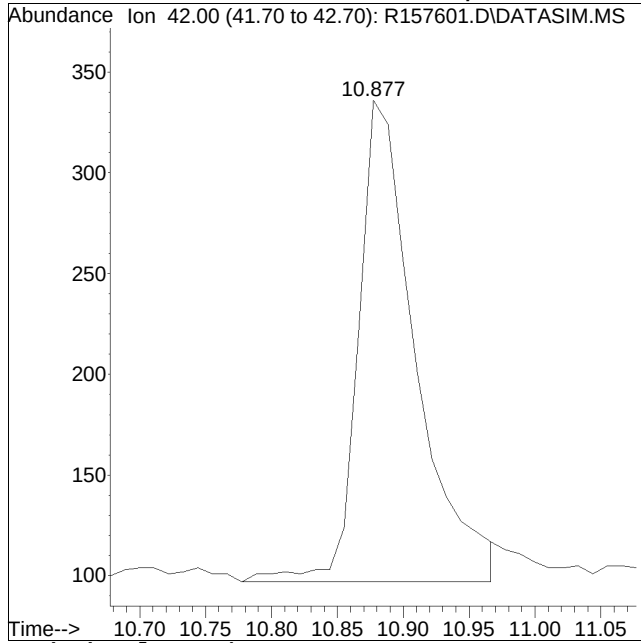


Manual Peak Response = 382 M6

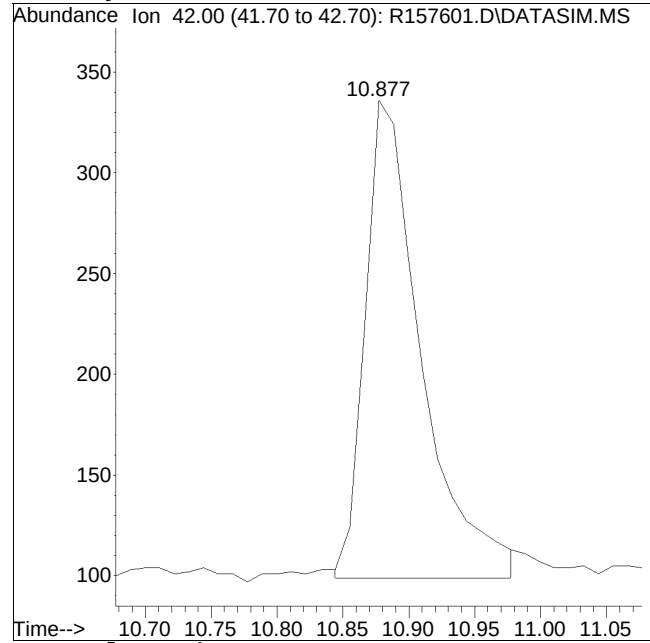
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 726



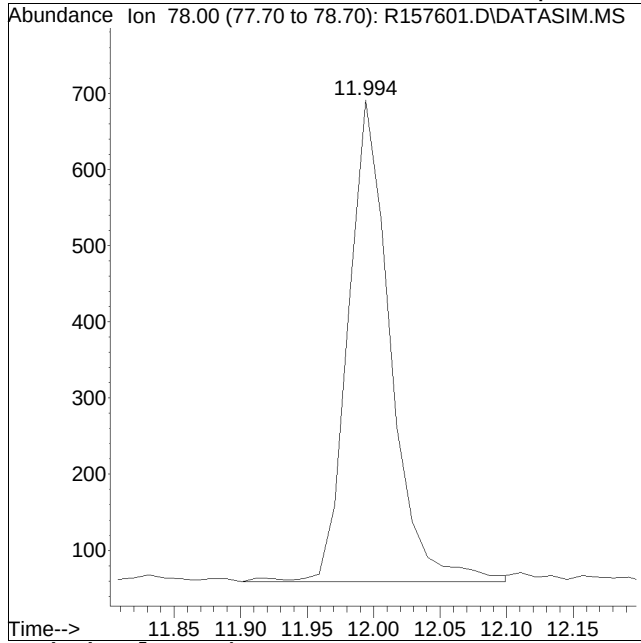
Manual Peak Response = 701 M4

M4 = Poor automated baseline construction.

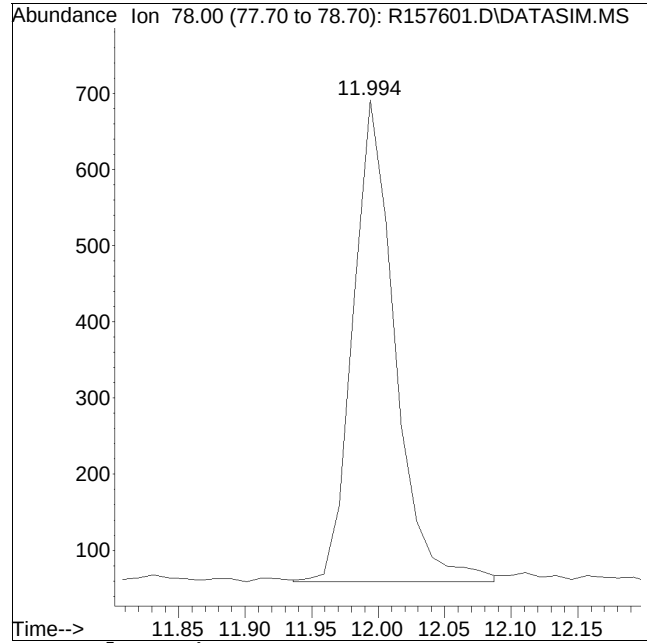
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #37: benzene



Original Peak Response = 1396



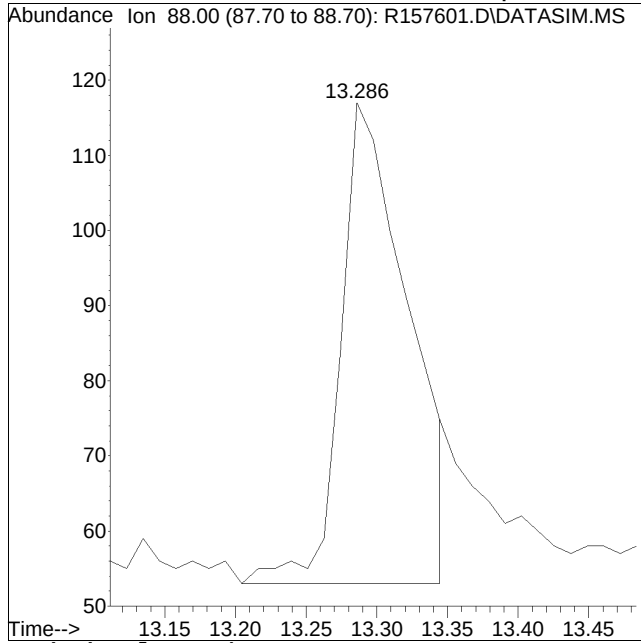
Manual Peak Response = 1383 M4

M4 = Poor automated baseline construction.

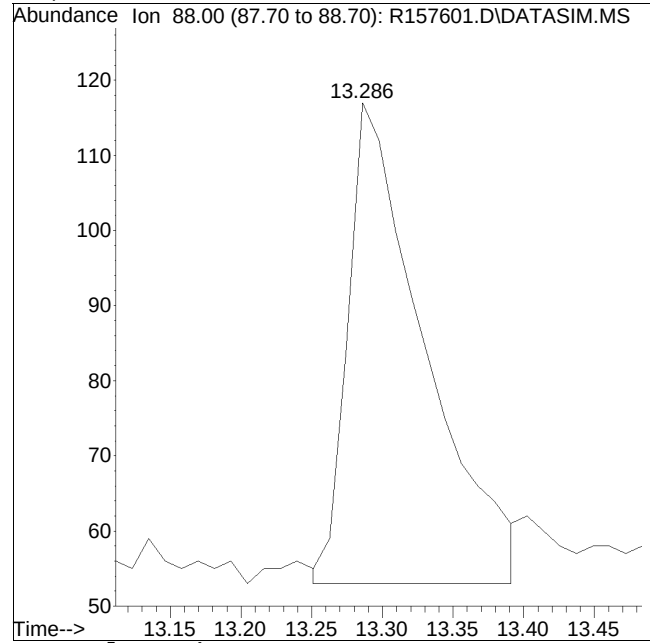
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #43: 1,4-dioxane



Original Peak Response = 214



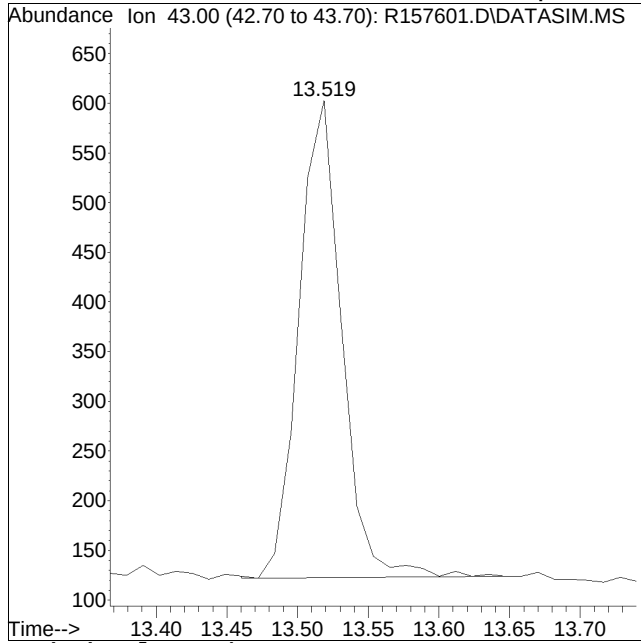
Manual Peak Response = 241 M4

M4 = Poor automated baseline construction.

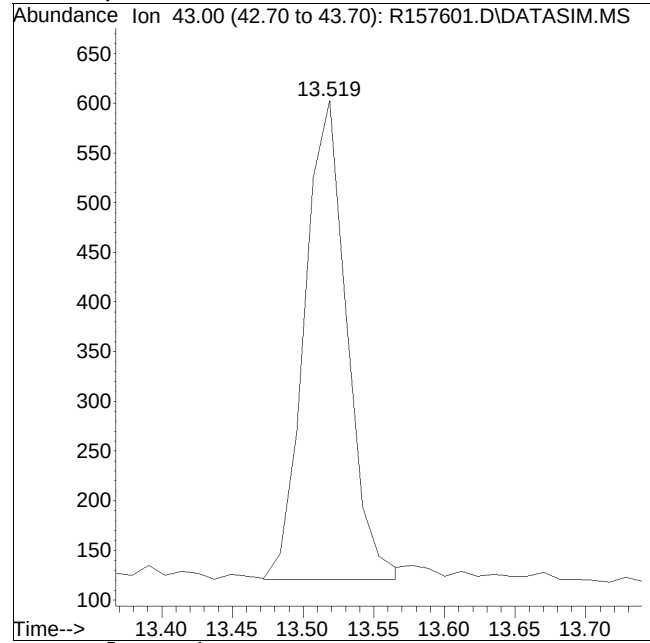
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #46: heptane



Original Peak Response = 1013



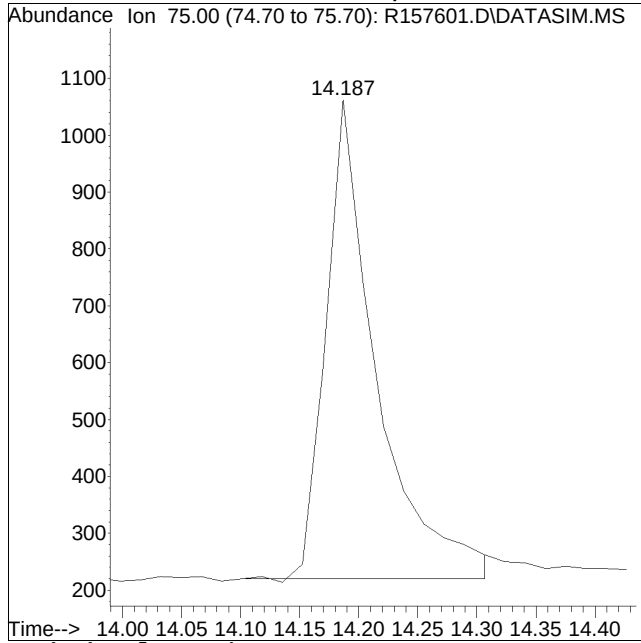
Manual Peak Response = 1001 M4

M4 = Poor automated baseline construction.

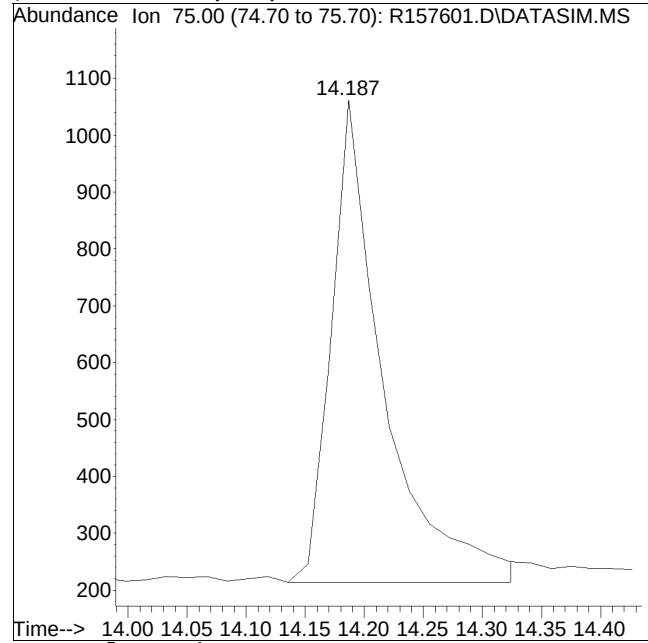
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 2509



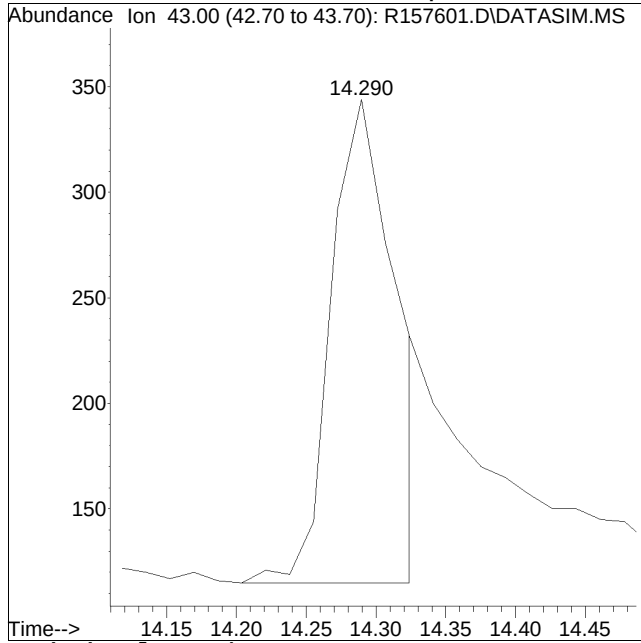
Manual Peak Response = 2610 M4

M4 = Poor automated baseline construction.

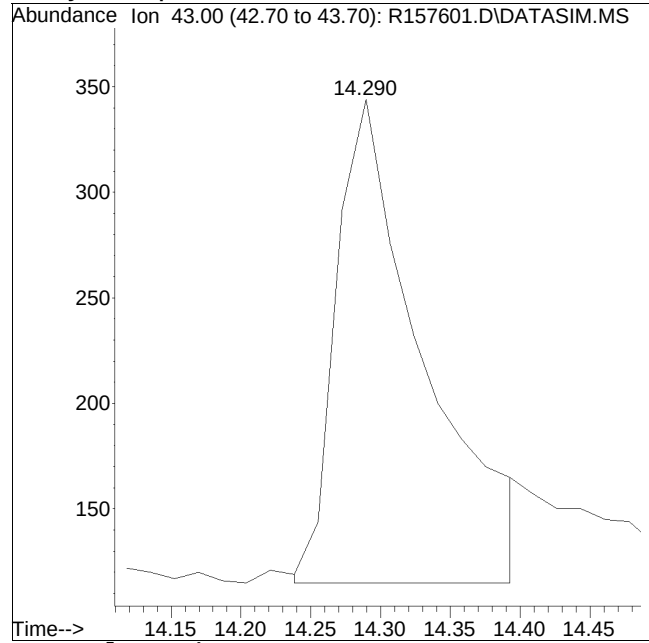
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 743



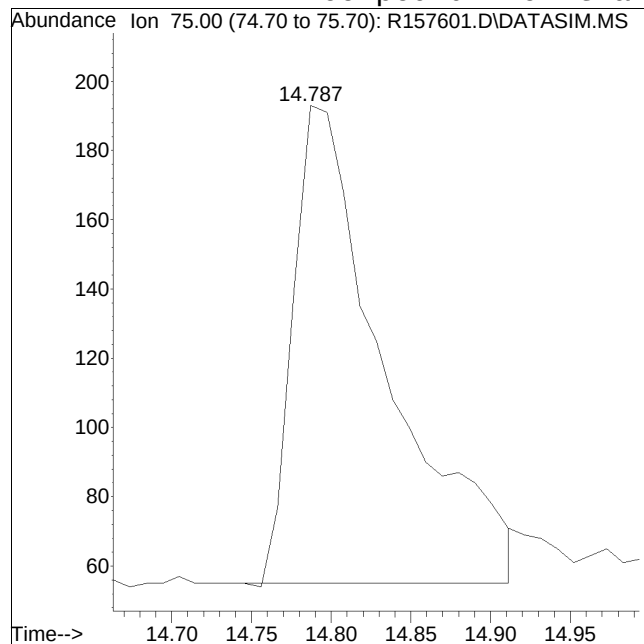
Manual Peak Response = 999 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

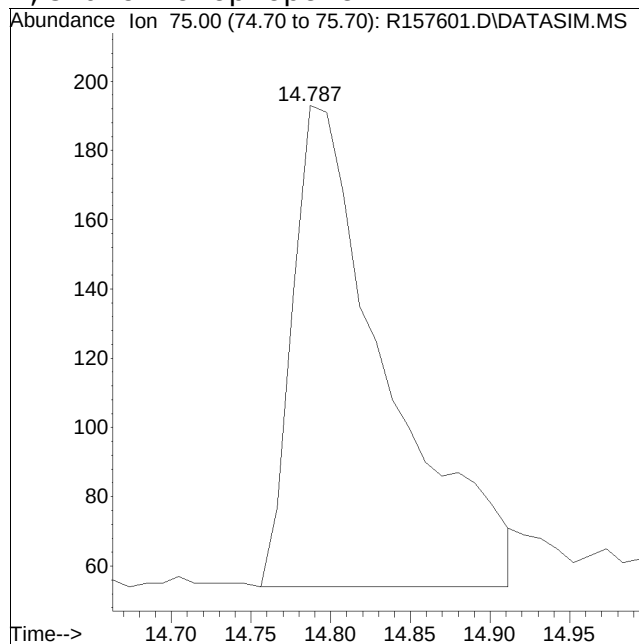
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #49: trans-1,3-dichloropropene



Original Peak Response = 562

M4 = Poor automated baseline construction.

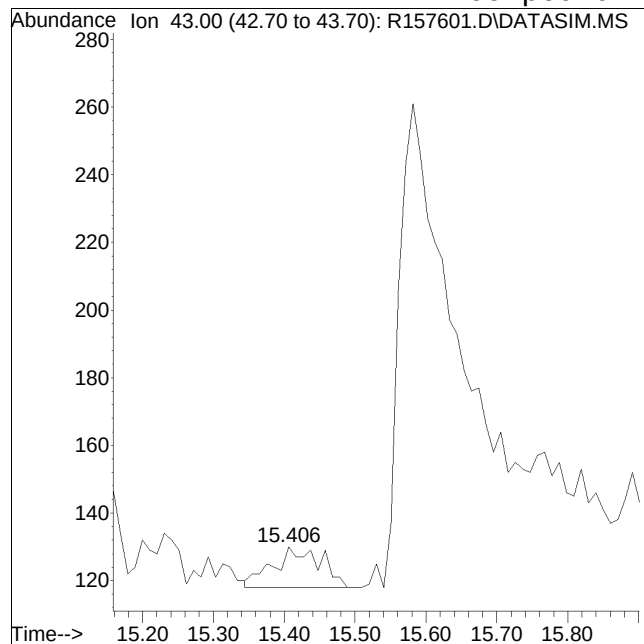


Manual Peak Response = 571 M4

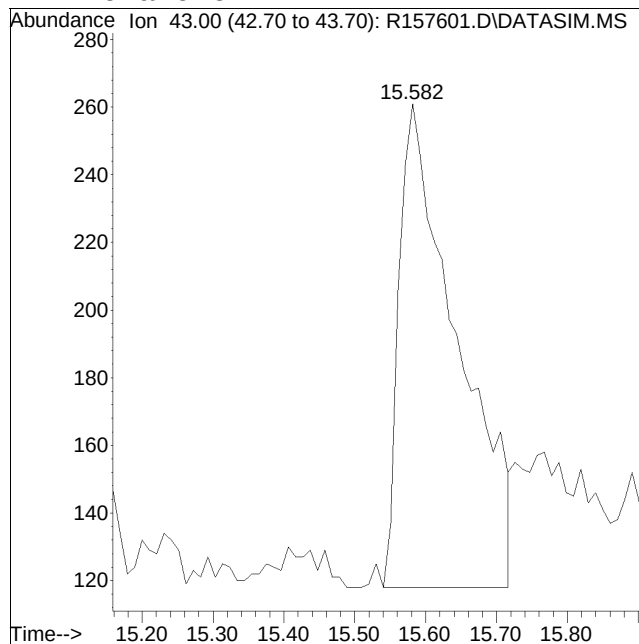
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
 Data File : R157601.D Operator : AIRPIAN01:MB
 Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
 Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #54: 2-hexanone



Original Peak Response = 55



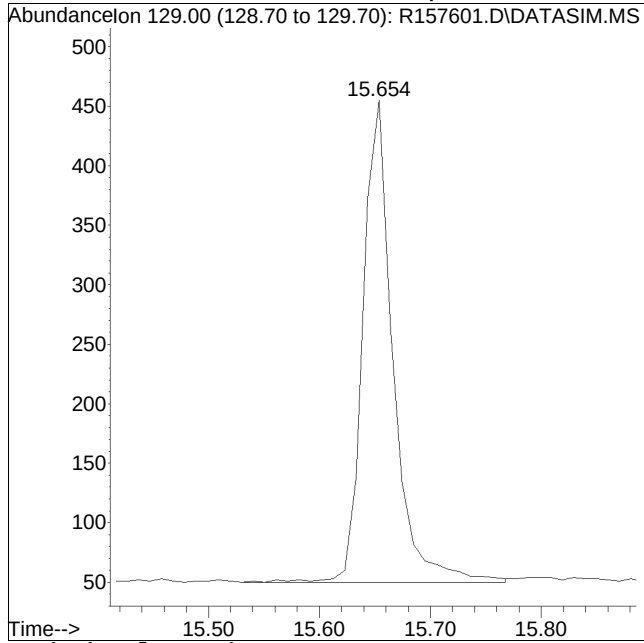
Manual Peak Response = 814 M3

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.

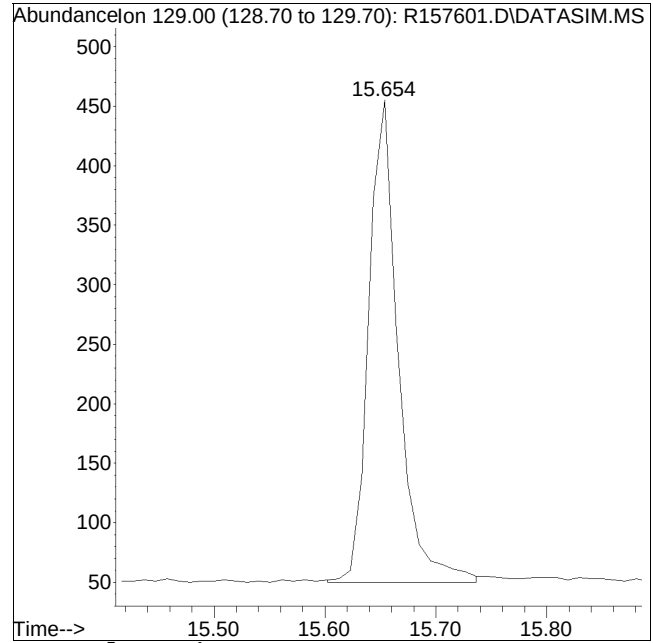
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #55: dibromochloromethane



Original Peak Response = 766



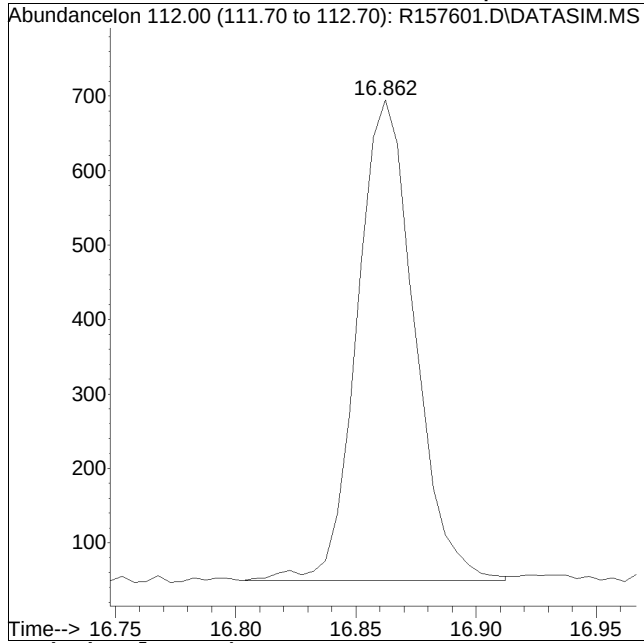
Manual Peak Response = 753 M4

M4 = Poor automated baseline construction.

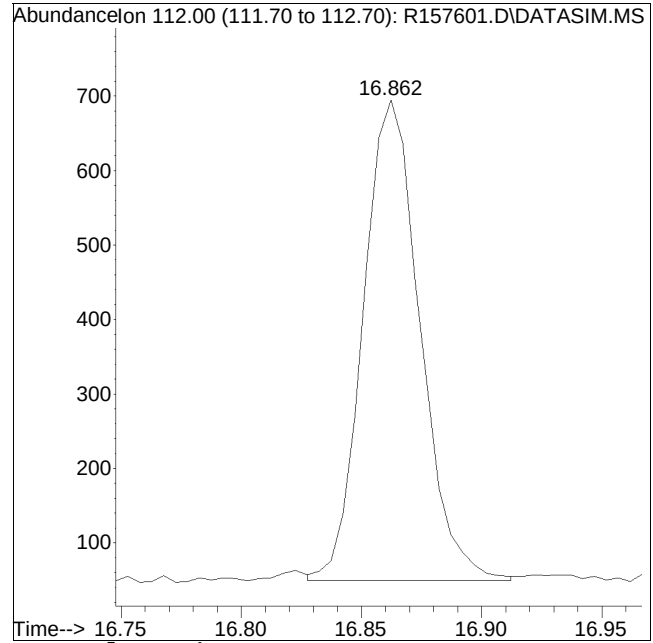
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #59: chlorobenzene



Original Peak Response = 1072



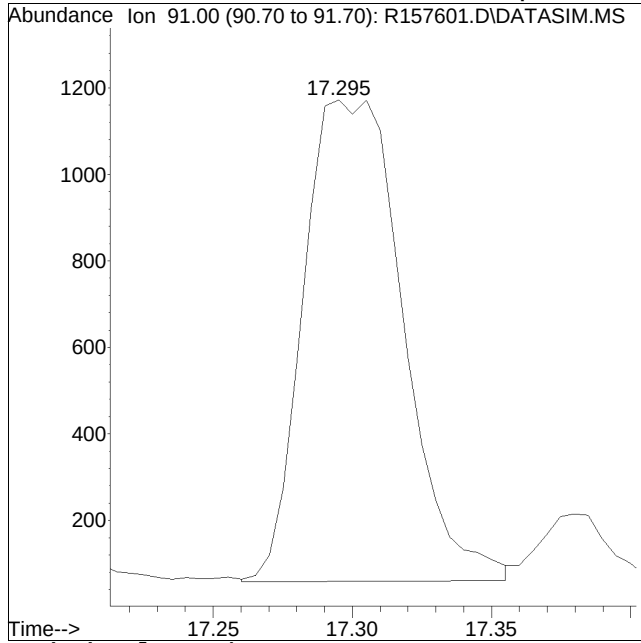
Manual Peak Response = 1061 M4

M4 = Poor automated baseline construction.

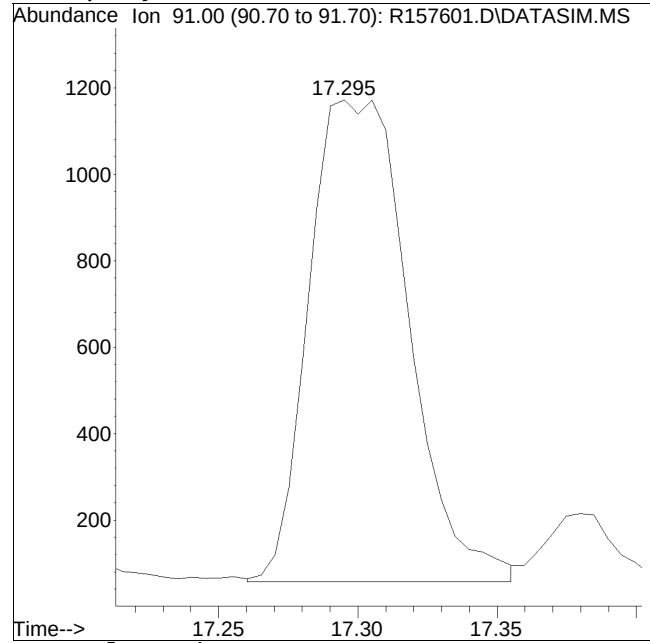
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #61: m+p-xylene



Original Peak Response = 2758



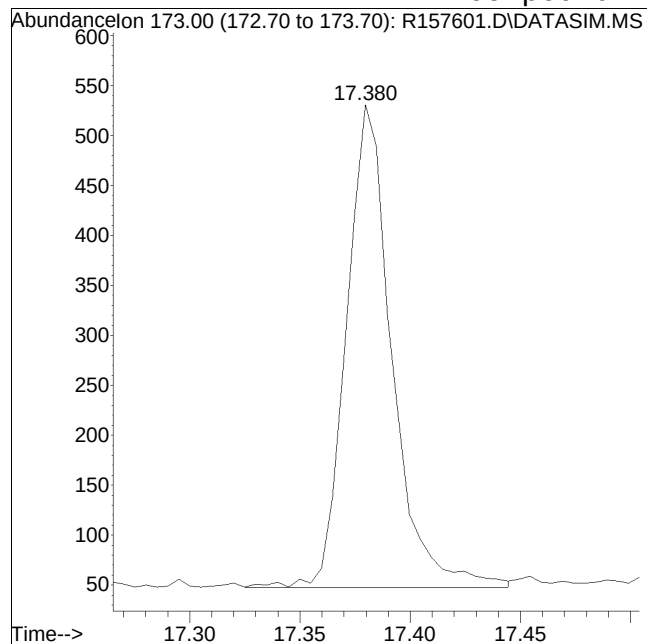
Manual Peak Response = 2773 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

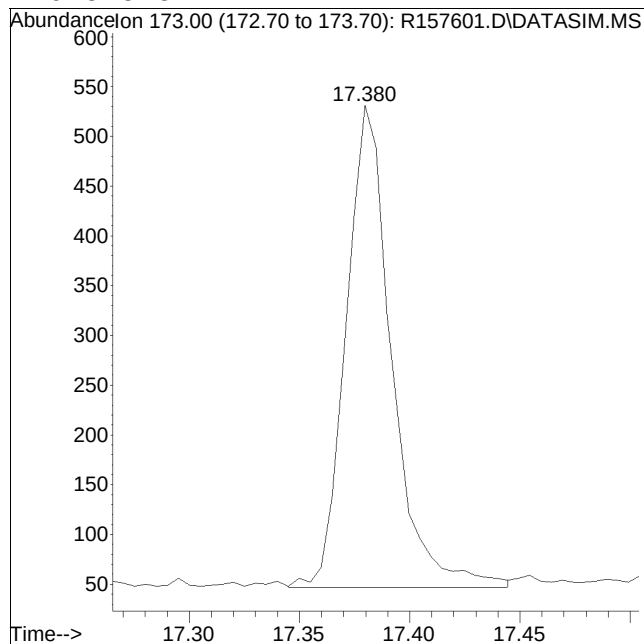
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #62: bromoform



Original Peak Response = 695

M4 = Poor automated baseline construction.

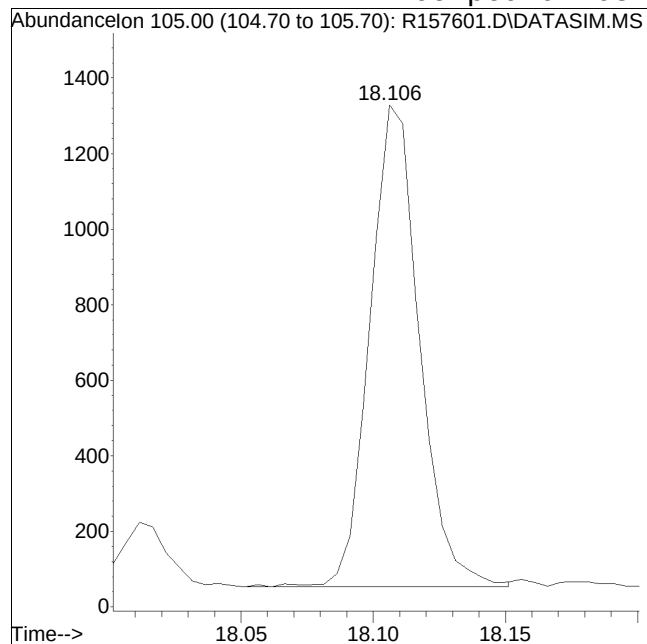


Manual Peak Response = 698 M4

Manual Integration/Negative Proof Report

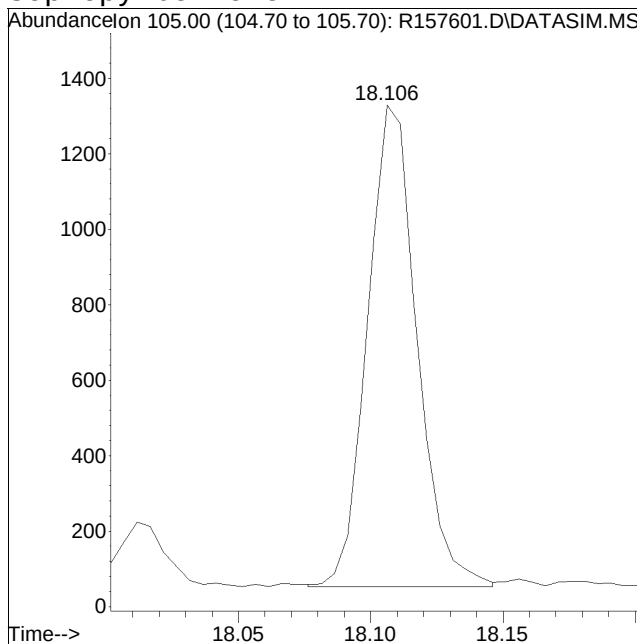
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #68: isopropylbenzene



Original Peak Response = 1668

M4 = Poor automated baseline construction.

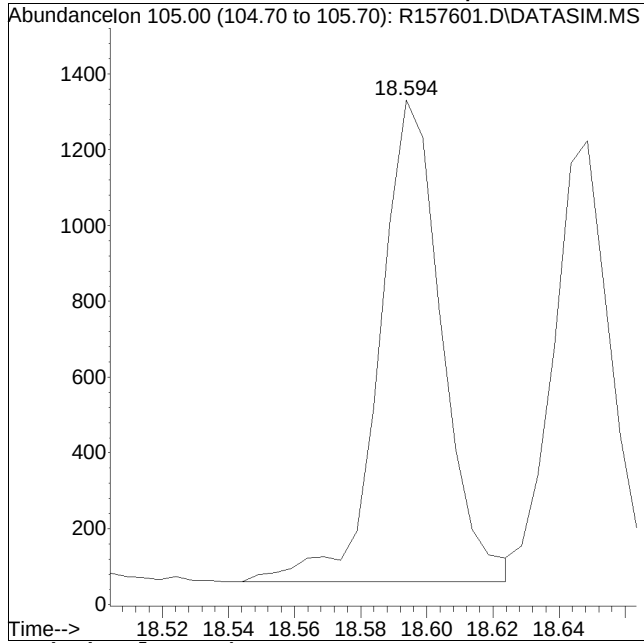


Manual Peak Response = 1660 M4

Manual Integration/Negative Proof Report

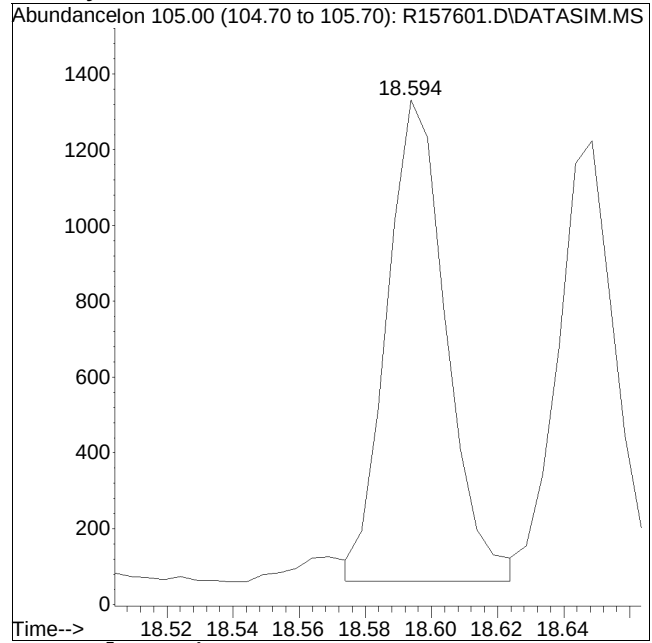
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 1666

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

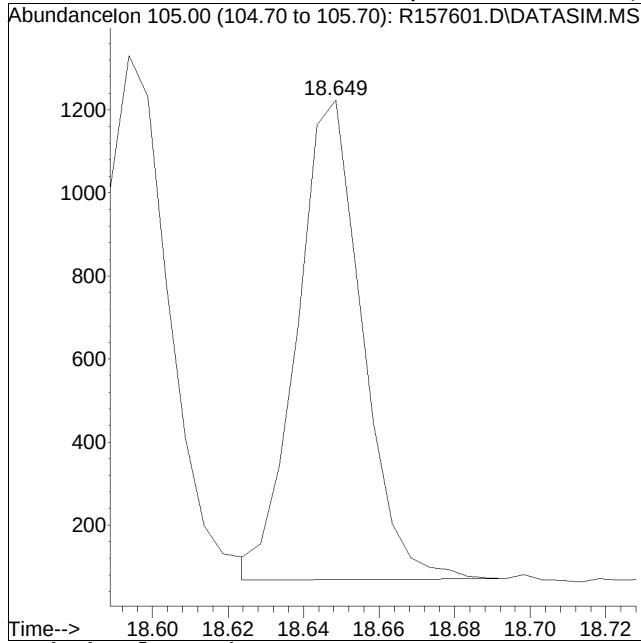


Manual Peak Response = 1581 M6

Manual Integration/Negative Proof Report

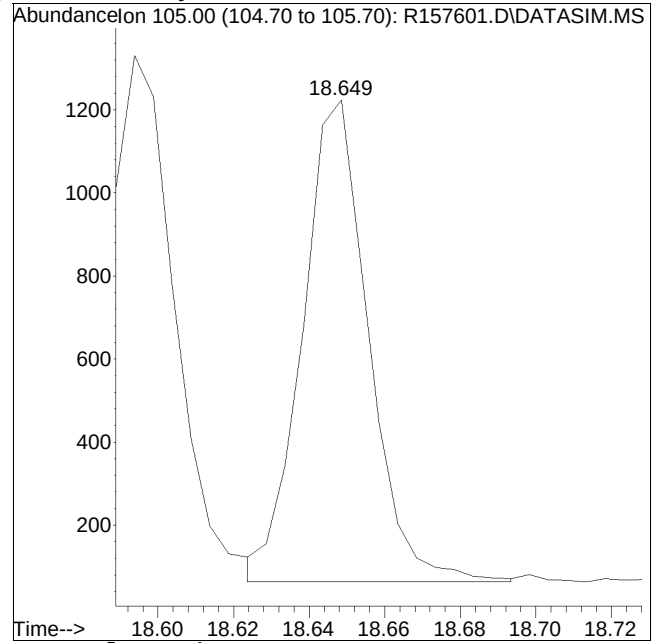
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 1378

M4 = Poor automated baseline construction.

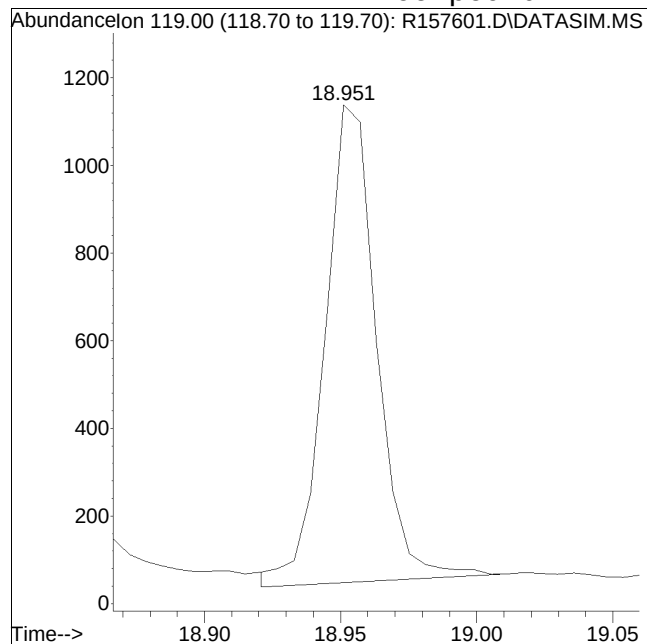


Manual Peak Response = 1405 M4

Manual Integration/Negative Proof Report

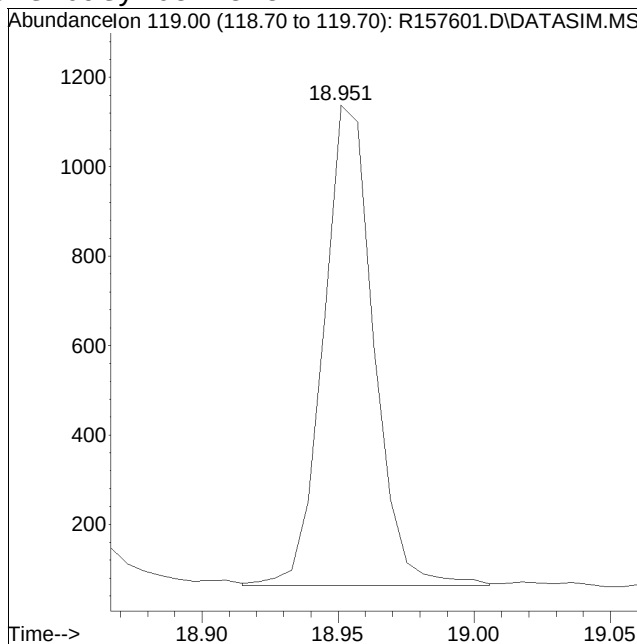
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #72: tert-butylbenzene



Original Peak Response = 1434

M4 = Poor automated baseline construction.

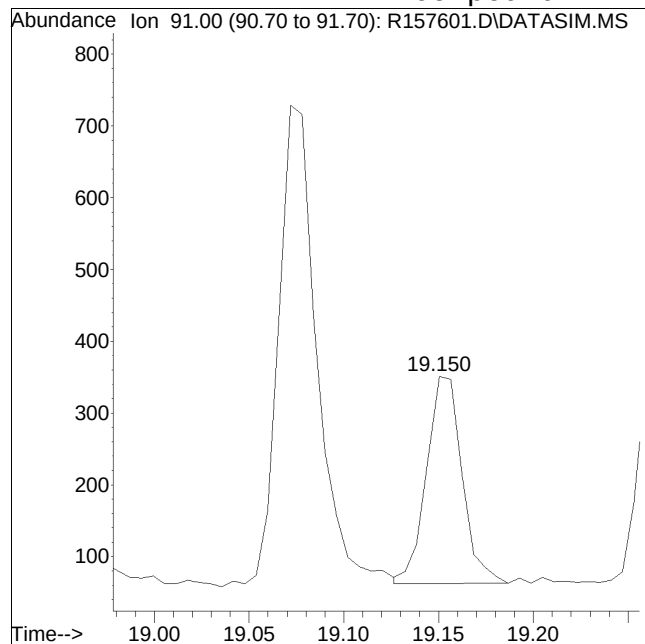


Manual Peak Response = 1381 M4

Manual Integration/Negative Proof Report

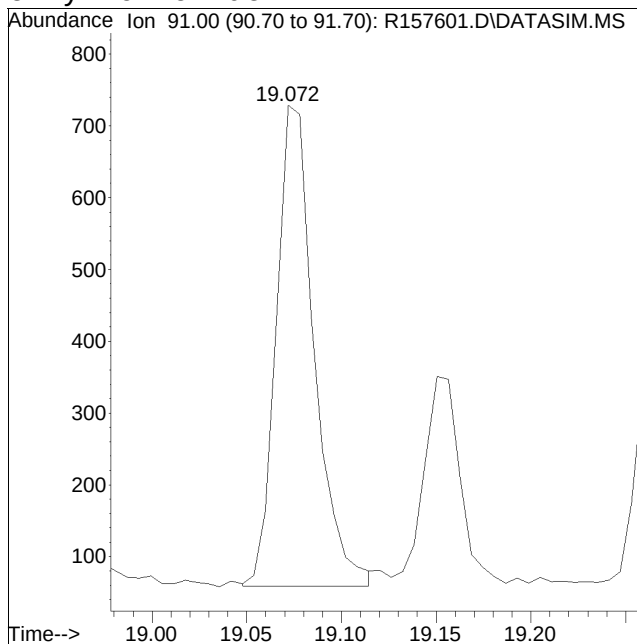
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #74: Benzyl Chloride



Original Peak Response = 377

M4 = Poor automated baseline construction.

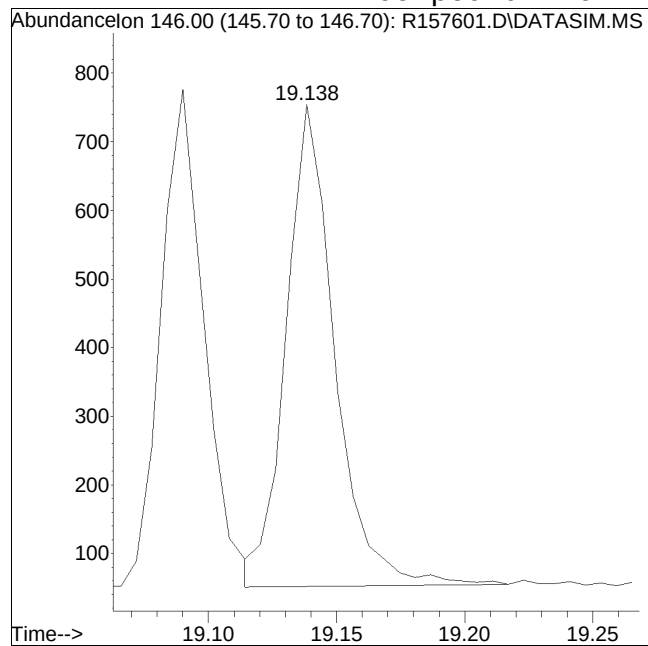


Manual Peak Response = 934 M4

Manual Integration/Negative Proof Report

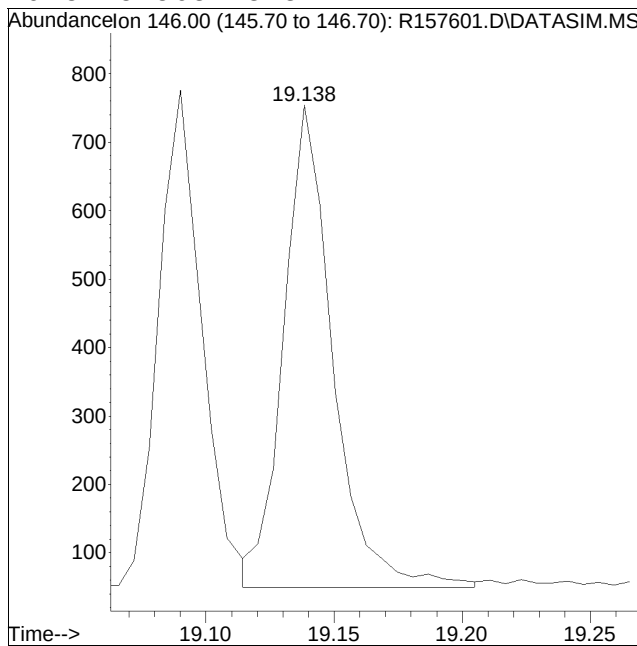
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157601.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 10:31 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.04 Quant Date : 2/27/2018 12:45 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 925

M4 = Poor automated baseline construction.



Manual Peak Response = 938 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157602.D
 Acq On : 26 Feb 2018 11:05 pm
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.1
 Misc : WG1092763
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 12:45:19 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	210563	10.000	ppbV	0.00
Standard Area = 218948			Recovery =		96.17%	
33) 1,4-difluorobenzene	12.401	114	283326	10.000	ppbV	0.00
Standard Area = 315293			Recovery =		89.86%	
51) chlorobenzene-D5	16.823	54	81658	10.000	ppbV	0.00
Standard Area = 85423			Recovery =		95.59%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.066	65	114890	10.456	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =		104.56%	
53) toluene-D8	15.128	98	259285	9.954	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.54%	
67) bromofluorobenzene	18.012	95	144152	9.836	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.36%	
Target Compounds						
					Qvalue	
2) propylene	4.051	41	1099M6	0.100	ppbV	
3) dichlorodifluoromethane	4.152	85	2067	0.087	ppbV	96
4) chloromethane	4.364	50	1264M4	0.104	ppbV	
5) Freon-114	4.521	85	2936	0.097	ppbV	98
6) vinyl chloride	4.677	62	1227	0.098	ppbV	89
7) 1,3-butadiene	4.867	54	822M4	0.096	ppbV	
8) bromomethane	5.254	94	1024	0.097	ppbV	92
9) chloroethane	5.505	64	561	0.095	ppbV #	82
10) ethanol	5.719	31	8560	0.882	ppbV	95
11) vinyl bromide	5.989	106	893	0.095	ppbV	100
12) acrolein	6.185	56	552	0.104	ppbV #	89
13) acetone	6.380	43	11754	0.740	ppbV #	97
14) trichlorofluoromethane	6.566	101	2617	0.099	ppbV	97
15) isopropyl alcohol	6.743	45	12123	0.560	ppbV	98
16) acrylonitrile	6.995	53	774M6	0.086	ppbV	
17) 1,1-dichloroethene	7.404	61	1975	0.097	ppbV	96
18) tertiary butyl alcohol	7.562	59	2765	0.116	ppbV #	57
19) methylene chloride	7.572	49	2035M4	0.125	ppbV	
20) 3-chloropropene	7.721	41	1676	0.099	ppbV	89
21) carbon disulfide	7.897	76	3384	0.102	ppbV #	1
22) Freon 113	7.916	101	1980	0.095	ppbV	97
23) trans-1,2-dichloroethene	8.754	61	1819	0.096	ppbV	91
24) 1,1-dichloroethane	8.991	63	2279	0.097	ppbV	91

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157602.D
 Acq On : 26 Feb 2018 11:05 pm
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.1
 Misc : WG1092763
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 12:45:19 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.121	73	2689	0.096	ppbV #	73
26) vinyl acetate	9.211	43	2856	0.106	ppbV #	90
27) 2-butanone	9.530	43	3006	0.106	ppbV #	97
28) cis-1,2-dichloroethene	9.996	61	2016	0.099	ppbV	90
29) Ethyl Acetate	10.309	61	458M4	0.098	ppbV	
30) chloroform	10.341	83	2800	0.097	ppbV #	95
31) Tetrahydrofuran	10.866	42	1736	0.111	ppbV	96
32) 1,2-dichloroethane	11.188	62	1765	0.099	ppbV #	88
34) hexane	10.234	57	2203	0.099	ppbV #	52
36) 1,1,1-trichloroethane	11.477	97	2092M4	0.098	ppbV	
37) benzene	11.994	78	3229	0.100	ppbV #	88
38) carbon tetrachloride	12.157	117	1954	0.097	ppbV #	96
39) cyclohexane	12.297	56	1788	0.099	ppbV	93
40) dibromomethane	12.902	93	1396M4	0.098	ppbV	
41) 1,2-dichloropropane	12.925	63	1412	0.097	ppbV #	93
42) bromodichloromethane	13.146	83	2318M6	0.094	ppbV	
43) 1,4-dioxane	13.263	88	575M4	0.092	ppbV	
44) trichloroethene	13.193	130	1029	0.088	ppbV	96
45) 2,2,4-trimethylpentane	13.216	57	5671	0.097	ppbV #	90
46) heptane	13.519	43	2440	0.099	ppbV #	95
47) cis-1,3-dichloropropene	14.187	75	6499	0.092	ppbV #	90
48) 4-methyl-2-pentanone	14.255	43	2809M4	0.093	ppbV	
49) trans-1,3-dichloropropene	14.777	75	1503	0.089	ppbV #	73
50) 1,1,2-trichloroethane	14.952	97	1169	0.094	ppbV	96
52) toluene	15.231	91	3518	0.097	ppbV	100
54) 2-hexanone	15.540	43	2158	0.073	ppbV #	92
55) dibromochloromethane	15.654	129	1834	0.089	ppbV	96
56) 1,2-dibromoethane	15.881	107	1808	0.090	ppbV	98
57) tetrachloroethene	16.283	166	1271	0.091	ppbV #	92
58) 1,1,1,2-tetrachloroethane	16.847	131	1203	0.087	ppbV	94
59) chlorobenzene	16.862	112	2493M6	0.091	ppbV	
60) ethylbenzene	17.161	91	4215	0.090	ppbV	99
61) m+p-xylene	17.305	91	6422	0.176	ppbV	97
62) bromoform	17.380	173	1560	0.083	ppbV	98
63) styrene	17.589	104	2018	0.083	ppbV	92
64) 1,1,2,2-tetrachloroethane	17.668	83	2961	0.090	ppbV	98
65) o-xylene	17.668	91	3496	0.091	ppbV	98
66) 1,2,3-trichloropropane	17.773	75	2271	0.091	ppbV #	90
68) isopropylbenzene	18.106	105	4033	0.091	ppbV	96
69) bromobenzene	18.191	77	2575	0.091	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157602.D
 Acq On : 26 Feb 2018 11:05 pm
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.1
 Misc : WG1092763
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 12:45:19 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

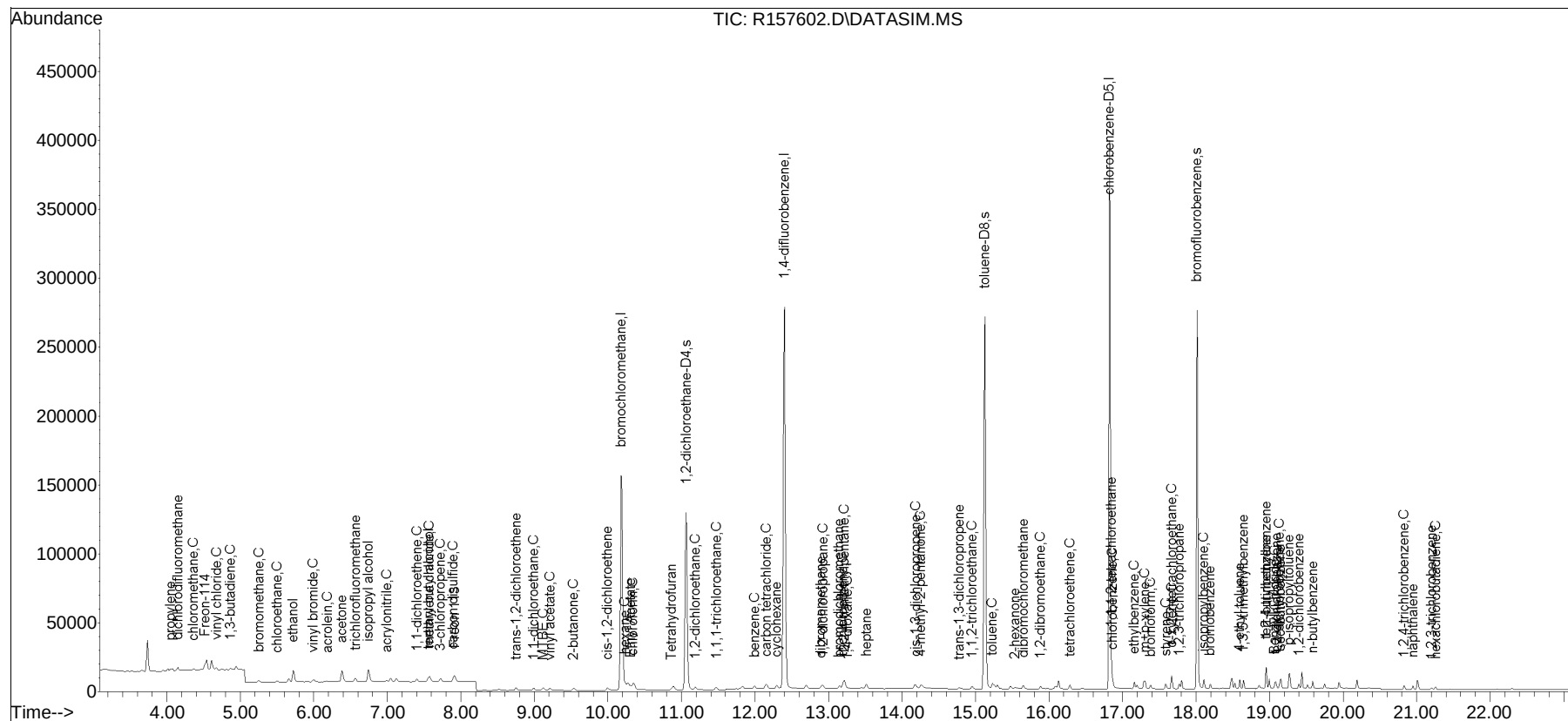
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.594	105	3934M6	0.087	ppbV	
71) 1,3,5-trimethylbenzene	18.644	105	3482	0.088	ppbV	98
72) tert-butylbenzene	18.951	119	3241M4	0.087	ppbV	
73) 1,2,4-trimethylbenzene	18.951	105	3308	0.086	ppbV #	91
74) Benzyl Chloride	19.072	91	2427	0.068	ppbV	90
75) 1,3-dichlorobenzene	19.090	146	2164	0.085	ppbV	94
76) 1,4-dichlorobenzene	19.138	146	2235M4	0.085	ppbV	
77) sec-butylbenzene	19.151	105	4860	0.088	ppbV	98
78) p-isopropyltoluene	19.265	119	3795	0.086	ppbV	97
79) 1,2-dichlorobenzene	19.398	146	2081	0.086	ppbV	96
80) n-butylbenzene	19.586	91	4104	0.086	ppbV	98
81) 1,2,4-trichlorobenzene	20.828	180	1301	0.074	ppbV #	75
82) naphthalene	20.948	128	3659	0.080	ppbV	98
83) 1,2,3-trichlorobenzene	21.200	180	1247	0.077	ppbV #	72
84) hexachlorobutadiene	21.260	225	1296	0.085	ppbV #	86

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

Sub List : Default - All compounds listed0226SIM_ICAL\R157606.D

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
Data File : R157602.D
Acq On : 26 Feb 2018 11:05 pm
Operator : AIRPIAN01:MB
Sample : IT015-SIMSTD0.1
Misc : WG1092763
ALS Vial : 5 Sample Multiplier: 1

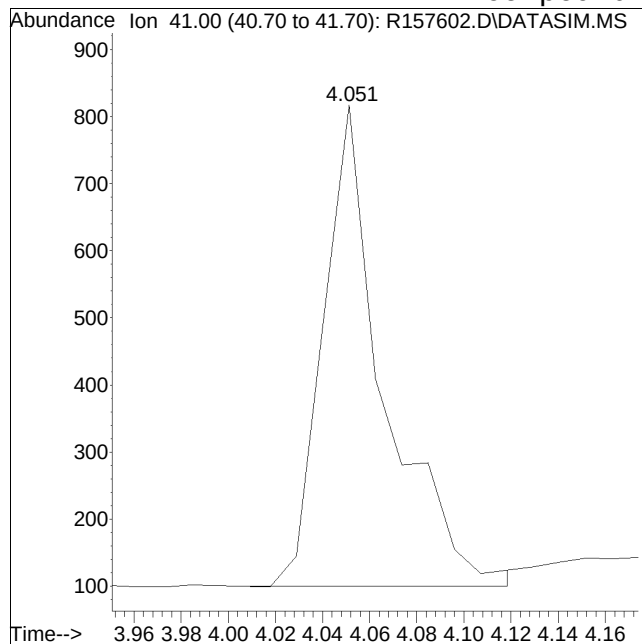
Quant Time: Feb 27 12:45:19 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



Manual Integration/Negative Proof Report

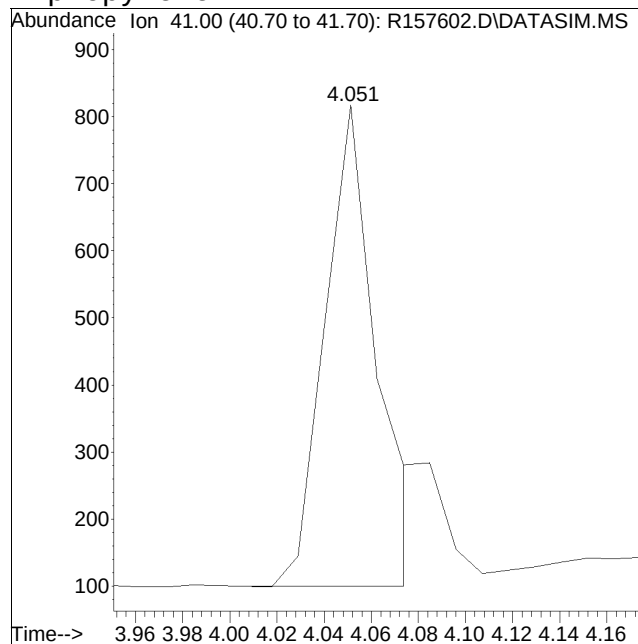
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #2: propylene



Original Peak Response = 1288

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

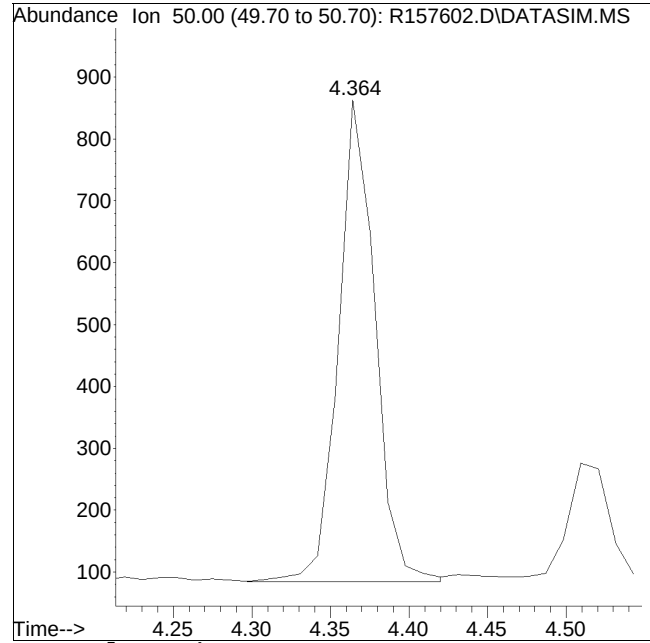
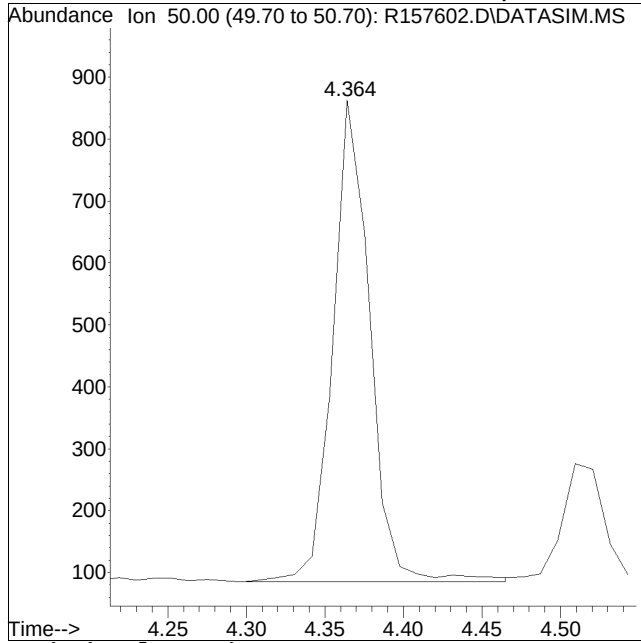


Manual Peak Response = 1099 M6

Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

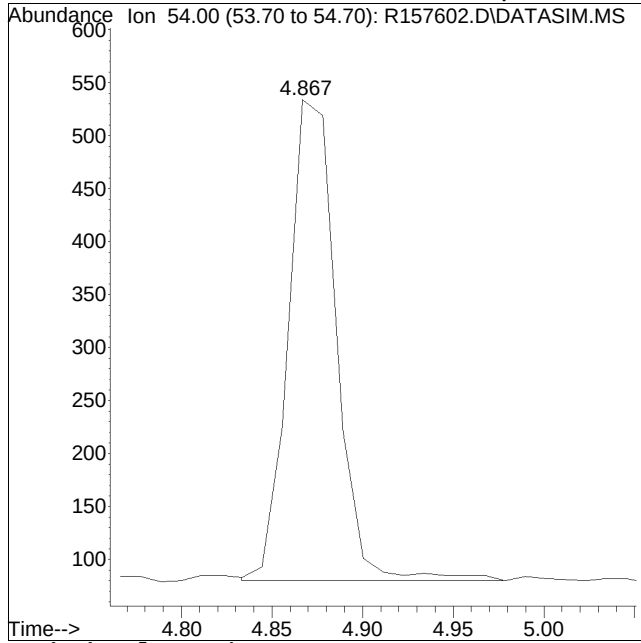
Compound #4: chloromethane



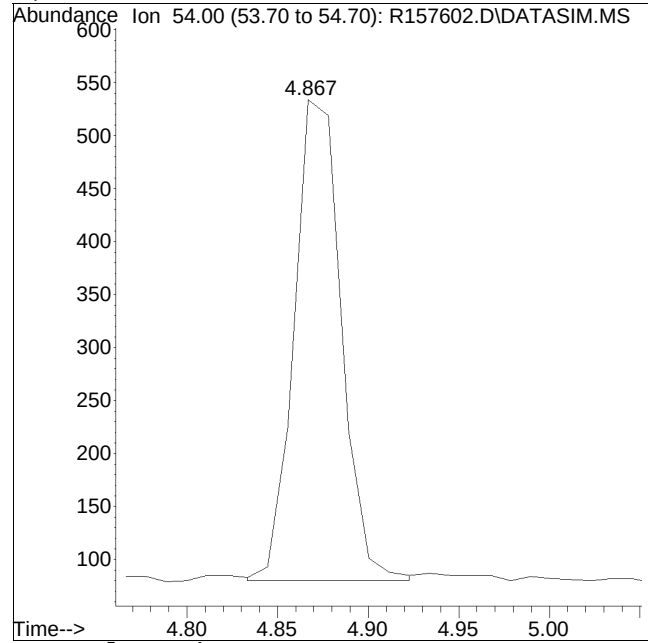
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\20180226.M
Data File : R157602.D
Date Inj'd : 2/26/2018 11:05 pm
Sample : IT015-SIMSTD0.1
Method : TSIM180226.M
Operator : AIRPIAN01:MB
Instrument : Air Piano 1
Quant Date : 2/27/2018 12:45 pm

Compound #7: 1,3-butadiene



Original Peak Response = 837



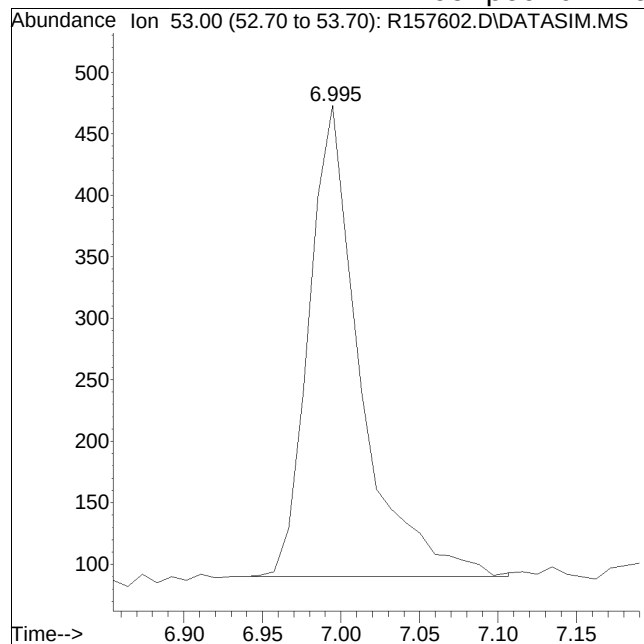
Manual Peak Response = 822 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

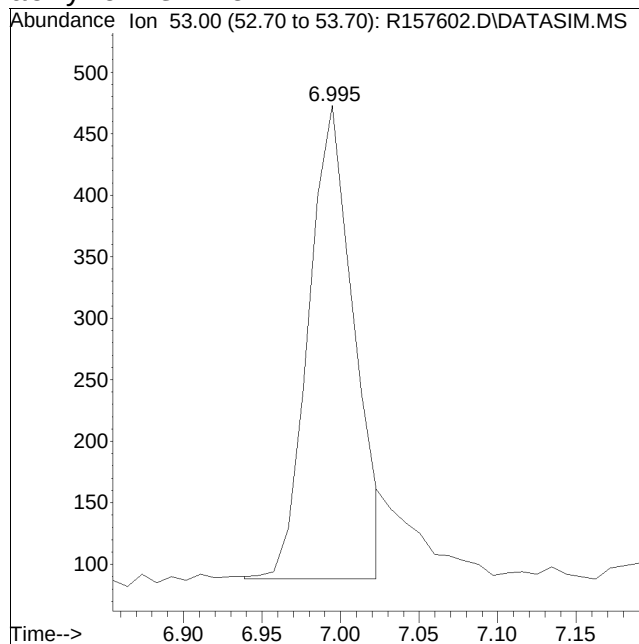
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #16: acrylonitrile



Original Peak Response = 873

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

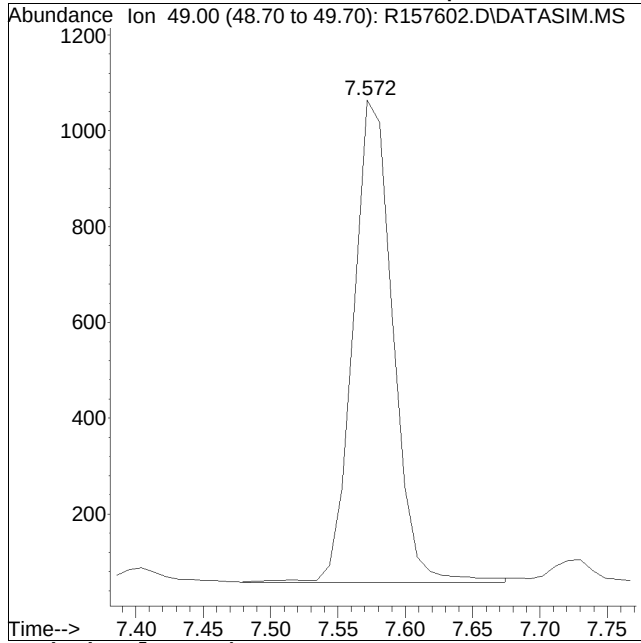


Manual Peak Response = 774 M6

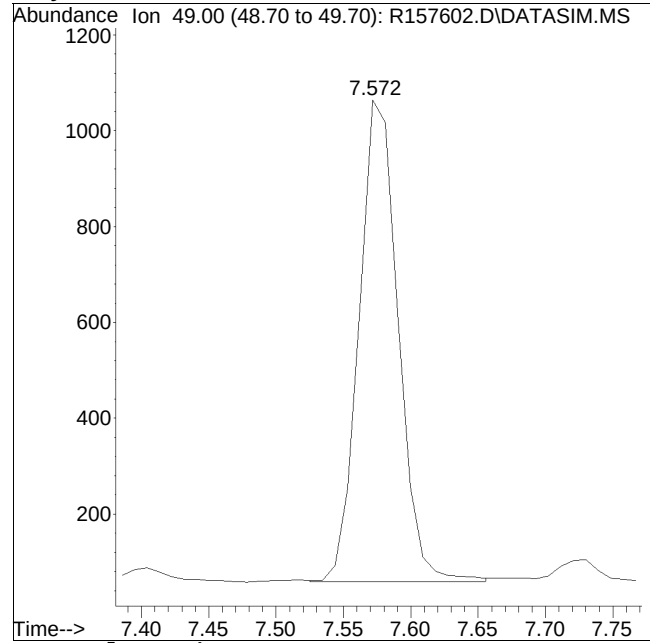
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #19: methylene chloride



Original Peak Response = 2062



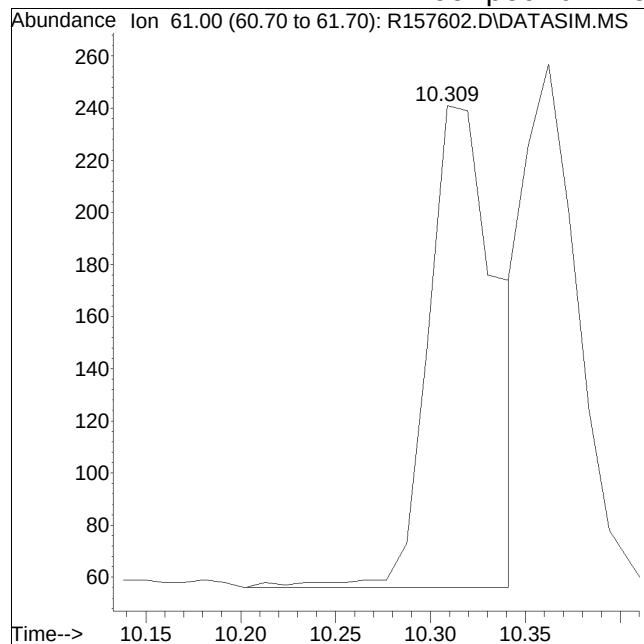
Manual Peak Response = 2035 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

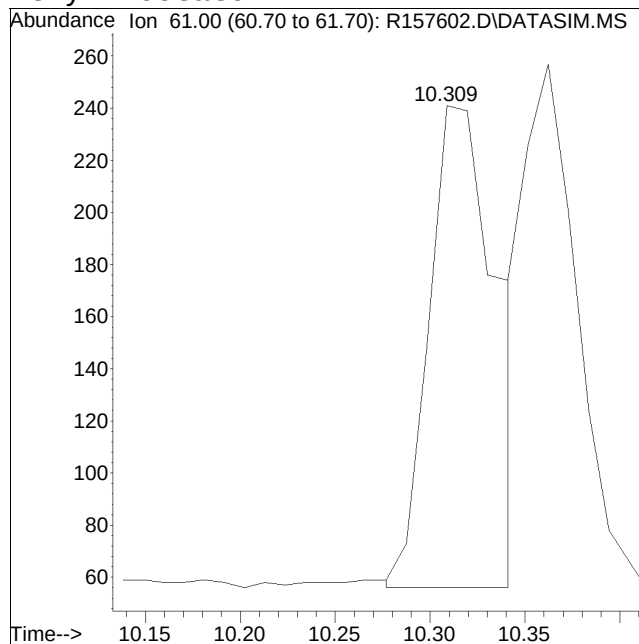
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #29: Ethyl Acetate



Original Peak Response = 467

M4 = Poor automated baseline construction.

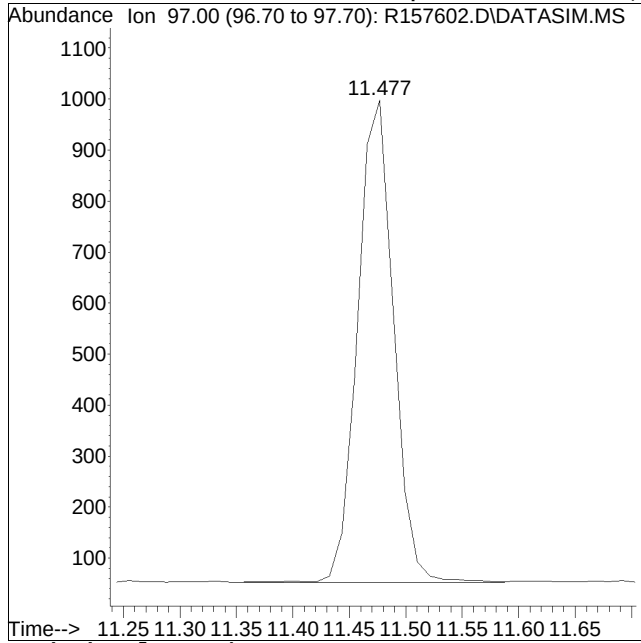


Manual Peak Response = 458 M4

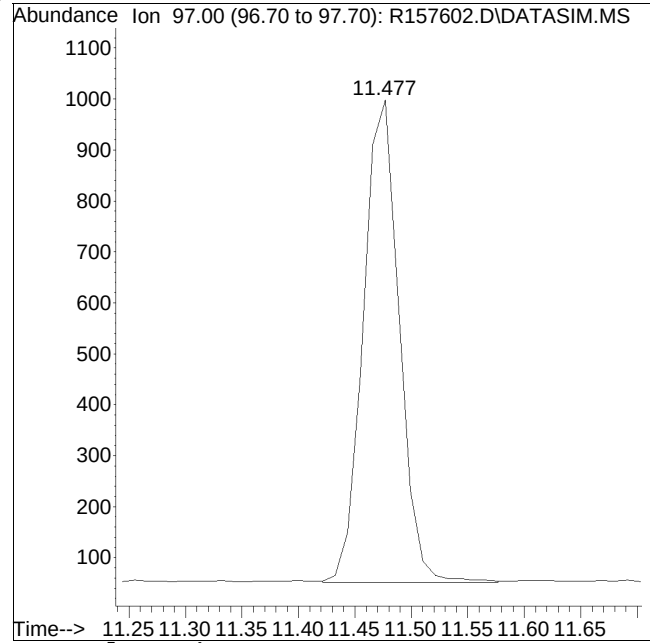
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #36: 1,1,1-trichloroethane



Original Peak Response = 2088



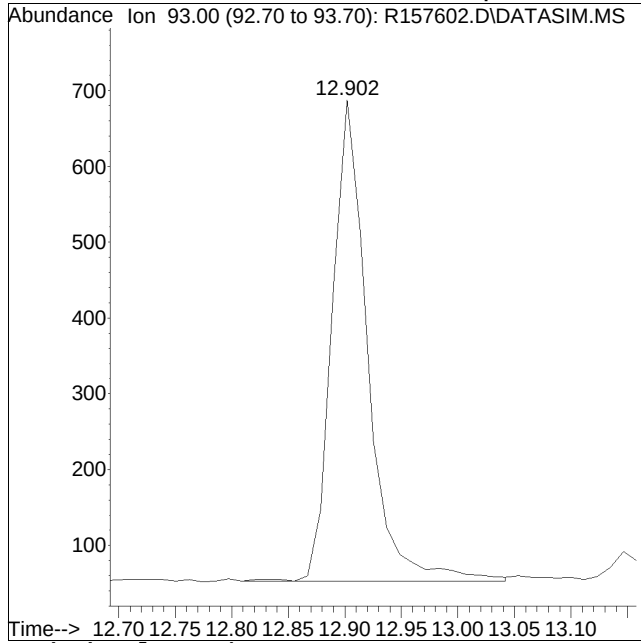
Manual Peak Response = 2092 M4

M4 = Poor automated baseline construction.

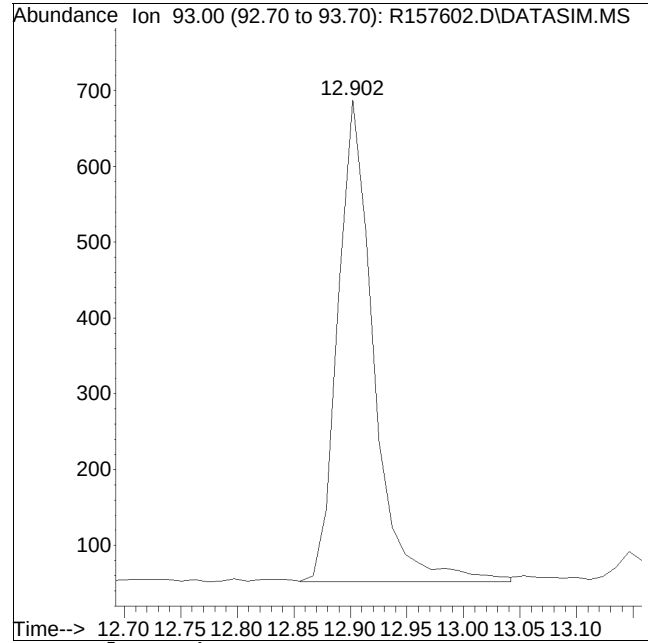
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #40: dibromomethane



Original Peak Response = 1389



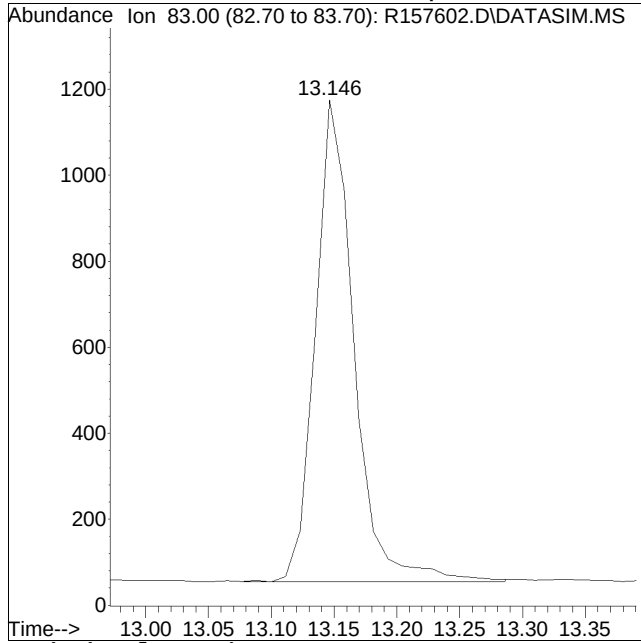
Manual Peak Response = 1396 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

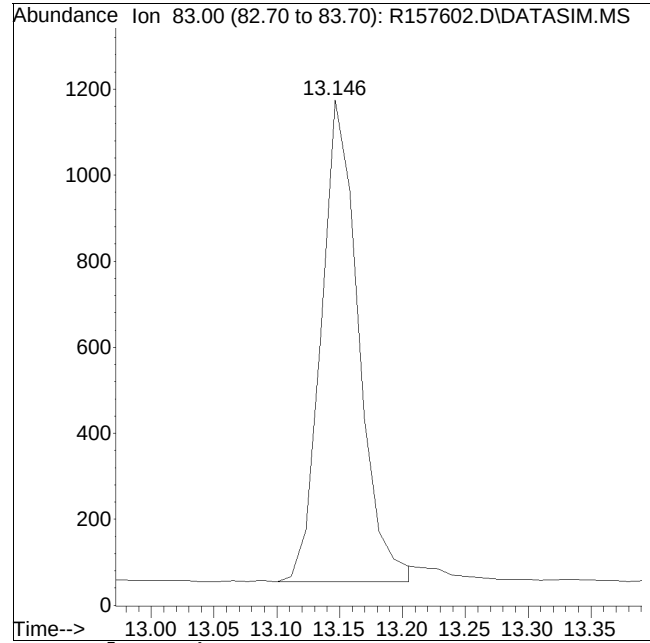
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #42: bromodichloromethane



Original Peak Response = 2389

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

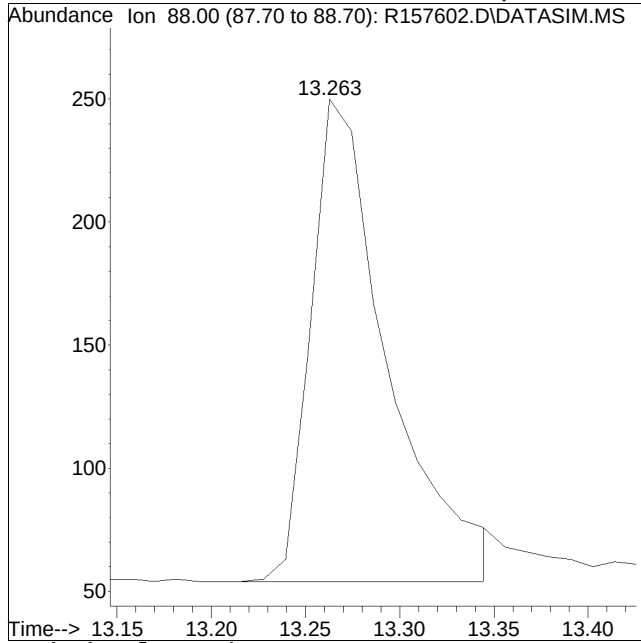


Manual Peak Response = 2318 M6

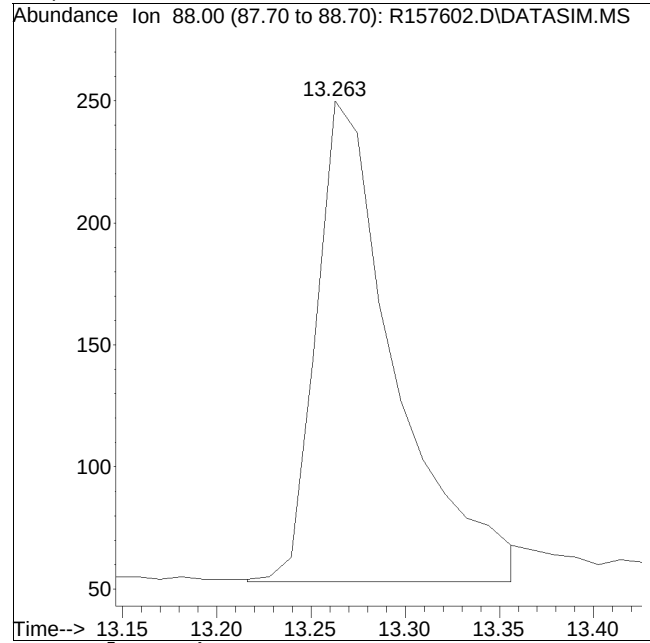
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #43: 1,4-dioxane



Original Peak Response = 557



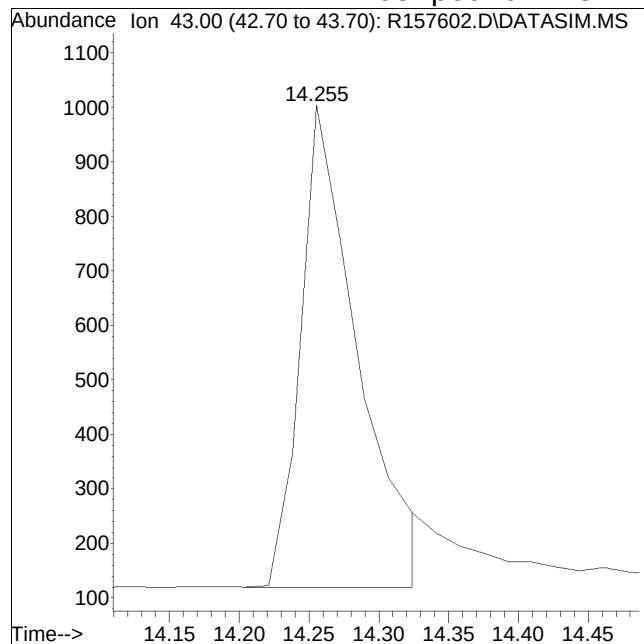
Manual Peak Response = 575 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

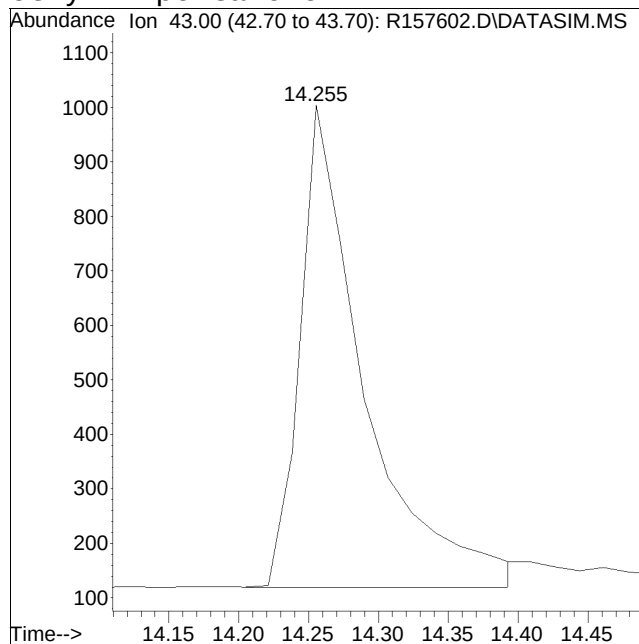
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 2519

M4 = Poor automated baseline construction.

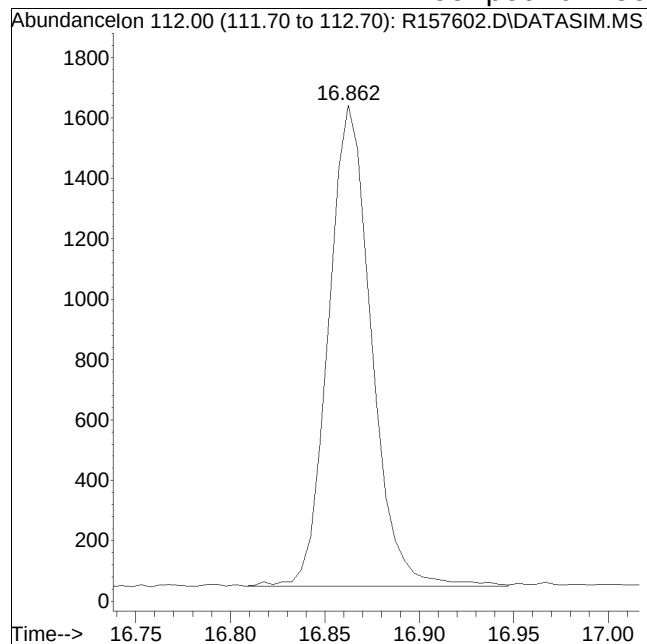


Manual Peak Response = 2809 M4

Manual Integration/Negative Proof Report

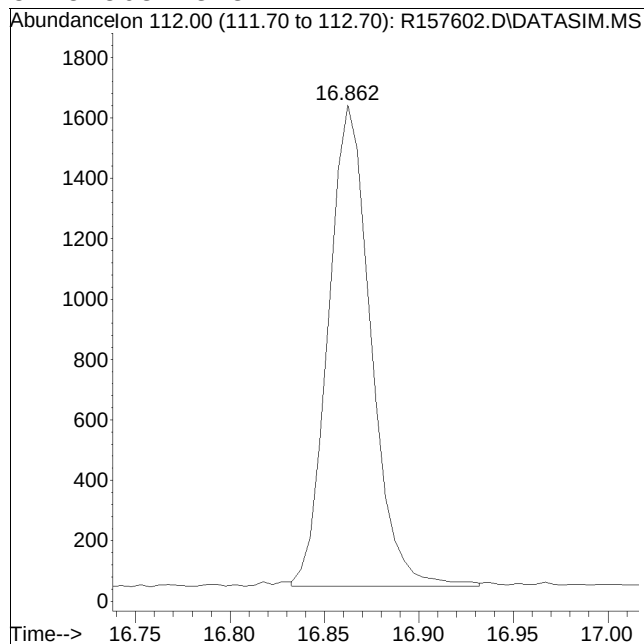
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #59: chlorobenzene



Original Peak Response = 2513

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

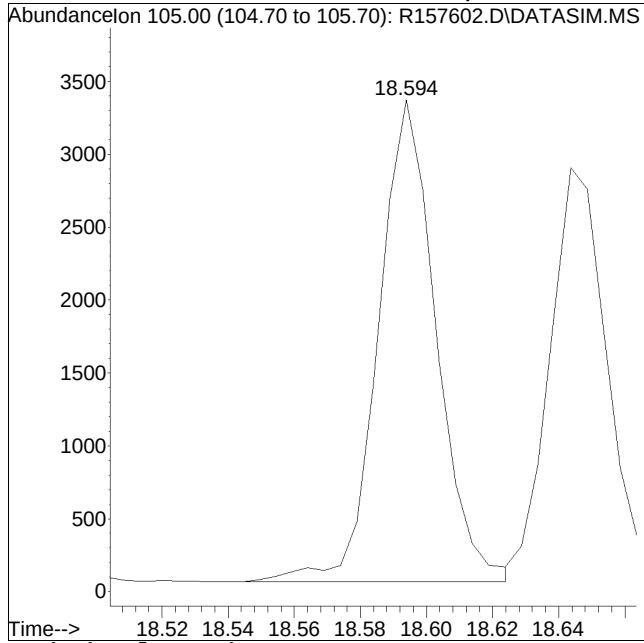


Manual Peak Response = 2493 M6

Manual Integration/Negative Proof Report

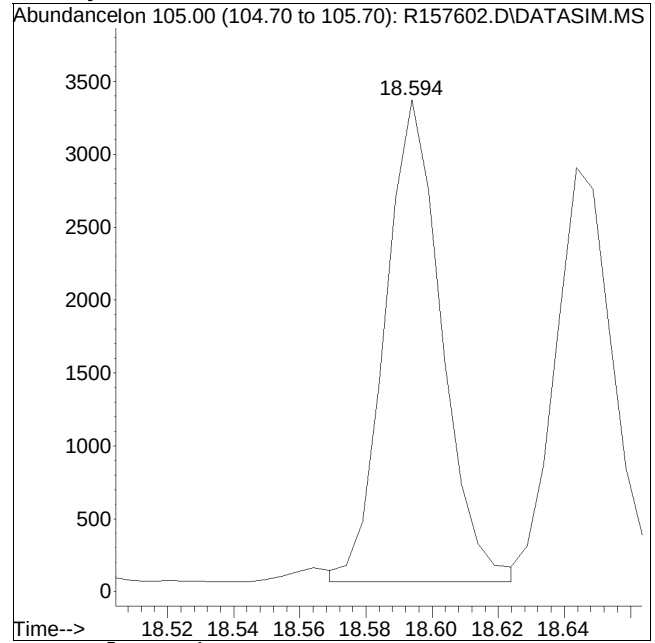
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIANO1:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 4018

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

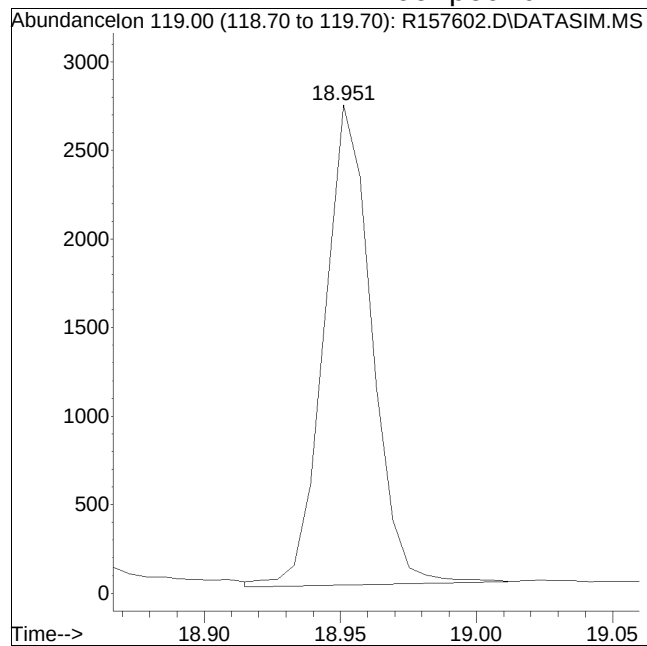


Manual Peak Response = 3934 M6

Manual Integration/Negative Proof Report

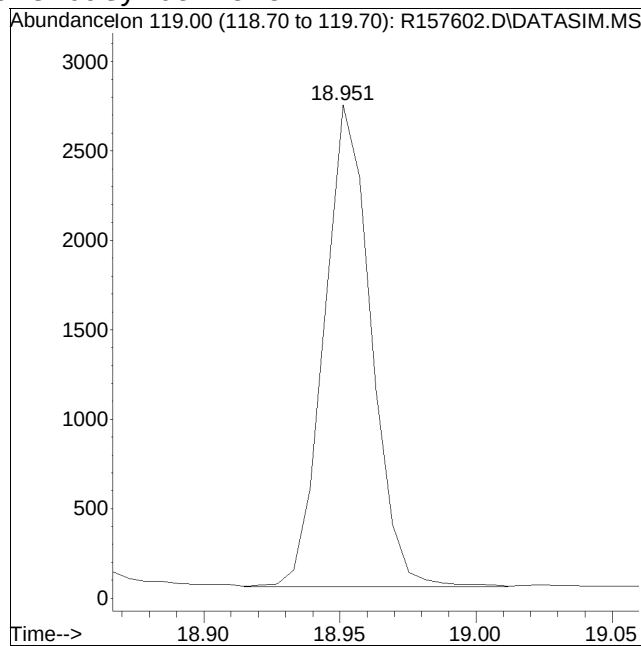
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #72: tert-butylbenzene



Original Peak Response = 3311

M4 = Poor automated baseline construction.

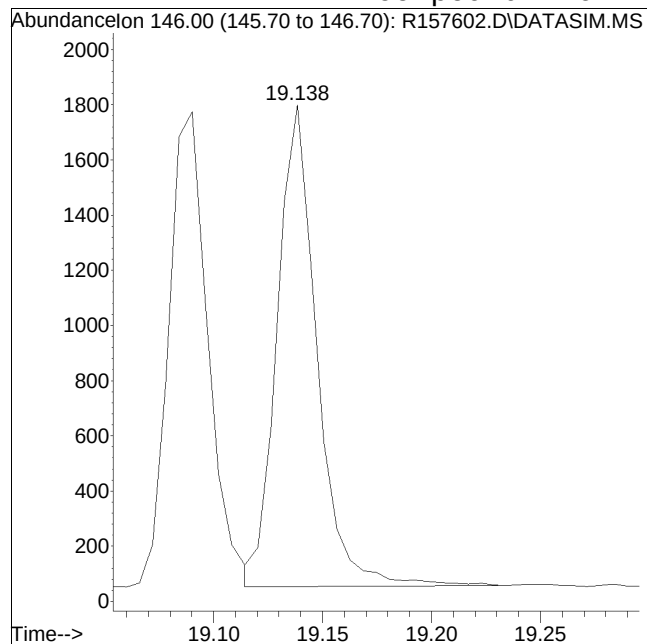


Manual Peak Response = 3241 M4

Manual Integration/Negative Proof Report

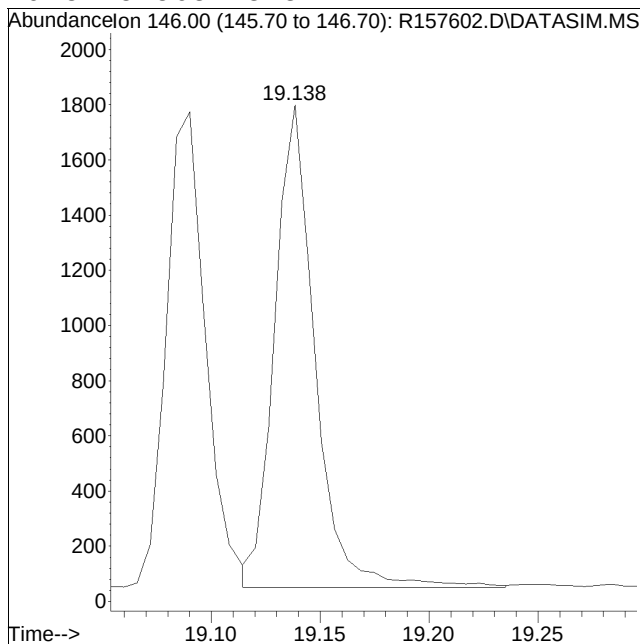
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157602.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:05 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.1 Quant Date : 2/27/2018 12:45 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 2210

M4 = Poor automated baseline construction.



Manual Peak Response = 2235 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157603.D
 Acq On : 26 Feb 2018 11:36 pm
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.2
 Misc : WG1092763
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:45:24 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	208410	10.000	ppbV	0.00
Standard Area = 218948			Recovery =	95.19%		
33) 1,4-difluorobenzene	12.401	114	280422	10.000	ppbV	0.00
Standard Area = 315293			Recovery =	88.94%		
51) chlorobenzene-D5	16.822	54	82831	10.000	ppbV	0.00
Standard Area = 85423			Recovery =	96.97%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.066	65	113143	10.403	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.03%		
53) toluene-D8	15.128	98	253875	9.609	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.09%		
67) bromofluorobenzene	18.012	95	144574	9.725	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.25%		
Target Compounds						
					Qvalue	
2) propylene	4.051	41	2693	0.247	ppbV	97
3) dichlorodifluoromethane	4.152	85	5286	0.226	ppbV	97
4) chloromethane	4.364	50	2662M4	0.221	ppbV	
5) Freon-114	4.520	85	6481	0.217	ppbV	99
6) vinyl chloride	4.677	62	2705	0.219	ppbV	94
7) 1,3-butadiene	4.867	54	1813M4	0.215	ppbV	
8) bromomethane	5.245	94	2233M4	0.215	ppbV	
9) chloroethane	5.496	64	1251M4	0.215	ppbV	
10) ethanol	5.719	31	13764M4	1.433	ppbV	
11) vinyl bromide	5.989	106	1938	0.207	ppbV	98
12) acrolein	6.175	56	1041	0.199	ppbV	92
13) acetone	6.371	43	19720	1.254	ppbV #	96
14) trichlorofluoromethane	6.566	101	5580	0.212	ppbV	99
15) isopropyl alcohol	6.734	45	17560	0.819	ppbV	100
16) acrylonitrile	6.985	53	1980	0.222	ppbV	97
17) 1,1-dichloroethene	7.395	61	4307M4	0.213	ppbV	
18) tertiary butyl alcohol	7.544	59	4977	0.211	ppbV #	73
19) methylene chloride	7.572	49	3835	0.237	ppbV	99
20) 3-chloropropene	7.721	41	3679	0.220	ppbV	94
21) carbon disulfide	7.897	76	7027	0.215	ppbV #	1
22) Freon 113	7.916	101	4349	0.212	ppbV	99
23) trans-1,2-dichloroethene	8.745	61	4029	0.216	ppbV	99
24) 1,1-dichloroethane	8.991	63	5015	0.215	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157603.D
 Acq On : 26 Feb 2018 11:36 pm
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.2
 Misc : WG1092763
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:45:24 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	9.113	73	5762	0.209	ppbV	#	92
26) vinyl acetate	9.211	43	5227	0.196	ppbV	#	95
27) 2-butanone	9.522	43	5999	0.213	ppbV	#	97
28) cis-1,2-dichloroethene	9.988	61	4348	0.215	ppbV		99
29) Ethyl Acetate	10.309	61	804	0.174	ppbV		76
30) chloroform	10.341	83	6024	0.211	ppbV		97
31) Tetrahydrofuran	10.855	42	3175M6	0.204	ppbV		
32) 1,2-dichloroethane	11.188	62	3740	0.213	ppbV		94
34) hexane	10.234	57	4719M4	0.214	ppbV		
36) 1,1,1-trichloroethane	11.477	97	4455	0.212	ppbV	#	92
37) benzene	11.994	78	6880	0.215	ppbV		92
38) carbon tetrachloride	12.157	117	4228	0.211	ppbV		98
39) cyclohexane	12.297	56	3853	0.216	ppbV		94
40) dibromomethane	12.902	93	2832	0.202	ppbV		90
41) 1,2-dichloropropane	12.925	63	3116	0.217	ppbV		96
42) bromodichloromethane	13.146	83	5120M6	0.209	ppbV		
43) 1,4-dioxane	13.251	88	1206M4	0.195	ppbV		
44) trichloroethene	13.193	130	2443	0.212	ppbV		95
45) 2,2,4-trimethylpentane	13.216	57	12645	0.219	ppbV	#	94
46) heptane	13.507	43	5258	0.216	ppbV	#	98
47) cis-1,3-dichloropropene	14.170	75	14319	0.204	ppbV	#	90
48) 4-methyl-2-pentanone	14.238	43	6306M4	0.211	ppbV		
49) trans-1,3-dichloropropene	14.767	75	3331	0.200	ppbV	#	81
50) 1,1,2-trichloroethane	14.952	97	2609	0.212	ppbV		97
52) toluene	15.231	91	7557	0.204	ppbV		98
54) 2-hexanone	15.520	43	4851	0.161	ppbV	#	95
55) dibromochloromethane	15.644	129	4070	0.195	ppbV		96
56) 1,2-dibromoethane	15.881	107	4060	0.199	ppbV		99
57) tetrachloroethene	16.283	166	2850	0.200	ppbV		93
58) 1,1,1,2-tetrachloroethane	16.842	131	2784	0.199	ppbV		97
59) chlorobenzene	16.862	112	5653M6	0.204	ppbV		
60) ethylbenzene	17.156	91	9692	0.203	ppbV		98
61) m+p-xylene	17.290	91	14914M4	0.404	ppbV		
62) bromoform	17.380	173	3532	0.186	ppbV		99
63) styrene	17.584	104	4818	0.195	ppbV		98
64) 1,1,2,2-tetrachloroethane	17.668	83	6742	0.201	ppbV		98
65) o-xylene	17.663	91	7810	0.201	ppbV		99
66) 1,2,3-trichloropropane	17.768	75	5240	0.207	ppbV		95
68) isopropylbenzene	18.106	105	9056	0.202	ppbV		97
69) bromobenzene	18.191	77	5897	0.205	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157603.D
 Acq On : 26 Feb 2018 11:36 pm
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.2
 Misc : WG1092763
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:45:24 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

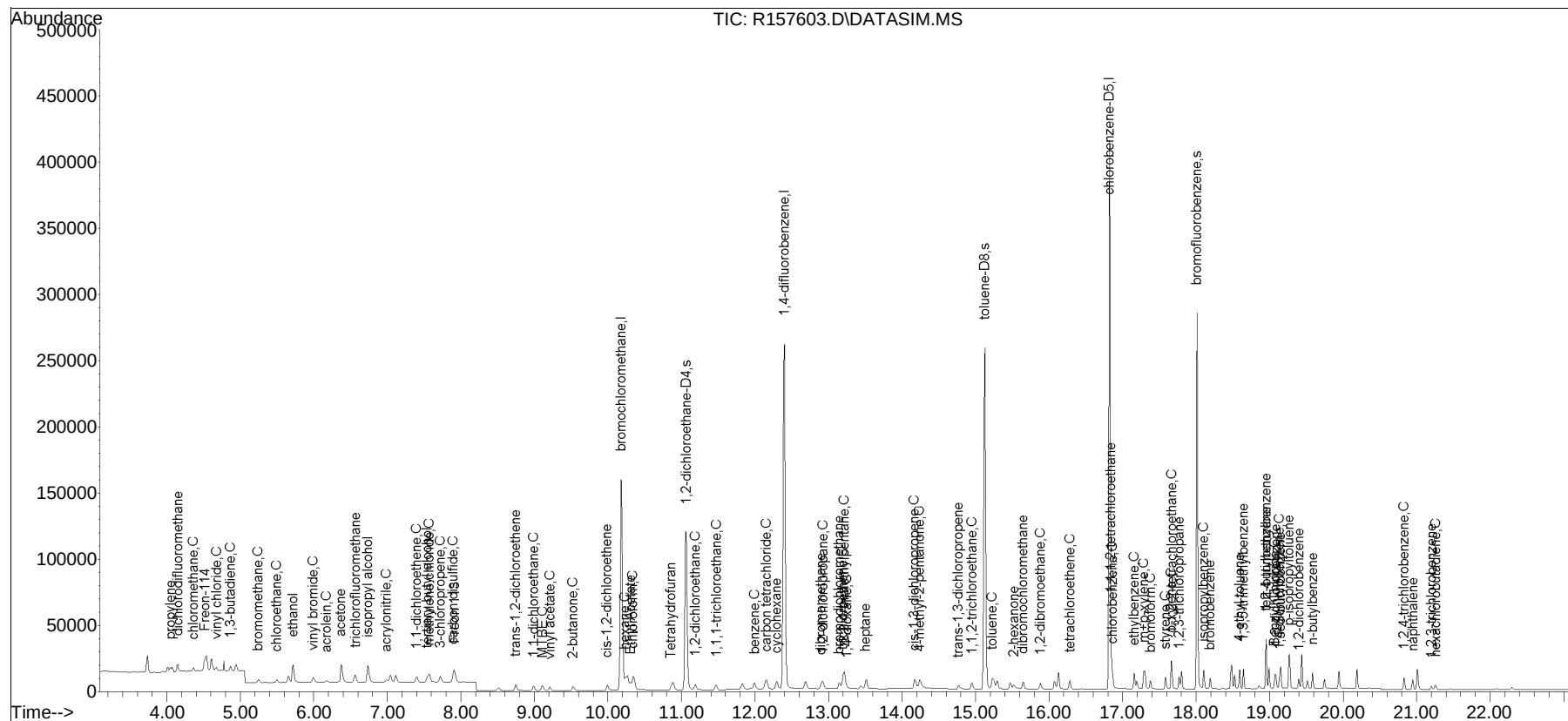
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

70) 4-ethyl toluene	18.594	105	9154M6	0.199	ppbV	
71) 1,3,5-trimethylbenzene	18.644	105	7963M4	0.199	ppbV	
72) tert-butylbenzene	18.951	119	7603	0.201	ppbV	98
73) 1,2,4-trimethylbenzene	18.951	105	7685	0.197	ppbV	93
74) Benzyl Chloride	19.072	91	5666	0.157	ppbV	96
75) 1,3-dichlorobenzene	19.084	146	5051	0.195	ppbV #	86
76) 1,4-dichlorobenzene	19.132	146	5173M3	0.194	ppbV	
77) sec-butylbenzene	19.150	105	11223	0.201	ppbV	98
78) p-isopropyltoluene	19.265	119	8835	0.198	ppbV	99
79) 1,2-dichlorobenzene	19.398	146	4794	0.195	ppbV	98
80) n-butylbenzene	19.585	91	9562	0.197	ppbV	98
81) 1,2,4-trichlorobenzene	20.828	180	2779	0.156	ppbV #	82
82) naphthalene	20.948	128	9860	0.213	ppbV	98
83) 1,2,3-trichlorobenzene	21.200	180	2478	0.151	ppbV #	80
84) hexachlorobutadiene	21.260	225	2568	0.167	ppbV #	83

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


```
Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
Data File : R157603.D
Acq On    : 26 Feb 2018  11:36 pm
Operator  : AIRPIAN01:MB
Sample    : IT015-SIMSTD0.2
Misc      : WG1092763
ALS Vial  : 6      Sample Multiplier: 1
```

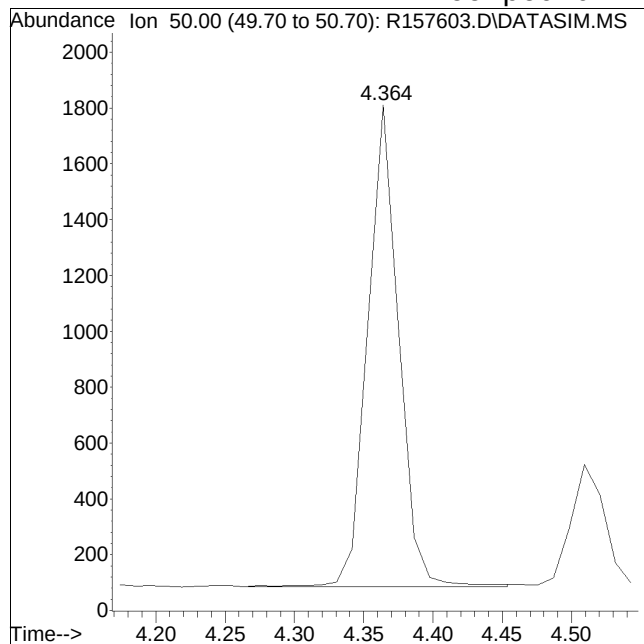
Quant Time: Feb 27 12:45:24 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



Manual Integration/Negative Proof Report

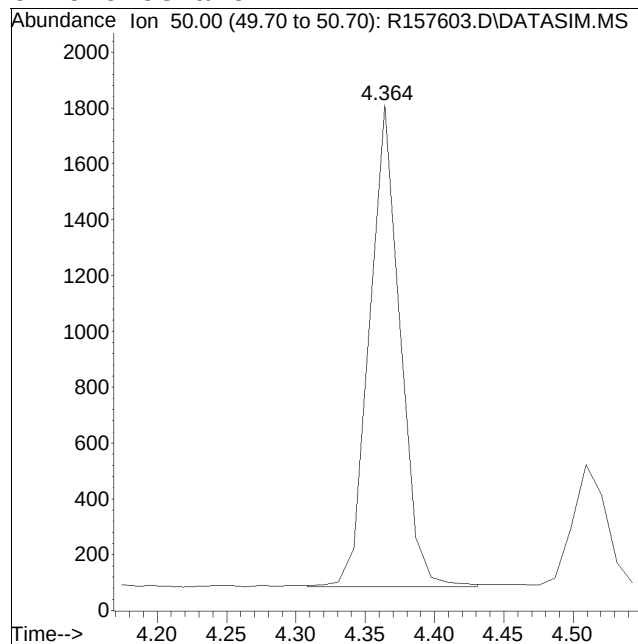
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #4: chloromethane



Original Peak Response = 2692

M4 = Poor automated baseline construction.

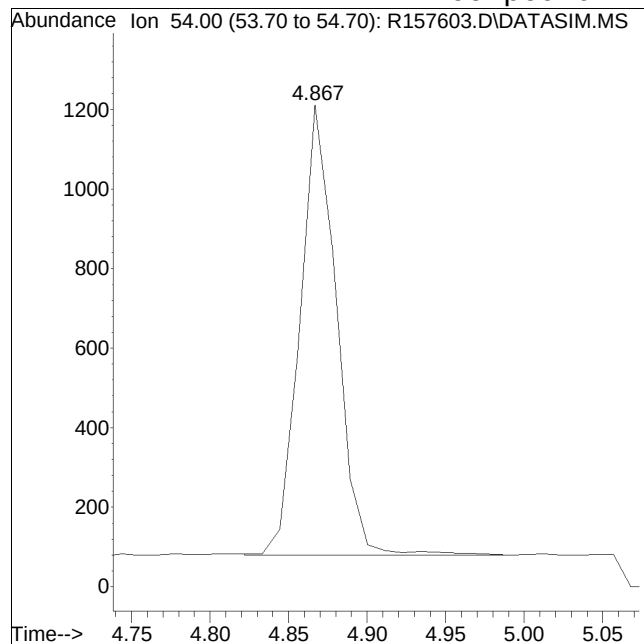


Manual Peak Response = 2662 M4

Manual Integration/Negative Proof Report

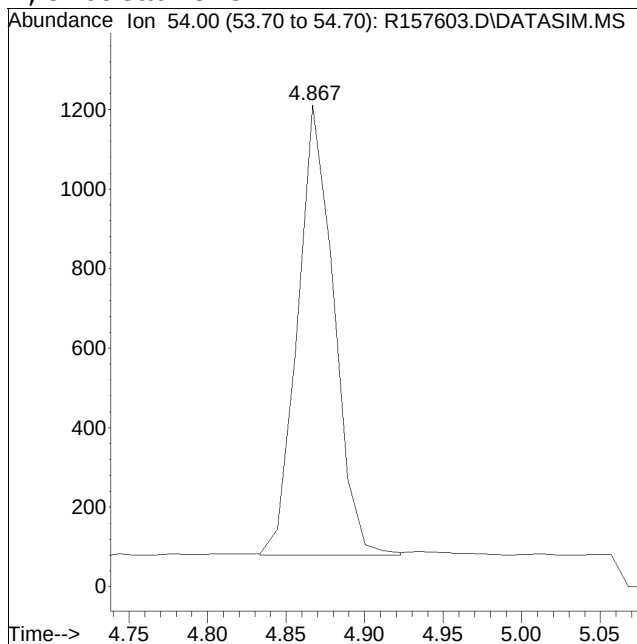
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #7: 1,3-butadiene



Original Peak Response = 1828

M4 = Poor automated baseline construction.

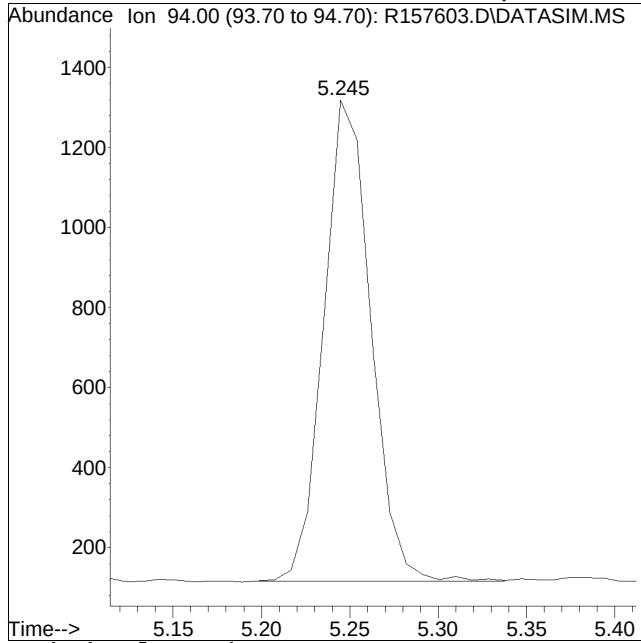


Manual Peak Response = 1813 M4

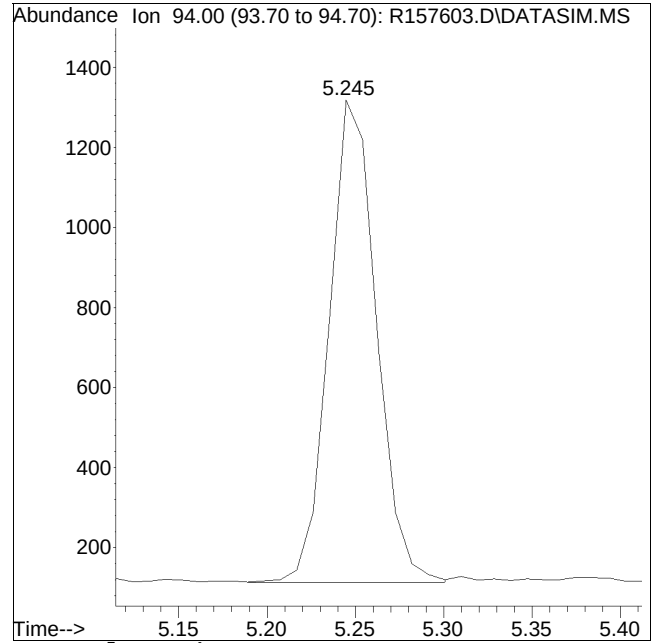
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #8: bromomethane



Original Peak Response = 2224



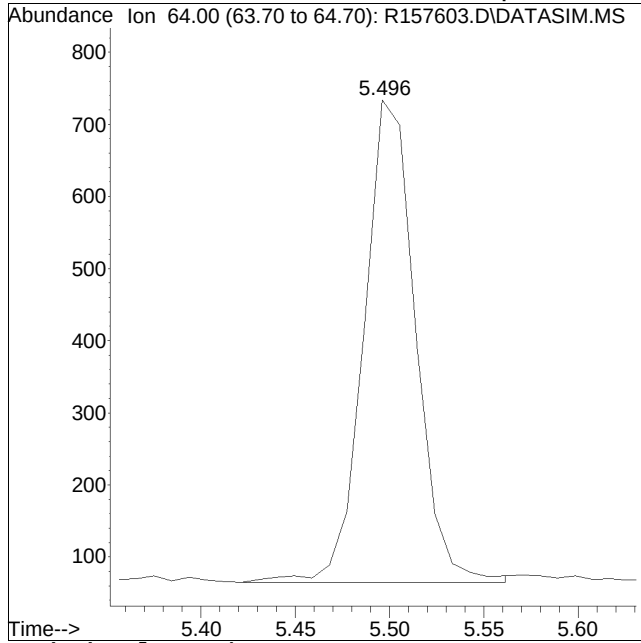
Manual Peak Response = 2233 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

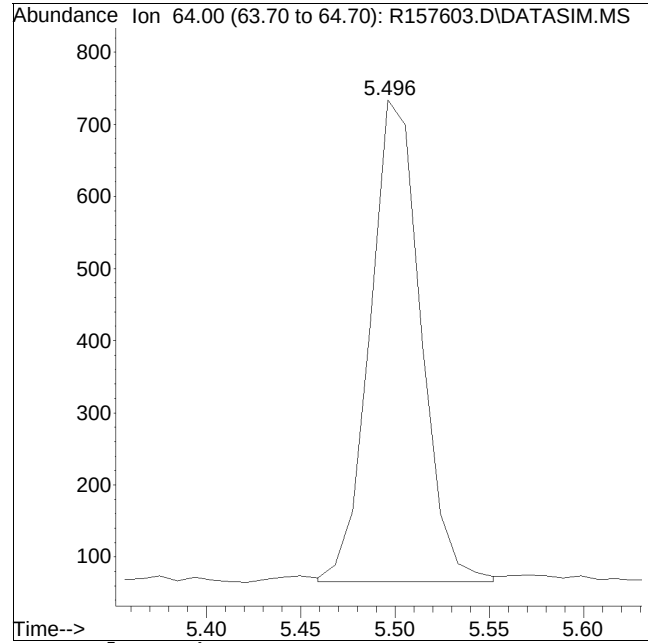
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #9: chloroethane



Original Peak Response = 1276

M4 = Poor automated baseline construction.

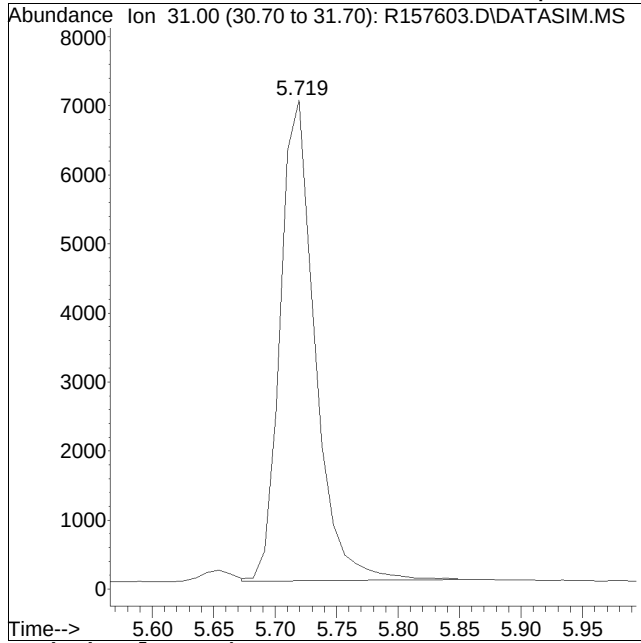


Manual Peak Response = 1251 M4

Manual Integration/Negative Proof Report

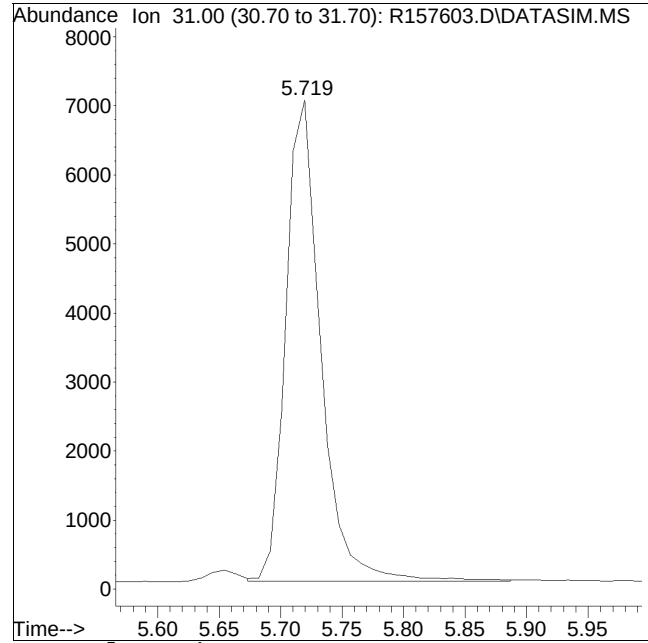
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #10: ethanol



Original Peak Response = 13628

M4 = Poor automated baseline construction.

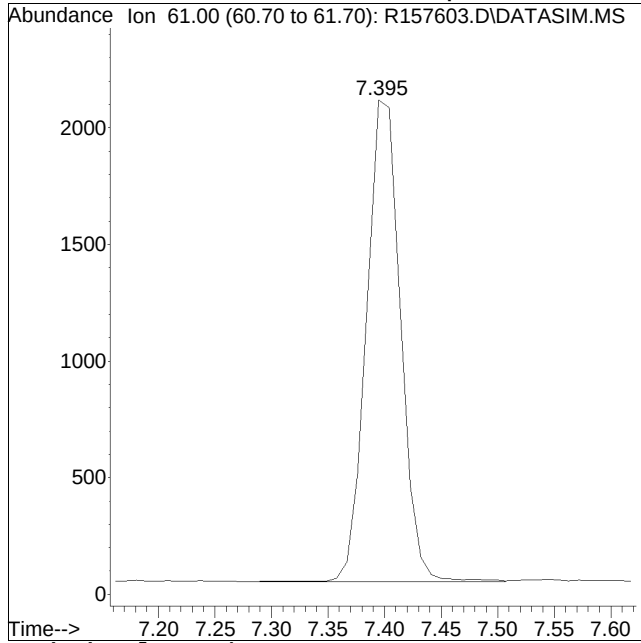


Manual Peak Response = 13764 M4

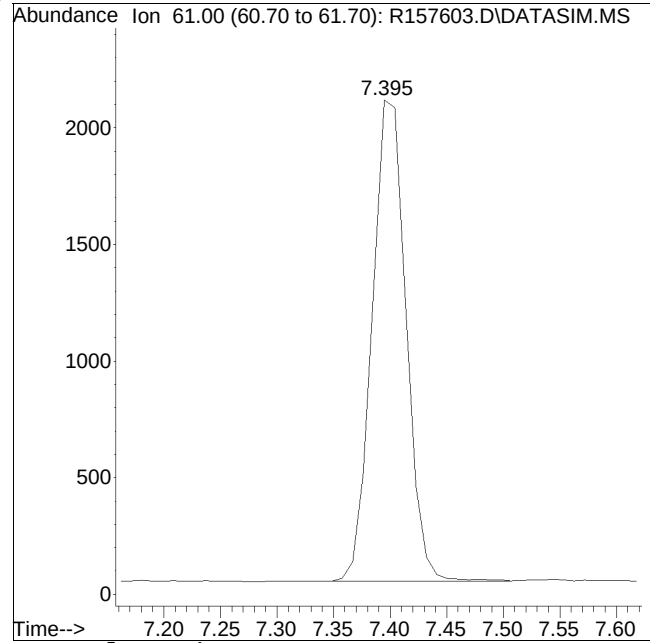
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #17: 1,1-dichloroethene



Original Peak Response = 4353



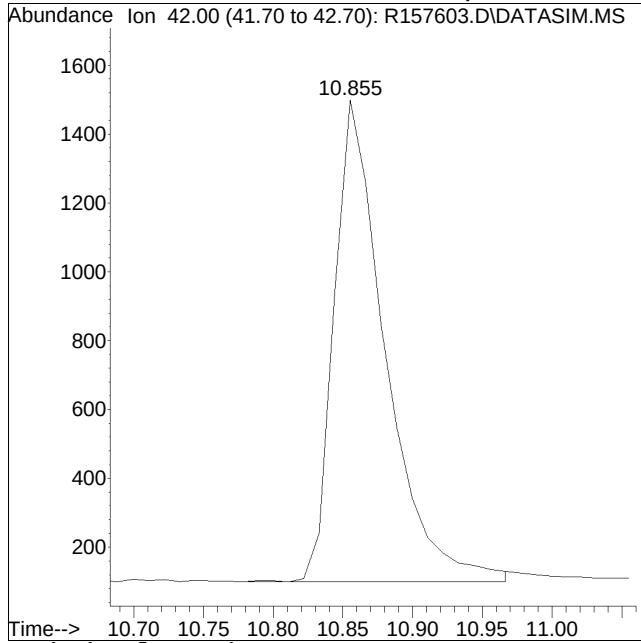
Manual Peak Response = 4307 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

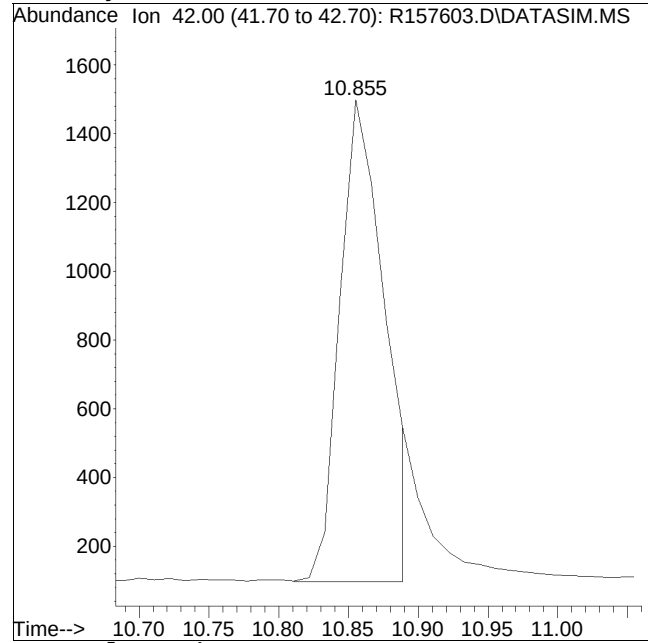
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 3585

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

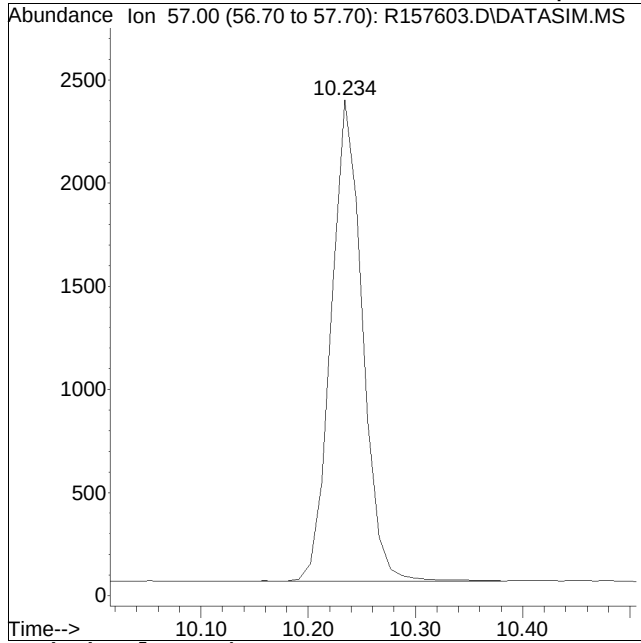


Manual Peak Response = 3175 M6

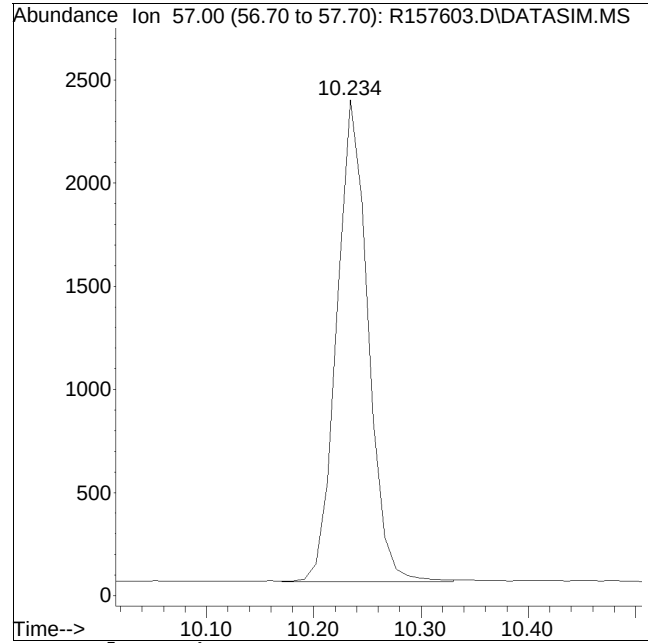
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #34: hexane



Original Peak Response = 4727



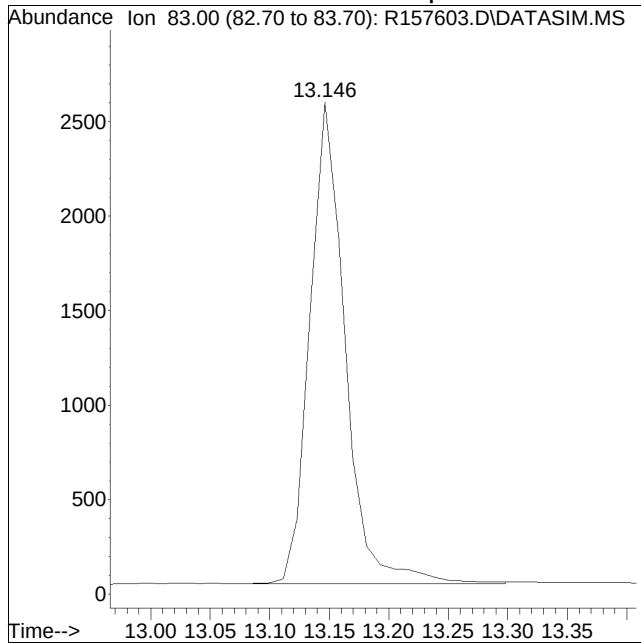
Manual Peak Response = 4719 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

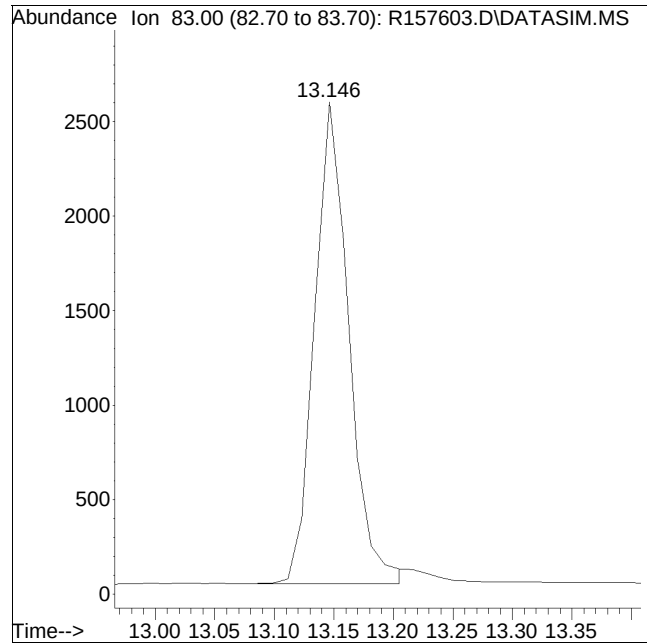
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #42: bromodichloromethane



Original Peak Response = 5270

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

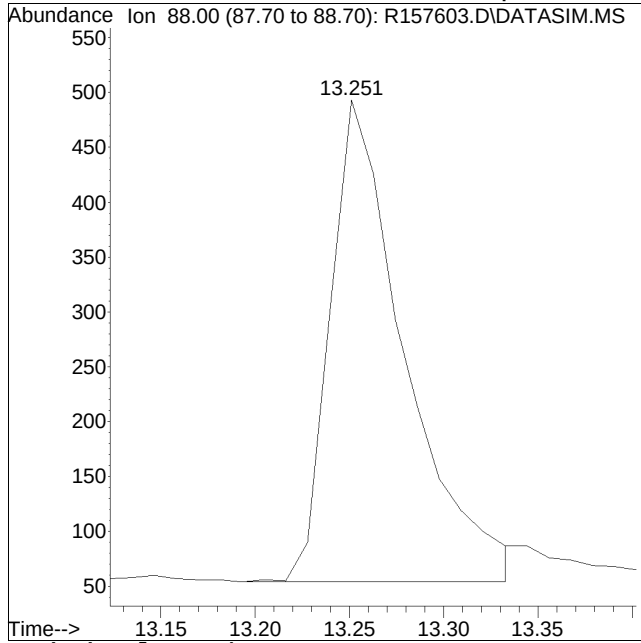


Manual Peak Response = 5120 M6

Manual Integration/Negative Proof Report

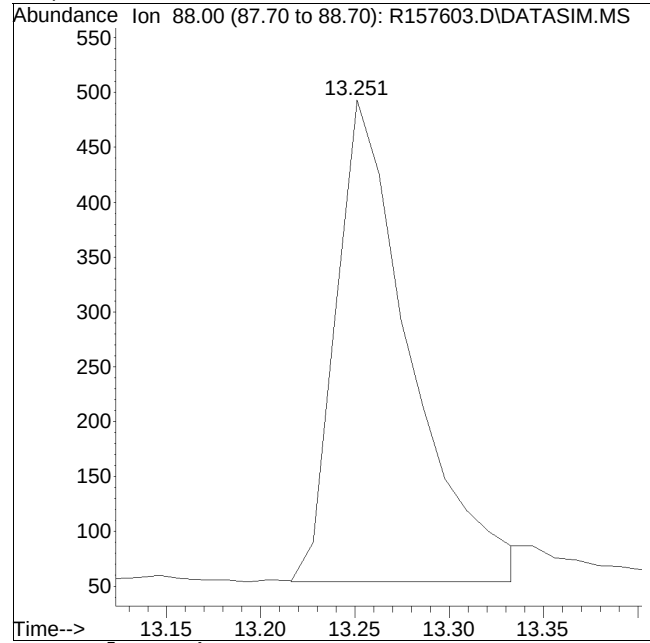
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #43: 1,4-dioxane



Original Peak Response = 1208

M4 = Poor automated baseline construction.

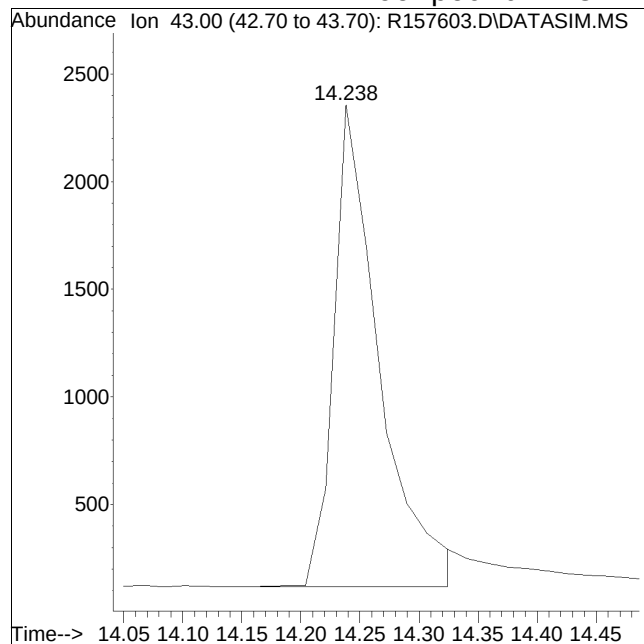


Manual Peak Response = 1206 M4

Manual Integration/Negative Proof Report

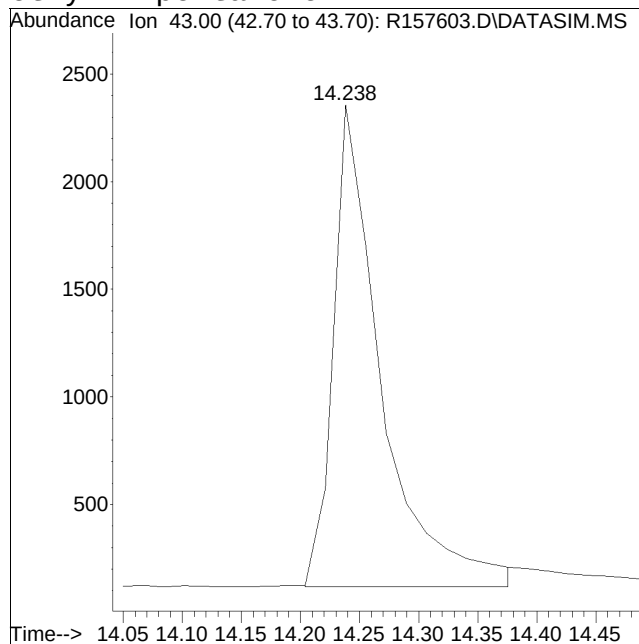
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 5980

M4 = Poor automated baseline construction.

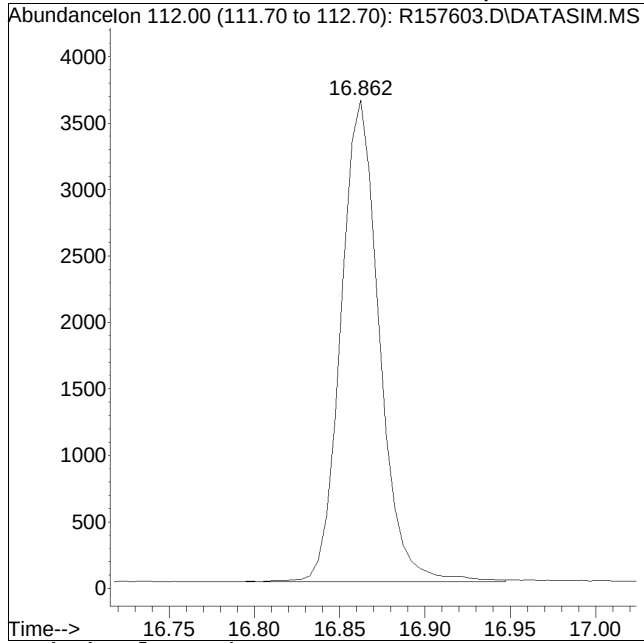


Manual Peak Response = 6306 M4

Manual Integration/Negative Proof Report

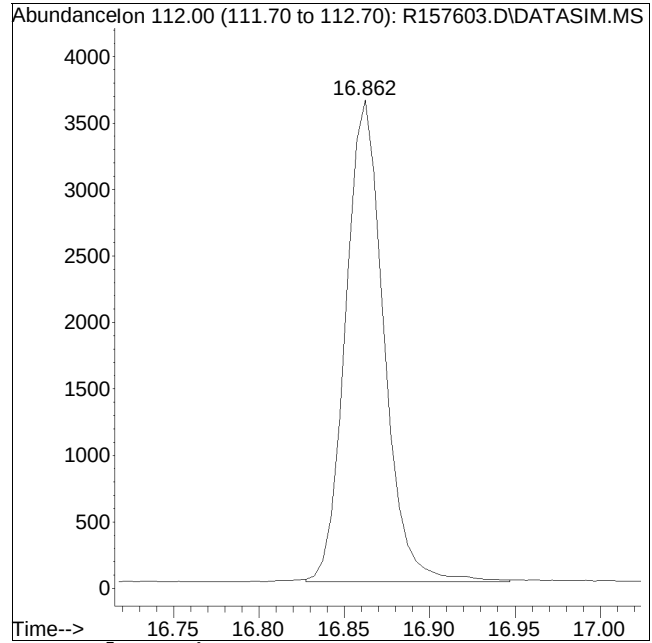
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #59: chlorobenzene



Original Peak Response = 5671

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

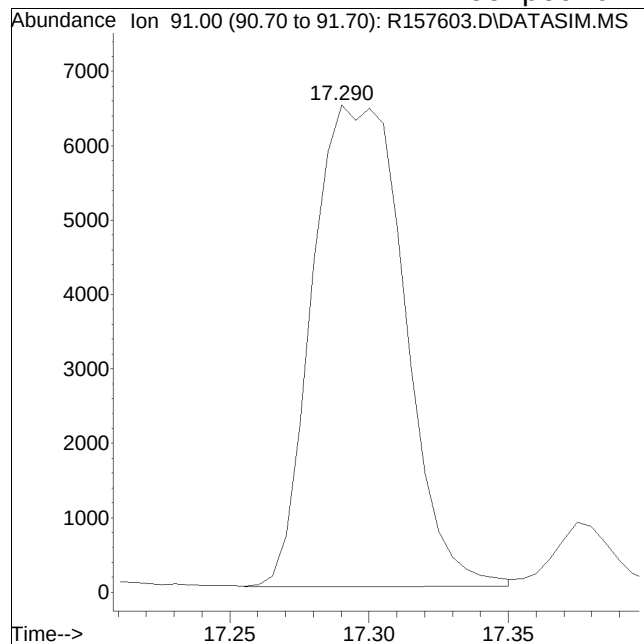


Manual Peak Response = 5653 M6

Manual Integration/Negative Proof Report

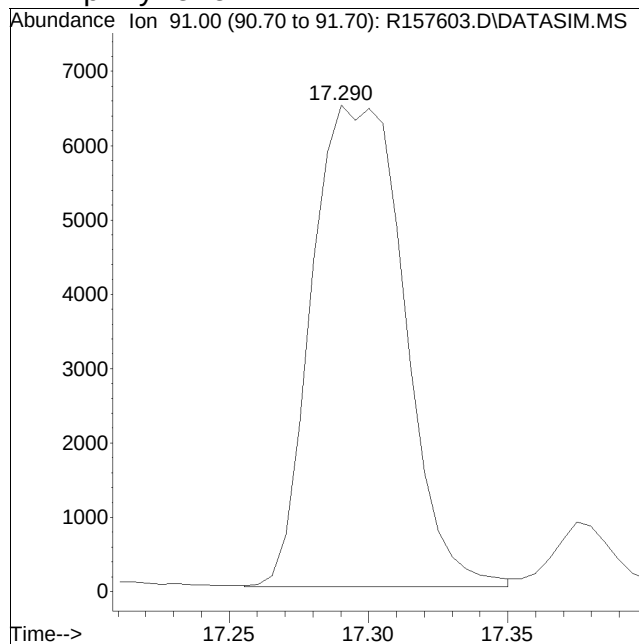
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #61: m+p-xylene



Original Peak Response = 14855

M4 = Poor automated baseline construction.

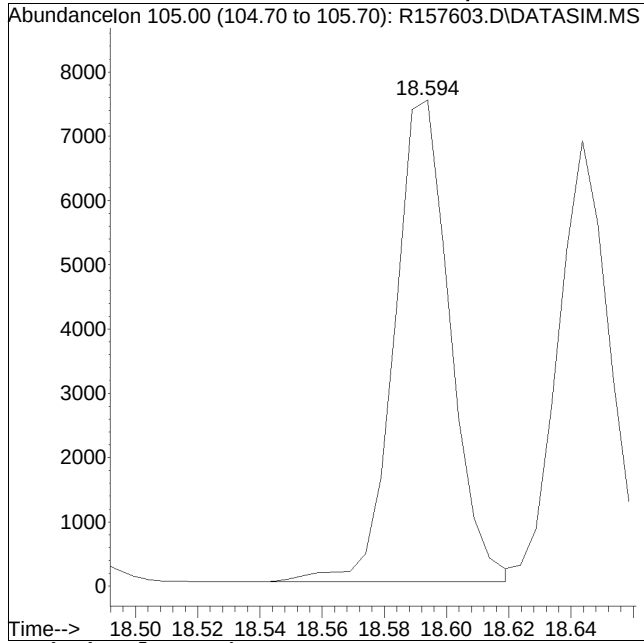


Manual Peak Response = 14914 M4

Manual Integration/Negative Proof Report

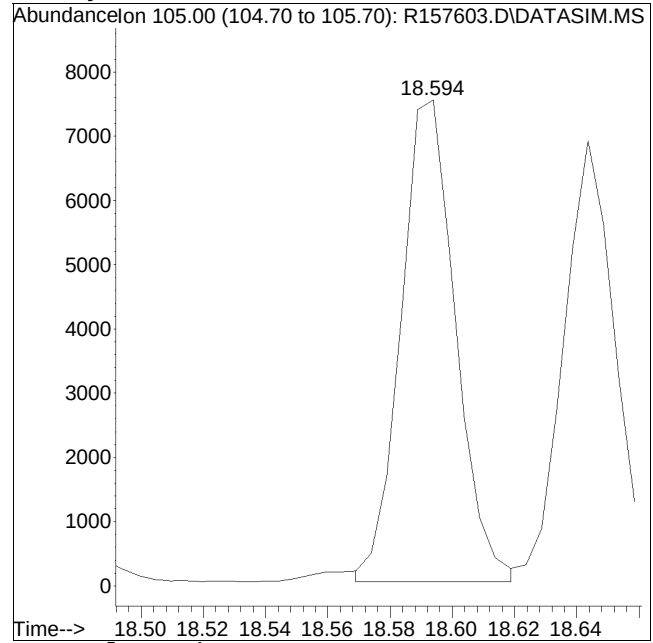
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 9326

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

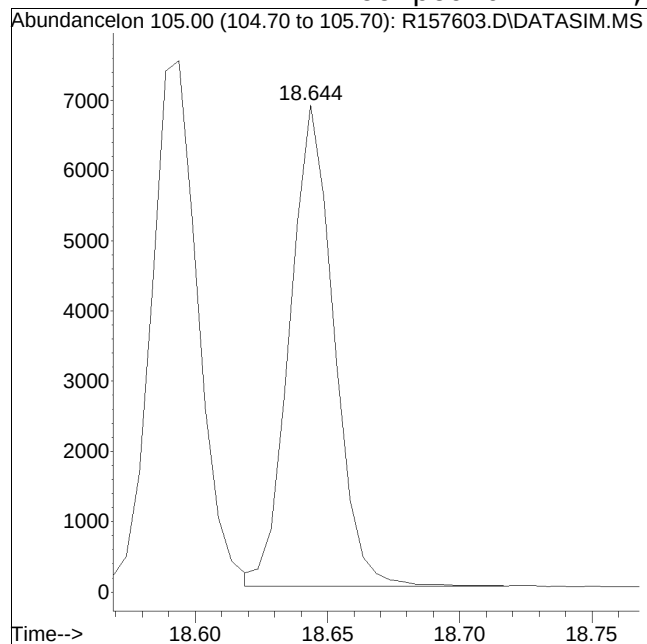


Manual Peak Response = 9154 M6

Manual Integration/Negative Proof Report

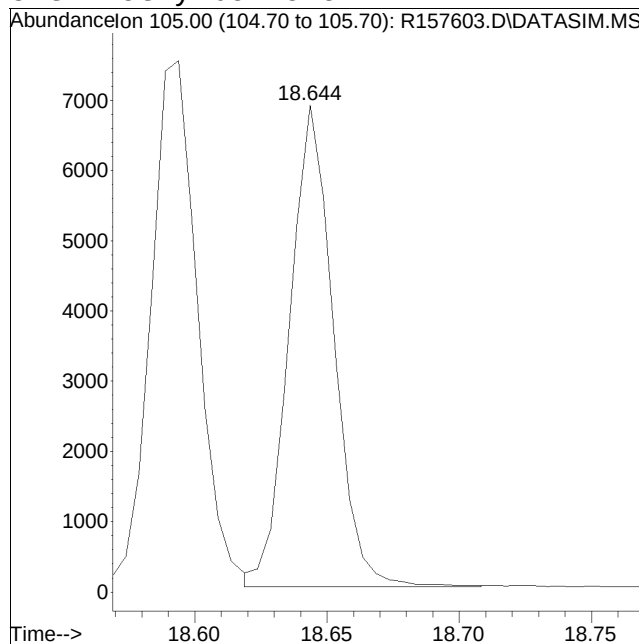
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 7924

M4 = Poor automated baseline construction.

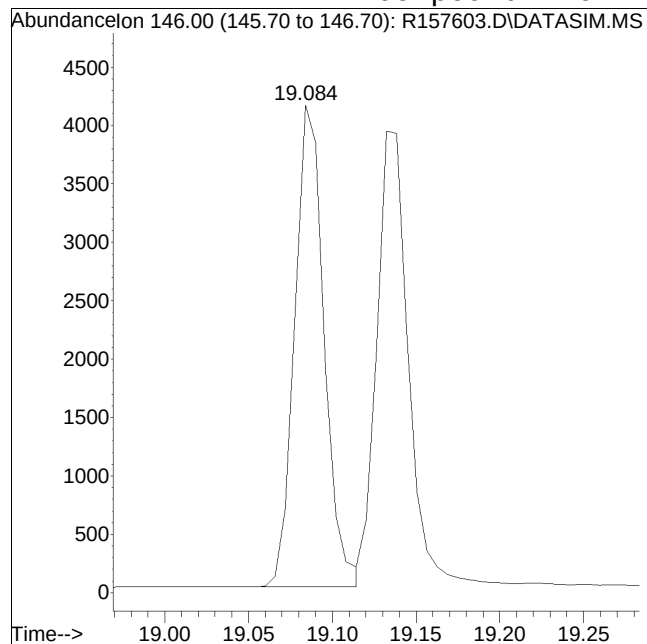


Manual Peak Response = 7963 M4

Manual Integration/Negative Proof Report

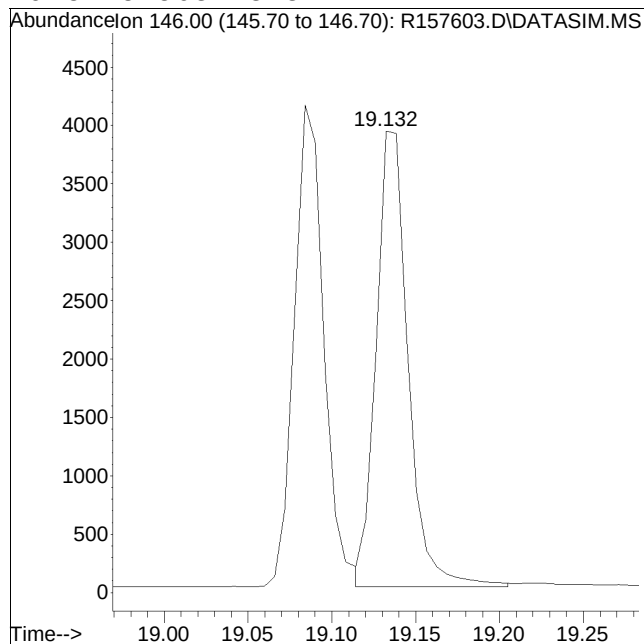
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157603.D Operator : AIRPIAN01:MB
Date Inj'd : 2/26/2018 11:36 pm Instrument : Air Piano 1
Sample : IT015-SIMSTD0.2 Quant Date : 2/27/2018 12:45 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 5051

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 Peak Response = 5173 M3

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157604.D
 Acq On : 27 Feb 2018 12:07 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.5
 Misc : WG1092763
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:45:29 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	217975	10.000	ppbV	0.00
Standard Area = 218948			Recovery =	99.56%		
33) 1,4-difluorobenzene	12.401	114	291237	10.000	ppbV	0.00
Standard Area = 315293			Recovery =	92.37%		
51) chlorobenzene-D5	16.822	54	84088	10.000	ppbV	0.00
Standard Area = 85423			Recovery =	98.44%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.066	65	115290	10.207	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.07%		
53) toluene-D8	15.128	98	255846	9.539	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.39%		
67) bromofluorobenzene	18.012	95	142708	9.456	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.56%		
Target Compounds						
					Qvalue	
2) propylene	4.051	41	6336	0.555	ppbV	99
3) dichlorodifluoromethane	4.152	85	13395	0.548	ppbV	99
4) chloromethane	4.364	50	6626	0.526	ppbV	98
5) Freon-114	4.520	85	16895	0.540	ppbV	100
6) vinyl chloride	4.677	62	6891	0.534	ppbV	98
7) 1,3-butadiene	4.867	54	4616M6	0.523	ppbV	
8) bromomethane	5.254	94	5783	0.532	ppbV	99
9) chloroethane	5.505	64	3155M4	0.519	ppbV	
10) ethanol	5.710	31	27444M4	2.732	ppbV	
11) vinyl bromide	5.989	106	5199	0.532	ppbV	100
12) acrolein	6.175	56	2586	0.473	ppbV	96
13) acetone	6.362	43	44629	2.713	ppbV #	95
14) trichlorofluoromethane	6.566	101	14526	0.529	ppbV	100
15) isopropyl alcohol	6.725	45	32790	1.462	ppbV	100
16) acrylonitrile	6.985	53	5030	0.539	ppbV	98
17) 1,1-dichloroethene	7.404	61	11225	0.531	ppbV	99
18) tertiary butyl alcohol	7.534	59	12532	0.509	ppbV #	91
19) methylene chloride	7.572	49	9010	0.533	ppbV	98
20) 3-chloropropene	7.720	41	8946	0.512	ppbV	97
21) carbon disulfide	7.897	76	17945	0.524	ppbV #	30
22) Freon 113	7.916	101	11515M4	0.536	ppbV	
23) trans-1,2-dichloroethene	8.745	61	10193	0.522	ppbV	99
24) 1,1-dichloroethane	8.991	63	12788	0.524	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157604.D
 Acq On : 27 Feb 2018 12:07 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.5
 Misc : WG1092763
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:45:29 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.105	73	15185	0.526	ppbV	98
26) vinyl acetate	9.203	43	13674	0.491	ppbV	98
27) 2-butanone	9.514	43	14920	0.507	ppbV	99
28) cis-1,2-dichloroethene	9.988	61	11165	0.527	ppbV	98
29) Ethyl Acetate	10.298	61	2415M6	0.499	ppbV	
30) chloroform	10.341	83	15507	0.519	ppbV	98
31) Tetrahydrofuran	10.844	42	7430M6	0.457	ppbV	
32) 1,2-dichloroethane	11.188	62	9409	0.512	ppbV	97
34) hexane	10.234	57	11971M4	0.522	ppbV	
36) 1,1,1-trichloroethane	11.477	97	11424	0.523	ppbV	91
37) benzene	11.994	78	16991	0.512	ppbV	95
38) carbon tetrachloride	12.157	117	10420	0.502	ppbV	99
39) cyclohexane	12.297	56	9670	0.521	ppbV	96
40) dibromomethane	12.902	93	6739	0.462	ppbV	91
41) 1,2-dichloropropane	12.925	63	7581	0.507	ppbV	100
42) bromodichloromethane	13.146	83	12856M6	0.505	ppbV	
43) 1,4-dioxane	13.239	88	3257M4	0.507	ppbV	
44) trichloroethene	13.193	130	5954	0.498	ppbV	97
45) 2,2,4-trimethylpentane	13.216	57	31327	0.522	ppbV	96
46) heptane	13.507	43	13144	0.519	ppbV	98
47) cis-1,3-dichloropropene	14.170	75	36474	0.501	ppbV #	94
48) 4-methyl-2-pentanone	14.221	43	16152	0.520	ppbV #	97
49) trans-1,3-dichloropropene	14.766	75	8679	0.501	ppbV	94
50) 1,1,2-trichloroethane	14.952	97	6504	0.509	ppbV	98
52) toluene	15.231	91	18383	0.490	ppbV	99
54) 2-hexanone	15.499	43	14651M4	0.479	ppbV	
55) dibromochloromethane	15.643	129	10149	0.478	ppbV	98
56) 1,2-dibromoethane	15.881	107	10081	0.487	ppbV	99
57) tetrachloroethene	16.283	166	6885	0.476	ppbV	96
58) 1,1,1,2-tetrachloroethane	16.842	131	6742	0.475	ppbV	95
59) chlorobenzene	16.862	112	13717	0.489	ppbV	100
60) ethylbenzene	17.156	91	23110	0.478	ppbV	99
61) m+p-xylene	17.300	91	36207M4	0.966	ppbV	
62) bromoform	17.380	173	8693	0.450	ppbV	98
63) styrene	17.584	104	12021	0.479	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.663	83	16382	0.482	ppbV	99
65) o-xylene	17.663	91	18736	0.476	ppbV	99
66) 1,2,3-trichloropropane	17.768	75	12753	0.495	ppbV	97
68) isopropylbenzene	18.106	105	22137	0.487	ppbV	100
69) bromobenzene	18.191	77	14135	0.484	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157604.D
 Acq On : 27 Feb 2018 12:07 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD0.5
 Misc : WG1092763
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:45:29 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

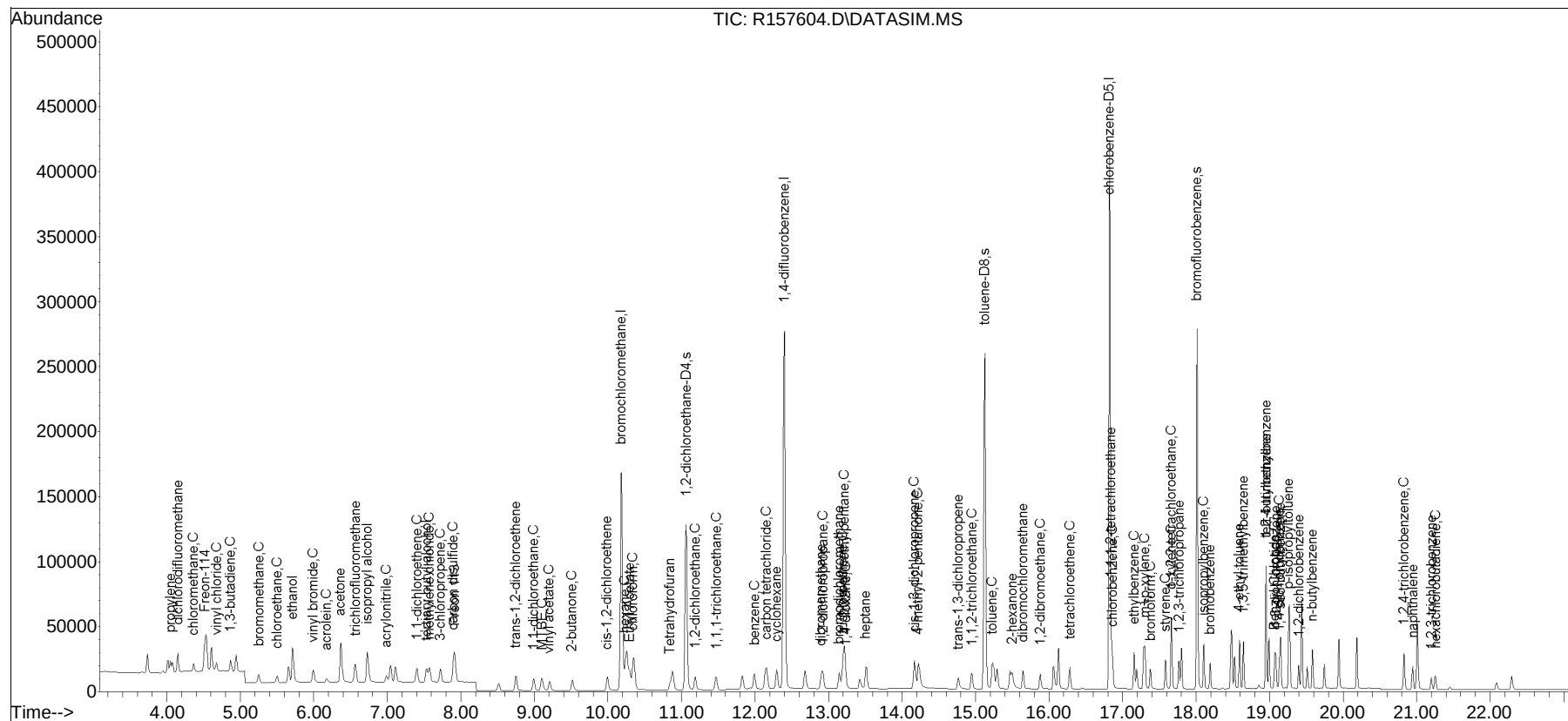
CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.589	105	22955M6	0.491	ppbV	
71) 1,3,5-trimethylbenzene	18.644	105	19594M4	0.484	ppbV	
72) tert-butylbenzene	18.951	119	18640	0.485	ppbV	99
73) 1,2,4-trimethylbenzene	18.951	105	19122	0.483	ppbV	97
74) Benzyl Chloride	19.066	91	14687	0.401	ppbV	96
75) 1,3-dichlorobenzene	19.084	146	12502	0.476	ppbV	91
76) 1,4-dichlorobenzene	19.132	146	13089M4	0.484	ppbV	
77) sec-butylbenzene	19.150	105	27905	0.492	ppbV	97
78) p-isopropyltoluene	19.259	119	21944	0.484	ppbV	98
79) 1,2-dichlorobenzene	19.398	146	12060	0.484	ppbV	95
80) n-butylbenzene	19.579	91	25135	0.510	ppbV	96
81) 1,2,4-trichlorobenzene	20.828	180	8594	0.474	ppbV #	90
82) naphthalene	20.948	128	22647	0.483	ppbV	96
83) 1,2,3-trichlorobenzene	21.200	180	7926	0.474	ppbV #	88
84) hexachlorobutadiene	21.260	225	7569M4	0.484	ppbV	

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

```
Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
Data File : R157604.D
Acq On    : 27 Feb 2018  12:07 am
Operator  : AIRPIAN01:MB
Sample    : IT015-SIMSTD0.5
Misc      : WG1092763
ALS Vial  : 6      Sample Multiplier: 1
```

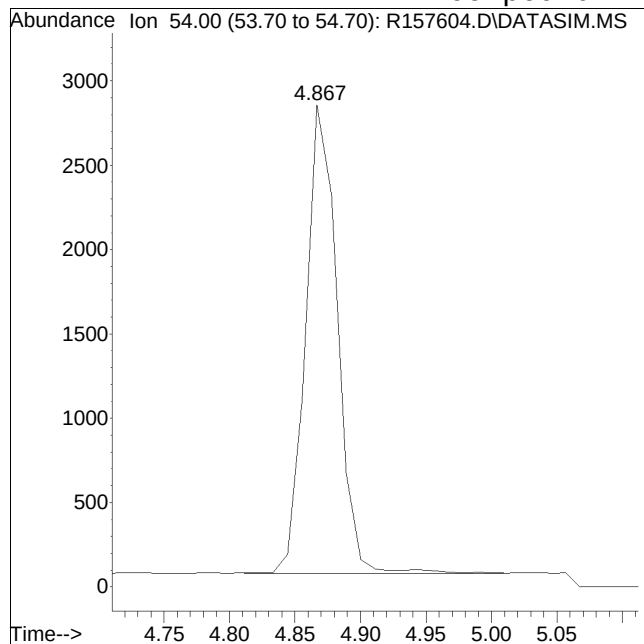
Quant Time: Feb 27 12:45:29 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



Manual Integration/Negative Proof Report

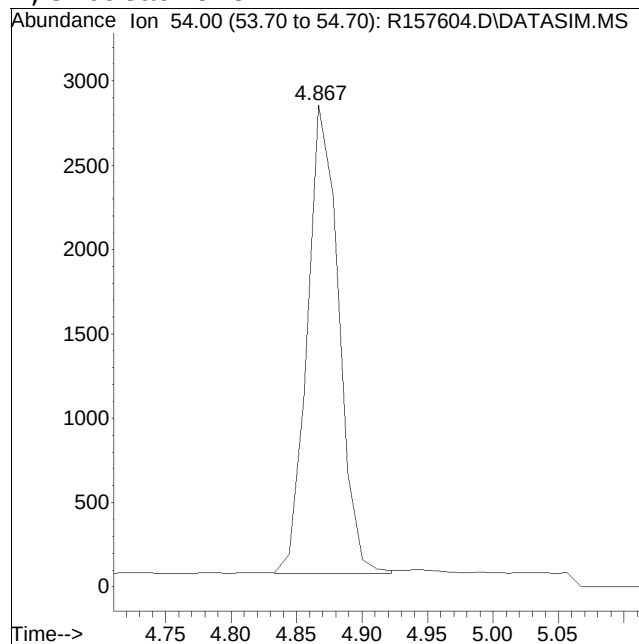
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #7: 1,3-butadiene



Original Peak Response = 4660

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

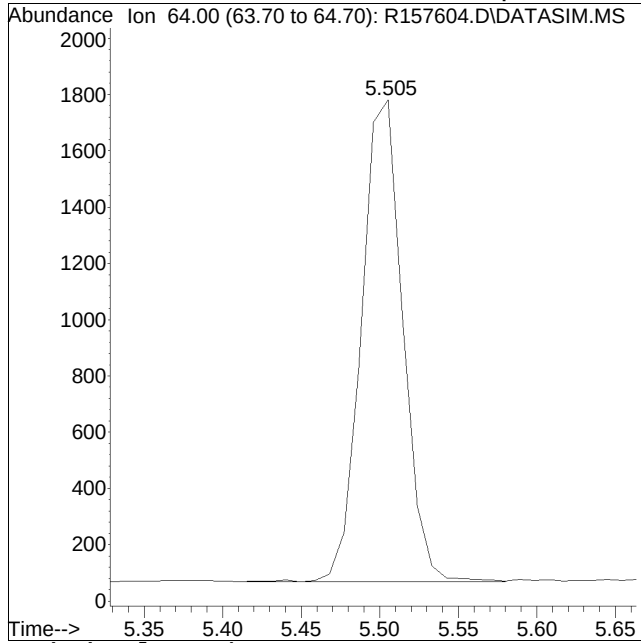


Manual Peak Response = 4616 M6

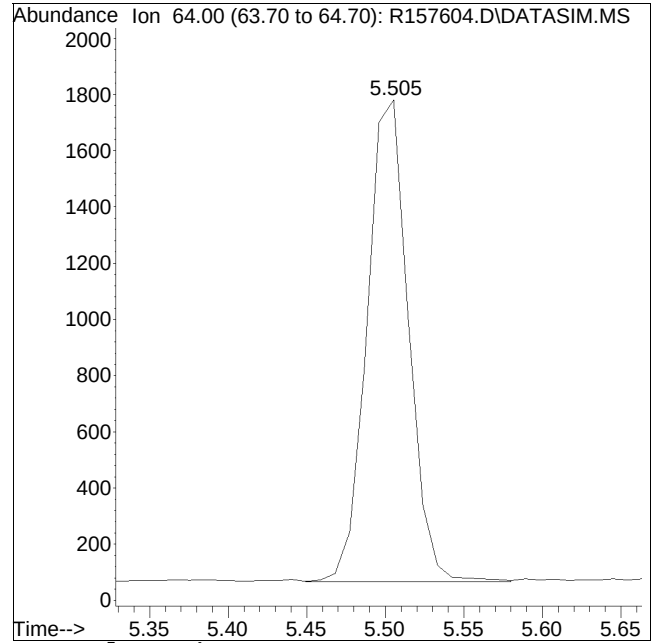
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #9: chloroethane



Original Peak Response = 3136



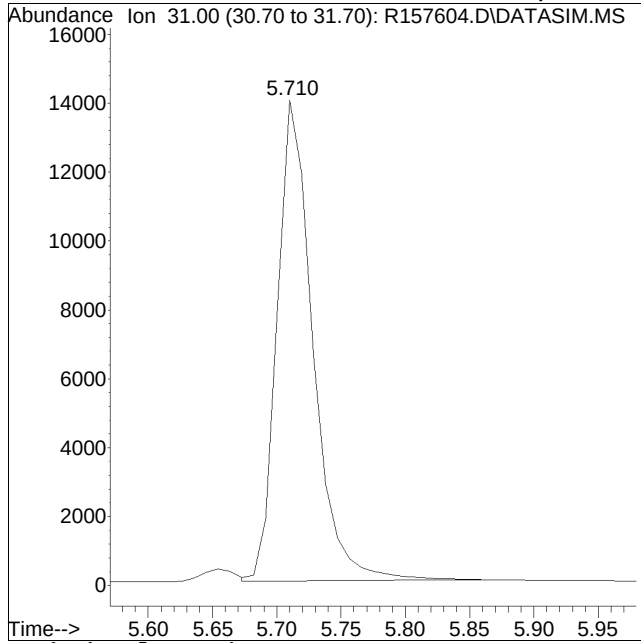
Manual Peak Response = 3155 M4

M4 = Poor automated baseline construction.

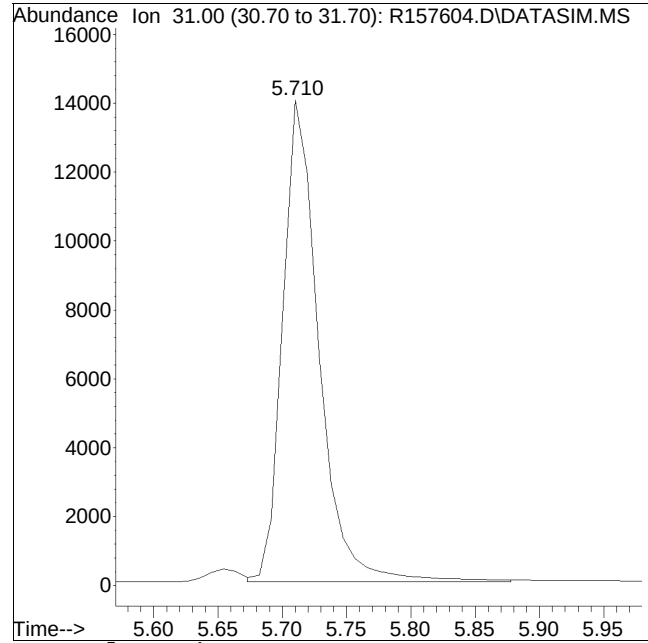
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #10: ethanol



Original Peak Response = 26998



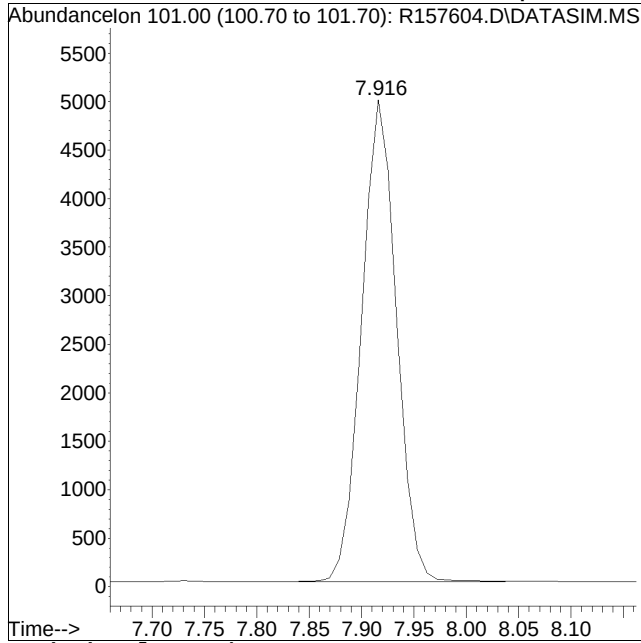
Manual Peak Response = 27444 M4

M4 = Poor automated baseline construction.

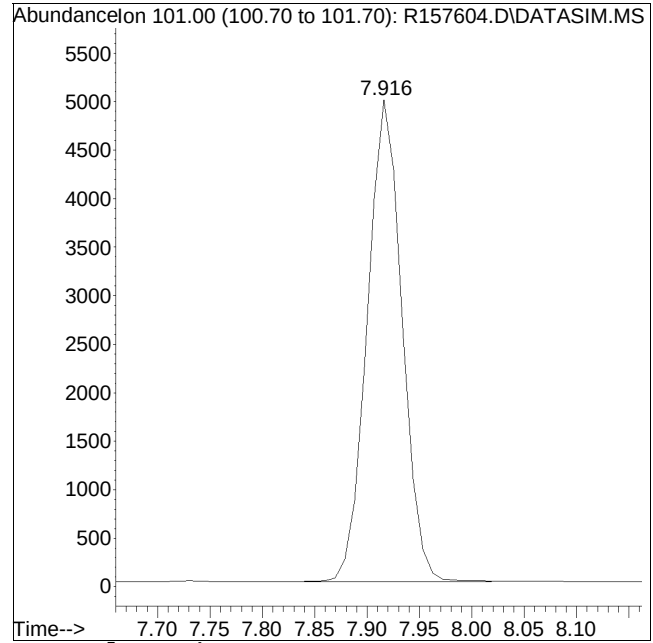
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #22: Freon 113



Original Peak Response = 11532



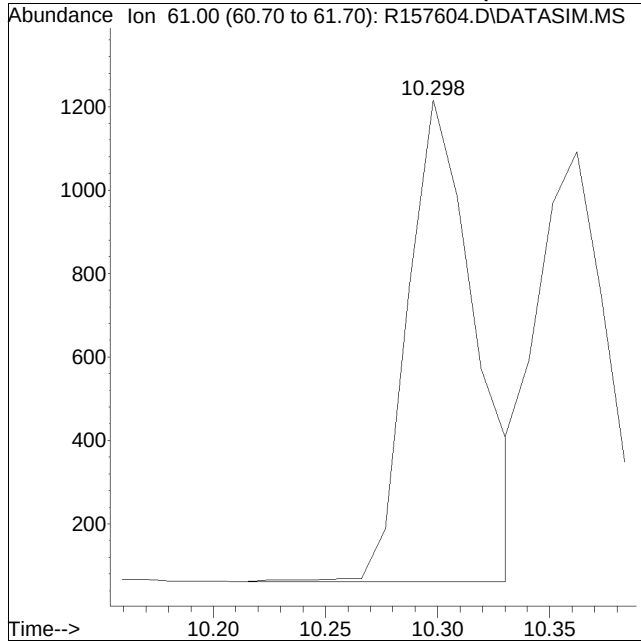
Manual Peak Response = 11515 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

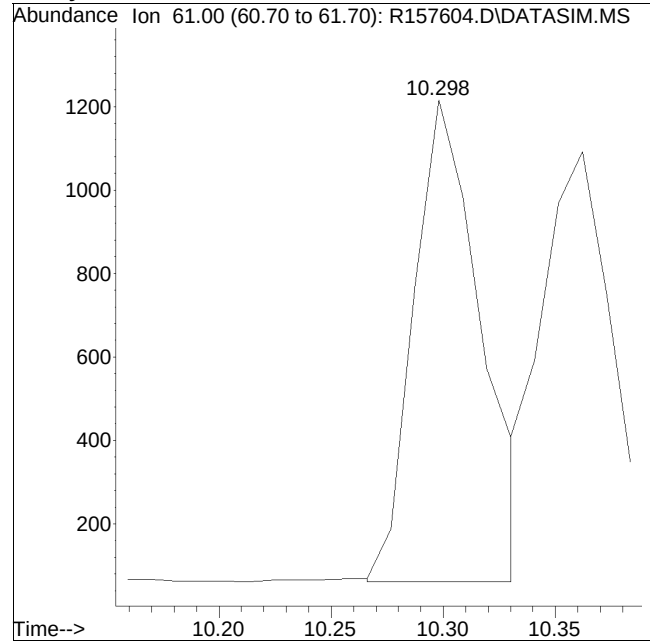
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #29: Ethyl Acetate



Original Peak Response = 2434

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

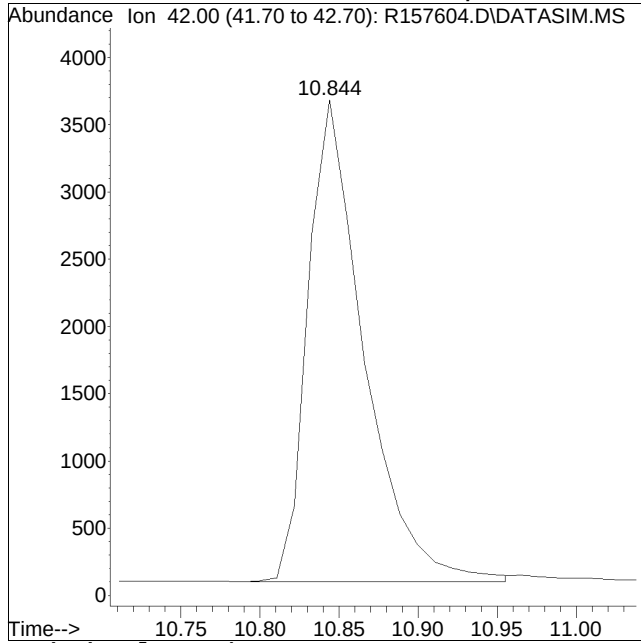


Manual Peak Response = 2415 M6

Manual Integration/Negative Proof Report

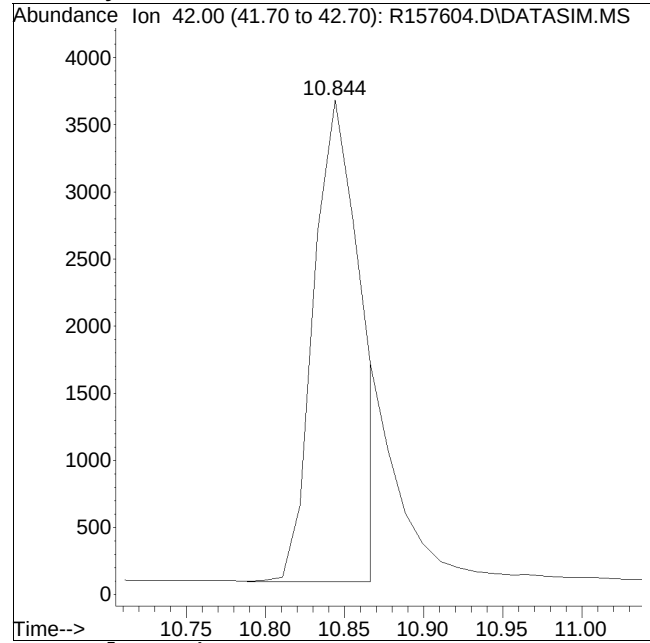
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 8872

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

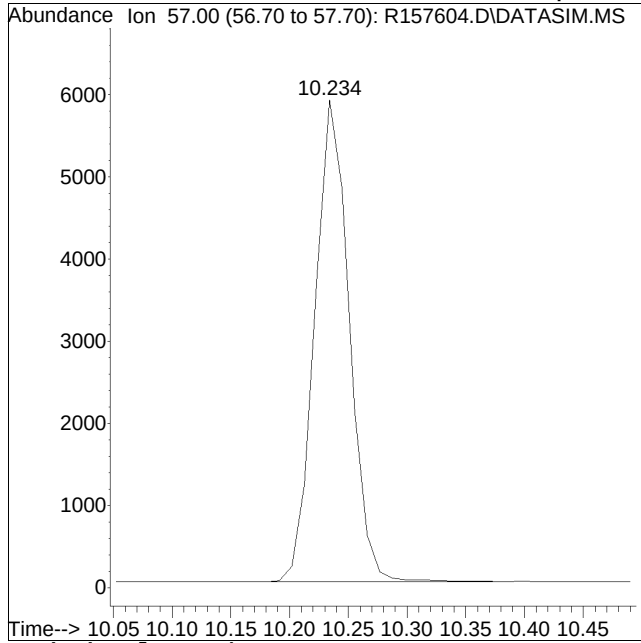


Manual Peak Response = 7430 M6

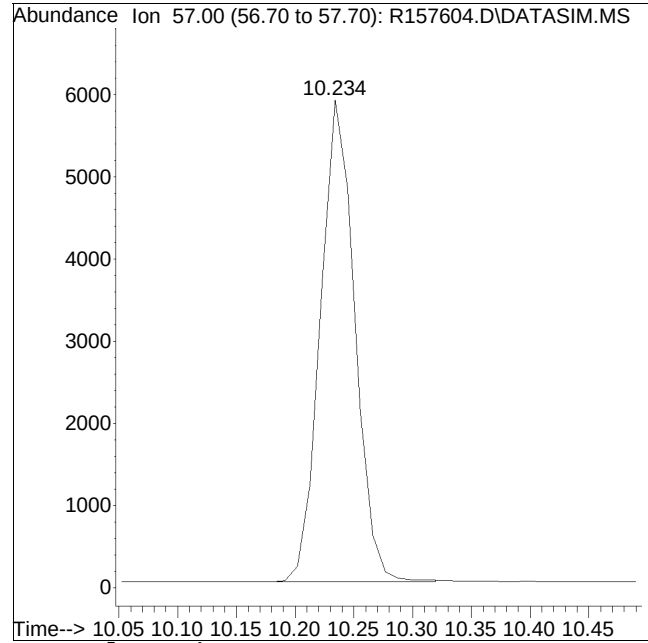
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #34: hexane



Original Peak Response = 12010



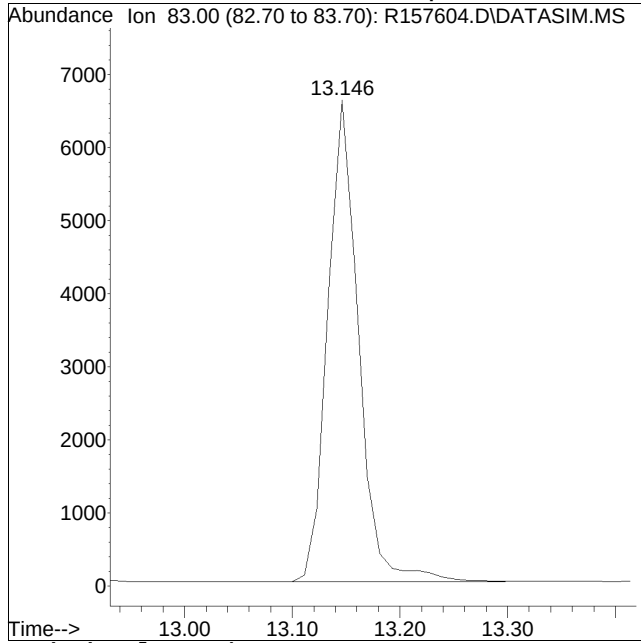
Manual Peak Response = 11971 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

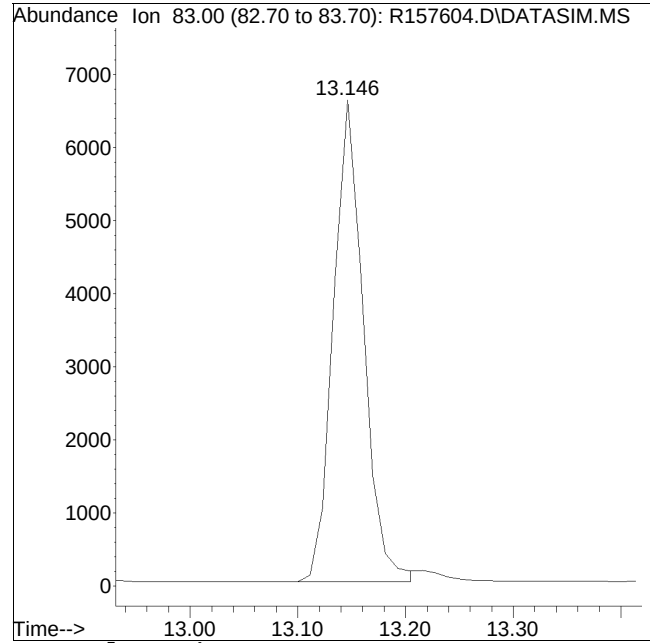
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #42: bromodichloromethane



Original Peak Response = 13188

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

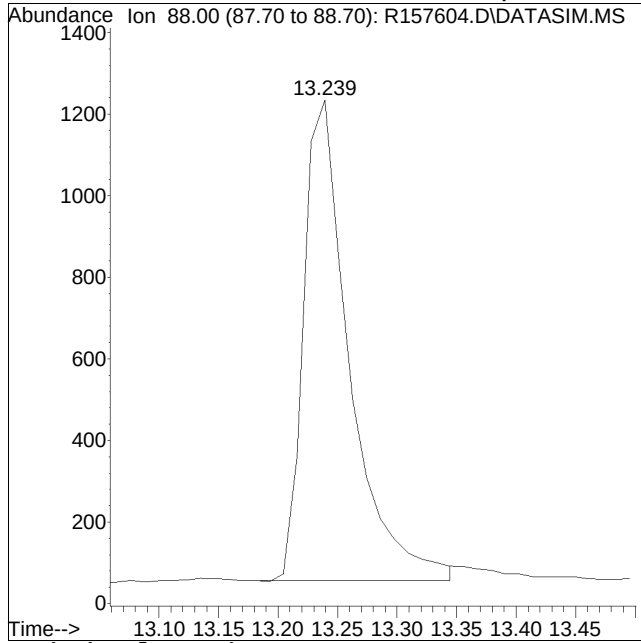


Manual Peak Response = 12856 M6

Manual Integration/Negative Proof Report

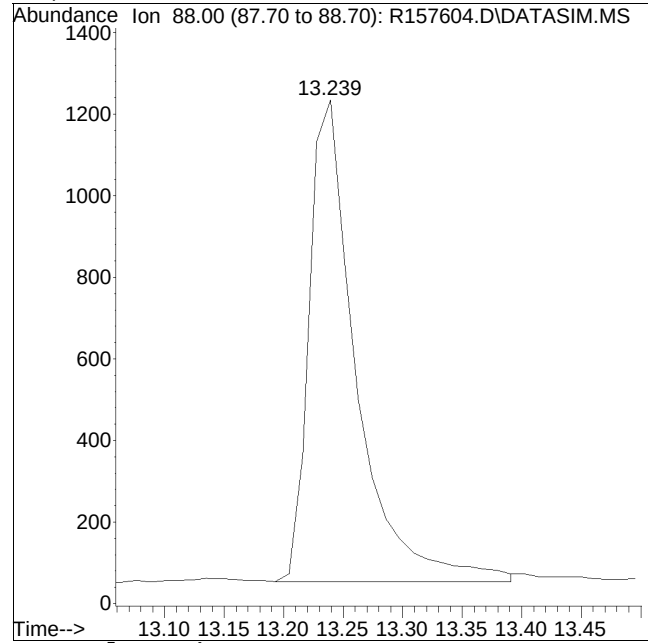
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #43: 1,4-dioxane



Original Peak Response = 3158

M4 = Poor automated baseline construction.

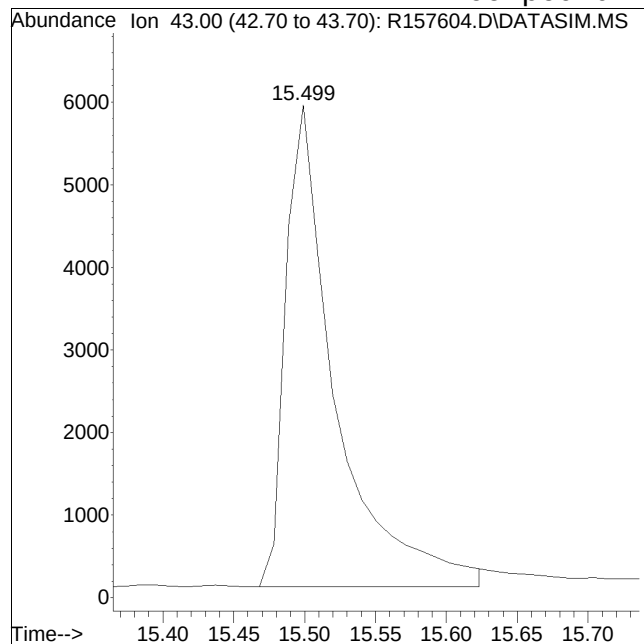


Manual Peak Response = 3257 M4

Manual Integration/Negative Proof Report

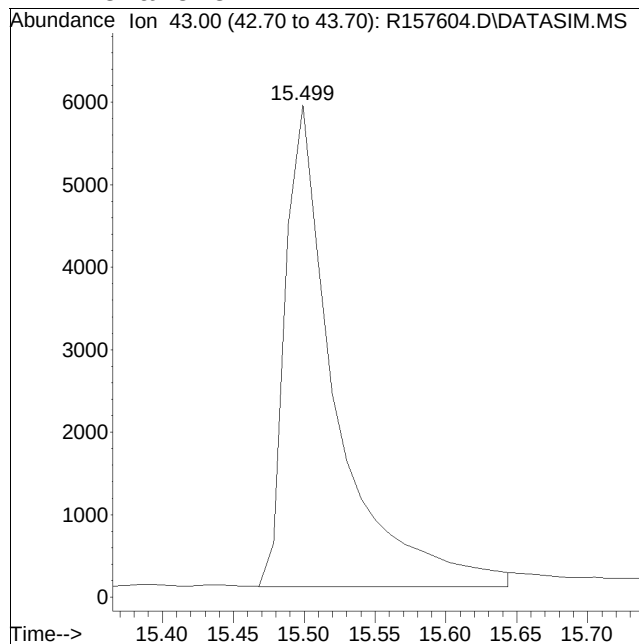
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #54: 2-hexanone



Original Peak Response = 14324

M4 = Poor automated baseline construction.

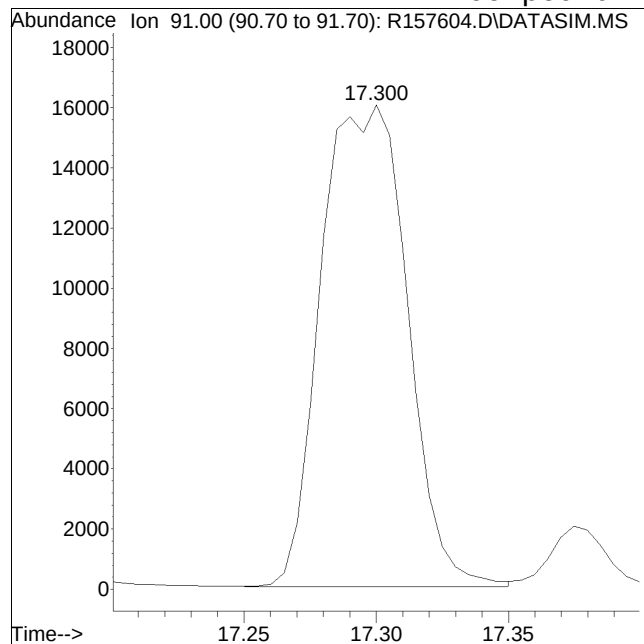


Manual Peak Response = 14651 M4

Manual Integration/Negative Proof Report

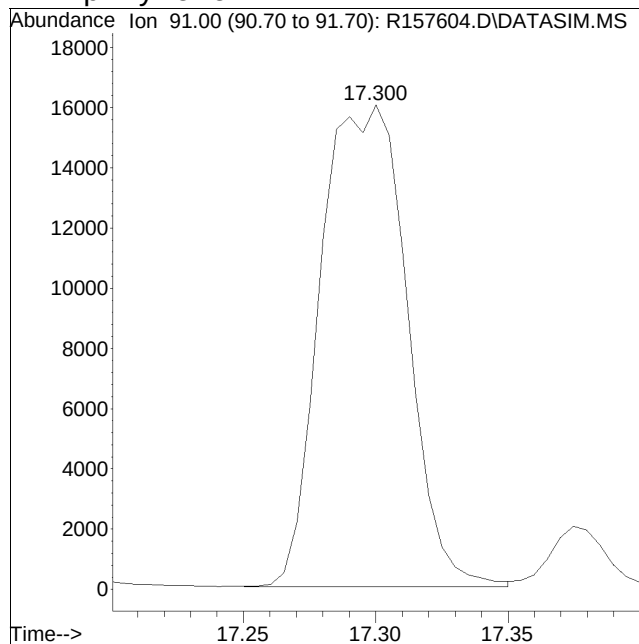
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #61: m+p-xylene



Original Peak Response = 36177

M4 = Poor automated baseline construction.

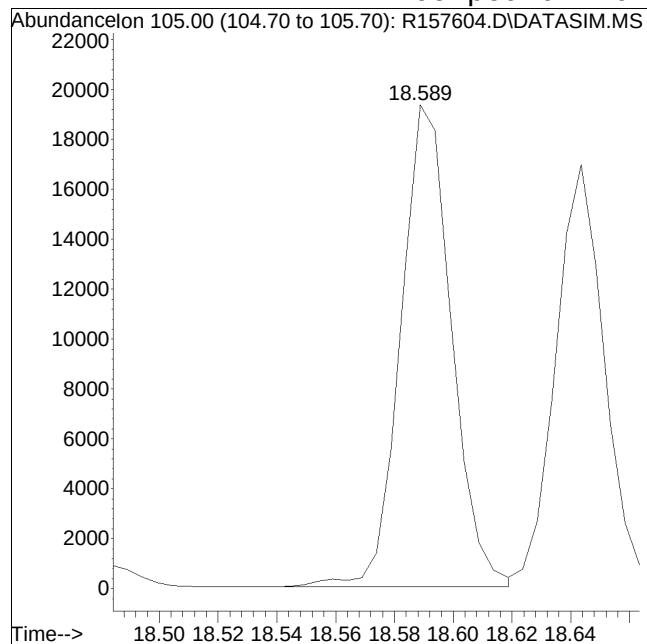


Manual Peak Response = 36207 M4

Manual Integration/Negative Proof Report

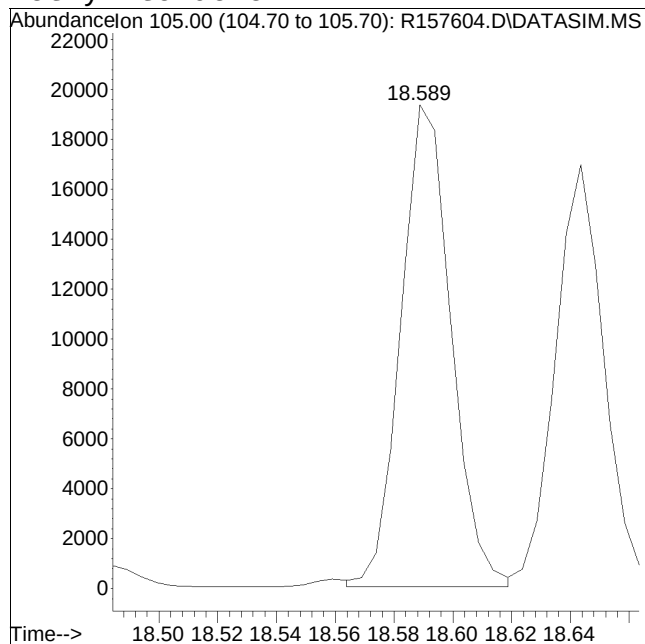
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 23259

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

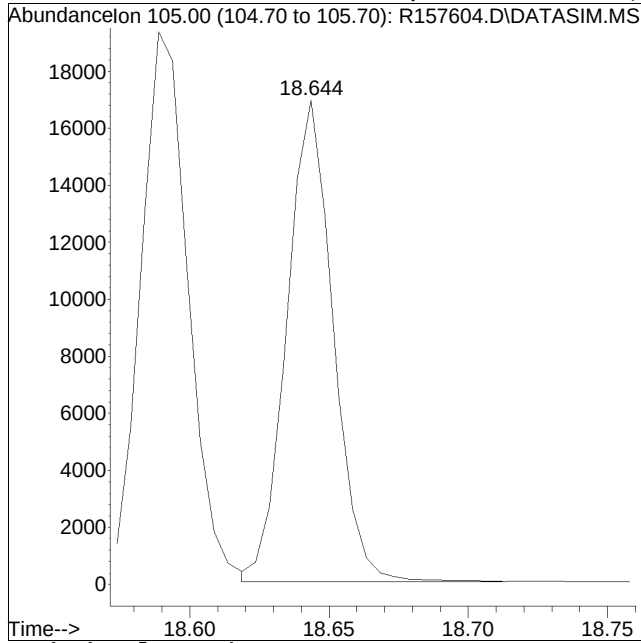


Manual Peak Response = 22955 M6

Manual Integration/Negative Proof Report

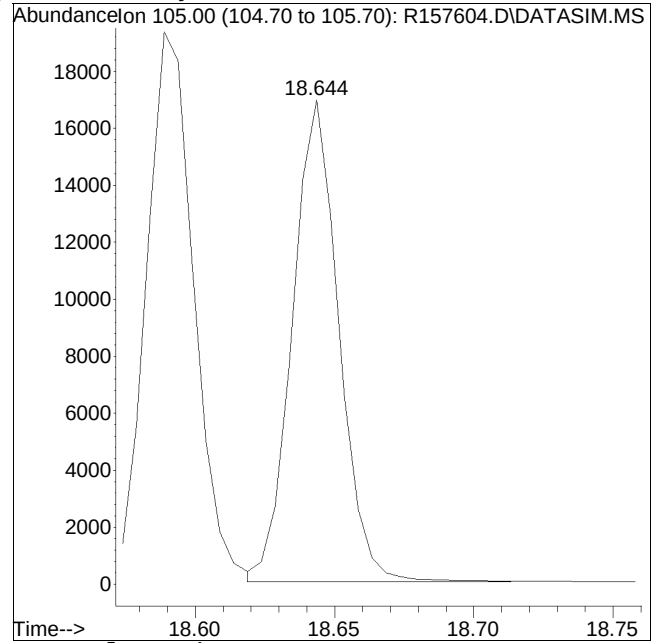
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 19512

M4 = Poor automated baseline construction.

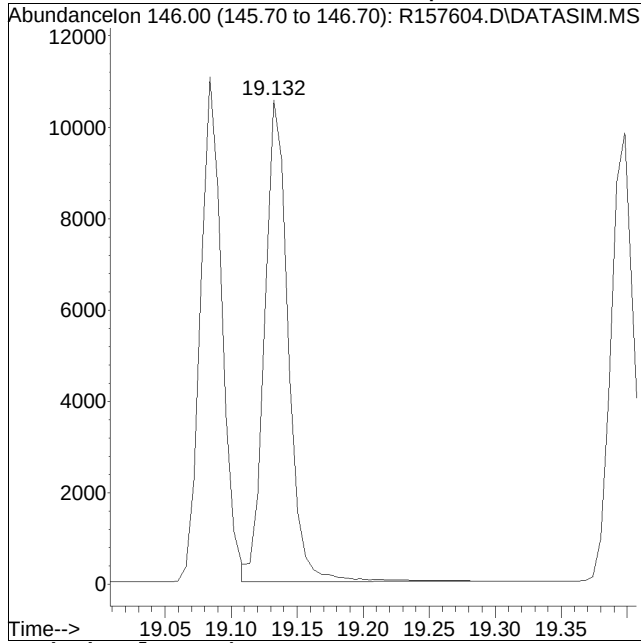


Manual Peak Response = 19594 M4

Manual Integration/Negative Proof Report

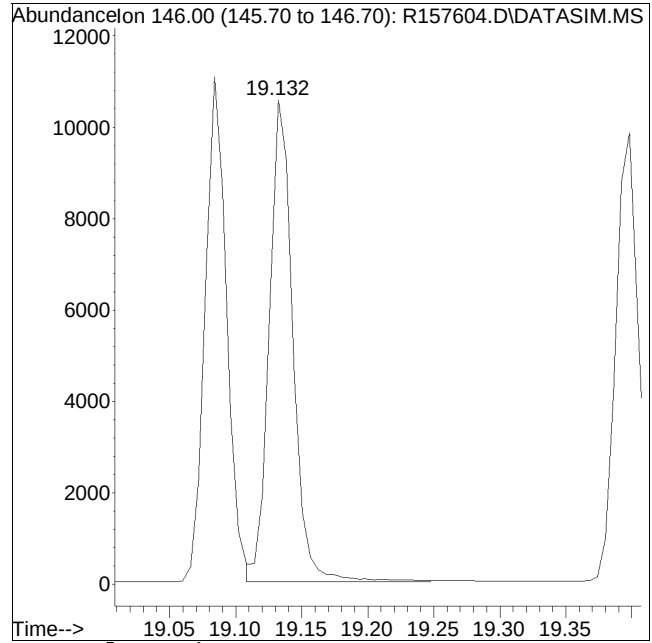
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 13093

M4 = Poor automated baseline construction.

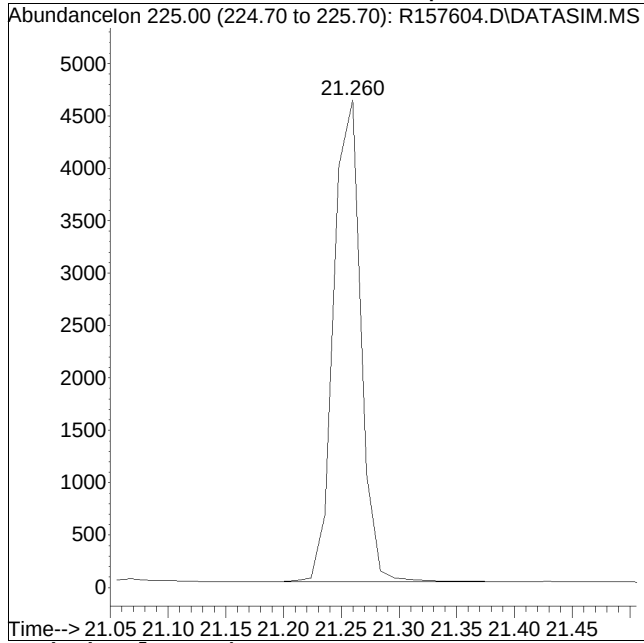


Manual Peak Response = 13089 M4

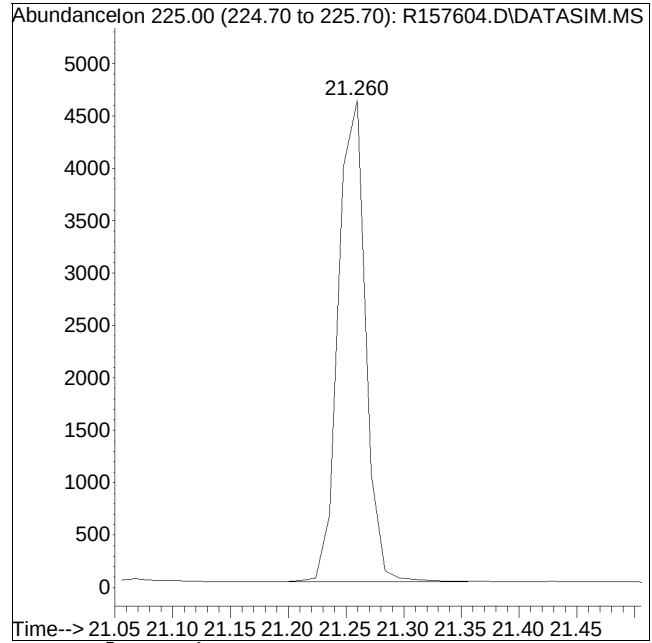
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157604.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:07 am Instrument : Air Piano 1
Sample : IT015-SIMSTD0.5 Quant Date : 2/27/2018 12:45 pm

Compound #84: hexachlorobutadiene



Original Peak Response = 7588



Manual Peak Response = 7569 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157605.D
 Acq On : 27 Feb 2018 12:41 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD1.0
 Misc : WG1092763
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:45:34 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	215105	10.000	ppbV	0.00
Standard Area = 218948			Recovery =		98.24%	
33) 1,4-difluorobenzene	12.401	114	308679	10.000	ppbV	0.00
Standard Area = 315293			Recovery =		97.90%	
51) chlorobenzene-D5	16.822	54	84884	10.000	ppbV	0.00
Standard Area = 85423			Recovery =		99.37%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.066	65	117318	9.800	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.00%	
53) toluene-D8	15.128	98	280002	10.341	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		103.41%	
67) bromofluorobenzene	18.012	95	153840	10.098	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.98%	
Target Compounds						
					Qvalue	
2) propylene	4.051	41	12013	1.066	ppbV	99
3) dichlorodifluoromethane	4.152	85	22313	0.924	ppbV	100
4) chloromethane	4.364	50	12947	1.042	ppbV	99
5) Freon-114	4.520	85	32728M4	1.061	ppbV	
6) vinyl chloride	4.677	62	13430M4	1.054	ppbV	
7) 1,3-butadiene	4.867	54	9028M6	1.037	ppbV	
8) bromomethane	5.254	94	10711	0.998	ppbV	98
9) chloroethane	5.505	64	6103	1.017	ppbV	98
10) ethanol	5.710	31	48564M4	4.900	ppbV	
11) vinyl bromide	5.989	106	10043	1.040	ppbV	99
12) acrolein	6.175	56	5010	0.928	ppbV	99
13) acetone	6.362	43	85616	5.275	ppbV #	98
14) trichlorofluoromethane	6.566	101	28104	1.036	ppbV	100
15) isopropyl alcohol	6.715	45	56085	2.534	ppbV	99
16) acrylonitrile	6.985	53	9715	1.054	ppbV	99
17) 1,1-dichloroethene	7.404	61	21546	1.034	ppbV	98
18) tertiary butyl alcohol	7.525	59	24710	1.017	ppbV	96
19) methylene chloride	7.572	49	17852	1.069	ppbV	99
20) 3-chloropropene	7.721	41	17448	1.011	ppbV	98
21) carbon disulfide	7.897	76	34306	1.016	ppbV #	67
22) Freon 113	7.916	101	21976	1.036	ppbV	99
23) trans-1,2-dichloroethene	8.745	61	19918	1.034	ppbV	100
24) 1,1-dichloroethane	8.991	63	25143	1.045	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157605.D
 Acq On : 27 Feb 2018 12:41 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD1.0
 Misc : WG1092763
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:45:34 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.097	73	29997	1.053	ppbV	99
26) vinyl acetate	9.203	43	25252	0.918	ppbV	98
27) 2-butanone	9.506	43	29226	1.007	ppbV	98
28) cis-1,2-dichloroethene	9.988	61	21523	1.030	ppbV	99
29) Ethyl Acetate	10.298	61	4956M6	1.037	ppbV	
30) chloroform	10.341	83	30035	1.019	ppbV	98
31) Tetrahydrofuran	10.833	42	15436M6	0.962	ppbV	
32) 1,2-dichloroethane	11.188	62	18075	0.997	ppbV	98
34) hexane	10.234	57	23265M6	0.958	ppbV	
36) 1,1,1-trichloroethane	11.477	97	22686	0.980	ppbV	91
37) benzene	11.994	78	34866	0.991	ppbV	97
38) carbon tetrachloride	12.157	117	21497	0.977	ppbV	99
39) cyclohexane	12.297	56	18965	0.964	ppbV	98
40) dibromomethane	12.902	93	14070	0.910	ppbV	85
41) 1,2-dichloropropane	12.925	63	15666	0.989	ppbV	98
42) bromodichloromethane	13.146	83	26686M6	0.989	ppbV	
43) 1,4-dioxane	13.228	88	6582	0.966	ppbV	90
44) trichloroethene	13.193	130	12613	0.996	ppbV	98
45) 2,2,4-trimethylpentane	13.216	57	63246	0.995	ppbV	99
46) heptane	13.507	43	26258M6	0.979	ppbV	
47) cis-1,3-dichloropropene	14.170	75	75241	0.975	ppbV	97
48) 4-methyl-2-pentanone	14.221	43	33397	1.015	ppbV #	85
49) trans-1,3-dichloropropene	14.756	75	18065	0.985	ppbV #	90
50) 1,1,2-trichloroethane	14.942	97	13796	1.019	ppbV	92
52) toluene	15.231	91	38684	1.021	ppbV	98
54) 2-hexanone	15.489	43	30980	1.004	ppbV	97
55) dibromochloromethane	15.644	129	21711	1.013	ppbV	99
56) 1,2-dibromoethane	15.881	107	21200	1.014	ppbV	97
57) tetrachloroethene	16.283	166	14754	1.012	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.842	131	14480	1.011	ppbV	99
59) chlorobenzene	16.862	112	29007	1.024	ppbV	98
60) ethylbenzene	17.156	91	49304	1.009	ppbV	99
61) m+p-xylene	17.300	91	76494	2.022	ppbV	98
62) bromoform	17.375	173	18634	0.956	ppbV	99
63) styrene	17.579	104	25961	1.026	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.663	83	34985	1.020	ppbV	99
65) o-xylene	17.663	91	39688	0.999	ppbV	98
66) 1,2,3-trichloropropane	17.763	75	26240	1.009	ppbV	97
68) isopropylbenzene	18.106	105	45814	0.998	ppbV	99
69) bromobenzene	18.191	77	29689	1.008	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157605.D
 Acq On : 27 Feb 2018 12:41 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD1.0
 Misc : WG1092763
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:45:34 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

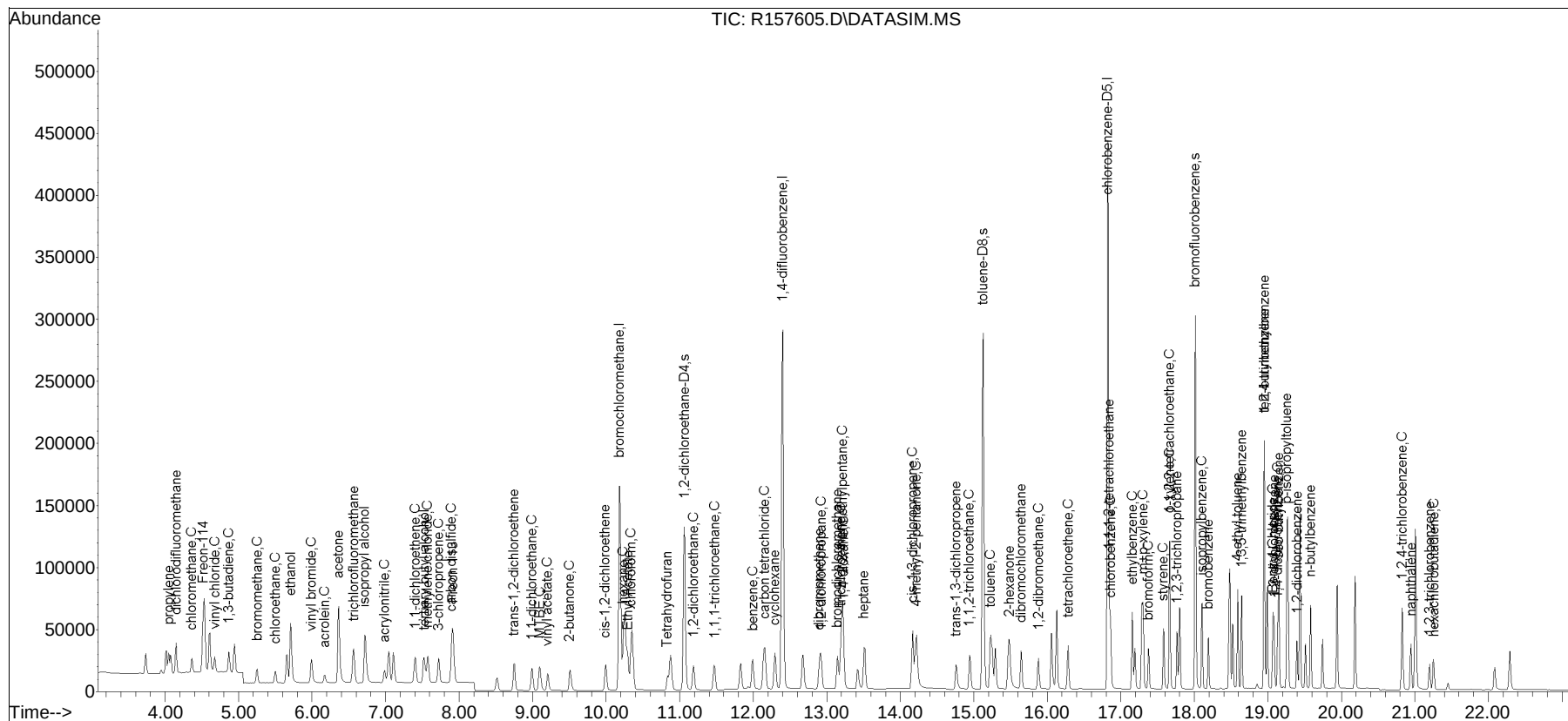
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.589	105	48187M6	1.022	ppbV	
71) 1,3,5-trimethylbenzene	18.644	105	41087M4	1.004	ppbV	
72) tert-butylbenzene	18.951	119	39116	1.009	ppbV	97
73) 1,2,4-trimethylbenzene	18.951	105	41052	1.026	ppbV	97
74) Benzyl Chloride	19.066	91	31783	0.859	ppbV	97
75) 1,3-dichlorobenzene	19.084	146	26932	1.016	ppbV	94
76) 1,4-dichlorobenzene	19.132	146	27624M4	1.013	ppbV	
77) sec-butylbenzene	19.150	105	59060	1.031	ppbV	96
78) p-isopropyltoluene	19.259	119	47297	1.033	ppbV	98
79) 1,2-dichlorobenzene	19.398	146	25954	1.033	ppbV	92
80) n-butylbenzene	19.579	91	53902	1.083	ppbV	98
81) 1,2,4-trichlorobenzene	20.828	180	19490	1.065	ppbV #	93
82) naphthalene	20.948	128	47281	0.998	ppbV	95
83) 1,2,3-trichlorobenzene	21.200	180	18200	1.079	ppbV #	92
84) hexachlorobutadiene	21.260	225	16497	1.044	ppbV #	79

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

Sub List : Default - All compounds listed0226SIM_ICAL\R157606.D

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
Data File : R157605.D
Acq On : 27 Feb 2018 12:41 am
Operator : AIRPIAN01:MB
Sample : IT015-SIMSTD1.0
Misc : WG1092763
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:45:34 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



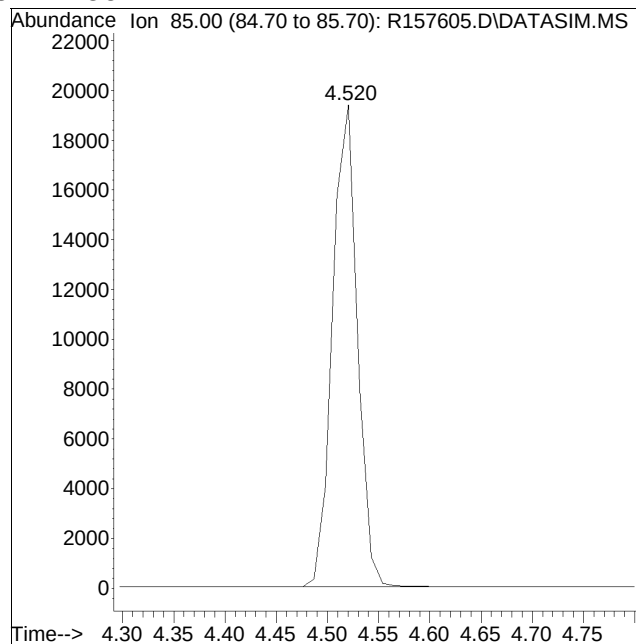
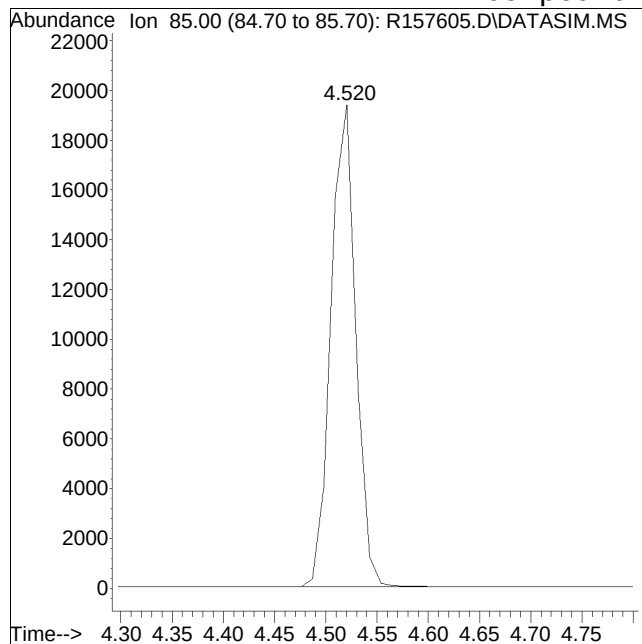
TSIM180226.M Wed Feb 28 07:49:18 2018

Page: 4

Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157605.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:41 am Instrument : Air Piano 1
Sample : IT015-SIMSTD1.0 Quant Date : 2/27/2018 12:45 pm

Compound #5: Freon-114



Original Peak Response = 32785

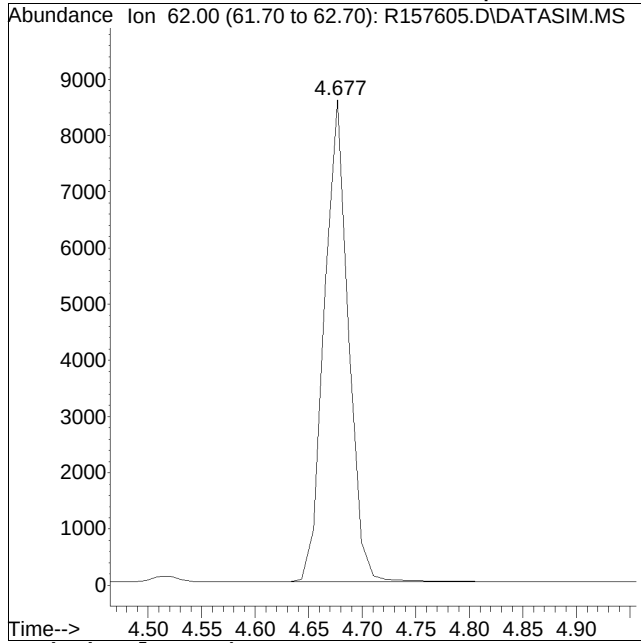
Manual Peak Response = 32728 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

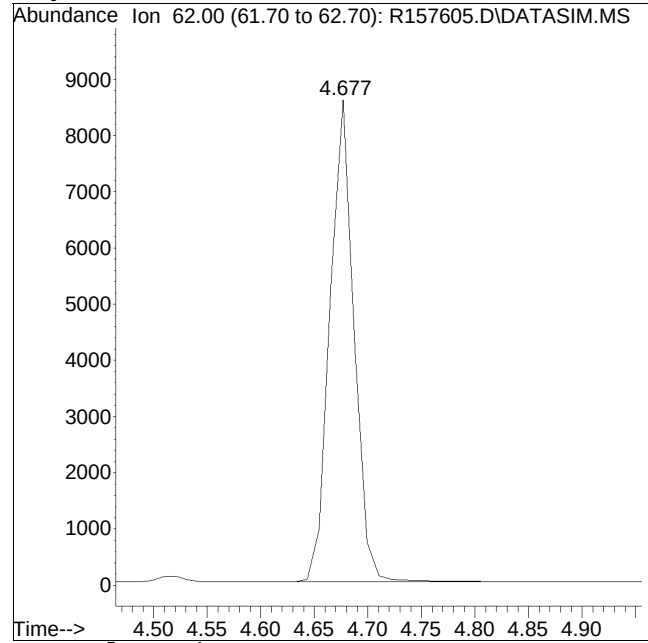
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157605.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:41 am Instrument : Air Piano 1
Sample : IT015-SIMSTD1.0 Quant Date : 2/27/2018 12:45 pm

Compound #6: vinyl chloride



Original Peak Response = 13441

M4 = Poor automated baseline construction.

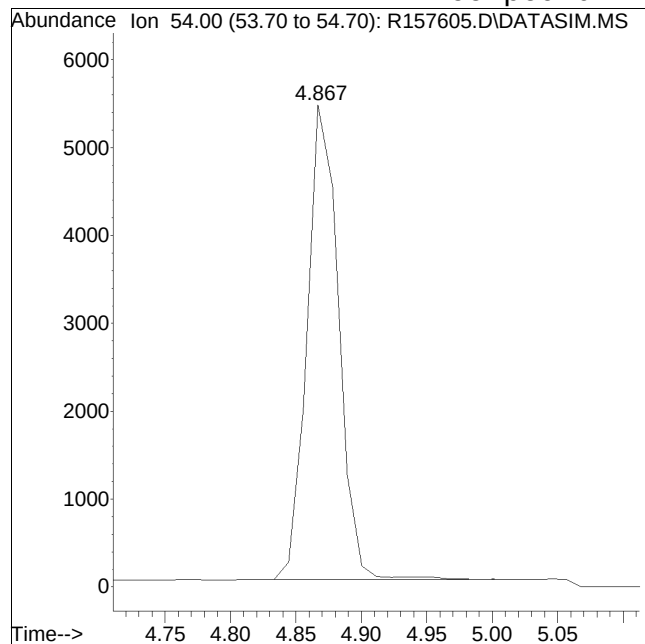


Manual Peak Response = 13430 M4

Manual Integration/Negative Proof Report

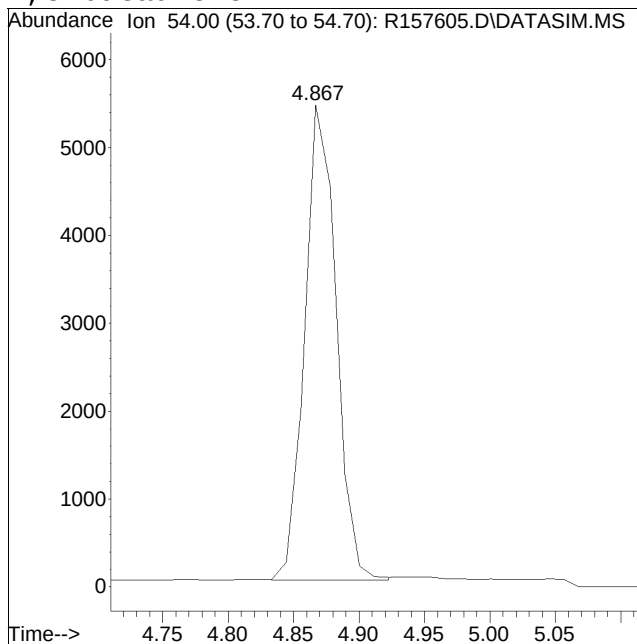
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157605.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:41 am Instrument : Air Piano 1
Sample : IT015-SIMSTD1.0 Quant Date : 2/27/2018 12:45 pm

Compound #7: 1,3-butadiene



Original Peak Response = 9069

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

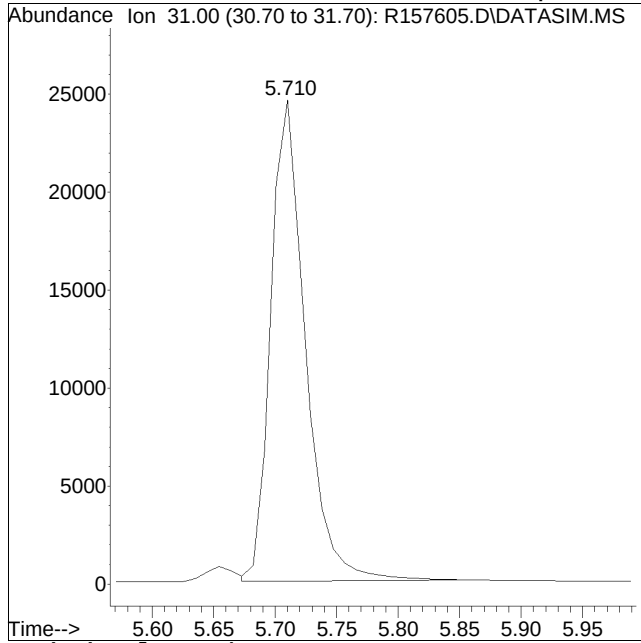


Manual Peak Response = 9028 M6

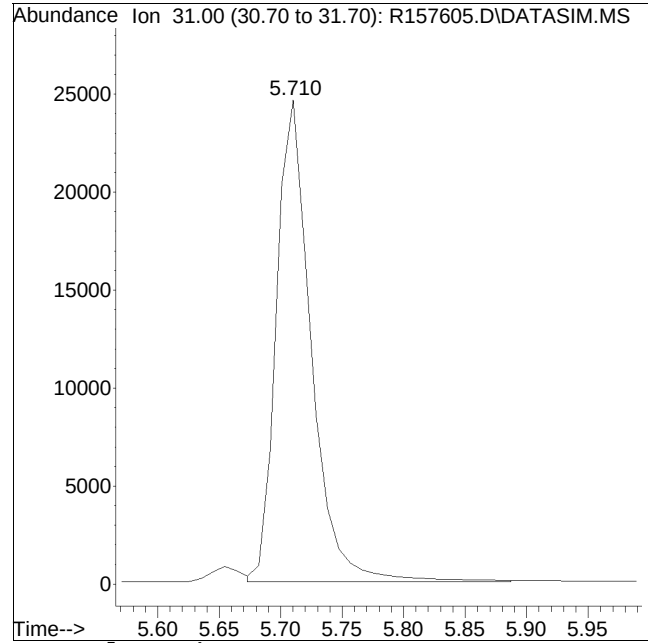
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157605.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:41 am Instrument : Air Piano 1
Sample : IT015-SIMSTD1.0 Quant Date : 2/27/2018 12:45 pm

Compound #10: ethanol



Original Peak Response = 47916



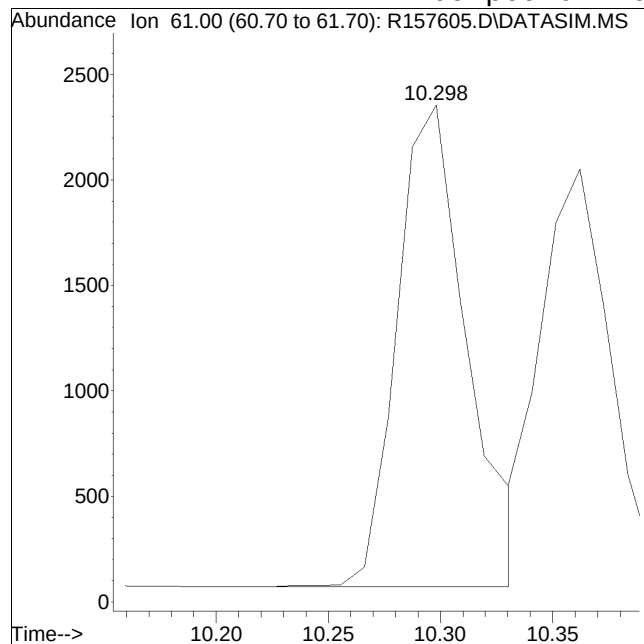
Manual Peak Response = 48564 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

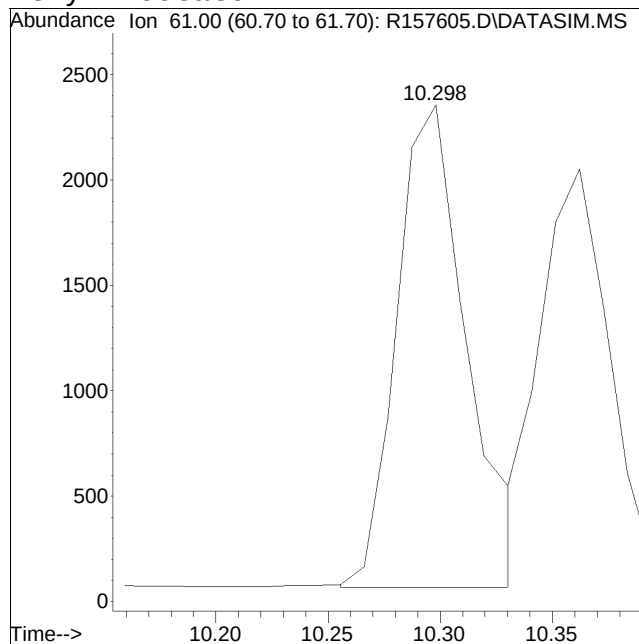
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157605.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:41 am Instrument : Air Piano 1
Sample : IT015-SIMSTD1.0 Quant Date : 2/27/2018 12:45 pm

Compound #29: Ethyl Acetate



Original Peak Response = 4968

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

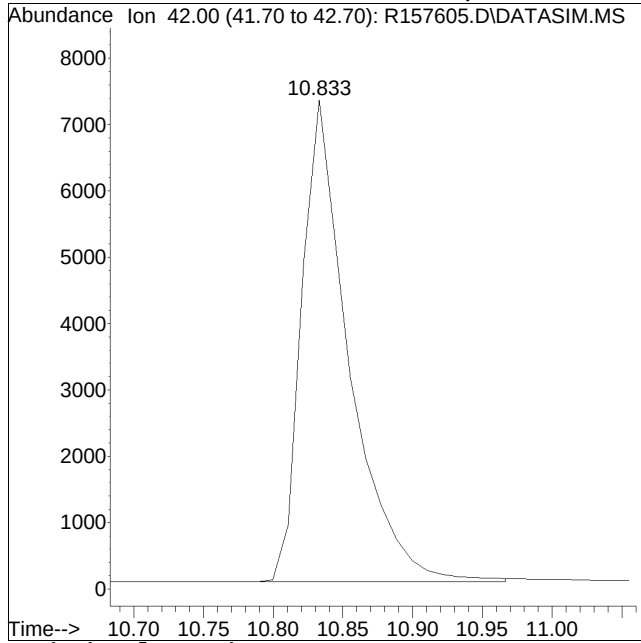


Manual Peak Response = 4956 M6

Manual Integration/Negative Proof Report

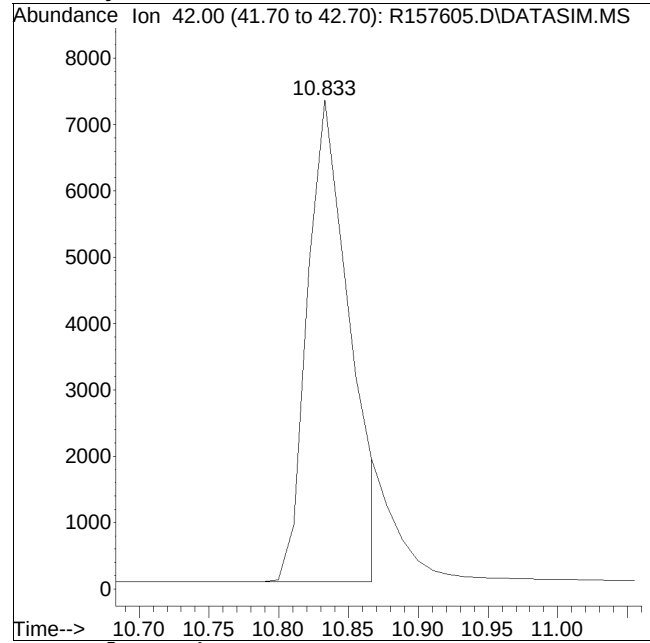
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157605.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:41 am Instrument : Air Piano 1
Sample : IT015-SIMSTD1.0 Quant Date : 2/27/2018 12:45 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 17201

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

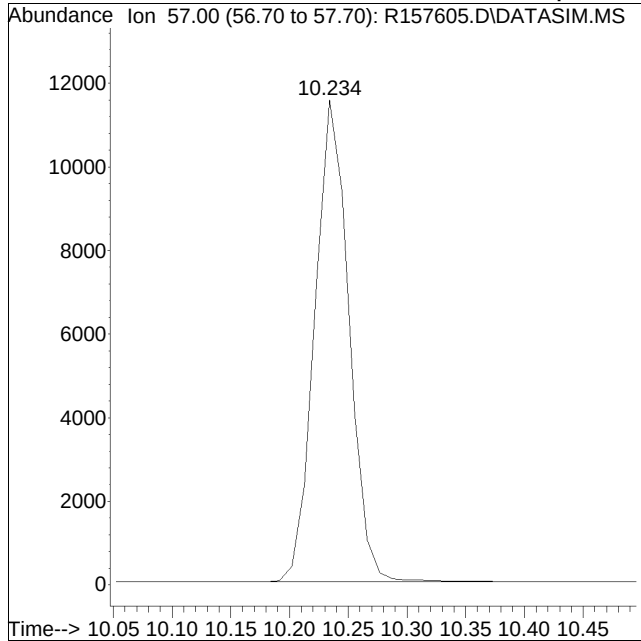


Manual Peak Response = 15436 M6

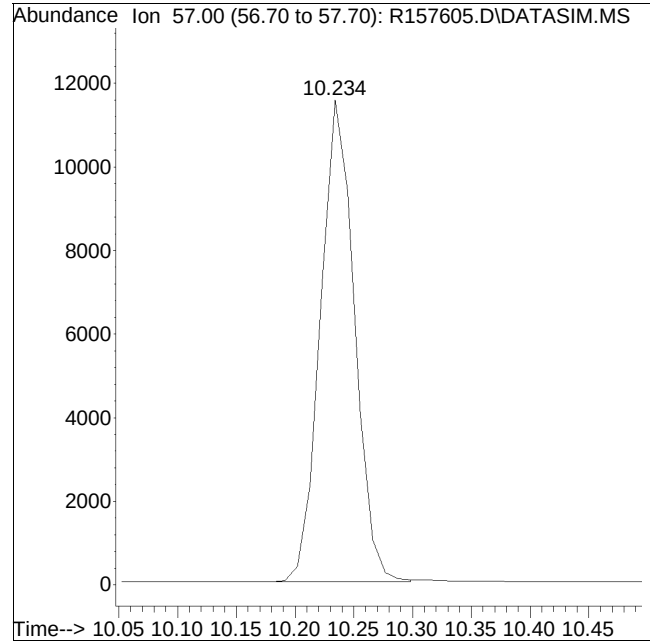
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157605.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:41 am Instrument : Air Piano 1
Sample : IT015-SIMSTD1.0 Quant Date : 2/27/2018 12:45 pm

Compound #34: hexane



Original Peak Response = 23382



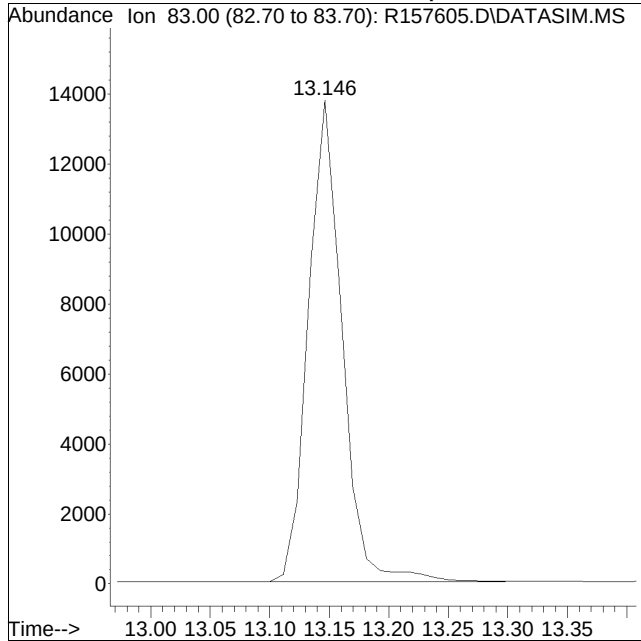
Manual Peak Response = 23265 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

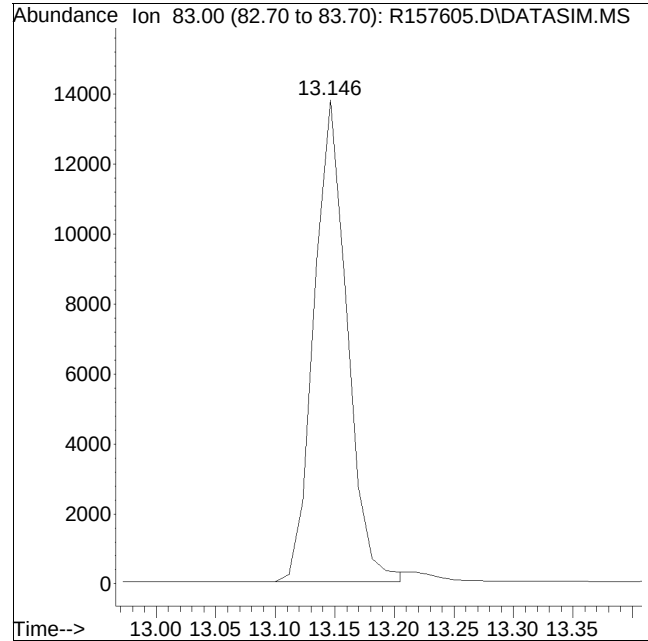
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157605.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:41 am Instrument : Air Piano 1
Sample : IT015-SIMSTD1.0 Quant Date : 2/27/2018 12:45 pm

Compound #42: bromodichloromethane



Original Peak Response = 27231

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

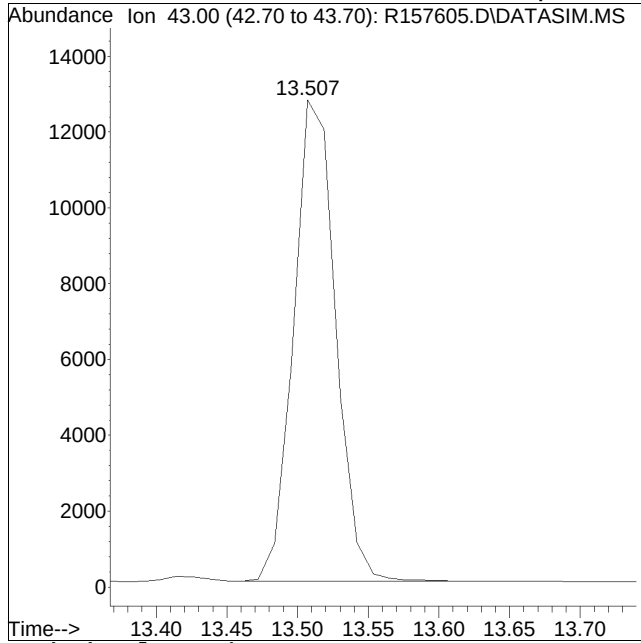


Manual Peak Response = 26686 M6

Manual Integration/Negative Proof Report

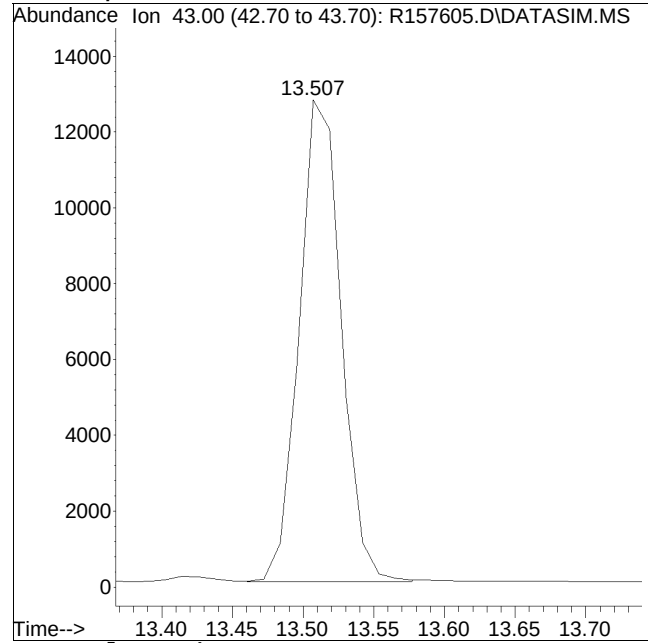
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157605.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:41 am Instrument : Air Piano 1
Sample : IT015-SIMSTD1.0 Quant Date : 2/27/2018 12:45 pm

Compound #46: heptane



Original Peak Response = 26254

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

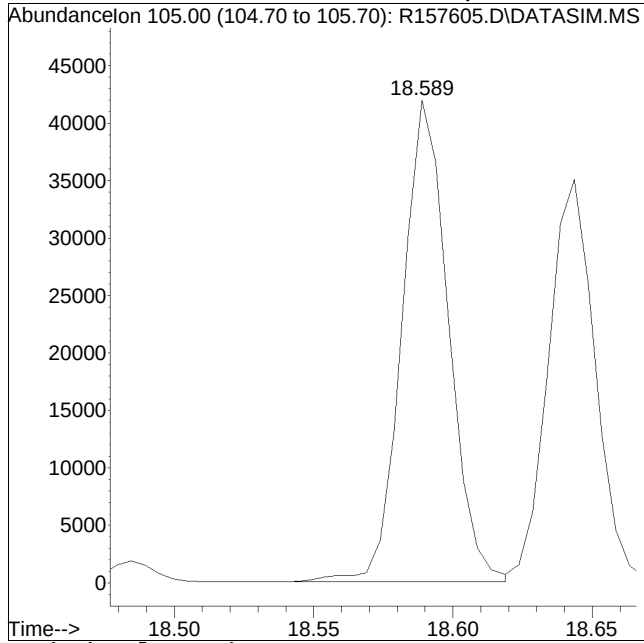


Manual Peak Response = 26258 M6

Manual Integration/Negative Proof Report

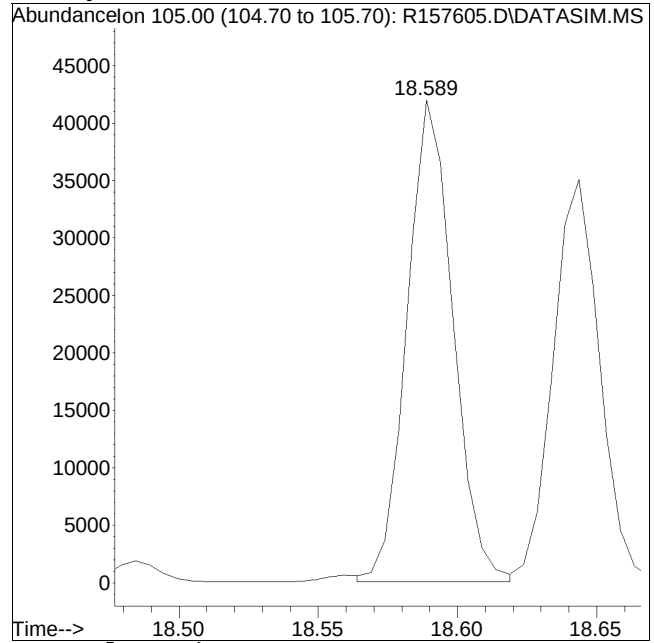
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157605.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:41 am Instrument : Air Piano 1
Sample : IT015-SIMSTD1.0 Quant Date : 2/27/2018 12:45 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 48706

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

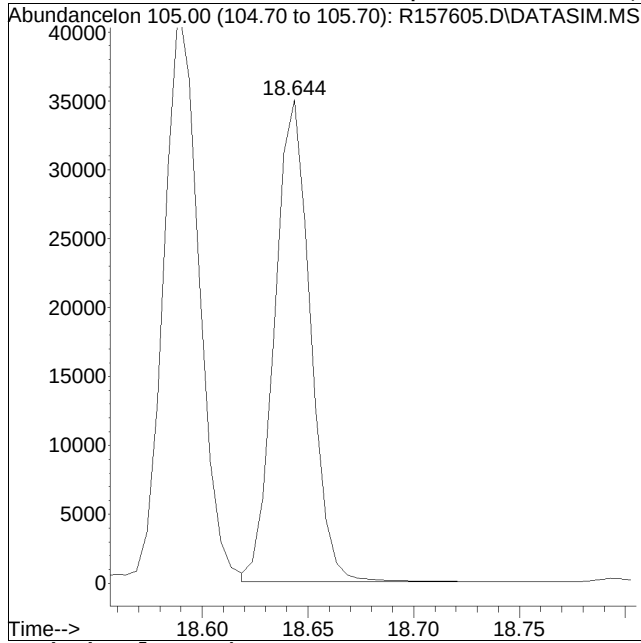


Manual Peak Response = 48187 M6

Manual Integration/Negative Proof Report

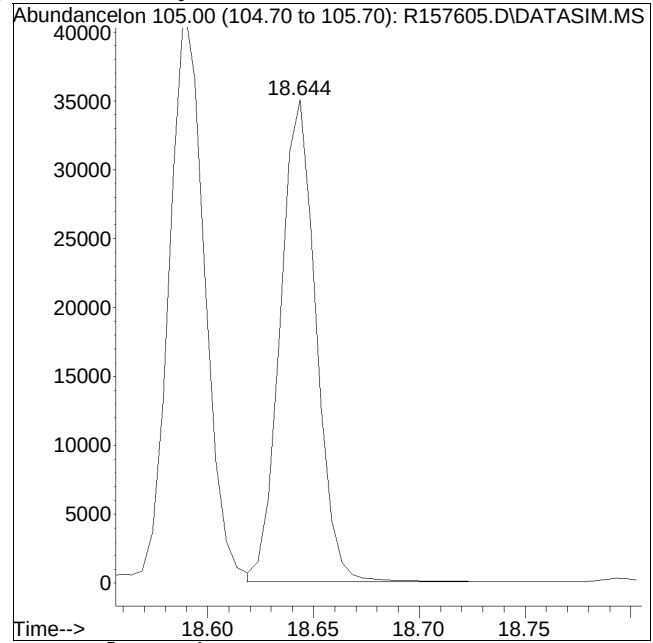
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157605.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:41 am Instrument : Air Piano 1
Sample : IT015-SIMSTD1.0 Quant Date : 2/27/2018 12:45 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 40983

M4 = Poor automated baseline construction.

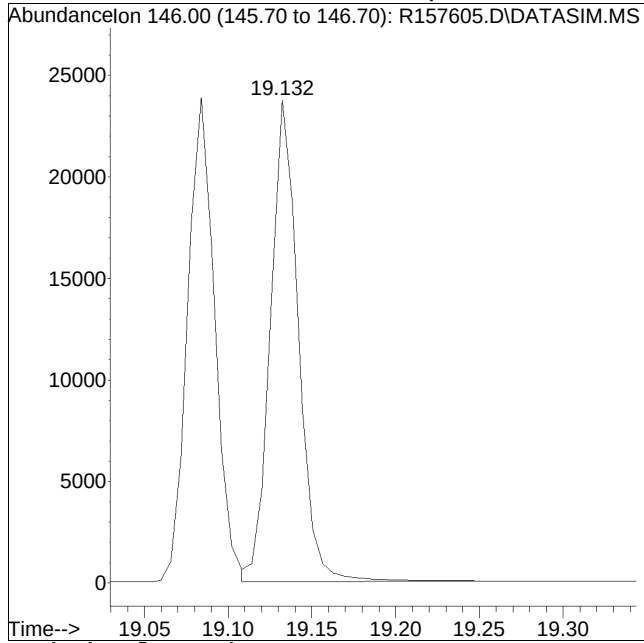


Manual Peak Response = 41087 M4

Manual Integration/Negative Proof Report

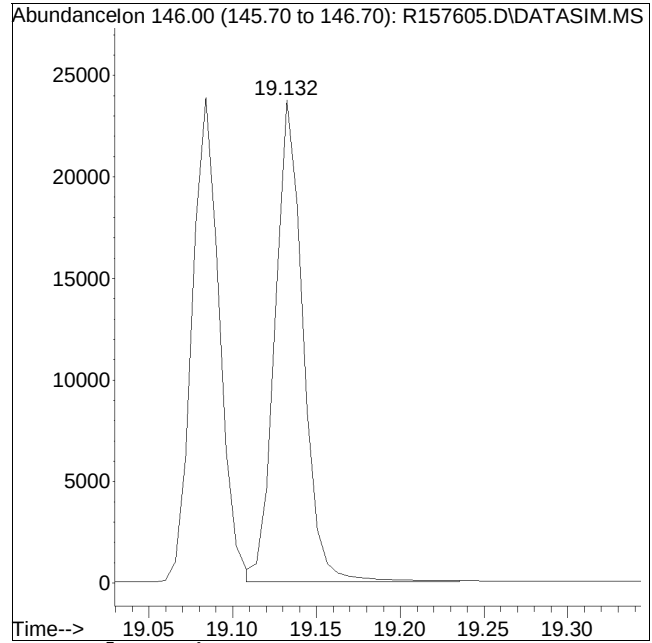
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157605.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 12:41 am Instrument : Air Piano 1
Sample : IT015-SIMSTD1.0 Quant Date : 2/27/2018 12:45 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 27522

M4 = Poor automated baseline construction.



Manual Peak Response = 27624 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157606.D
 Acq On : 27 Feb 2018 1:13 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD5.0
 Misc : WG1092763
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 12:45:39 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	218948	10.000	ppbV	0.00
Standard Area = 218948			Recovery =	100.00%		
33) 1,4-difluorobenzene	12.401	114	315293	10.000	ppbV	0.00
Standard Area = 315293			Recovery =	100.00%		
51) chlorobenzene-D5	16.822	54	85423	10.000	ppbV	0.00
Standard Area = 85423			Recovery =	100.00%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.055	65	115853	9.474	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.74%		
53) toluene-D8	15.128	98	282022	10.350	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.50%		
67) bromofluorobenzene	18.012	95	157438	10.269	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.69%		
Target Compounds						
					Qvalue	
2) propylene	4.051	41	52806M6	4.603	ppbV	
3) dichlorodifluoromethane	4.152	85	126297	5.140	ppbV	100
4) chloromethane	4.364	50	62987	4.982	ppbV	100
5) Freon-114	4.520	85	160355	5.106	ppbV	100
6) vinyl chloride	4.677	62	66133	5.097	ppbV	100
7) 1,3-butadiene	4.867	54	44767	5.050	ppbV	100
8) bromomethane	5.254	94	56449	5.168	ppbV	100
9) chloroethane	5.505	64	30532	4.997	ppbV	100
10) ethanol	5.701	31	235078M6	23.300	ppbV	
11) vinyl bromide	5.989	106	49487	5.037	ppbV	100
12) acrolein	6.166	56	25377M6	4.617	ppbV	
13) acetone	6.343	43	385070	23.308	ppbV	100
14) trichlorofluoromethane	6.566	101	139834	5.065	ppbV	100
15) isopropyl alcohol	6.706	45	232794	10.333	ppbV	100
16) acrylonitrile	6.976	53	45563M6	4.857	ppbV	
17) 1,1-dichloroethene	7.404	61	107309	5.057	ppbV	100
18) tertiary butyl alcohol	7.497	59	121267	4.901	ppbV	100
19) methylene chloride	7.572	49	86665	5.100	ppbV	100
20) 3-chloropropene	7.720	41	87654	4.991	ppbV	100
21) carbon disulfide	7.897	76	174687	5.080	ppbV	100
22) Freon 113	7.916	101	110277	5.106	ppbV	100
23) trans-1,2-dichloroethene	8.745	61	97418	4.969	ppbV	100
24) 1,1-dichloroethane	8.990	63	122213	4.988	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157606.D
 Acq On : 27 Feb 2018 1:13 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD5.0
 Misc : WG1092763
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 12:45:39 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.080	73	142633	4.919	ppbV	100
26) vinyl acetate	9.195	43	133719M4	4.776	ppbV	
27) 2-butanone	9.489	43	143599	4.861	ppbV	100
28) cis-1,2-dichloroethene	9.988	61	107042	5.031	ppbV	100
29) Ethyl Acetate	10.277	61	24199	4.976	ppbV	100
30) chloroform	10.341	83	149780	4.992	ppbV	100
31) Tetrahydrofuran	10.811	42	80851M6	4.952	ppbV	
32) 1,2-dichloroethane	11.188	62	91305	4.946	ppbV	100
34) hexane	10.234	57	119098	4.800	ppbV	100
36) 1,1,1-trichloroethane	11.466	97	114870	4.860	ppbV	100
37) benzene	11.994	78	173621	4.829	ppbV	100
38) carbon tetrachloride	12.157	117	110765	4.927	ppbV	100
39) cyclohexane	12.297	56	98500	4.902	ppbV	100
40) dibromomethane	12.890	93	70951	4.493	ppbV	100
41) 1,2-dichloropropane	12.913	63	79556	4.917	ppbV	100
42) bromodichloromethane	13.146	83	137808M6	4.998	ppbV	
43) 1,4-dioxane	13.193	88	35100M4	5.044	ppbV	
44) trichloroethene	13.193	130	64396	4.976	ppbV	100
45) 2,2,4-trimethylpentane	13.216	57	318464	4.903	ppbV	100
46) heptane	13.507	43	133246	4.864	ppbV	100
47) cis-1,3-dichloropropene	14.170	75	406689	5.159	ppbV	100
48) 4-methyl-2-pentanone	14.187	43	182901	5.442	ppbV	100
49) trans-1,3-dichloropropene	14.756	75	102322	5.460	ppbV	100
50) 1,1,2-trichloroethane	14.942	97	70392M4	5.092	ppbV	
52) toluene	15.220	91	196782	5.160	ppbV	100
54) 2-hexanone	15.468	43	175166	5.641	ppbV	100
55) dibromochloromethane	15.643	129	115399	5.352	ppbV	100
56) 1,2-dibromoethane	15.870	107	112959	5.367	ppbV	100
57) tetrachloroethene	16.283	166	76393	5.204	ppbV	100
58) 1,1,1,2-tetrachloroethane	16.842	131	76305	5.292	ppbV	100
59) chlorobenzene	16.857	112	150194	5.268	ppbV	100
60) ethylbenzene	17.156	91	257785	5.244	ppbV	100
61) m+p-xylene	17.300	91	405811	10.659	ppbV	100
62) bromoform	17.375	173	103420	5.272	ppbV	100
63) styrene	17.579	104	142301	5.586	ppbV	100
64) 1,1,2,2-tetrachloroethane	17.663	83	185512	5.375	ppbV	100
65) o-xylene	17.663	91	211501	5.289	ppbV	100
66) 1,2,3-trichloropropane	17.763	75	139115	5.318	ppbV	100
68) isopropylbenzene	18.101	105	236385	5.117	ppbV	100
69) bromobenzene	18.186	77	155625	5.249	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157606.D
 Acq On : 27 Feb 2018 1:13 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD5.0
 Misc : WG1092763
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 12:45:39 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

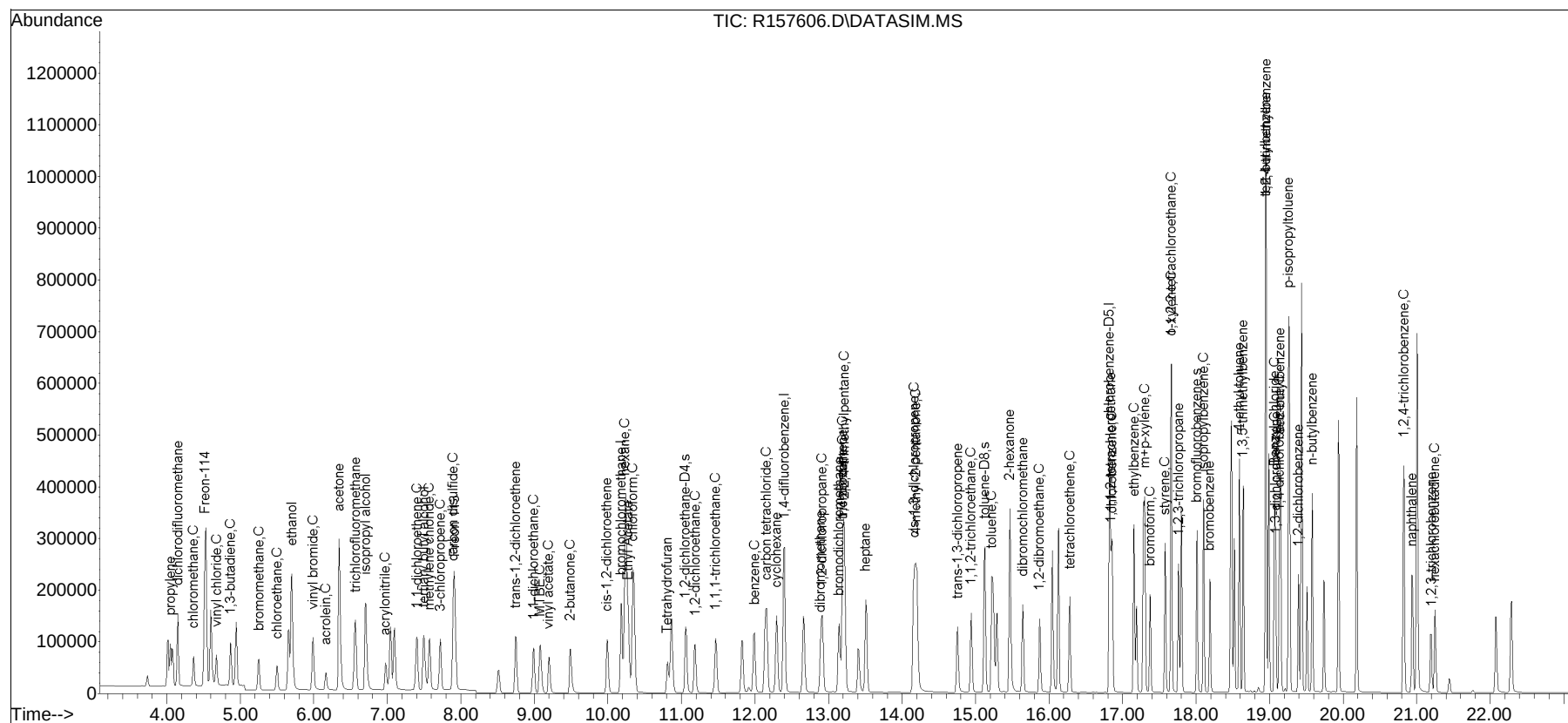
CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.589	105	265325M6	5.590	ppbV	
71) 1,3,5-trimethylbenzene	18.639	105	223579	5.431	ppbV	100
72) tert-butylbenzene	18.945	119	216816	5.558	ppbV	100
73) 1,2,4-trimethylbenzene	18.951	105	229629	5.705	ppbV	100
74) Benzyl Chloride	19.066	91	202158	5.428	ppbV	100
75) 1,3-dichlorobenzene	19.084	146	150698	5.648	ppbV	100
76) 1,4-dichlorobenzene	19.132	146	153047M3	5.574	ppbV	
77) sec-butylbenzene	19.144	105	323685	5.615	ppbV	100
78) p-isopropyltoluene	19.259	119	258210	5.606	ppbV	100
79) 1,2-dichlorobenzene	19.392	146	140738	5.565	ppbV	100
80) n-butylbenzene	19.579	91	296965	5.928	ppbV	100
81) 1,2,4-trichlorobenzene	20.828	180	119957	6.513	ppbV	100
82) naphthalene	20.936	128	299081	6.275	ppbV	100
83) 1,2,3-trichlorobenzene	21.200	180	115931	6.832	ppbV	100
84) hexachlorobutadiene	21.248	225	98843	6.217	ppbV	100

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

```
Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
Data File : R157606.D
Acq On    : 27 Feb 2018    1:13 am
Operator  : AIRPIAN01:MB
Sample    : IT015-SIMSTD5.0
Misc      : WG1092763
ALS Vial  : 7    Sample Multiplier: 1
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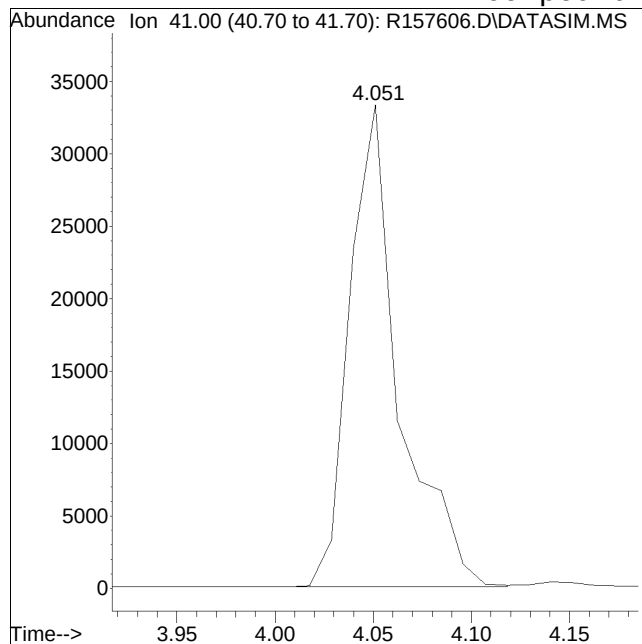
Quant Time: Feb 27 12:45:39 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



Manual Integration/Negative Proof Report

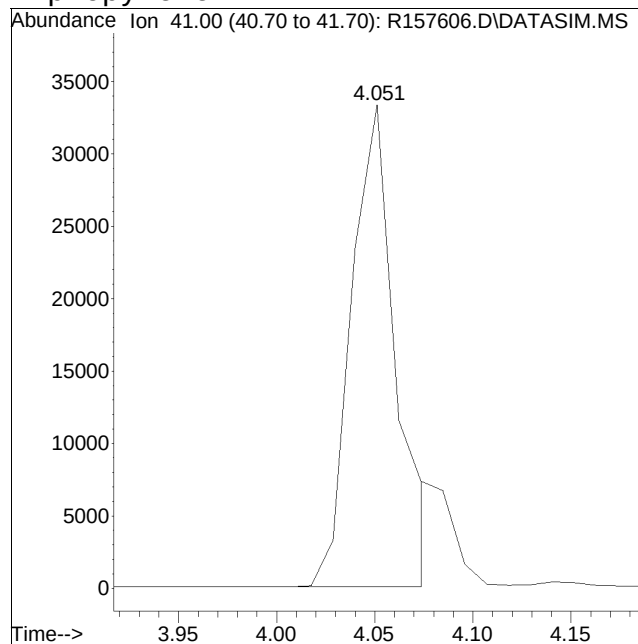
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157606.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:13 am Instrument : Air Piano 1
Sample : IT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #2: propylene



Original Peak Response = 58513

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

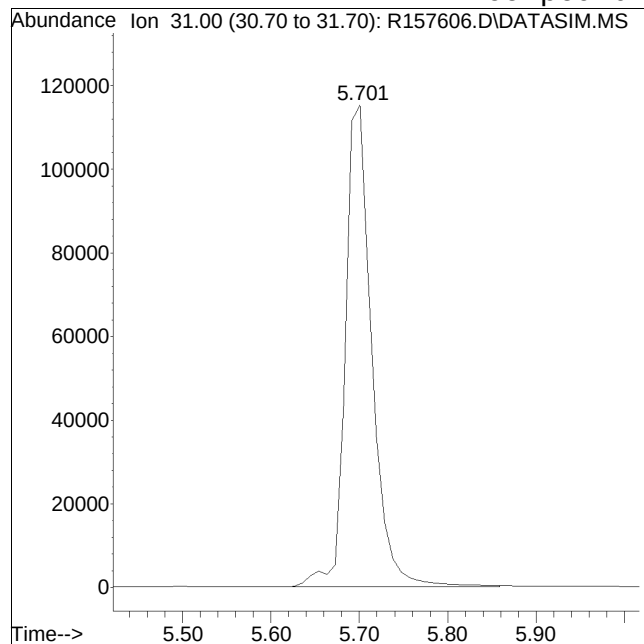


Manual Peak Response = 52806 M6

Manual Integration/Negative Proof Report

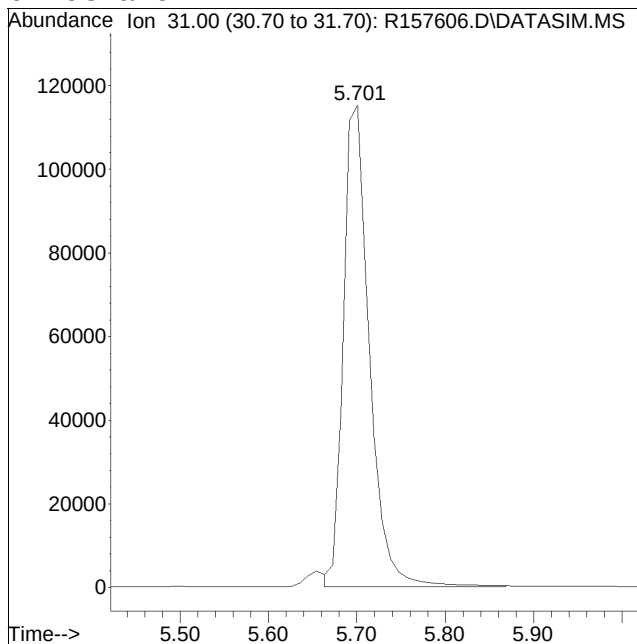
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157606.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:13 am Instrument : Air Piano 1
Sample : IT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #10: ethanol



Original Peak Response = 240908

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

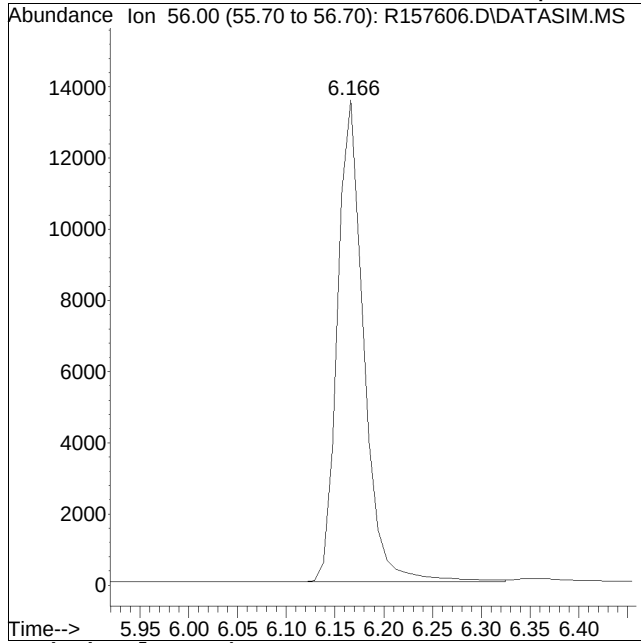


Manual Peak Response = 235078 M6

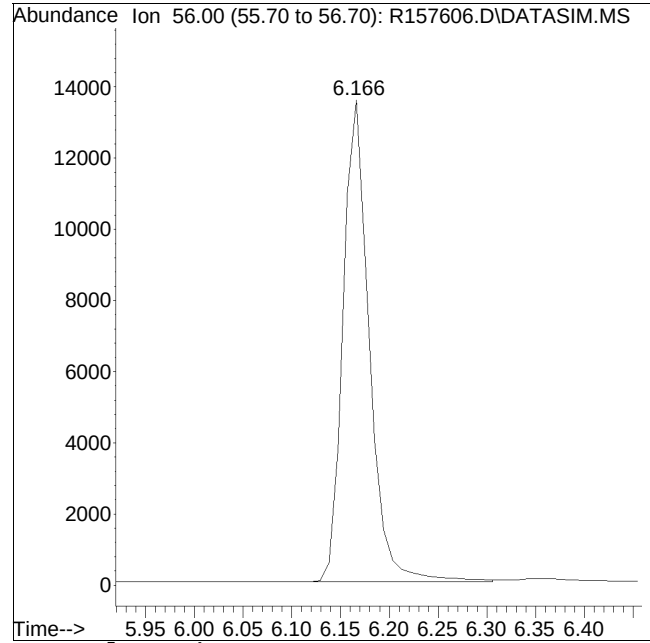
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157606.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:13 am Instrument : Air Piano 1
Sample : IT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #12: acrolein



Original Peak Response = 25456



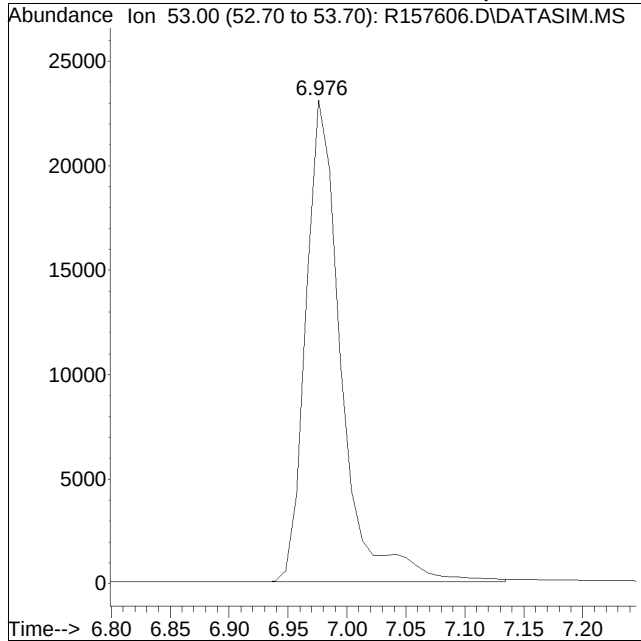
Manual Peak Response = 25377 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

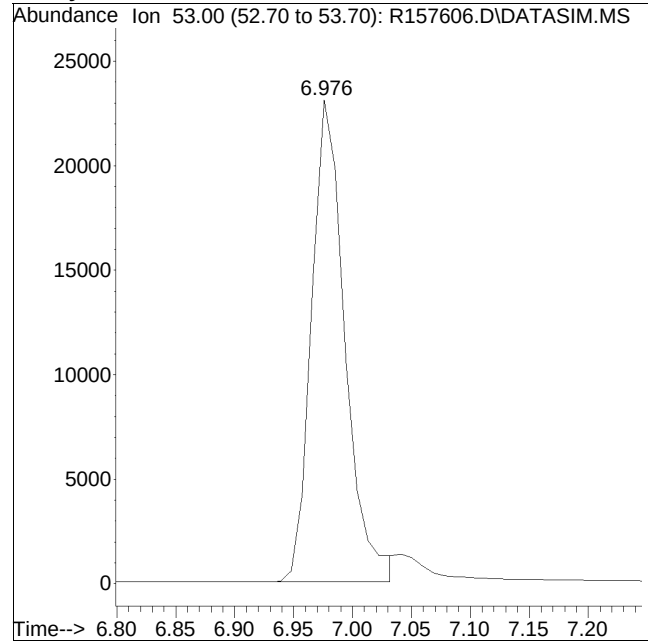
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157606.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:13 am Instrument : Air Piano 1
Sample : IT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #16: acrylonitrile



Original Peak Response = 48356

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

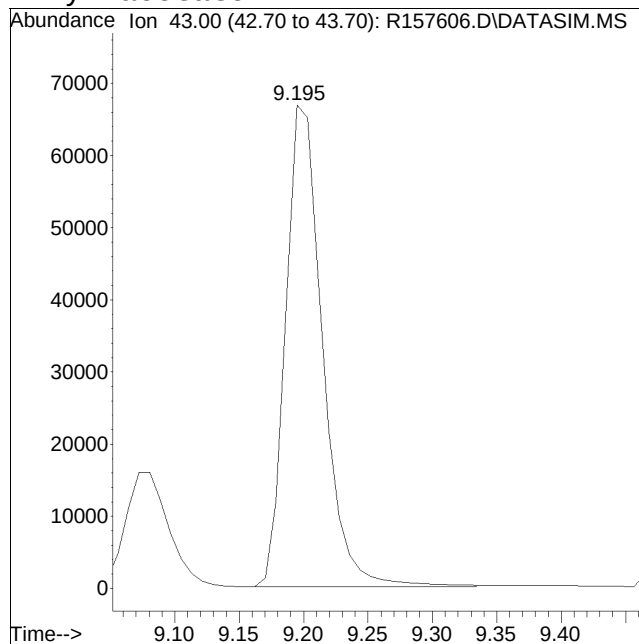
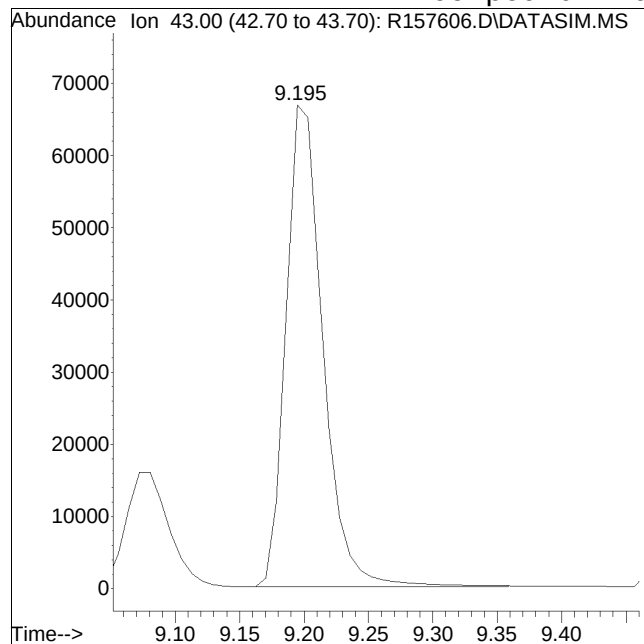


Manual Peak Response = 45563 M6

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157606.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:13 am Instrument : Air Piano 1
Sample : IT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #26: vinyl acetate

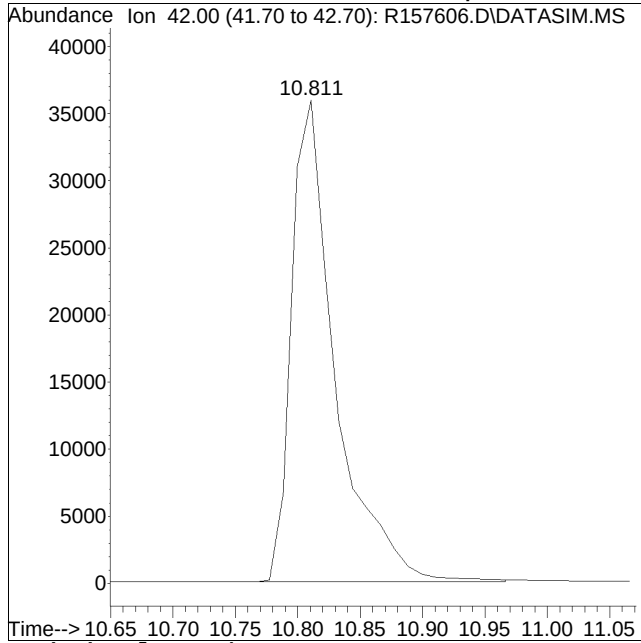


M4 = Poor automated baseline construction.

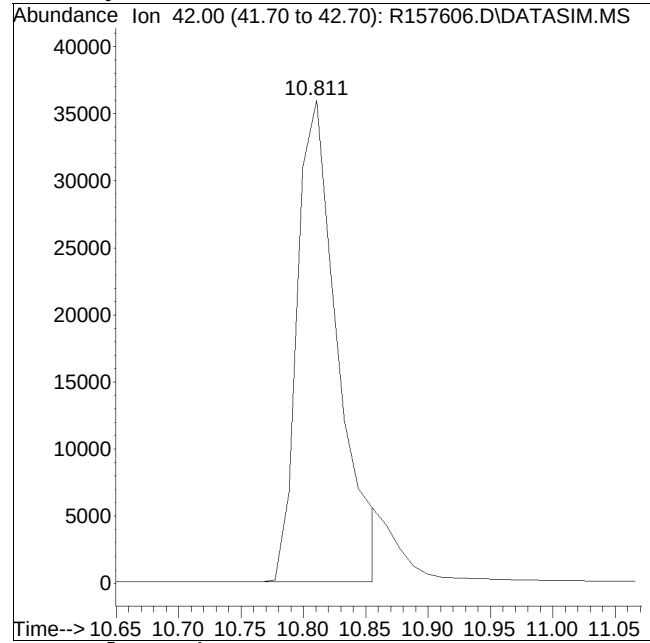
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157606.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:13 am Instrument : Air Piano 1
Sample : IT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 87487



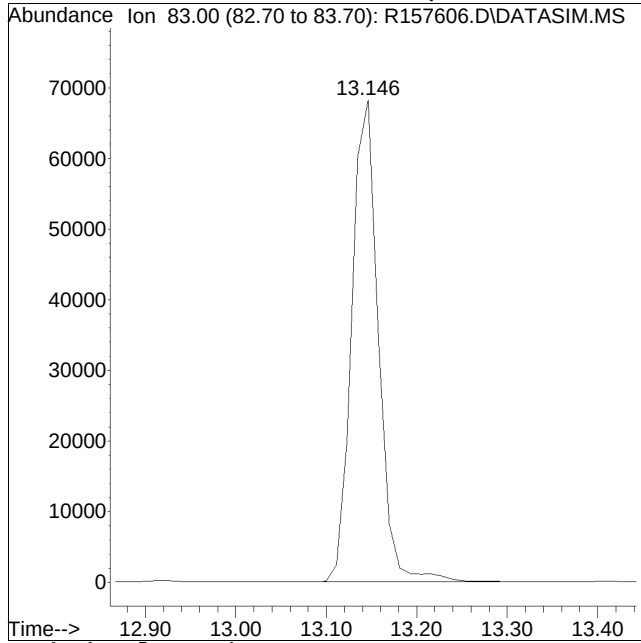
Manual Peak Response = 80851 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

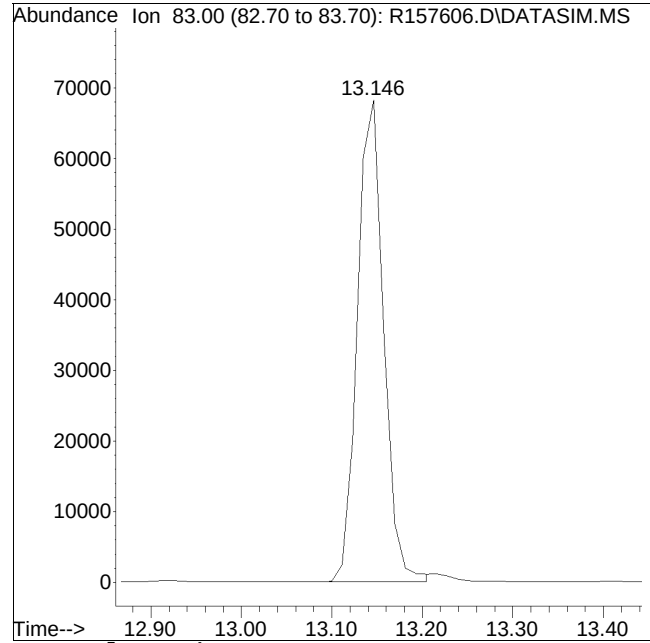
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157606.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:13 am Instrument : Air Piano 1
Sample : IT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #42: bromodichloromethane



Original Peak Response = 139936

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

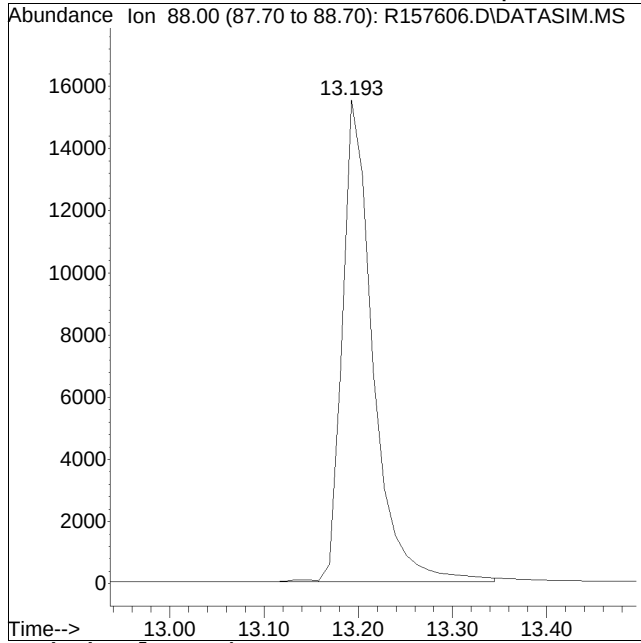


Manual Peak Response = 137808 M6

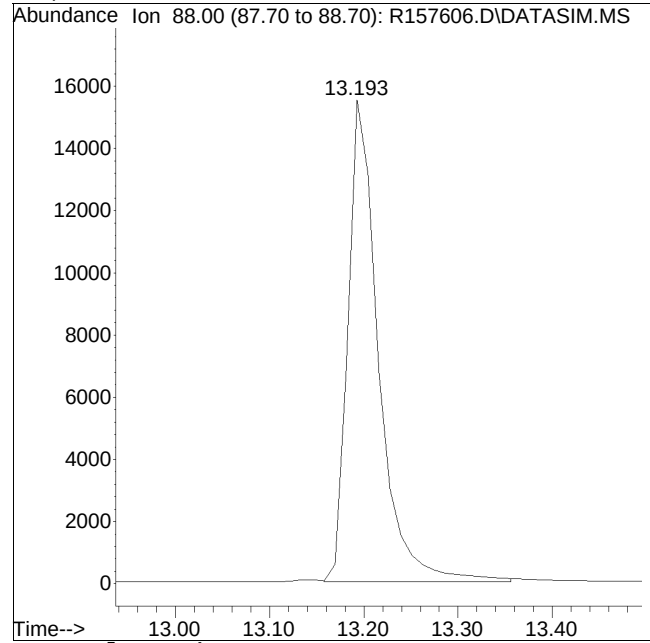
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157606.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:13 am Instrument : Air Piano 1
Sample : IT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #43: 1,4-dioxane



Original Peak Response = 35190



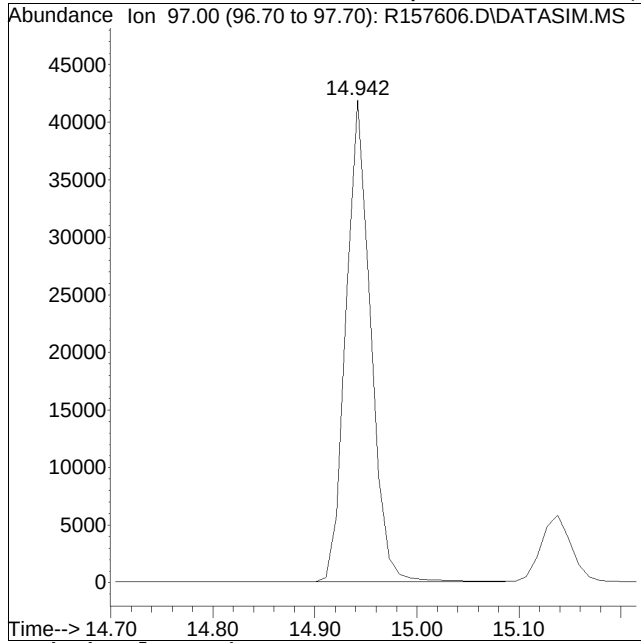
Manual Peak Response = 35100 M4

M4 = Poor automated baseline construction.

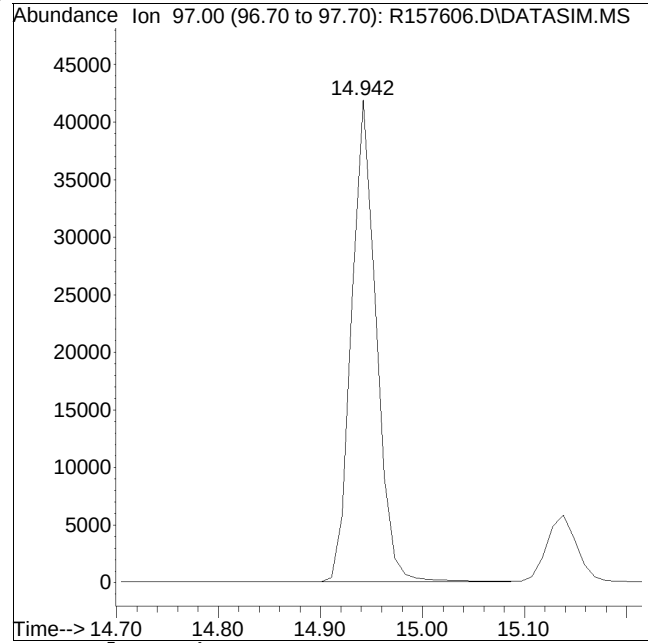
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157606.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:13 am Instrument : Air Piano 1
Sample : IT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #50: 1,1,2-trichloroethane



Original Peak Response = 70387



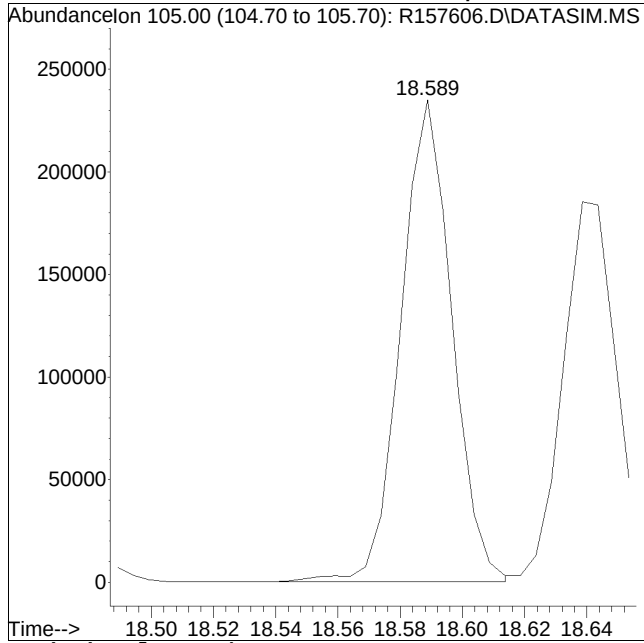
Manual Peak Response = 70392 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

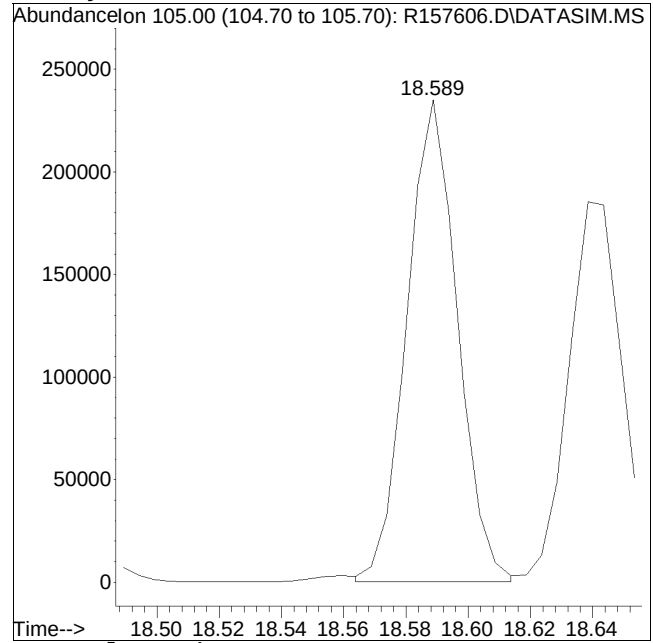
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157606.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:13 am Instrument : Air Piano 1
Sample : IT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 268396

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

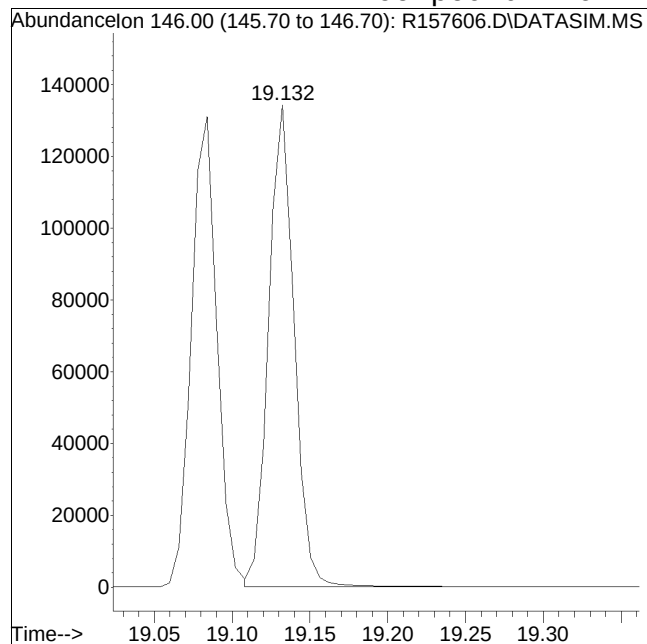


Manual Peak Response = 265325 M6

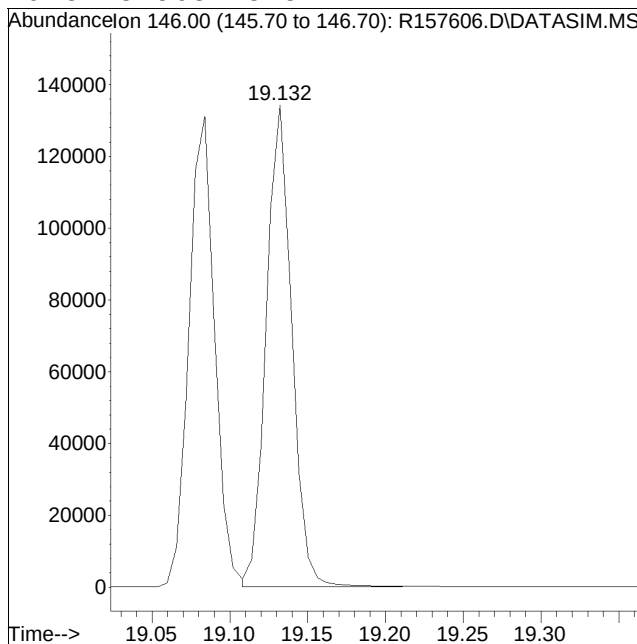
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157606.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:13 am Instrument : Air Piano 1
Sample : IT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 153017



Manual Peak Response = 153047 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 : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157607.D
 Acq On : 27 Feb 2018 1:47 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD10.0
 Misc : WG1092763
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 12:45:44 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	209996	10.000	ppbV	0.00
Standard Area = 218948			Recovery =	95.91%		
33) 1,4-difluorobenzene	12.401	114	283319	10.000	ppbV	0.00
Standard Area = 315293			Recovery =	89.86%		
51) chlorobenzene-D5	16.822	54	82686	10.000	ppbV	0.00
Standard Area = 85423			Recovery =	96.80%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.066	65	112314	10.221	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.21%		
53) toluene-D8	15.128	98	259856	9.852	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.52%		
67) bromofluorobenzene	18.012	95	148461	10.004	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.04%		
Target Compounds						
					Qvalue	
2) propylene	4.051	41	104910M6	9.535	ppbV	
3) dichlorodifluoromethane	4.152	85	224900	9.542	ppbV	100
4) chloromethane	4.364	50	118913	9.806	ppbV	100
5) Freon-114	4.520	85	293663	9.750	ppbV	99
6) vinyl chloride	4.677	62	121652	9.776	ppbV	100
7) 1,3-butadiene	4.867	54	84240	9.908	ppbV	94
8) bromomethane	5.254	94	99133	9.462	ppbV	100
9) chloroethane	5.505	64	53991	9.214	ppbV	96
10) ethanol	5.691	31	466704M6	48.231	ppbV	
11) vinyl bromide	5.989	106	91220	9.680	ppbV	99
12) acrolein	6.166	56	47929	9.092	ppbV	98
13) acetone	6.343	43	746550	47.114	ppbV	100
14) trichlorofluoromethane	6.566	101	257313	9.718	ppbV	100
15) isopropyl alcohol	6.697	45	440748	20.398	ppbV	99
16) acrylonitrile	6.976	53	87459M6	9.720	ppbV	
17) 1,1-dichloroethene	7.404	61	202025	9.927	ppbV	97
18) tertiary butyl alcohol	7.488	59	231899	9.772	ppbV	97
19) methylene chloride	7.572	49	165141	10.133	ppbV	94
20) 3-chloropropene	7.721	41	172552	10.244	ppbV	97
21) carbon disulfide	7.897	76	321637	9.753	ppbV	100
22) Freon 113	7.916	101	200222	9.666	ppbV	98
23) trans-1,2-dichloroethene	8.745	61	185710	9.876	ppbV	97
24) 1,1-dichloroethane	8.991	63	229648	9.773	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157607.D
 Acq On : 27 Feb 2018 1:47 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD10.0
 Misc : WG1092763
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 12:45:44 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.081	73	273700	9.841	ppbV	100
26) vinyl acetate	9.195	43	278664M4	10.378	ppbV	
27) 2-butanone	9.489	43	291530	10.289	ppbV	99
28) cis-1,2-dichloroethene	9.988	61	200804	9.839	ppbV	96
29) Ethyl Acetate	10.277	61	48689M6	10.439	ppbV	
30) chloroform	10.341	83	283064	9.837	ppbV	98
31) Tetrahydrofuran	10.800	42	165184M6	10.549	ppbV	
32) 1,2-dichloroethane	11.188	62	174928	9.880	ppbV	99
34) hexane	10.234	57	224675	10.077	ppbV	99
36) 1,1,1-trichloroethane	11.466	97	213771	10.065	ppbV	97
37) benzene	11.994	78	326155	10.095	ppbV	98
38) carbon tetrachloride	12.157	117	207337	10.264	ppbV	99
39) cyclohexane	12.297	56	187210	10.369	ppbV	97
40) dibromomethane	12.890	93	130919	9.226	ppbV	96
41) 1,2-dichloropropane	12.914	63	146822	10.098	ppbV	98
42) bromodichloromethane	13.146	83	257059M6	10.376	ppbV	
43) 1,4-dioxane	13.193	88	65782M6	10.521	ppbV	
44) trichloroethene	13.193	130	117735	10.124	ppbV	99
45) 2,2,4-trimethylpentane	13.216	57	601365	10.303	ppbV	97
46) heptane	13.507	43	260460	10.581	ppbV	98
47) cis-1,3-dichloropropene	14.170	75	779992	11.012	ppbV	98
48) 4-methyl-2-pentanone	14.187	43	362134	11.992	ppbV	98
49) trans-1,3-dichloropropene	14.756	75	183568	10.900	ppbV	97
50) 1,1,2-trichloroethane	14.942	97	128736	10.363	ppbV	96
52) toluene	15.221	91	366964	9.942	ppbV	100
54) 2-hexanone	15.468	43	346349	11.523	ppbV	99
55) dibromochloromethane	15.644	129	216866	10.391	ppbV	99
56) 1,2-dibromoethane	15.871	107	210052	10.311	ppbV	99
57) tetrachloroethene	16.283	166	139775	9.837	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.842	131	141390	10.131	ppbV	99
59) chlorobenzene	16.857	112	278453	10.091	ppbV	100
60) ethylbenzene	17.156	91	487296	10.241	ppbV	100
61) m+p-xylene	17.300	91	772702	20.967	ppbV	100
62) bromoform	17.375	173	199540	10.509	ppbV	99
63) styrene	17.579	104	272880	11.066	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.663	83	351524	10.523	ppbV	99
65) o-xylene	17.663	91	400234	10.340	ppbV	99
66) 1,2,3-trichloropropane	17.763	75	265704	10.493	ppbV	98
68) isopropylbenzene	18.101	105	466207	10.426	ppbV	99
69) bromobenzene	18.186	77	300650	10.477	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157607.D
 Acq On : 27 Feb 2018 1:47 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD10.0
 Misc : WG1092763
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 12:45:44 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

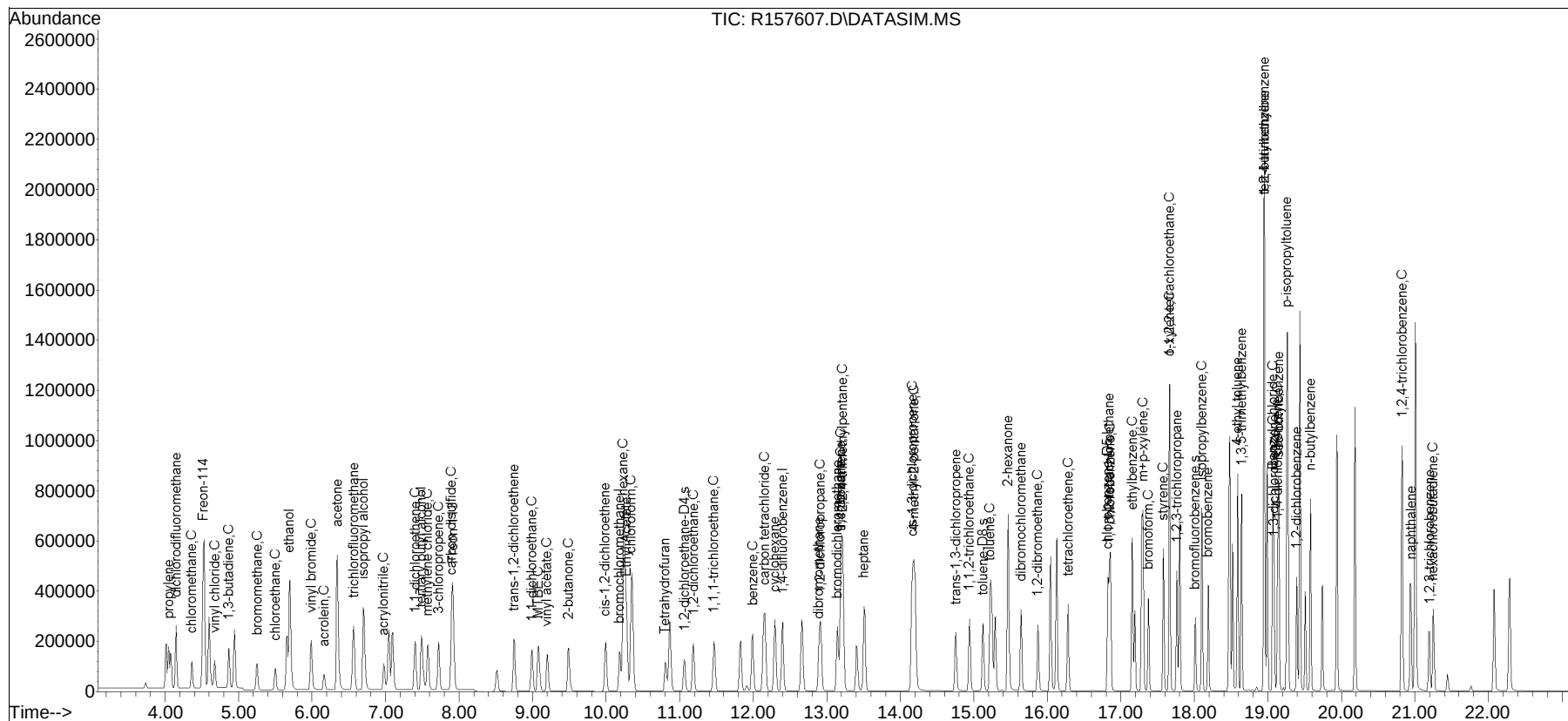
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.589	105	509476M6	11.089	ppbV	
71) 1,3,5-trimethylbenzene	18.644	105	429595M4	10.781	ppbV	
72) tert-butylbenzene	18.951	119	418858	11.094	ppbV	98
73) 1,2,4-trimethylbenzene	18.951	105	447551	11.488	ppbV	98
74) Benzyl Chloride	19.066	91	409739	11.365	ppbV	100
75) 1,3-dichlorobenzene	19.084	146	289466	11.209	ppbV	97
76) 1,4-dichlorobenzene	19.132	146	295732M4	11.128	ppbV	
77) sec-butylbenzene	19.150	105	624511	11.192	ppbV	95
78) p-isopropyltoluene	19.259	119	506733	11.366	ppbV	100
79) 1,2-dichlorobenzene	19.392	146	275201	11.242	ppbV	99
80) n-butylbenzene	19.579	91	584918	12.062	ppbV	100
81) 1,2,4-trichlorobenzene	20.828	180	252565	14.166	ppbV	99
82) naphthalene	20.948	128	594896	12.895	ppbV #	93
83) 1,2,3-trichlorobenzene	21.200	180	242558	14.767	ppbV	100
84) hexachlorobutadiene	21.248	225	207259	13.469	ppbV	99

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

Sub List : Default - All compounds listed0226SIM_ICAL\R157606.D

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
Data File : R157607.D
Acq On : 27 Feb 2018 1:47 am
Operator : AIRPIAN01:MB
Sample : IT015-SIMSTD10.0
Misc : WG1092763
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 12:45:44 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



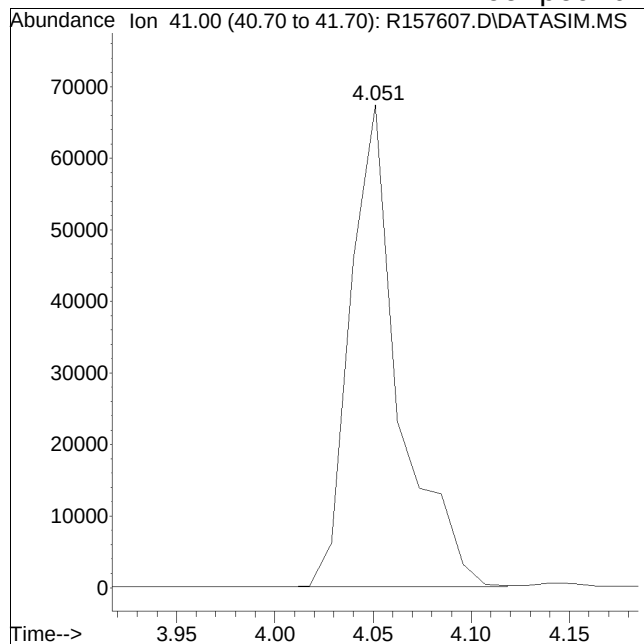
TSIM180226.M Tue Feb 27 12:54:43 2018

Page: 4

Manual Integration/Negative Proof Report

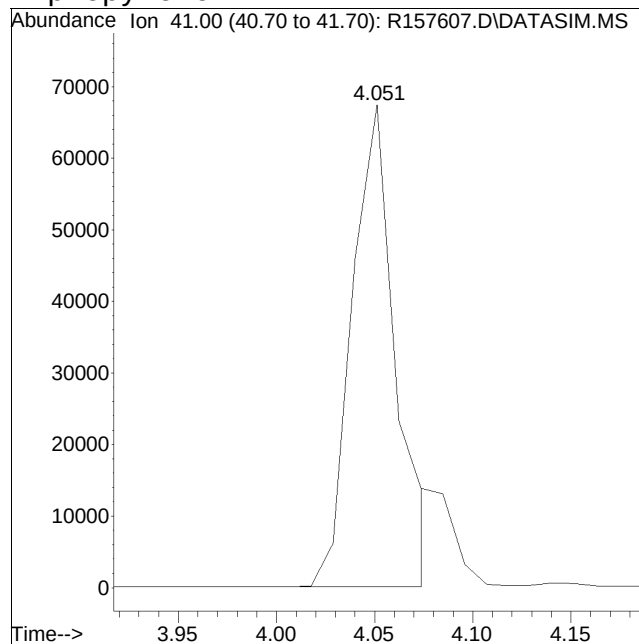
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157607.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:47 am Instrument : Air Piano 1
Sample : IT015-SIMSTD10.0 Quant Date : 2/27/2018 12:45 pm

Compound #2: propylene



Original Peak Response = 116114

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



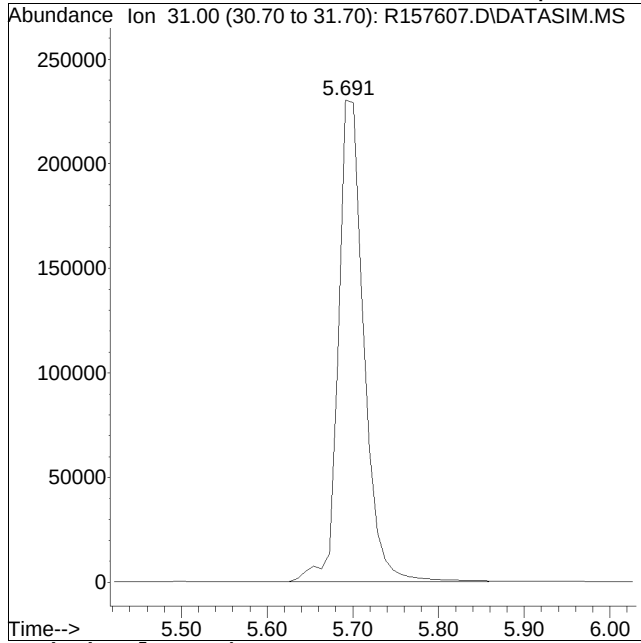
Manual Peak Response = 104910 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

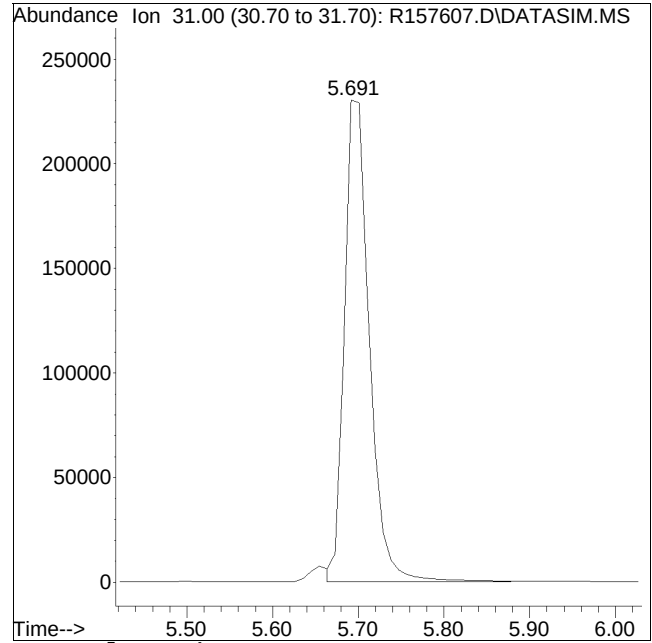
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157607.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:47 am Instrument : Air Piano 1
Sample : IT015-SIMSTD10.0 Quant Date : 2/27/2018 12:45 pm

Compound #10: ethanol



Original Peak Response = 478451

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

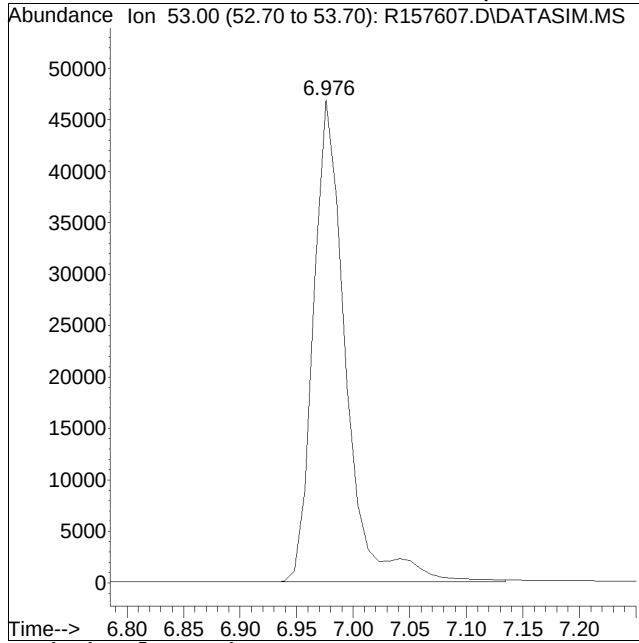


Manual Peak Response = 466704 M6

Manual Integration/Negative Proof Report

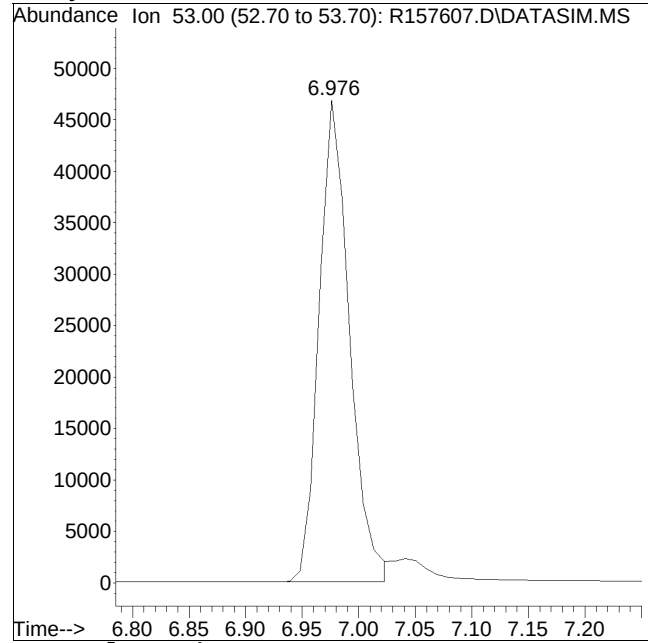
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157607.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:47 am Instrument : Air Piano 1
Sample : IT015-SIMSTD10.0 Quant Date : 2/27/2018 12:45 pm

Compound #16: acrylonitrile



Original Peak Response = 93316

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

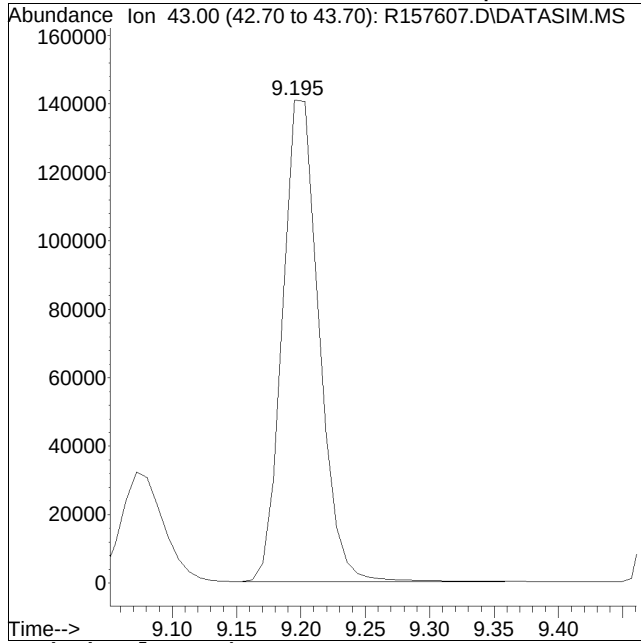


Manual Peak Response = 87459 M6

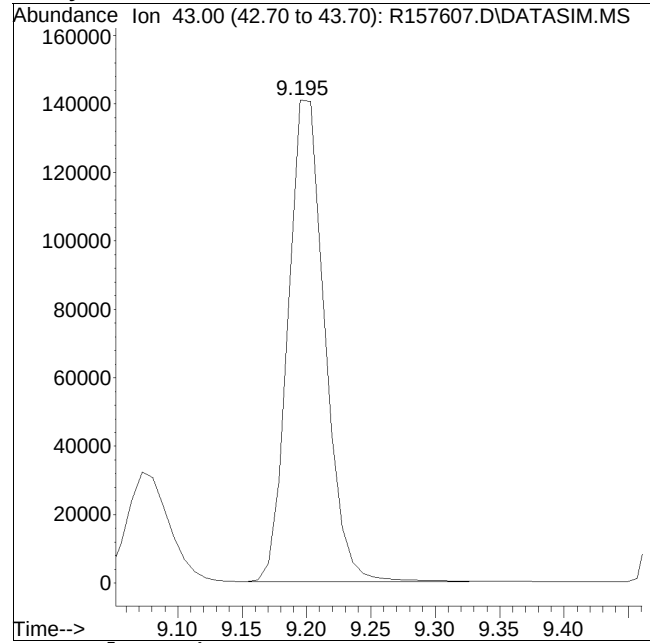
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157607.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:47 am Instrument : Air Piano 1
Sample : IT015-SIMSTD10.0 Quant Date : 2/27/2018 12:45 pm

Compound #26: vinyl acetate



Original Peak Response = 278259



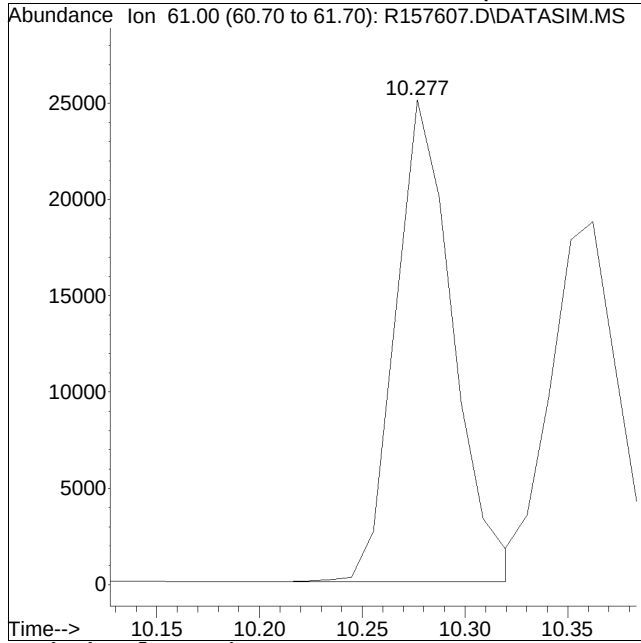
Manual Peak Response = 278664 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

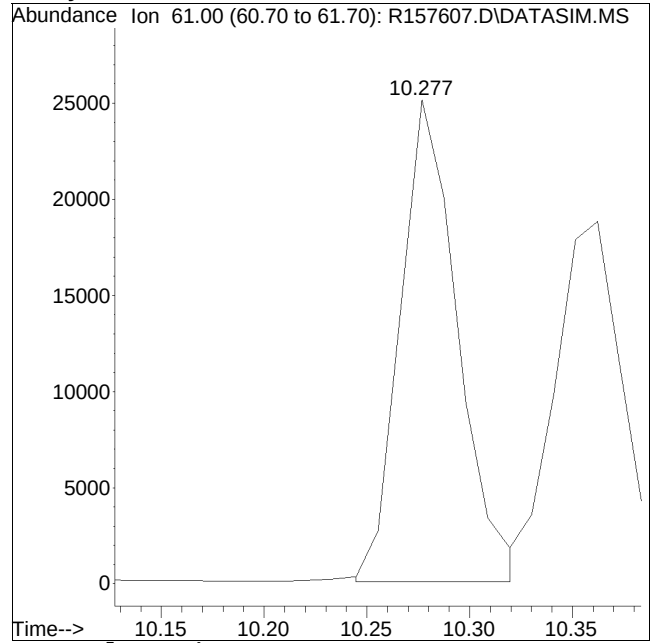
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157607.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:47 am Instrument : Air Piano 1
Sample : IT015-SIMSTD10.0 Quant Date : 2/27/2018 12:45 pm

Compound #29: Ethyl Acetate



Original Peak Response = 48790

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

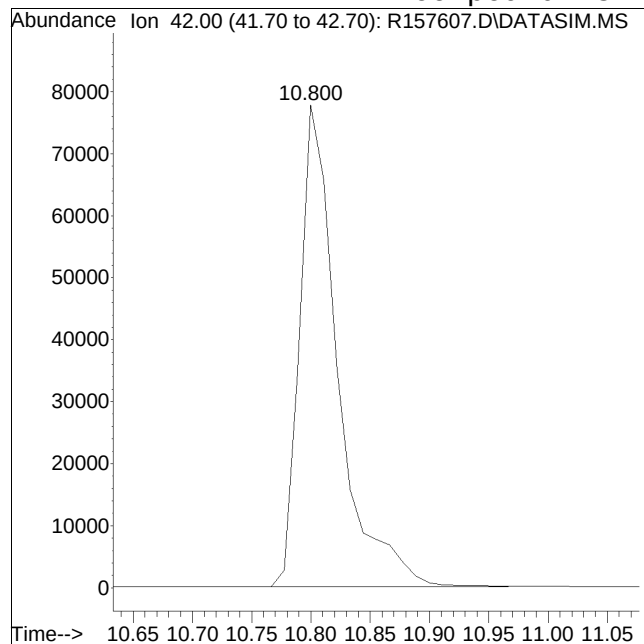


Manual Peak Response = 48689 M6

Manual Integration/Negative Proof Report

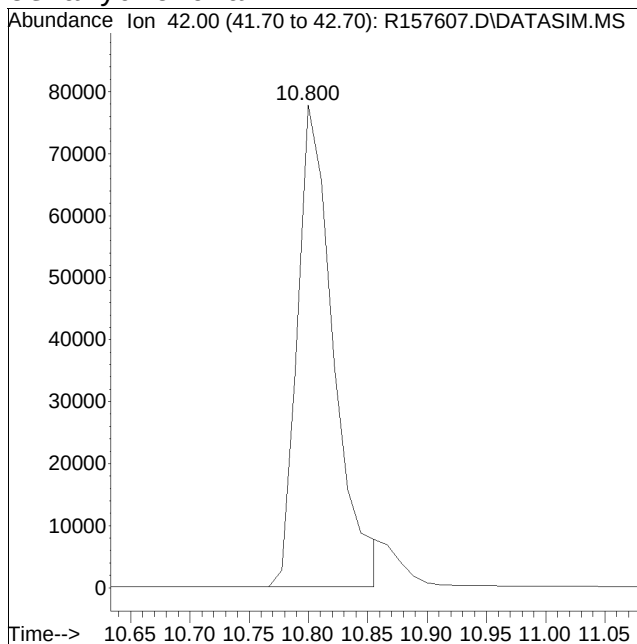
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
 Data File : R157607.D Operator : AIRPIAN01:MB
 Date Inj'd : 2/27/2018 1:47 am Instrument : Air Piano 1
 Sample : IT015-SIMSTD10.0 Quant Date : 2/27/2018 12:45 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 174890

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

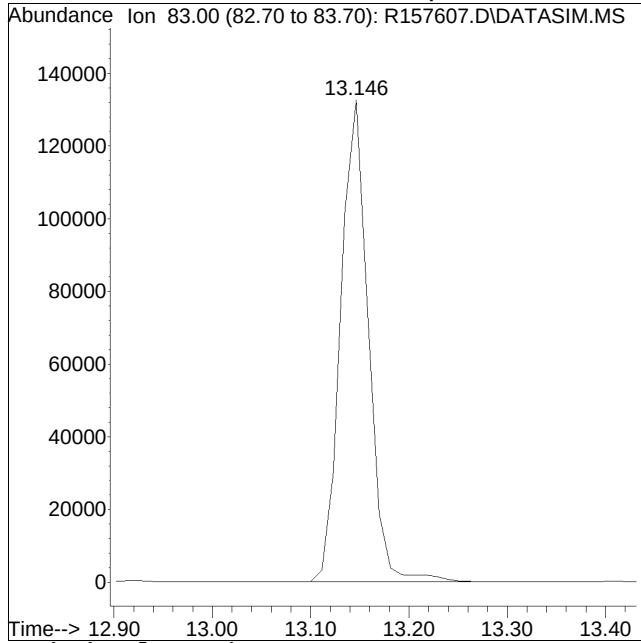


Manual Peak Response = 165184 M6

Manual Integration/Negative Proof Report

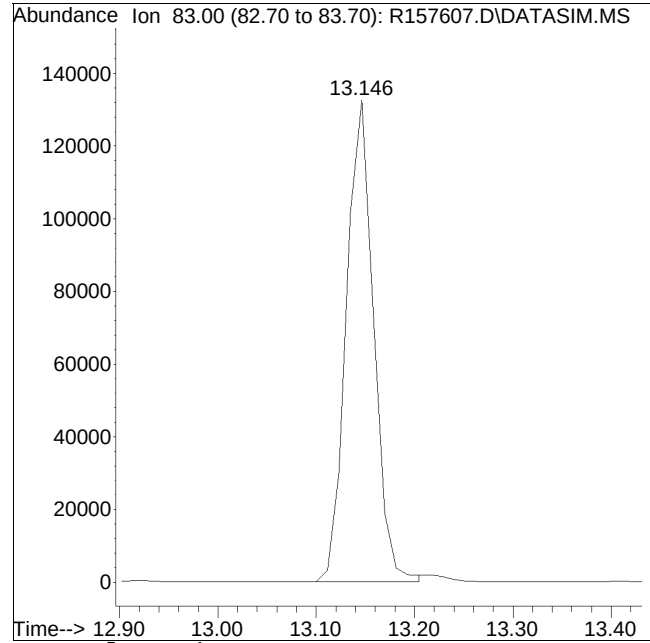
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157607.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:47 am Instrument : Air Piano 1
Sample : IT015-SIMSTD10.0 Quant Date : 2/27/2018 12:45 pm

Compound #42: bromodichloromethane



Original Peak Response = 260520

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

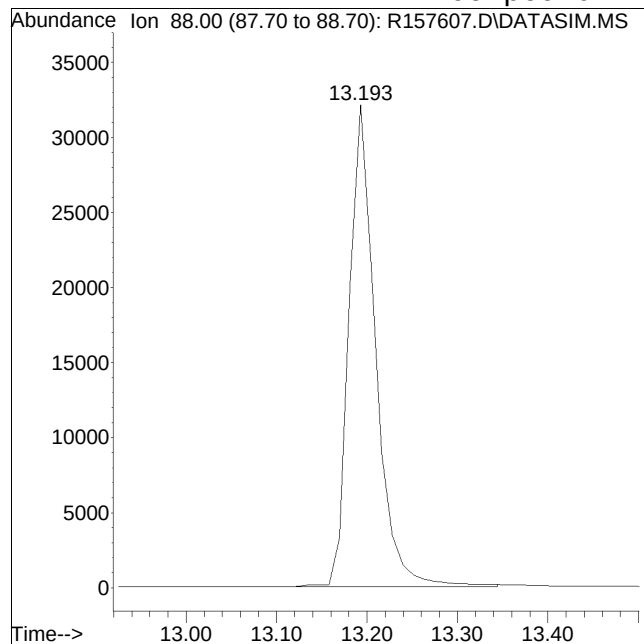


Manual Peak Response = 257059 M6

Manual Integration/Negative Proof Report

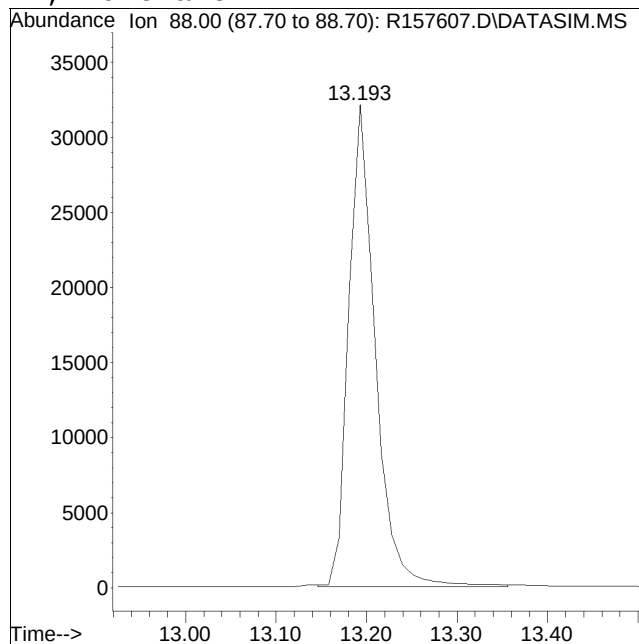
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157607.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:47 am Instrument : Air Piano 1
Sample : IT015-SIMSTD10.0 Quant Date : 2/27/2018 12:45 pm

Compound #43: 1,4-dioxane



Original Peak Response = 65965

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

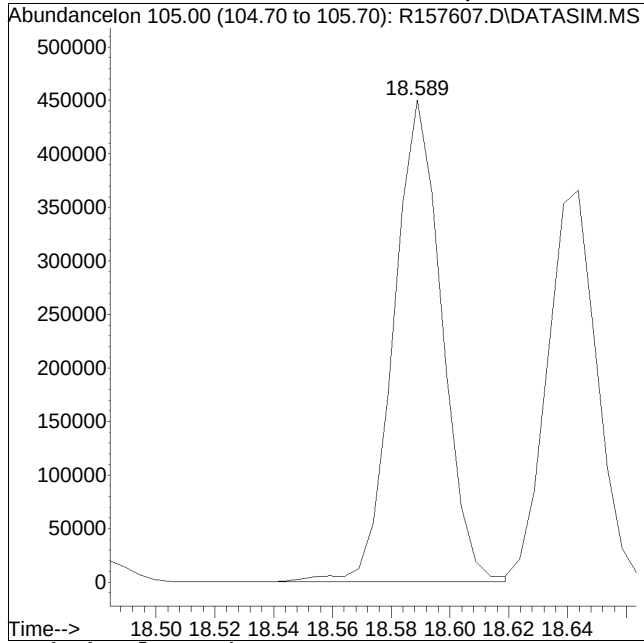


Manual Peak Response = 65782 M6

Manual Integration/Negative Proof Report

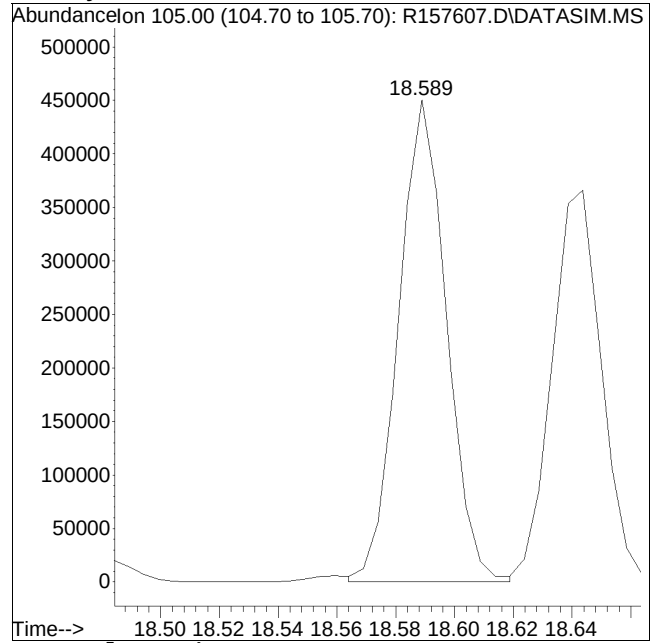
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157607.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:47 am Instrument : Air Piano 1
Sample : IT015-SIMSTD10.0 Quant Date : 2/27/2018 12:45 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 515143

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

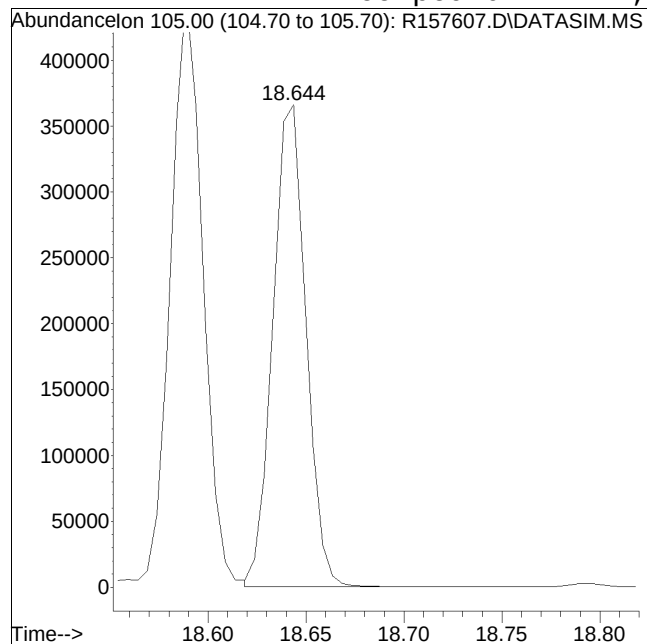


Manual Peak Response = 509476 M6

Manual Integration/Negative Proof Report

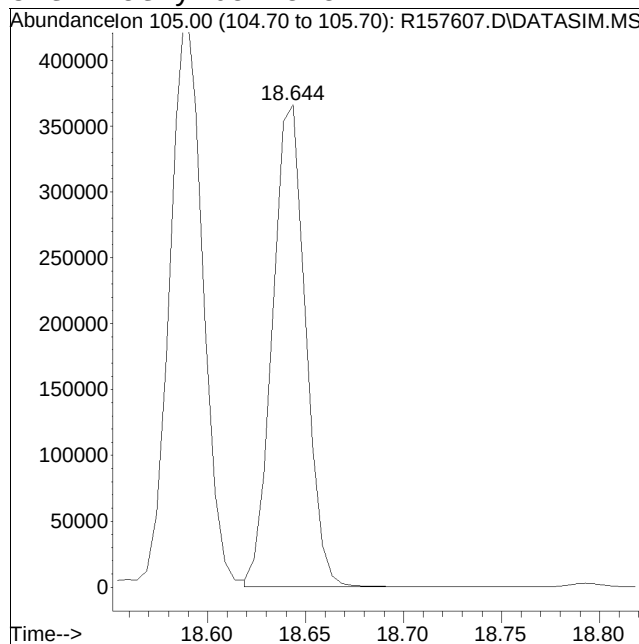
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157607.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:47 am Instrument : Air Piano 1
Sample : IT015-SIMSTD10.0 Quant Date : 2/27/2018 12:45 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 429139

M4 = Poor automated baseline construction.

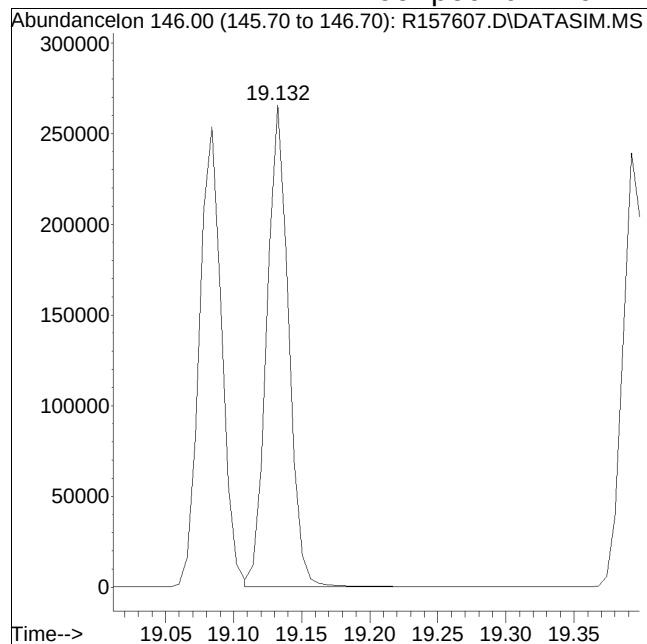


Manual Peak Response = 429595 M4

Manual Integration/Negative Proof Report

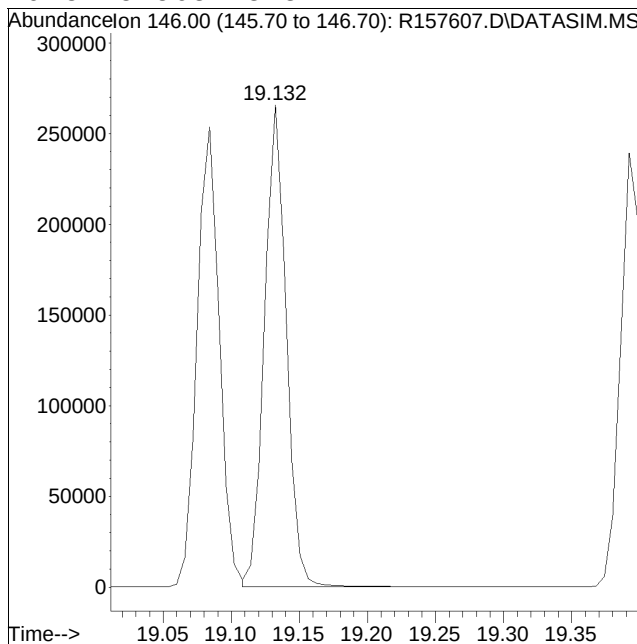
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157607.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 1:47 am Instrument : Air Piano 1
Sample : IT015-SIMSTD10.0 Quant Date : 2/27/2018 12:45 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 295544

M4 = Poor automated baseline construction.



Manual Peak Response = 295732 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157608.D
 Acq On : 27 Feb 2018 2:18 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD20.0
 Misc : WG1092763
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 27 12:45:49 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	221561	10.000	ppbV	0.00
Standard Area = 218948			Recovery =	101.19%		
33) 1,4-difluorobenzene	12.401	114	313930	10.000	ppbV	0.00
Standard Area = 315293			Recovery =	99.57%		
51) chlorobenzene-D5	16.822	54	85398	10.000	ppbV	0.00
Standard Area = 85423			Recovery =	99.97%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.066	65	119386	9.806	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.06%		
53) toluene-D8	15.128	98	284438	10.442	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.42%		
67) bromofluorobenzene	18.012	95	163372	10.659	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.59%		
Target Compounds						
					Qvalue	
2) propylene	4.051	41	204784M6	17.641	ppbV	
3) dichlorodifluoromethane	4.152	85	564941	22.719	ppbV	99
4) chloromethane	4.364	50	235440	18.402	ppbV	100
5) Freon-114	4.520	85	610179	19.201	ppbV	98
6) vinyl chloride	4.677	62	250565	19.085	ppbV	100
7) 1,3-butadiene	4.867	54	169854M6	18.935	ppbV	
8) bromomethane	5.245	94	212923	19.262	ppbV	99
9) chloroethane	5.505	64	114594	18.535	ppbV	100
10) ethanol	5.691	31	883116M6	86.500	ppbV	
11) vinyl bromide	5.989	106	199399	20.055	ppbV	100
12) acrolein	6.157	56	101798	18.303	ppbV	99
13) acetone	6.334	43	1584106	94.754	ppbV	99
14) trichlorofluoromethane	6.566	101	557898	19.971	ppbV	100
15) isopropyl alcohol	6.697	45	948140	41.590	ppbV	99
16) acrylonitrile	6.976	53	183922	19.374	ppbV	99
17) 1,1-dichloroethene	7.404	61	420409	19.579	ppbV	100
18) tertiary butyl alcohol	7.488	59	475010	18.971	ppbV	99
19) methylene chloride	7.572	49	336196	19.552	ppbV	99
20) 3-chloropropene	7.721	41	346289	19.486	ppbV	99
21) carbon disulfide	7.897	76	699752	20.110	ppbV	94
22) Freon 113	7.916	101	445474	20.382	ppbV	99
23) trans-1,2-dichloroethene	8.745	61	397346	20.028	ppbV	97
24) 1,1-dichloroethane	8.991	63	492501	19.865	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157608.D
 Acq On : 27 Feb 2018 2:18 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD20.0
 Misc : WG1092763
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 27 12:45:49 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.072	73	580518	19.784	ppbV	100
26) vinyl acetate	9.195	43	605674M4	21.379	ppbV	
27) 2-butanone	9.481	43	597867	19.998	ppbV	100
28) cis-1,2-dichloroethene	9.988	61	425388	19.756	ppbV	100
29) Ethyl Acetate	10.277	61	106878	21.719	ppbV	84
30) chloroform	10.341	83	613215	20.198	ppbV	99
31) Tetrahydrofuran	10.800	42	331505M6	20.065	ppbV	
32) 1,2-dichloroethane	11.188	62	365705	19.576	ppbV	100
34) hexane	10.234	57	490899	19.870	ppbV	99
36) 1,1,1-trichloroethane	11.466	97	464885	19.754	ppbV	100
37) benzene	11.994	78	706365	19.732	ppbV	100
38) carbon tetrachloride	12.157	117	461921	20.638	ppbV	100
39) cyclohexane	12.297	56	401227	20.056	ppbV	99
40) dibromomethane	12.890	93	290234	18.460	ppbV	100
41) 1,2-dichloropropane	12.913	63	321561	19.960	ppbV	99
42) bromodichloromethane	13.146	83	564012M6	20.546	ppbV	
43) 1,4-dioxane	13.181	88	151259M6	21.832	ppbV	
44) trichloroethene	13.193	130	265194	20.581	ppbV	100
45) 2,2,4-trimethylpentane	13.216	57	1283127	19.839	ppbV	100
46) heptane	13.507	43	534620	19.602	ppbV	100
47) cis-1,3-dichloropropene	14.170	75	1692415	21.563	ppbV	99
48) 4-methyl-2-pentanone	14.187	43	734201	21.942	ppbV #	92
49) trans-1,3-dichloropropene	14.756	75	423680	22.704	ppbV	98
50) 1,1,2-trichloroethane	14.942	97	286380	20.806	ppbV	99
52) toluene	15.220	91	788103	20.673	ppbV	99
54) 2-hexanone	15.458	43	726807	23.414	ppbV #	96
55) dibromochloromethane	15.644	129	488982	22.686	ppbV	99
56) 1,2-dibromoethane	15.871	107	462829	21.998	ppbV	99
57) tetrachloroethene	16.283	166	324811	22.134	ppbV	100
58) 1,1,1,2-tetrachloroethane	16.842	131	317549	22.031	ppbV	99
59) chlorobenzene	16.857	112	616504	21.632	ppbV	100
60) ethylbenzene	17.156	91	1053536	21.438	ppbV	99
61) m+p-xylene	17.300	91	1659996	43.614	ppbV	99
62) bromoform	17.375	173	451930	23.045	ppbV	99
63) styrene	17.579	104	599607	23.544	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.663	83	771775	22.369	ppbV	100
65) o-xylene	17.663	91	869077	21.739	ppbV	99
66) 1,2,3-trichloropropane	17.763	75	564013	21.565	ppbV	99
68) isopropylbenzene	18.101	105	1017970	22.043	ppbV	99
69) bromobenzene	18.186	77	662679	22.359	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157608.D
 Acq On : 27 Feb 2018 2:18 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD20.0
 Misc : WG1092763
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 27 12:45:49 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

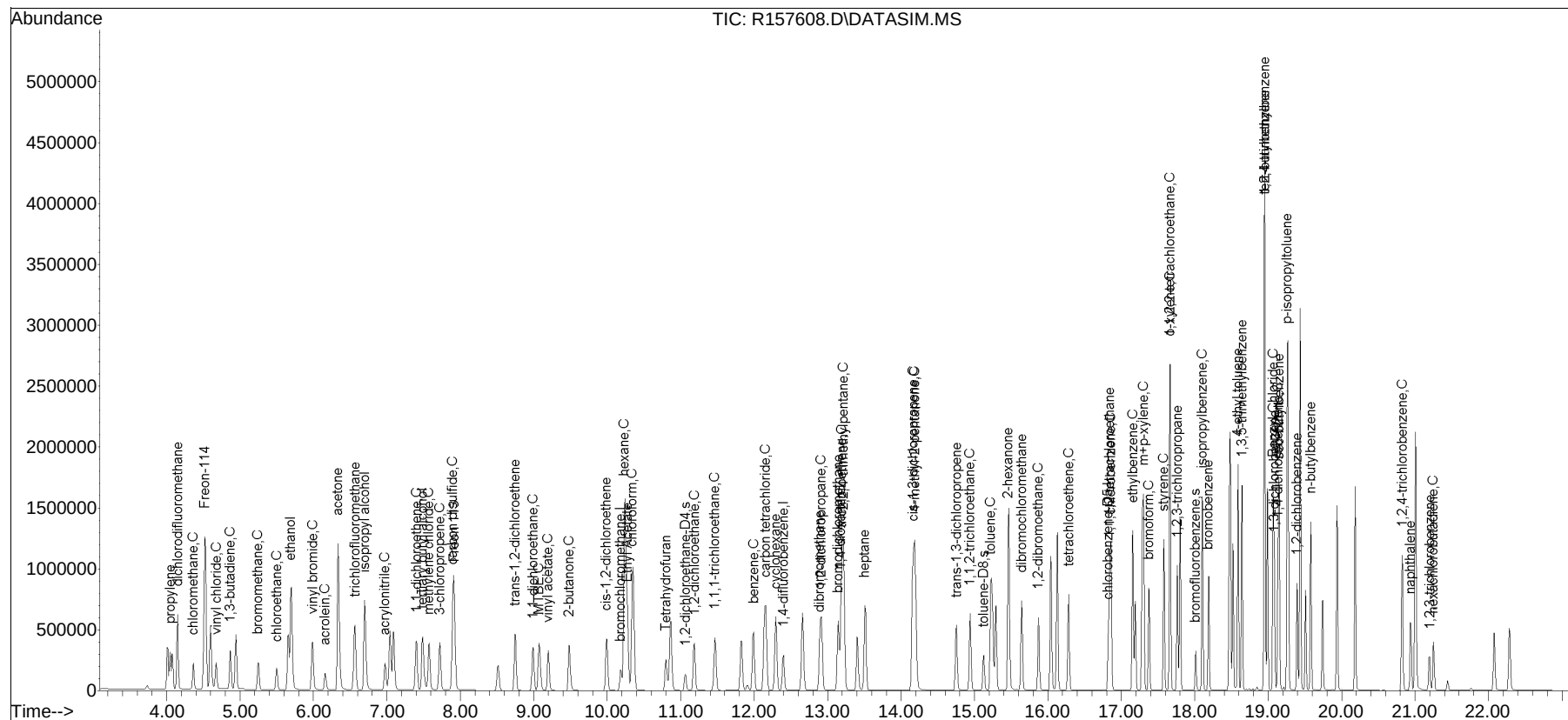
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.589	105	1069730M6	22.544	ppbV	
71) 1,3,5-trimethylbenzene	18.644	105	903179M4	21.947	ppbV	
72) tert-butylbenzene	18.951	119	859365	22.038	ppbV	96
73) 1,2,4-trimethylbenzene	18.951	105	917521	22.803	ppbV	98
74) Benzyl Chloride	19.066	91	877775	23.573	ppbV	99
75) 1,3-dichlorobenzene	19.084	146	603332	22.621	ppbV	97
76) 1,4-dichlorobenzene	19.132	146	606615M4	22.101	ppbV	
77) sec-butylbenzene	19.150	105	1258559	21.839	ppbV	93
78) p-isopropyltoluene	19.259	119	985066	21.393	ppbV	99
79) 1,2-dichlorobenzene	19.392	146	541934	21.436	ppbV	98
80) n-butylbenzene	19.579	91	1065742	21.280	ppbV	98
81) 1,2,4-trichlorobenzene	20.828	180	331424	17.999	ppbV	100
82) naphthalene	20.936	128	732418	15.371	ppbV	100
83) 1,2,3-trichlorobenzene	21.200	180	281619	16.601	ppbV	100
84) hexachlorobutadiene	21.248	225	252453	15.885	ppbV	99

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

Sub List : Default - All compounds listed0226SIM_ICAL\R157606.D

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
Data File : R157608.D
Acq On : 27 Feb 2018 2:18 am
Operator : AIRPIAN01:MB
Sample : IT015-SIMSTD20.0
Misc : WG1092763
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 27 12:45:49 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



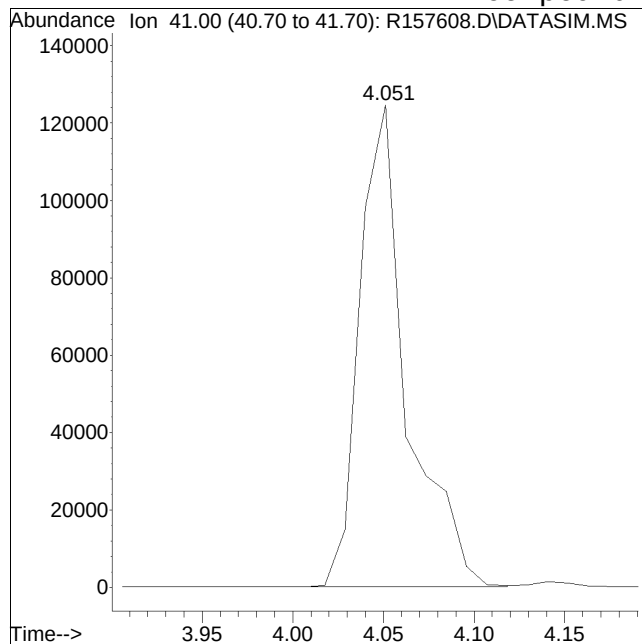
TSIM180226.M Tue Feb 27 12:54:47 2018

Page: 4

Manual Integration/Negative Proof Report

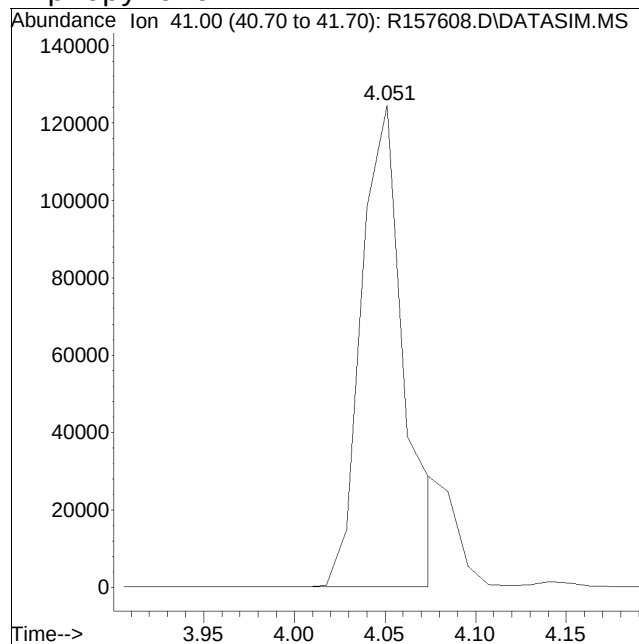
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157608.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:18 am Instrument : Air Piano 1
Sample : IT015-SIMSTD20.0 Quant Date : 2/27/2018 12:45 pm

Compound #2: propylene



Original Peak Response = 225518

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

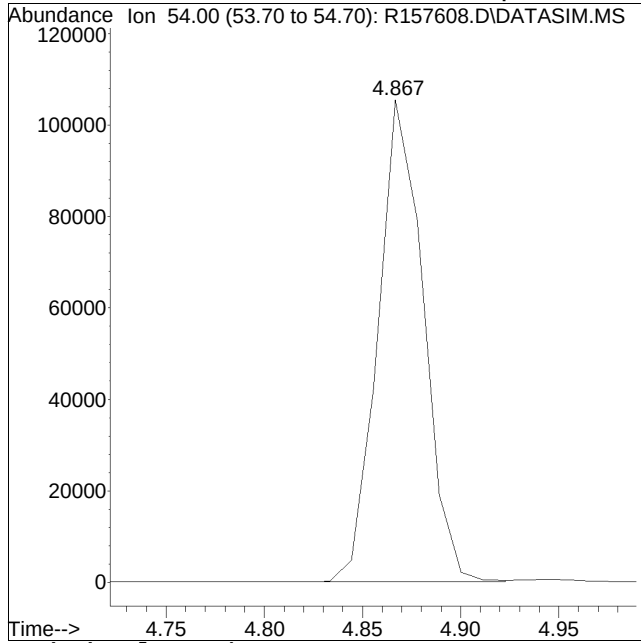


Manual Peak Response = 204784 M6

Manual Integration/Negative Proof Report

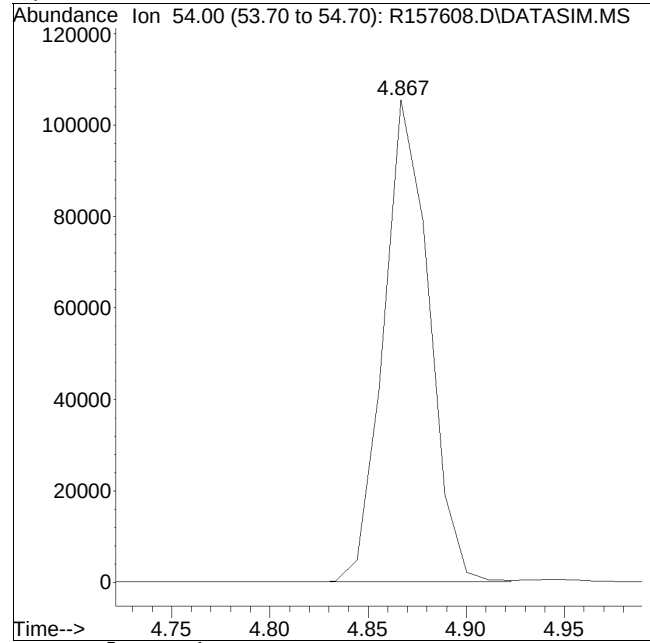
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157608.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:18 am Instrument : Air Piano 1
Sample : IT015-SIMSTD20.0 Quant Date : 2/27/2018 12:45 pm

Compound #7: 1,3-butadiene



Original Peak Response = 169926

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

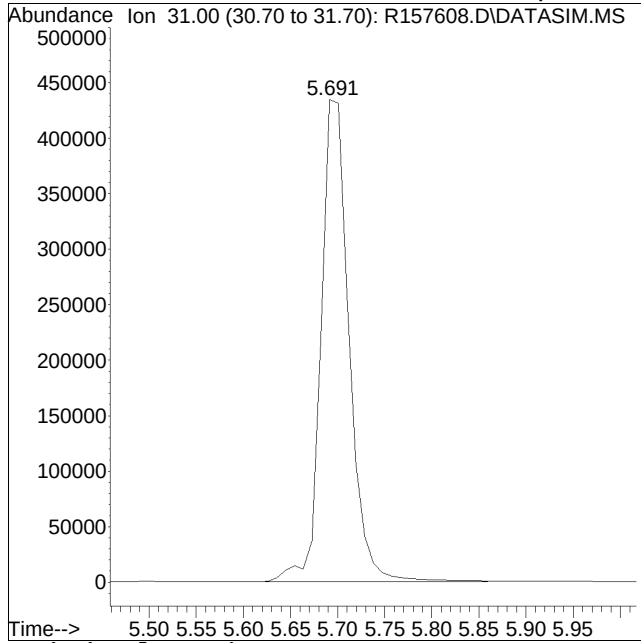


Manual Peak Response = 169854 M6

Manual Integration/Negative Proof Report

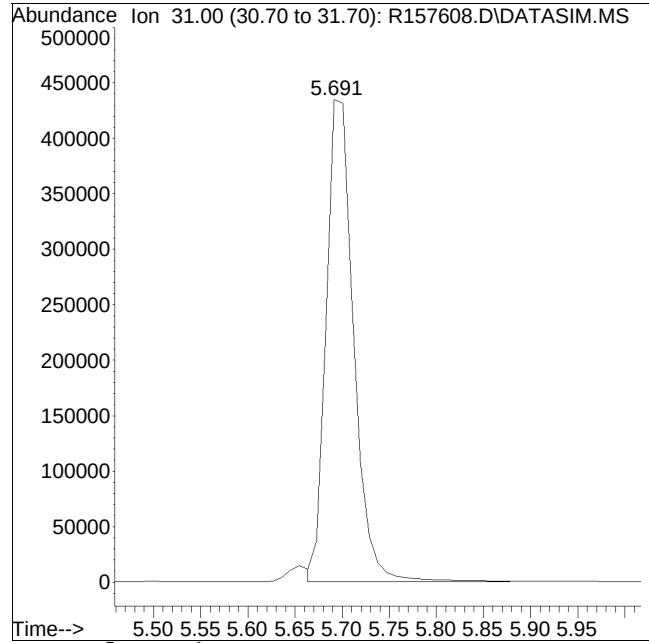
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157608.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:18 am Instrument : Air Piano 1
Sample : IT015-SIMSTD20.0 Quant Date : 2/27/2018 12:45 pm

Compound #10: ethanol



Original Peak Response = 905320

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

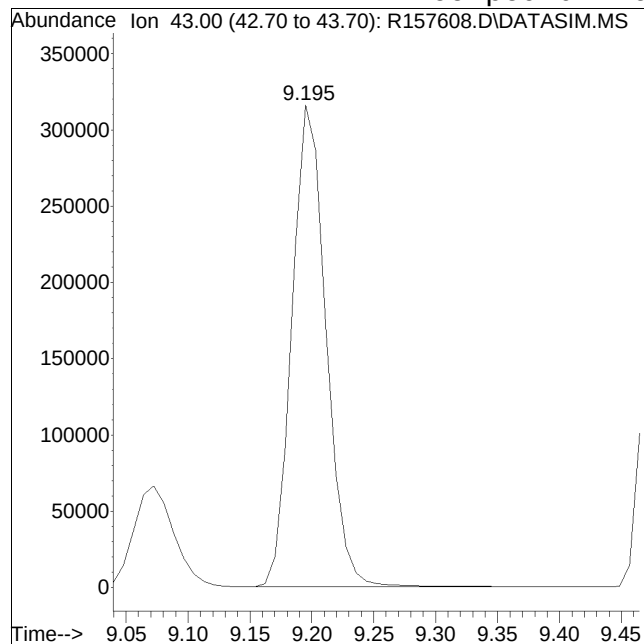


Manual Peak Response = 883116 M6

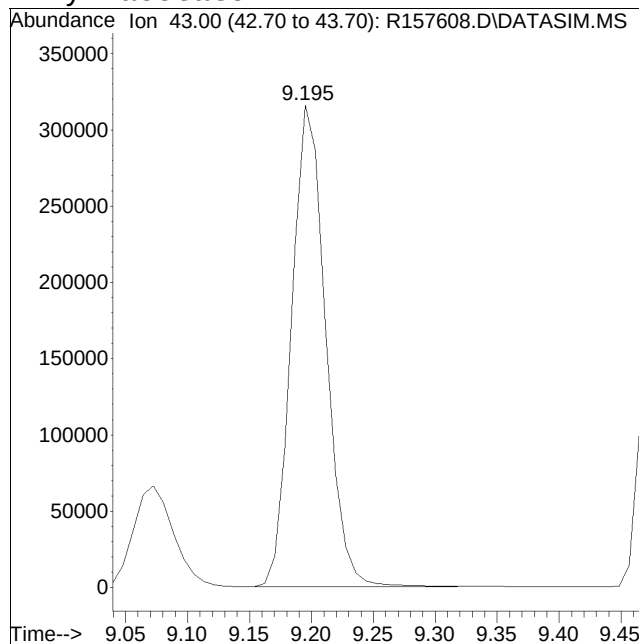
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157608.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:18 am Instrument : Air Piano 1
Sample : IT015-SIMSTD20.0 Quant Date : 2/27/2018 12:45 pm

Compound #26: vinyl acetate



Original Peak Response = 605045



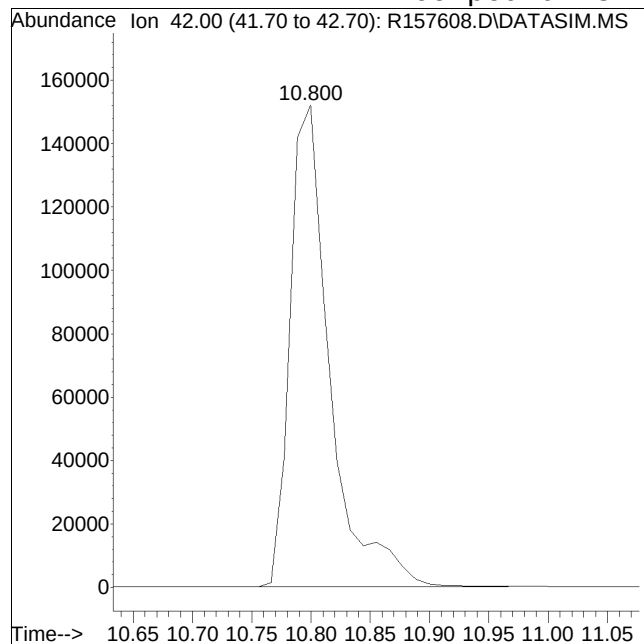
Manual Peak Response = 605674 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

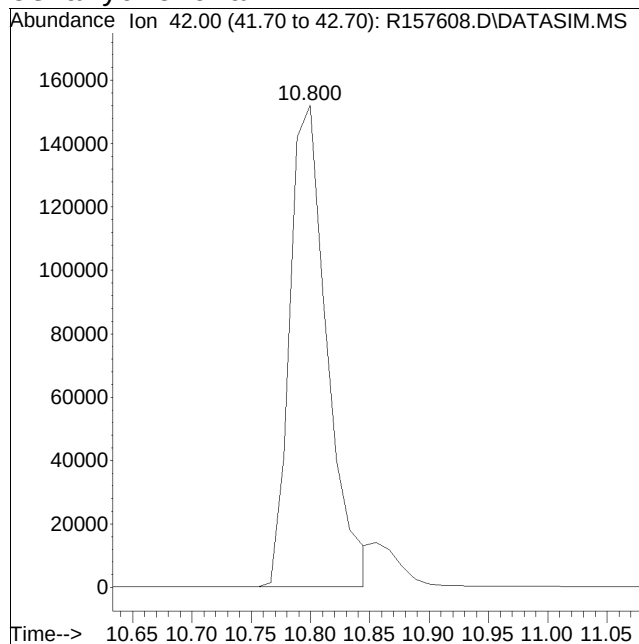
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
 Data File : R157608.D Operator : AIRPIAN01:MB
 Date Inj'd : 2/27/2018 2:18 am Instrument : Air Piano 1
 Sample : IT015-SIMSTD20.0 Quant Date : 2/27/2018 12:45 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 356656

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

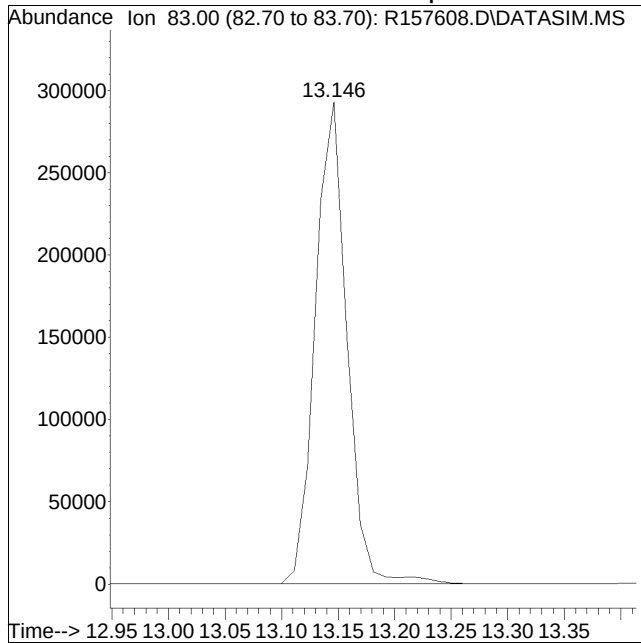


Manual Peak Response = 331505 M6

Manual Integration/Negative Proof Report

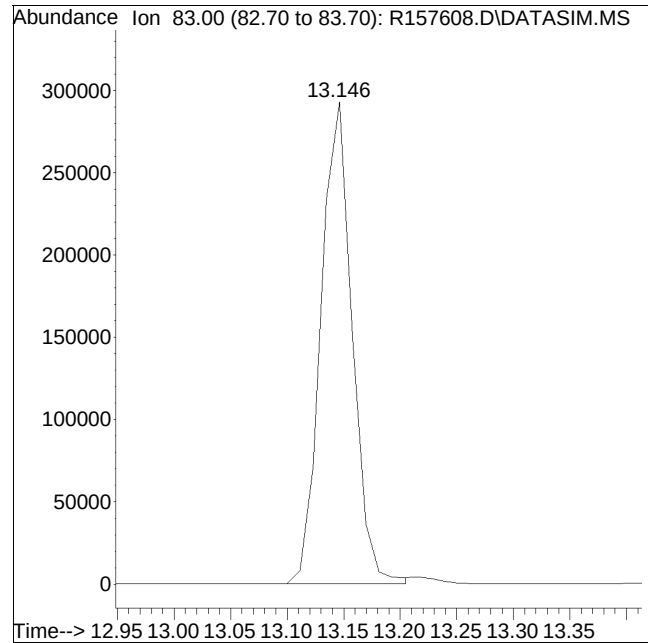
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157608.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:18 am Instrument : Air Piano 1
Sample : IT015-SIMSTD20.0 Quant Date : 2/27/2018 12:45 pm

Compound #42: bromodichloromethane



Original Peak Response = 571367

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

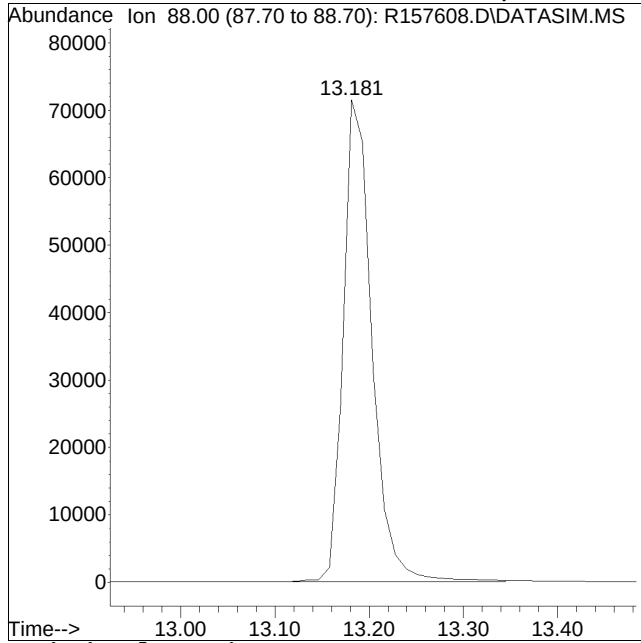


Manual Peak Response = 564012 M6

Manual Integration/Negative Proof Report

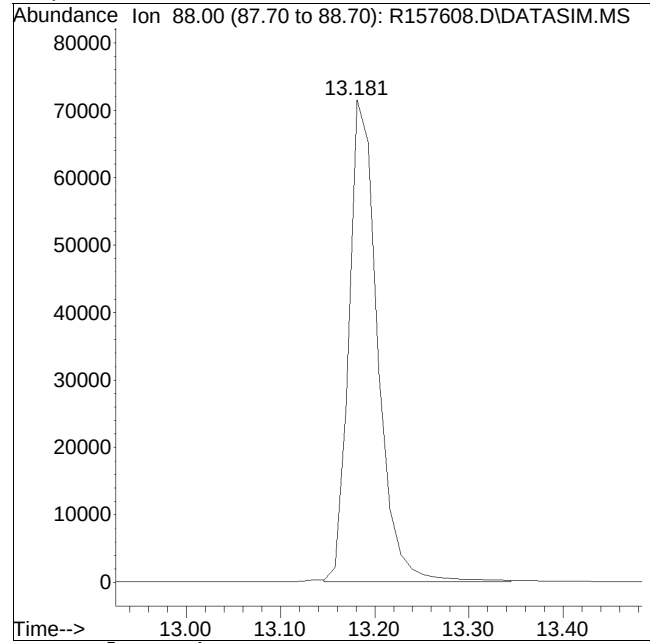
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157608.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:18 am Instrument : Air Piano 1
Sample : IT015-SIMSTD20.0 Quant Date : 2/27/2018 12:45 pm

Compound #43: 1,4-dioxane



Original Peak Response = 152058

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

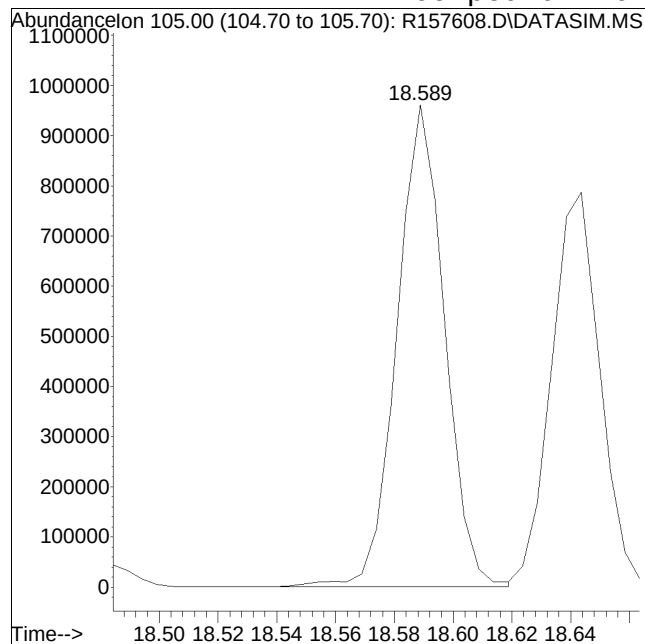


Manual Peak Response = 151259 M6

Manual Integration/Negative Proof Report

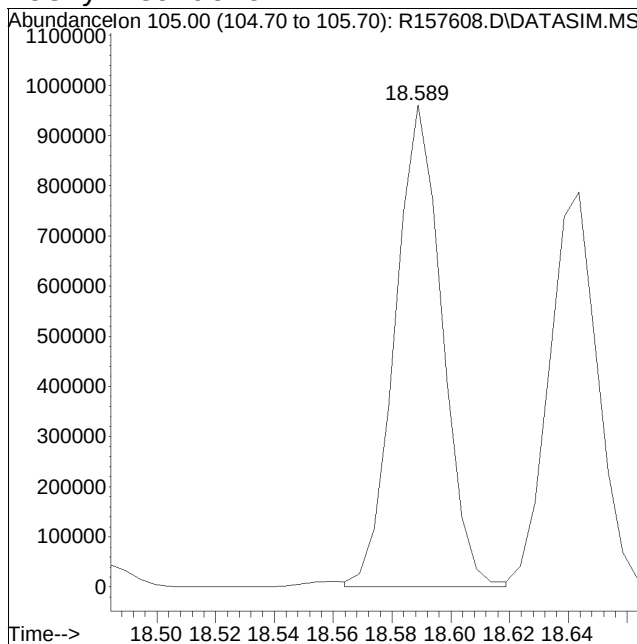
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
 Data File : R157608.D Operator : AIRPIAN01:MB
 Date Inj'd : 2/27/2018 2:18 am Instrument : Air Piano 1
 Sample : IT015-SIMSTD20.0 Quant Date : 2/27/2018 12:45 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 1081397

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

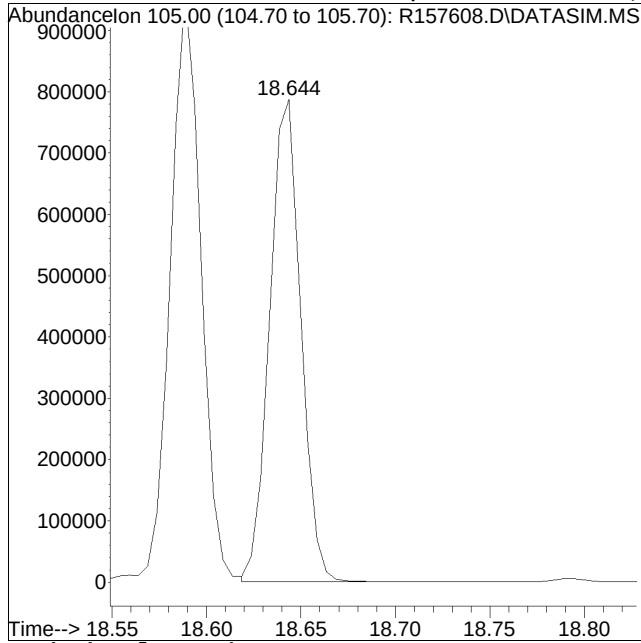


Manual Peak Response = 1069730 M6

Manual Integration/Negative Proof Report

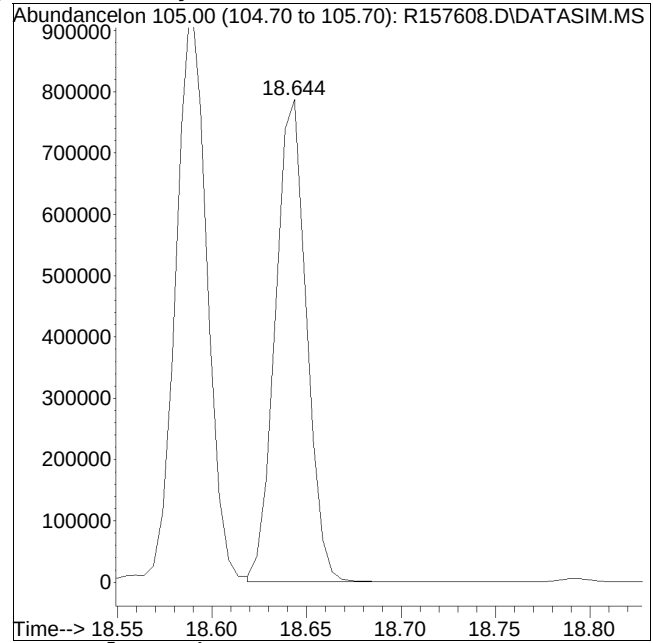
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157608.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:18 am Instrument : Air Piano 1
Sample : IT015-SIMSTD20.0 Quant Date : 2/27/2018 12:45 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 902749

M4 = Poor automated baseline construction.

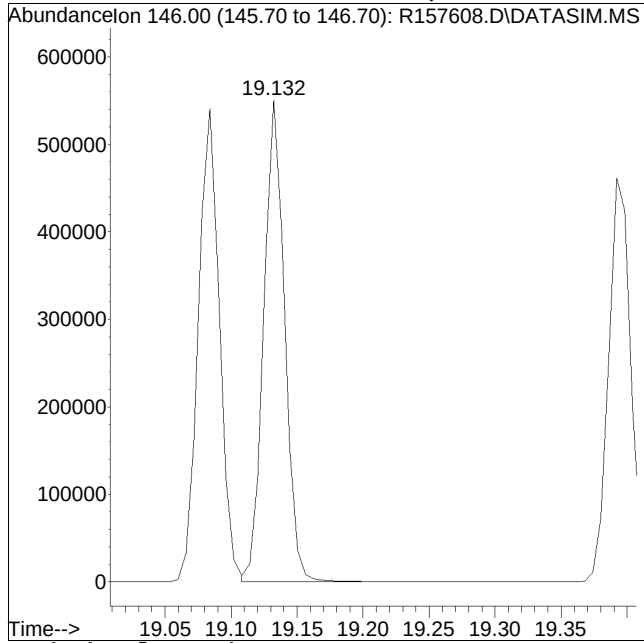


Manual Peak Response = 903179 M4

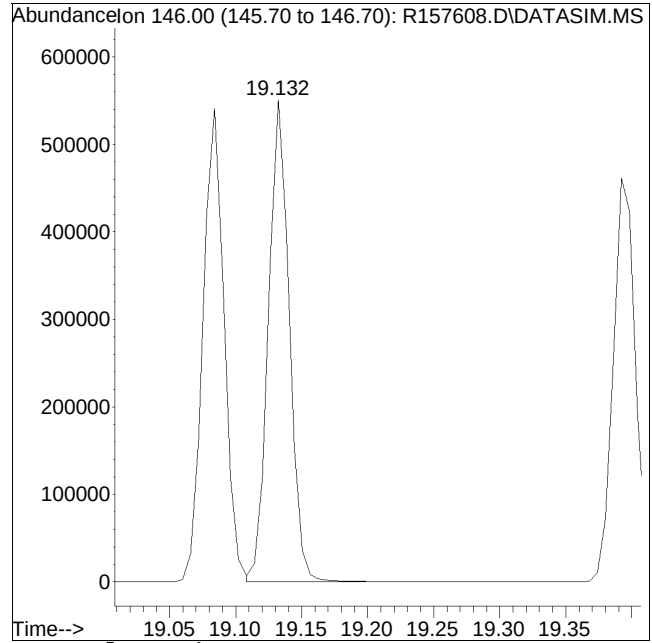
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157608.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:18 am Instrument : Air Piano 1
Sample : IT015-SIMSTD20.0 Quant Date : 2/27/2018 12:45 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 606674



Manual Peak Response = 606615 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157609.D
 Acq On : 27 Feb 2018 2:50 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD50.0
 Misc : WG1092763
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 27 12:45:54 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	225351	10.000	ppbV	0.00
Standard Area = 218948			Recovery =	102.92%		
33) 1,4-difluorobenzene	12.402	114	307980	10.000	ppbV	0.00
Standard Area = 315293			Recovery =	97.68%		
51) chlorobenzene-D5	16.823	54	85159	10.000	ppbV	0.00
Standard Area = 85423			Recovery =	99.69%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.066	65	115287	9.652	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.52%		
53) toluene-D8	15.128	98	273536	10.070	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.70%		
67) bromofluorobenzene	18.012	95	158421	10.365	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.65%		
Target Compounds						
					Qvalue	
2) propylene	4.051	41	493116m	41.764	ppbV	
3) dichlorodifluoromethane	4.152	85	1058294	41.843	ppbV	100
4) chloromethane	4.364	50	525651	40.394	ppbV	100
5) Freon-114	4.521	85	1353033	41.861	ppbV	97
6) vinyl chloride	4.677	62	562917	42.155	ppbV	100
7) 1,3-butadiene	4.867	54	385085M6	42.206	ppbV	
8) bromomethane	5.254	94	466309	41.476	ppbV	100
9) chloroethane	5.505	64	256807	40.839	ppbV	98
10) ethanol	5.710	31	1901022M6	183.071	ppbV	
11) vinyl bromide	5.989	106	436348	43.149	ppbV	100
12) acrolein	6.157	56	218437	38.614	ppbV	100
13) acetone	6.334	43	3330775	195.881	ppbV	97
14) trichlorofluoromethane	6.567	101	1223662	43.067	ppbV	100
15) isopropyl alcohol	6.706	45	2043827	88.144	ppbV	100
16) acrylonitrile	6.976	53	404183M6	41.860	ppbV	
17) 1,1-dichloroethene	7.404	61	934801	42.802	ppbV	99
18) tertiary butyl alcohol	7.488	59	1072337	42.107	ppbV	100
19) methylene chloride	7.572	49	747170	42.722	ppbV	97
20) 3-chloropropene	7.721	41	784445	43.399	ppbV	97
21) carbon disulfide	7.898	76	1490900	42.126	ppbV	96
22) Freon 113	7.916	101	958421	43.114	ppbV	99
23) trans-1,2-dichloroethene	8.745	61	924709	45.826	ppbV	98
24) 1,1-dichloroethane	8.991	63	1130946	44.850	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157609.D
 Acq On : 27 Feb 2018 2:50 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD50.0
 Misc : WG1092763
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 27 12:45:54 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.072	73	1355095	45.405	ppbV	100
26) vinyl acetate	9.195	43	1496399M4	51.932	ppbV	
27) 2-butanone	9.473	43	1385028	45.549	ppbV	96
28) cis-1,2-dichloroethene	9.988	61	992806	45.332	ppbV	97
29) Ethyl Acetate	10.277	61	248277	49.605	ppbV	86
30) chloroform	10.352	83	1415626	45.844	ppbV	98
31) Tetrahydrofuran	10.789	42	796379M6	47.391	ppbV	
32) 1,2-dichloroethane	11.188	62	856631	45.084	ppbV	99
34) hexane	10.234	57	1122267	46.304	ppbV	99
36) 1,1,1-trichloroethane	11.466	97	1097571	47.540	ppbV	99
37) benzene	11.994	78	1604494	45.686	ppbV	97
38) carbon tetrachloride	12.157	117	1063378	48.427	ppbV	99
39) cyclohexane	12.297	56	917917	46.770	ppbV	99
40) dibromomethane	12.902	93	670554	43.473	ppbV #	80
41) 1,2-dichloropropane	12.925	63	742289	46.967	ppbV	96
42) bromodichloromethane	13.146	83	1313407M6	48.770	ppbV	
43) 1,4-dioxane	13.181	88	353941M6	52.074	ppbV	
44) trichloroethene	13.193	130	617444	48.844	ppbV	98
45) 2,2,4-trimethylpentane	13.216	57	2963674	46.709	ppbV	98
46) heptane	13.519	43	1244917	46.526	ppbV #	95
47) cis-1,3-dichloropropene	14.170	75	4013401	52.122	ppbV	98
48) 4-methyl-2-pentanone	14.187	43	1743468	53.110	ppbV #	92
49) trans-1,3-dichloropropene	14.756	75	1014714	55.427	ppbV	99
50) 1,1,2-trichloroethane	14.942	97	652728	48.338	ppbV	96
52) toluene	15.231	91	1805230	47.487	ppbV	98
54) 2-hexanone	15.458	43	1630541	52.674	ppbV #	97
55) dibromochloromethane	15.644	129	1154604	53.716	ppbV	98
56) 1,2-dibromoethane	15.871	107	1084058	51.670	ppbV	99
57) tetrachloroethene	16.283	166	776451	53.060	ppbV	99
58) 1,1,1,2-tetrachloroethane	16.847	131	748148	52.050	ppbV	98
59) chlorobenzene	16.862	112	1451402	51.070	ppbV	98
60) ethylbenzene	17.156	91	2433586	49.659	ppbV	99
61) m+p-xylene	17.305	91	3755549	98.948	ppbV	97
62) bromoform	17.380	173	1102953	56.399	ppbV	99
63) styrene	17.579	104	1402340	55.219	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.663	83	1692025	49.179	ppbV	100
65) o-xylene	17.663	91	1947823	48.859	ppbV	97
66) 1,2,3-trichloropropane	17.763	75	1300691	49.872	ppbV	98
68) isopropylbenzene	18.106	105	2306385	50.082	ppbV	95
69) bromobenzene	18.191	77	1519303	51.406	ppbV	91

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157609.D
 Acq On : 27 Feb 2018 2:50 am
 Operator : AIRPIAN01:MB
 Sample : IT015-SIMSTD50.0
 Misc : WG1092763
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 27 12:45:54 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

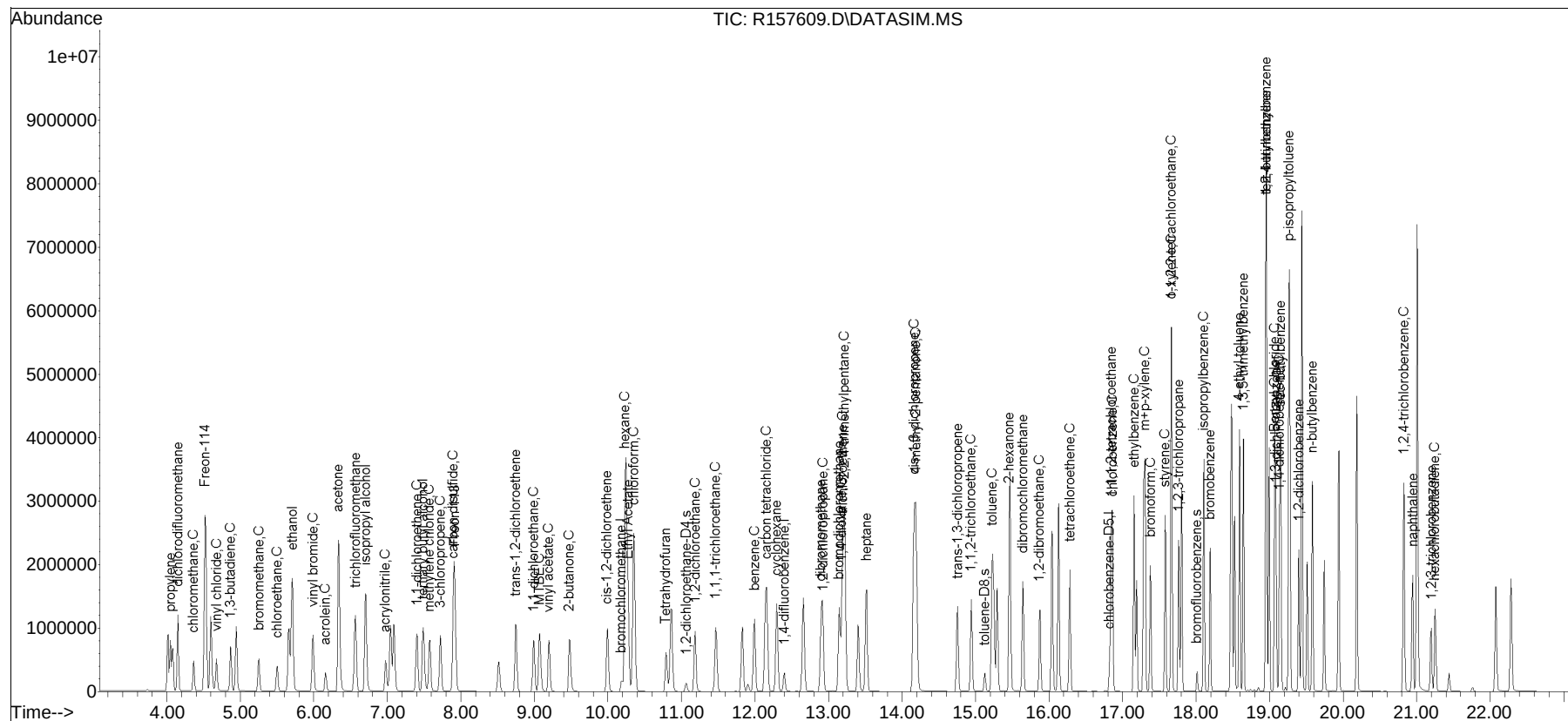
CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.589	105	2508116M6	53.006	ppbV	
71) 1,3,5-trimethylbenzene	18.644	105	2131993M4	51.952	ppbV	
72) tert-butylbenzene	18.951	119	1879282	48.328	ppbV	95
73) 1,2,4-trimethylbenzene	18.951	105	2011486	50.131	ppbV	95
74) Benzyl Chloride	19.066	91	2144500	57.754	ppbV	100
75) 1,3-dichlorobenzene	19.084	146	1503016	56.510	ppbV	92
76) 1,4-dichlorobenzene	19.132	146	1538685M4	56.216	ppbV	
77) sec-butylbenzene	19.151	105	2853239	49.650	ppbV #	91
78) p-isopropyltoluene	19.265	119	2279884	49.651	ppbV	95
79) 1,2-dichlorobenzene	19.398	146	1431460	56.779	ppbV	94
80) n-butylbenzene	19.580	91	2692238	53.908	ppbV	96
81) 1,2,4-trichlorobenzene	20.828	180	1084296	59.051	ppbV	97
82) naphthalene	20.948	128	2374765	49.979	ppbV	95
83) 1,2,3-trichlorobenzene	21.200	180	953654	56.373	ppbV	99
84) hexachlorobutadiene	21.248	225	891966	56.281	ppbV	96

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

```
Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
Data File : R157609.D
Acq On    : 27 Feb 2018    2:50 am
Operator  : AIRPIAN01:MB
Sample    : IT015-SIMSTD50.0
Misc      : WG1092763
ALS Vial  : 8    Sample Multiplier: 1
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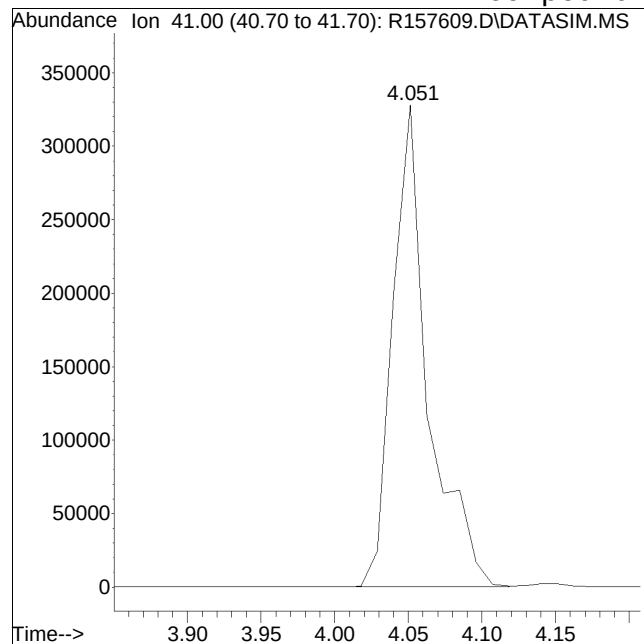
Quant Time: Feb 27 12:45:54 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



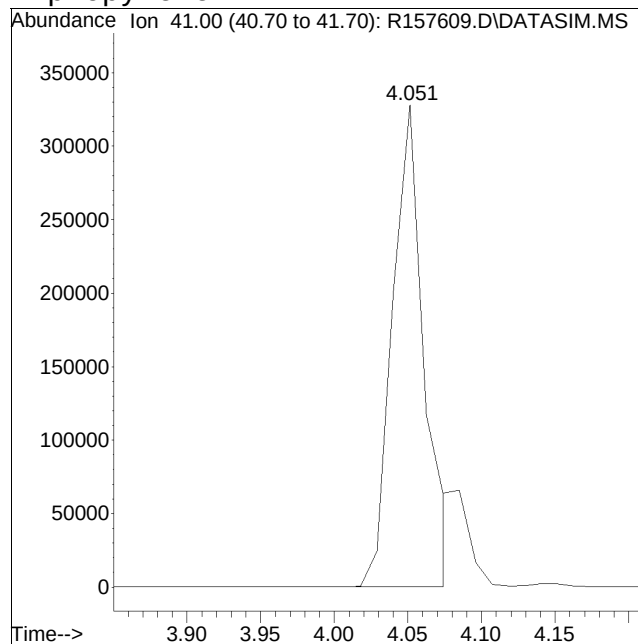
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157609.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:50 am Instrument : Air Piano 1
Sample : IT015-SIMSTD50.0 Quant Date : 2/27/2018 12:45 pm

Compound #2: propylene



Original Peak Response = 550249

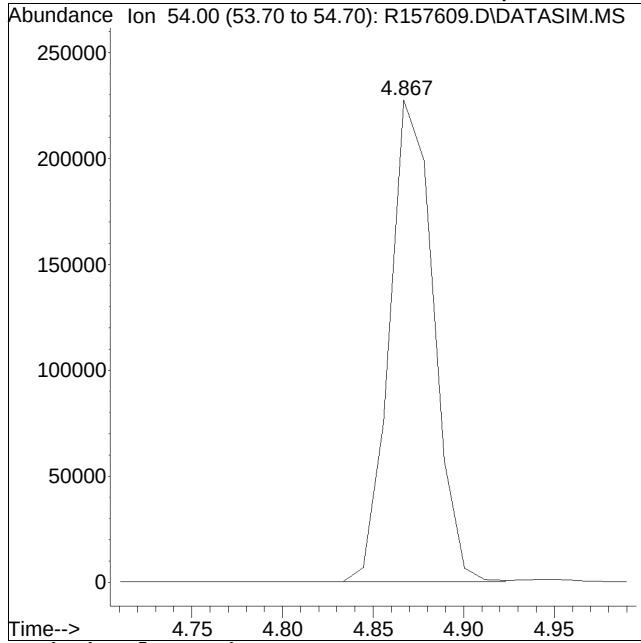


Manual Peak Response = 493116 m

Manual Integration/Negative Proof Report

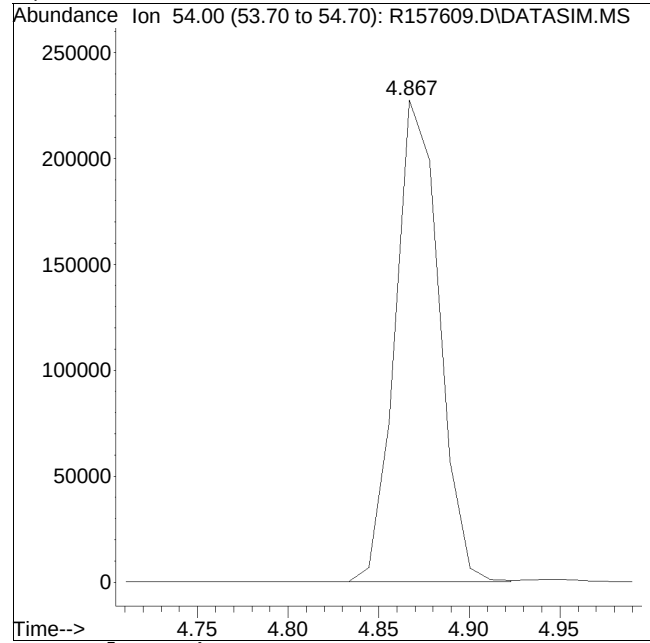
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157609.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:50 am Instrument : Air Piano 1
Sample : IT015-SIMSTD50.0 Quant Date : 2/27/2018 12:45 pm

Compound #7: 1,3-butadiene



Original Peak Response = 385195

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

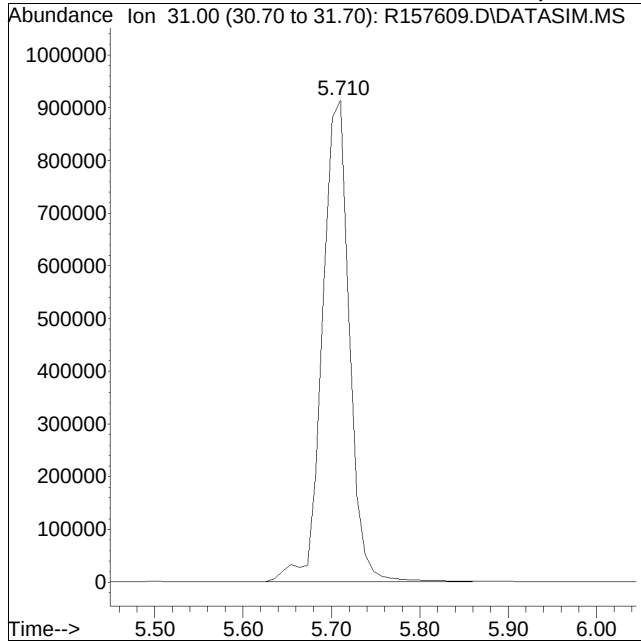


Manual Peak Response = 385085 M6

Manual Integration/Negative Proof Report

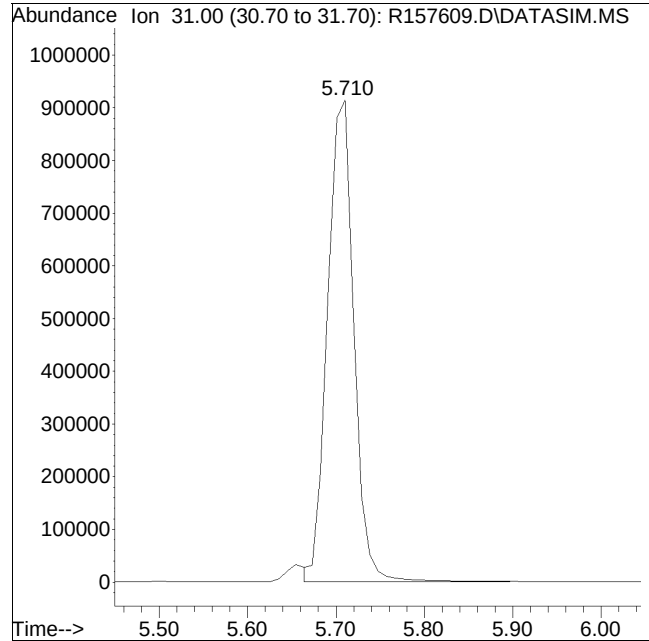
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157609.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:50 am Instrument : Air Piano 1
Sample : IT015-SIMSTD50.0 Quant Date : 2/27/2018 12:45 pm

Compound #10: ethanol



Original Peak Response = 1948330

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

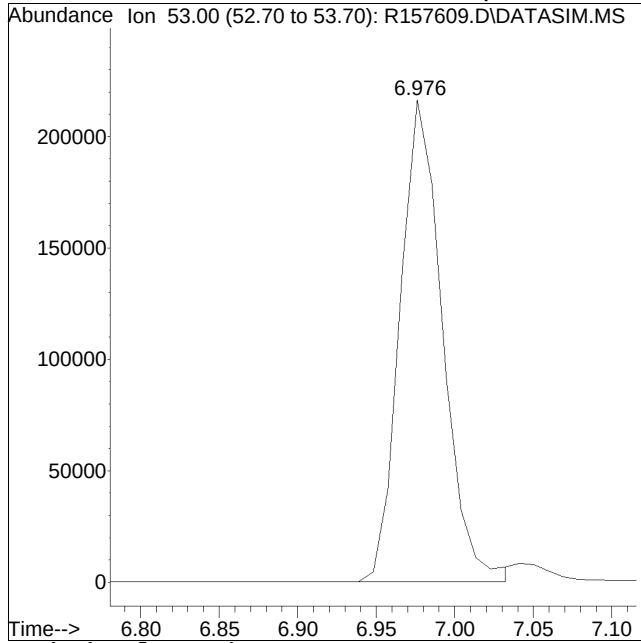


Manual Peak Response = 1901022 M6

Manual Integration/Negative Proof Report

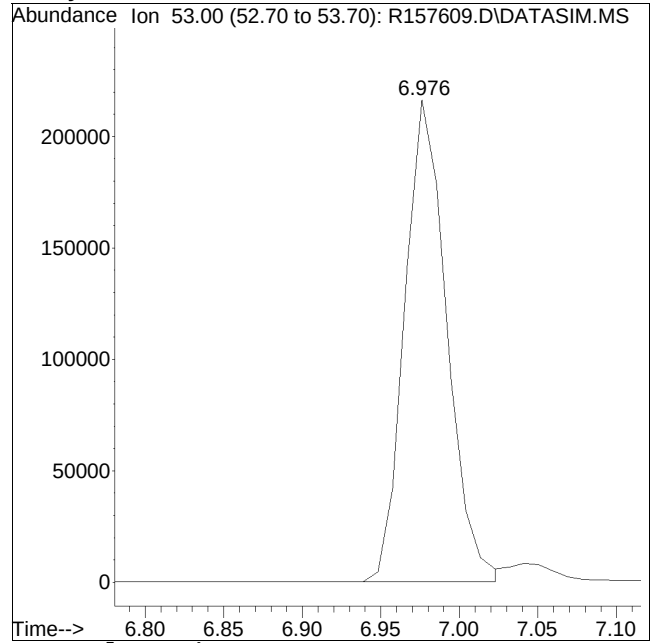
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157609.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:50 am Instrument : Air Piano 1
Sample : IT015-SIMSTD50.0 Quant Date : 2/27/2018 12:45 pm

Compound #16: acrylonitrile



Original Peak Response = 408001

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



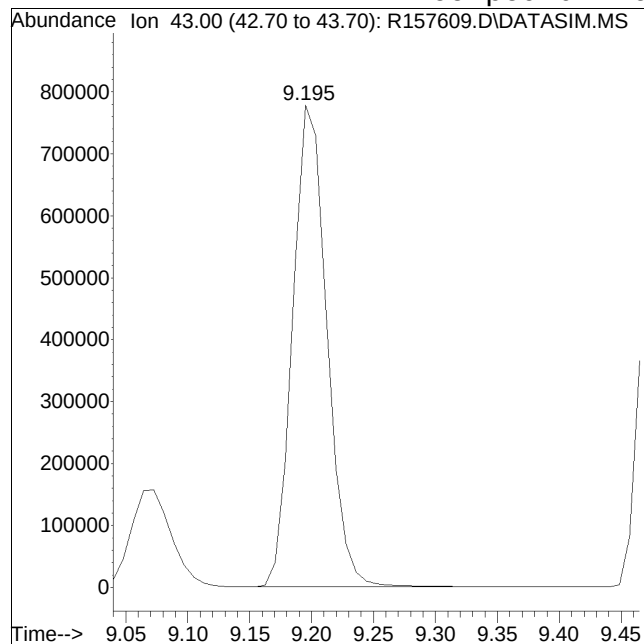
Manual Peak Response = 404183 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

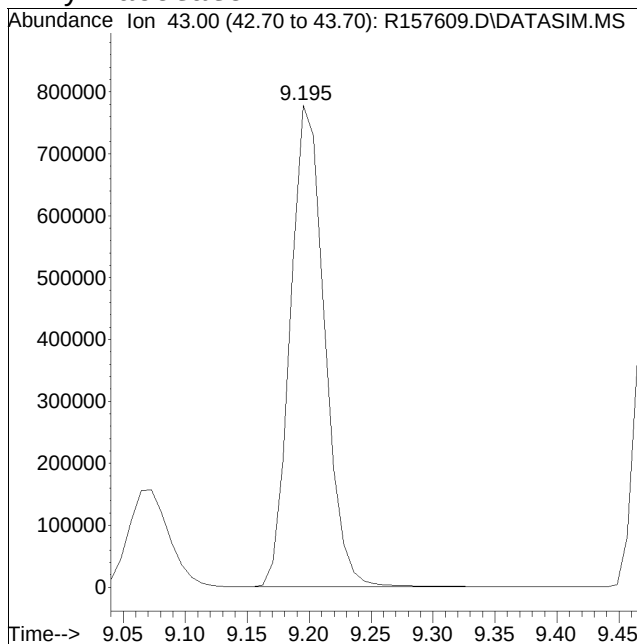
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157609.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:50 am Instrument : Air Piano 1
Sample : IT015-SIMSTD50.0 Quant Date : 2/27/2018 12:45 pm

Compound #26: vinyl acetate



Original Peak Response = 1495599



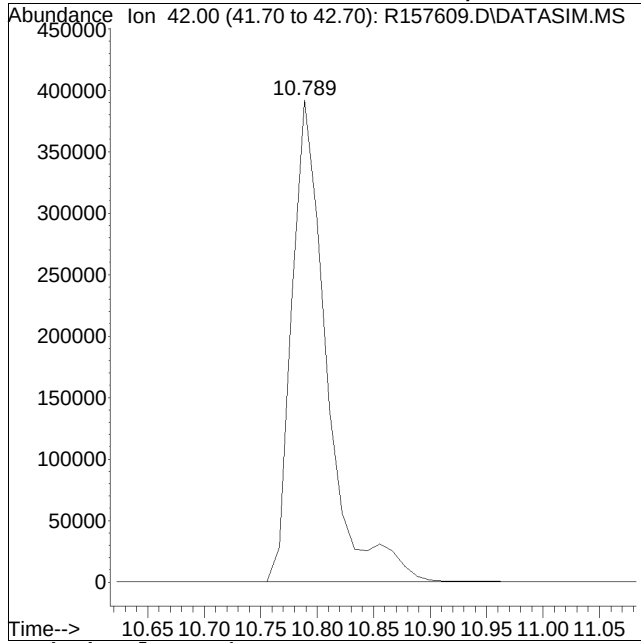
Manual Peak Response = 1496399 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

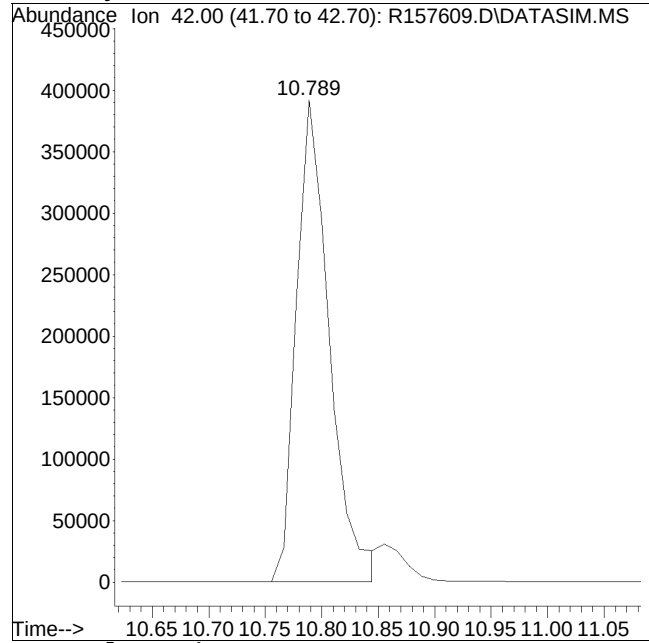
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157609.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:50 am Instrument : Air Piano 1
Sample : IT015-SIMSTD50.0 Quant Date : 2/27/2018 12:45 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 848926

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

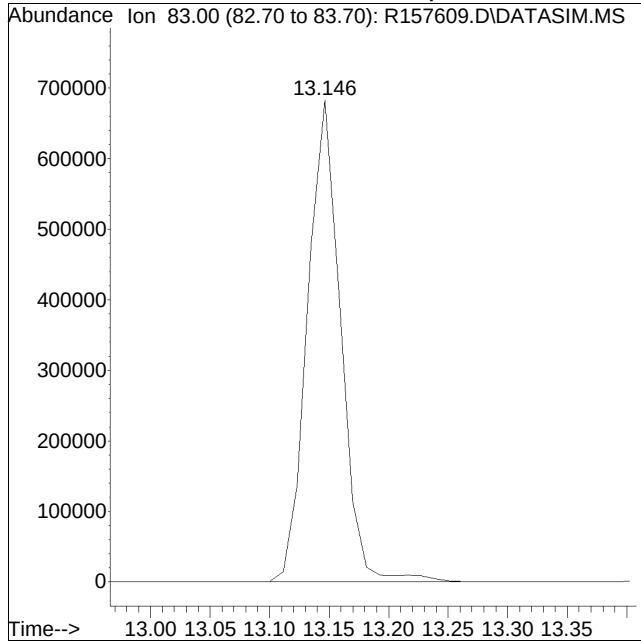


Manual Peak Response = 796379 M6

Manual Integration/Negative Proof Report

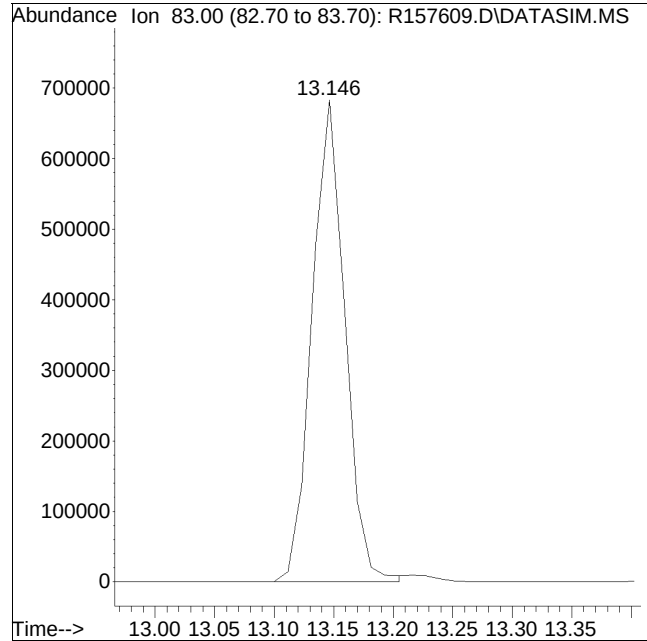
Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157609.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:50 am Instrument : Air Piano 1
Sample : IT015-SIMSTD50.0 Quant Date : 2/27/2018 12:45 pm

Compound #42: bromodichloromethane



Original Peak Response = 1330986

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

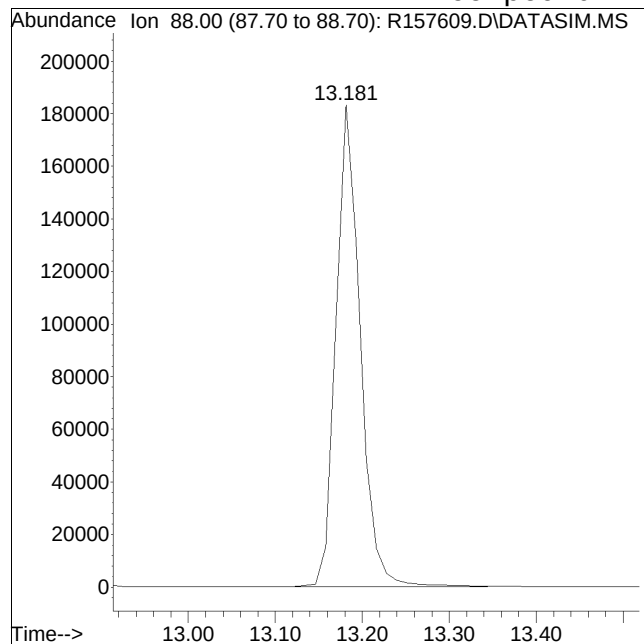


Manual Peak Response = 1313407 M6

Manual Integration/Negative Proof Report

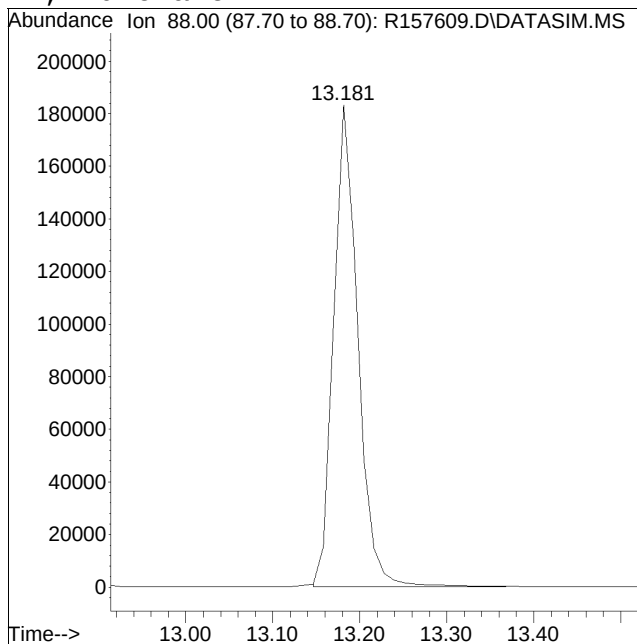
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157609.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:50 am Instrument : Air Piano 1
Sample : IT015-SIMSTD50.0 Quant Date : 2/27/2018 12:45 pm

Compound #43: 1,4-dioxane



Original Peak Response = 355609

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

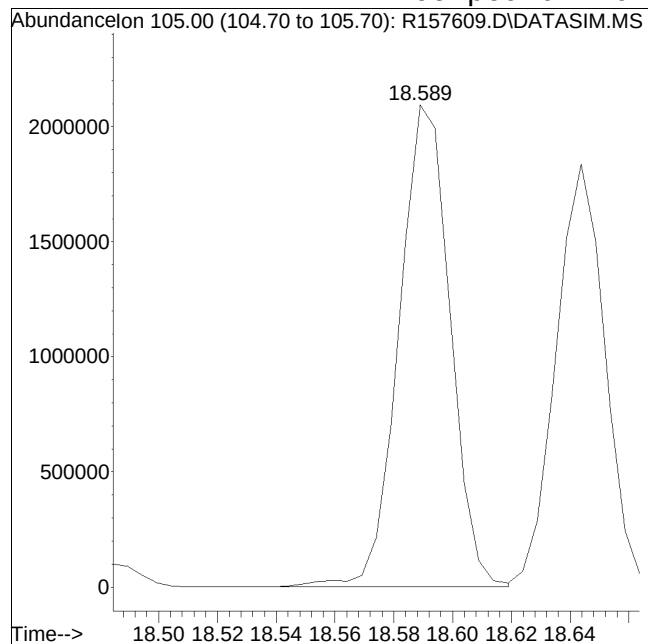


Manual Peak Response = 353941 M6

Manual Integration/Negative Proof Report

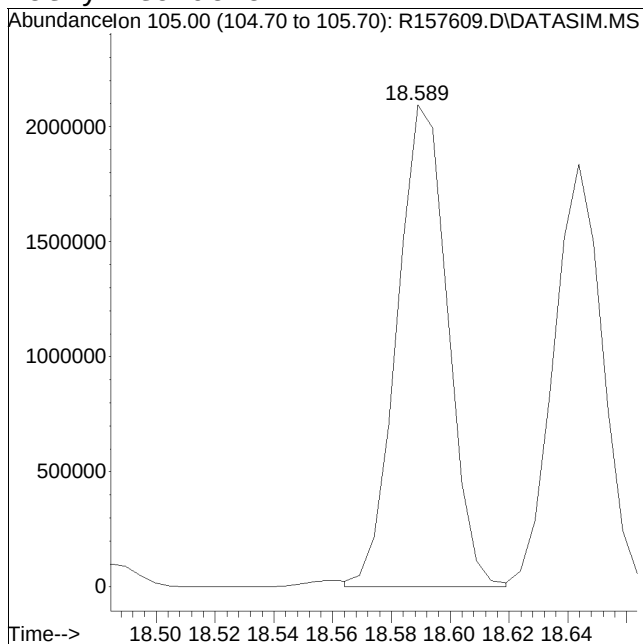
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
 Data File : R157609.D Operator : AIRPIAN01:MB
 Date Inj'd : 2/27/2018 2:50 am Instrument : Air Piano 1
 Sample : IT015-SIMSTD50.0 Quant Date : 2/27/2018 12:45 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 2535969

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

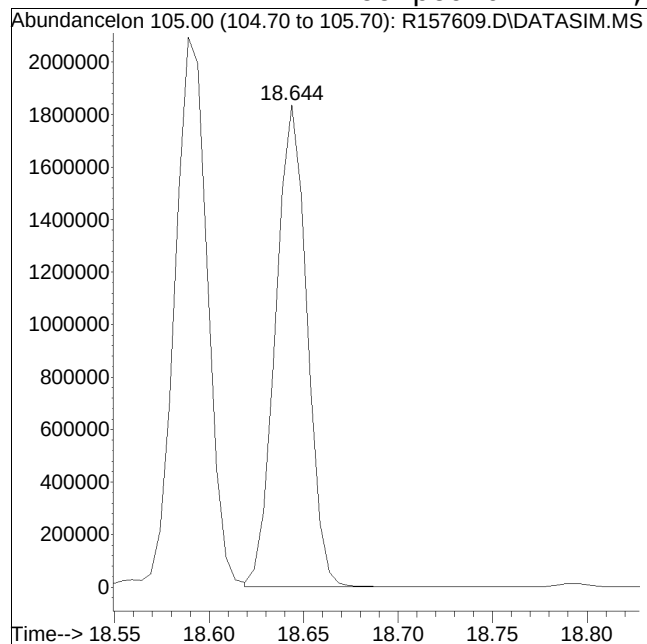


Manual Peak Response = 2508116 M6

Manual Integration/Negative Proof Report

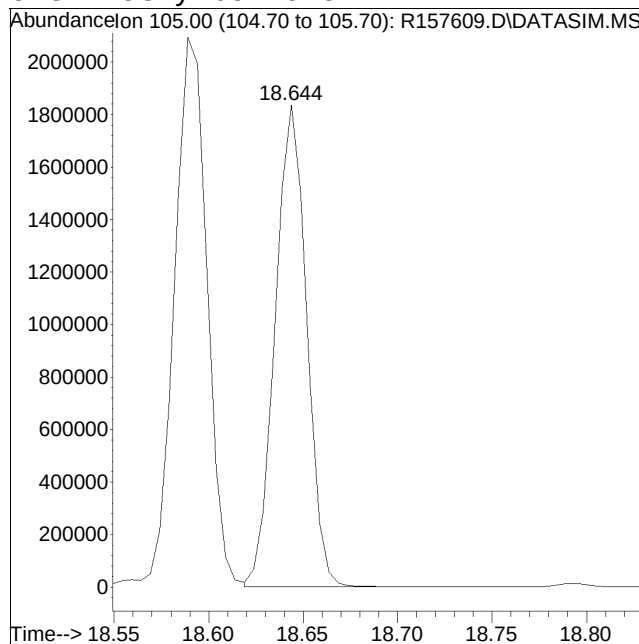
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157609.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:50 am Instrument : Air Piano 1
Sample : IT015-SIMSTD50.0 Quant Date : 2/27/2018 12:45 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 2130668

M4 = Poor automated baseline construction.

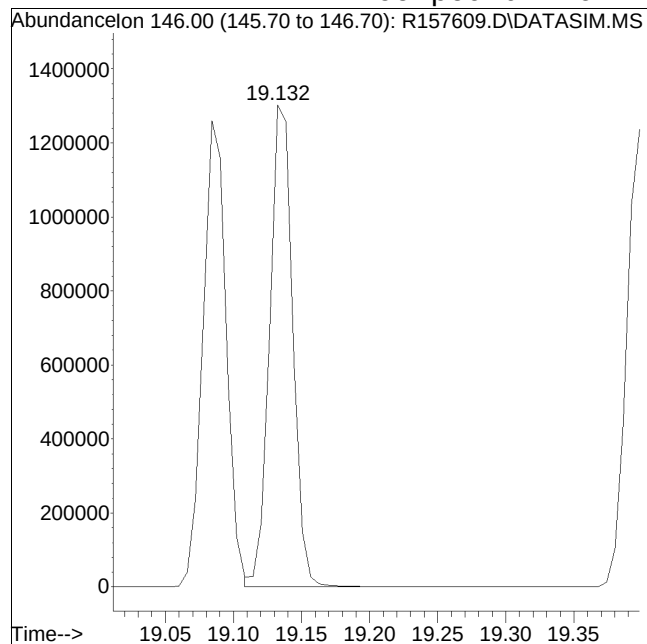


Manual Peak Response = 2131993 M4

Manual Integration/Negative Proof Report

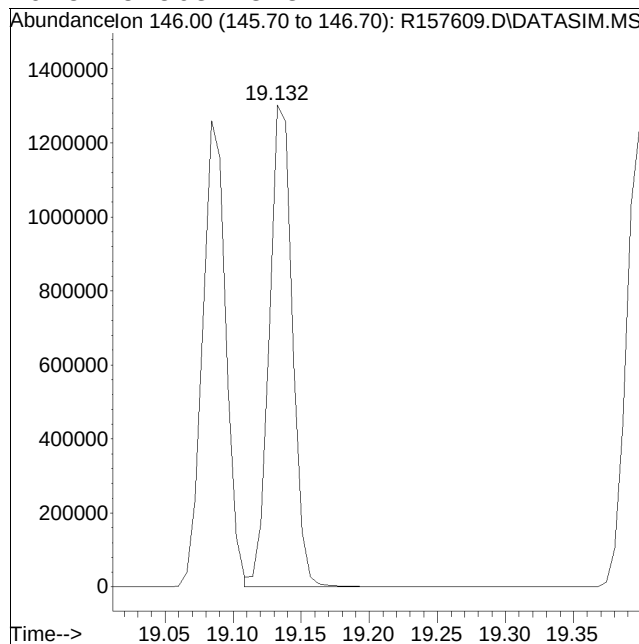
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157609.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 2:50 am Instrument : Air Piano 1
Sample : IT015-SIMSTD50.0 Quant Date : 2/27/2018 12:45 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 1538420

M4 = Poor automated baseline construction.



Manual Peak Response = 1538685 M4

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157614.D
 Acq On : 27 Feb 2018 9:40 am
 Operator : AIRPIAN01:MB
 Sample : CT015-SIMSTD5.0
 Misc : WG1092763
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 12:50:15 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 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	97	0.00
2	propylene	0.524	0.531	-1.3	107	0.00
3	dichlorodifluoromethane	1.122	0.917	18.3	77	0.00
4 C	chloromethane	0.577	0.491	14.9	83	0.00
5	Freon-114	1.434	1.295	9.7	86	0.00
6 C	vinyl chloride	0.593	0.524	11.6	85	0.00
7 C	1,3-butadiene	0.405	0.395	2.5	94	0.00
8 C	bromomethane	0.499	0.448	10.2	85	0.00
9 C	chloroethane	0.279	0.239	14.3	83	0.00
10	ethanol	0.461	0.374	18.9	85	0.00
11 C	vinyl bromide	0.449	0.428	4.7	92	0.00
12 C	acrolein	0.251	0.193	23.1	81	0.00
13	acetone	0.755	0.775	-2.6	107	0.00
14	trichlorofluoromethane	1.261	1.150	8.8	88	0.00
15	isopropyl alcohol	1.029	0.935	9.1	107	0.00
16 C	acrylonitrile	0.428	0.360	15.9	84	0.00
17 C	1,1-dichloroethene	0.969	0.888	8.4	88	0.00
18	tertiary butyl alcohol	1.130	1.011	10.5	89	0.00
19 C	methylene chloride	0.776	0.700	9.8	86	0.00
20 C	3-chloropropene	0.802	0.814	-1.5	99	0.00
21 C	carbon disulfide	1.570	1.410	10.2	86	0.00
22	Freon 113	0.986	0.900	8.7	87	0.00
23	trans-1,2-dichloroethene	0.895	0.827	7.6	91	0.00
24 C	1,1-dichloroethane	1.119	1.067	4.6	93	0.00
25 C	MTBE	1.324	1.377	-4.0	103	0.00
26 C	vinyl acetate	1.279	1.467	-14.7	117	0.00
27 C	2-butanone	1.349	1.388	-2.9	103	0.00
28	cis-1,2-dichloroethene	0.972	0.967	0.5	96	0.00
29	Ethyl Acetate	0.222	0.241	-8.6	106	0.00
30 C	chloroform	1.370	1.328	3.1	95	0.00
31	Tetrahydrofuran	0.746	0.757	-1.5	100	0.00
32 C	1,2-dichloroethane	0.843	0.787	6.6	92	0.00
33 I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00
34 C	hexane	0.787	0.771	2.0	101	0.00
35 s	1,2-dichloroethane-D4	0.388	0.387	0.3	104	0.00
36 C	1,1,1-trichloroethane	0.750	0.697	7.1	95	0.00
37 C	benzene	1.140	1.055	7.5	95	0.00
38 C	carbon tetrachloride	0.713	0.676	5.2	95	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157614.D
 Acq On : 27 Feb 2018 9:40 am
 Operator : AIRPIAN01:MB
 Sample : CT015-SIMSTD5.0
 Misc : WG1092763
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 12:50:15 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 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)
39	cyclohexane	0.637	0.643	-0.9	102	0.00
40	dibromomethane	0.501	0.398	20.6	87	0.00
41 C	1,2-dichloropropane	0.513	0.471	8.2	92	0.00
42	bromodichloromethane	0.874	0.877	-0.3	99	0.00
43 C	1,4-dioxane	0.221	0.231	-4.5	103	0.00
44 C	trichloroethene	0.410	0.381	7.1	92	0.00
45 C	2,2,4-trimethylpentane	2.060	2.026	1.7	99	0.00
46	heptane	0.869	0.864	0.6	101	0.00
47 C	cis-1,3-dichloropropene	2.500	2.591	-3.6	99	0.00
48 C	4-methyl-2-pentanone	1.066	1.187	-11.4	101	0.02
49	trans-1,3-dichloropropene	0.594	0.550	7.4	84	0.00
50 C	1,1,2-trichloroethane	0.438	0.431	1.6	95	0.00
51 I	chlorobenzene-D5	1.000	1.000	0.0	96	0.00
52 C	toluene	4.464	4.540	-1.7	95	0.00
53 s	toluene-D8	3.190	3.570	-11.9	104	0.00
54	2-hexanone	3.635	4.195	-15.4	98	0.00
55	dibromochloromethane	2.524	2.889	-14.5	103	0.00
56 C	1,2-dibromoethane	2.464	2.536	-2.9	92	0.00
57 C	tetrachloroethene	1.718	1.767	-2.9	95	0.00
58	1,1,1,2-tetrachloroethane	1.688	1.629	3.5	88	0.00
59 C	chlorobenzene	3.337	3.428	-2.7	94	0.00
60 C	ethylbenzene	5.755	5.944	-3.3	95	0.00
61 C	m+p-xylene	4.457	4.615	-3.5	93	0.00
62 C	bromoform	2.296	2.602	-13.3	103	0.00
63 C	styrene	2.982	3.214	-7.8	93	0.00
64 C	1,1,2,2-tetrachloroethane	4.040	4.116	-1.9	91	0.00
65 C	o-xylene	4.681	4.778	-2.1	93	0.00
66	1,2,3-trichloropropane	3.063	3.013	1.6	89	0.00
67 s	bromofluorobenzene	1.795	1.965	-9.5	102	0.00
68 C	isopropylbenzene	5.408	5.492	-1.6	95	0.00
69	bromobenzene	3.471	3.436	1.0	91	0.00
70	4-ethyl toluene	5.556	6.392	-15.0	99	0.00
71	1,3,5-trimethylbenzene	4.819	5.091	-5.6	93	0.00
72	tert-butylbenzene	4.566	4.743	-3.9	90	0.00
73	1,2,4-trimethylbenzene	4.712	5.329	-13.1	95	0.00
74 C	Benzyl Chloride	4.360	5.242	-20.2	106	0.00
75	1,3-dichlorobenzene	3.123	3.470	-11.1	95	0.00
76 C	1,4-dichlorobenzene	3.214	3.498	-8.8	94	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157614.D
 Acq On : 27 Feb 2018 9:40 am
 Operator : AIRPIAN01:MB
 Sample : CT015-SIMSTD5.0
 Misc : WG1092763
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 12:50:15 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 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)
77	sec-butylbenzene	6.748	7.020	-4.0	89	0.00
78	p-isopropyltoluene	5.392	5.358	0.6	85	0.00
79	1,2-dichlorobenzene	2.960	3.341	-12.9	97	0.00
80	n-butylbenzene	5.865	6.649	-13.4	92	0.00
81 C	1,2,4-trichlorobenzene	2.156	2.806	-30.1#	96	0.00
82	naphthalene	5.580	6.326	-13.4	87	0.01
83	1,2,3-trichlorobenzene	1.986	2.556	-28.7	91	0.00
84 C	hexachlorobutadiene	1.861	2.314	-24.3	96	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 : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157614.D
 Acq On : 27 Feb 2018 9:40 am
 Operator : AIRPIAN01:MB
 Sample : CT015-SIMSTD5.0
 Misc : WG1092763
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 12:50:15 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	213442	10.000	ppbV	0.00
Standard Area = 218948			Recovery =		97.49%	
33) 1,4-difluorobenzene	12.401	114	311679	10.000	ppbV	0.00
Standard Area = 315293			Recovery =		98.85%	
51) chlorobenzene-D5	16.822	54	82112	10.000	ppbV	0.00
Standard Area = 85423			Recovery =		96.12%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.055	65	120579	9.975	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.75%	
53) toluene-D8	15.128	98	293156	11.193	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		111.93%	
67) bromofluorobenzene	18.012	95	161345	10.948	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		109.48%	
Target Compounds						
					Qvalue	
2) propylene	4.051	41	56618M6	5.063	ppbV	
3) dichlorodifluoromethane	4.152	85	97864	4.085	ppbV	100
4) chloromethane	4.364	50	52398	4.251	ppbV	99
5) Freon-114	4.520	85	138190	4.514	ppbV	97
6) vinyl chloride	4.677	62	55927	4.422	ppbV	100
7) 1,3-butadiene	4.867	54	42119	4.874	ppbV	96
8) bromomethane	5.245	94	47774	4.486	ppbV	99
9) chloroethane	5.496	64	25484	4.279	ppbV	91
10) ethanol	5.701	31	199307	20.264	ppbV	100
11) vinyl bromide	5.989	106	45703	4.772	ppbV	99
12) acrolein	6.166	56	20569	3.839	ppbV	99
13) acetone	6.343	43	413549	25.678	ppbV	99
14) trichlorofluoromethane	6.566	101	122692	4.559	ppbV	100
15) isopropyl alcohol	6.697	45	249426	11.357	ppbV	99
16) acrylonitrile	6.976	53	38412M6	4.200	ppbV	
17) 1,1-dichloroethene	7.395	61	94745	4.580	ppbV	95
18) tertiary butyl alcohol	7.497	59	107861	4.472	ppbV	99
19) methylene chloride	7.572	49	74742	4.512	ppbV	98
20) 3-chloropropene	7.721	41	86831	5.072	ppbV	98
21) carbon disulfide	7.897	76	150521	4.490	ppbV	99
22) Freon 113	7.916	101	96080	4.563	ppbV	99
23) trans-1,2-dichloroethene	8.745	61	88311	4.621	ppbV	98
24) 1,1-dichloroethane	8.991	63	113830	4.766	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157614.D
 Acq On : 27 Feb 2018 9:40 am
 Operator : AIRPIAN01:MB
 Sample : CT015-SIMSTD5.0
 Misc : WG1092763
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 12:50:15 2018
 Quant Method : O:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.081	73	146940	5.198	ppbV	99
26) vinyl acetate	9.195	43	156540M4	5.736	ppbV	
27) 2-butanone	9.489	43	148078	5.142	ppbV	99
28) cis-1,2-dichloroethene	9.988	61	103226	4.976	ppbV	100
29) Ethyl Acetate	10.277	61	25728	5.427	ppbV	96
30) chloroform	10.341	83	141739	4.846	ppbV	99
31) Tetrahydrofuran	10.811	42	80819M6	5.078	ppbV	
32) 1,2-dichloroethane	11.188	62	84041	4.670	ppbV	100
34) hexane	10.234	57	120204	4.901	ppbV	87
36) 1,1,1-trichloroethane	11.466	97	108678	4.651	ppbV	100
37) benzene	11.994	78	164340	4.624	ppbV	100
38) carbon tetrachloride	12.157	117	105307	4.739	ppbV	99
39) cyclohexane	12.297	56	100263	5.048	ppbV	98
40) dibromomethane	12.890	93	62039	3.974	ppbV	98
41) 1,2-dichloropropane	12.914	63	73392M6	4.589	ppbV	
42) bromodichloromethane	13.146	83	136731M6	5.017	ppbV	
43) 1,4-dioxane	13.193	88	36035M6	5.239	ppbV	
44) trichloroethene	13.193	130	59447	4.647	ppbV	99
45) 2,2,4-trimethylpentane	13.216	57	315789	4.918	ppbV	99
46) heptane	13.507	43	134658	4.973	ppbV	100
47) cis-1,3-dichloropropene	14.170	75	403839	5.182	ppbV	100
48) 4-methyl-2-pentanone	14.204	43	184908	5.566	ppbV #	83
49) trans-1,3-dichloropropene	14.756	75	85649	4.623	ppbV	100
50) 1,1,2-trichloroethane	14.942	97	67094	4.910	ppbV	99
52) toluene	15.220	91	186396	5.085	ppbV	100
54) 2-hexanone	15.468	43	172221M6	5.770	ppbV	
55) dibromochloromethane	15.644	129	118602	5.723	ppbV	100
56) 1,2-dibromoethane	15.871	107	104133	5.148	ppbV	99
57) tetrachloroethene	16.283	166	72556	5.142	ppbV	99
58) 1,1,1,2-tetrachloroethane	16.842	131	66873	4.825	ppbV	99
59) chlorobenzene	16.857	112	140734	5.136	ppbV	98
60) ethylbenzene	17.156	91	244047	5.165	ppbV	100
61) m+p-xylene	17.300	91	378951	10.355	ppbV	100
62) bromoform	17.375	173	106832	5.666	ppbV	100
63) styrene	17.579	104	131942	5.388	ppbV	100
64) 1,1,2,2-tetrachloroethane	17.663	83	169007	5.095	ppbV	100
65) o-xylene	17.663	91	196185	5.104	ppbV	100
66) 1,2,3-trichloropropane	17.763	75	123695	4.919	ppbV	99
68) isopropylbenzene	18.101	105	225460	5.077	ppbV	99
69) bromobenzene	18.186	77	141084	4.951	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
 Data File : R157614.D
 Acq On : 27 Feb 2018 9:40 am
 Operator : AIRPIAN01:MB
 Sample : CT015-SIMSTD5.0
 Misc : WG1092763
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 12:50:15 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\R157606.D
 Sub List : Default - All compounds listed

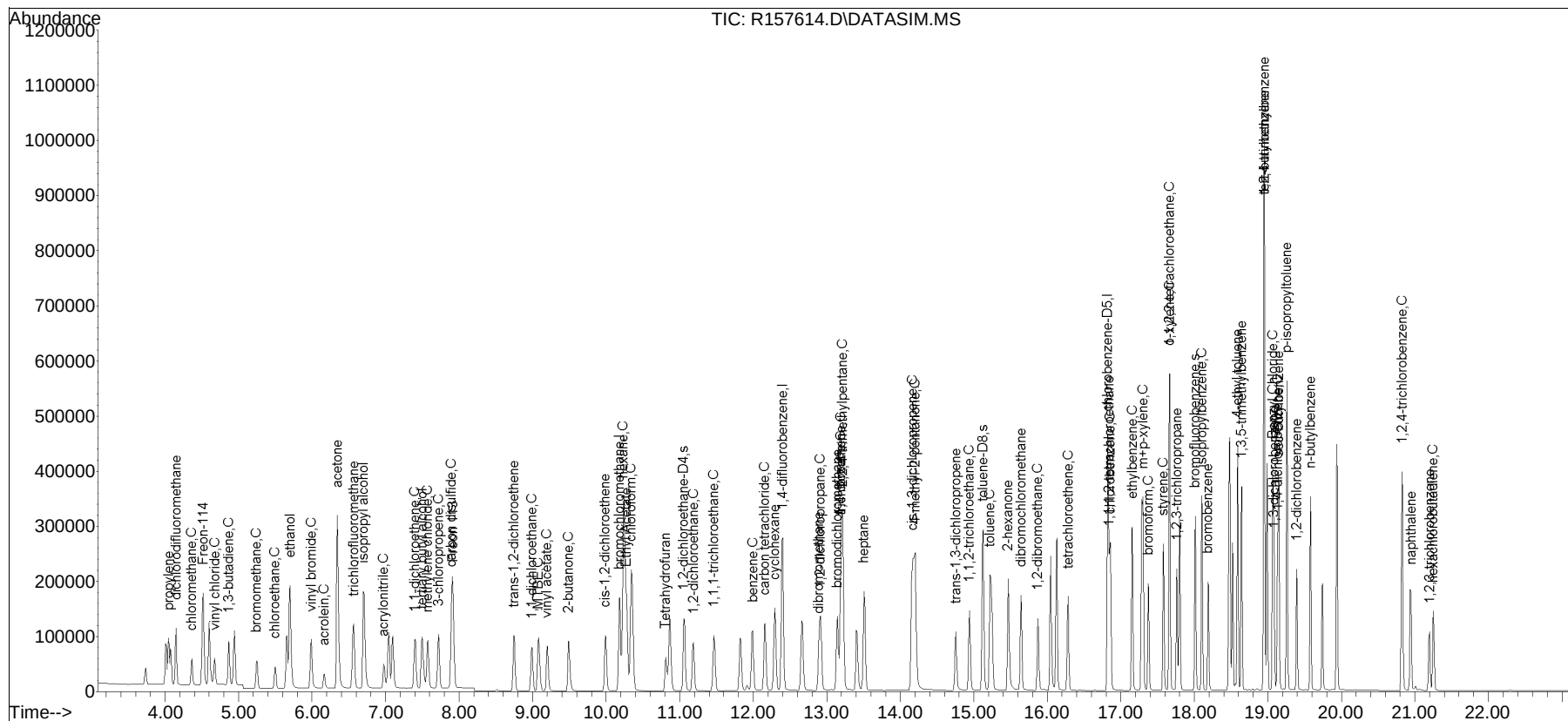
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.589	105	262441M6	5.752	ppbV	
71) 1,3,5-trimethylbenzene	18.644	105	209004	5.282	ppbV	98
72) tert-butylbenzene	18.951	119	194740	5.194	ppbV	98
73) 1,2,4-trimethylbenzene	18.951	105	218791	5.655	ppbV	97
74) Benzyl Chloride	19.066	91	215222	6.011	ppbV	99
75) 1,3-dichlorobenzene	19.084	146	142469	5.555	ppbV	99
76) 1,4-dichlorobenzene	19.132	146	143614	5.442	ppbV	99
77) sec-butylbenzene	19.150	105	288226	5.202	ppbV	94
78) p-isopropyltoluene	19.259	119	219986	4.969	ppbV	98
79) 1,2-dichlorobenzene	19.392	146	137157	5.642	ppbV	99
80) n-butylbenzene	19.579	91	272984	5.669	ppbV	99
81) 1,2,4-trichlorobenzene	20.828	180	115189	6.506	ppbV	99
82) naphthalene	20.948	128	259735	5.669	ppbV #	93
83) 1,2,3-trichlorobenzene	21.200	180	104940	6.433	ppbV	99
84) hexachlorobutadiene	21.248	225	95013	6.218	ppbV	100

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

Sub List : Default - All compounds listed0226SIM_ICAL\R157606.D

Data Path : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\
Data File : R157614.D
Acq On : 27 Feb 2018 9:40 am
Operator : AIRPIAN01:MB
Sample : CT015-SIMSTD5.0
Misc : WG1092763
ALS Vial : 2 Sample Multiplier: 1

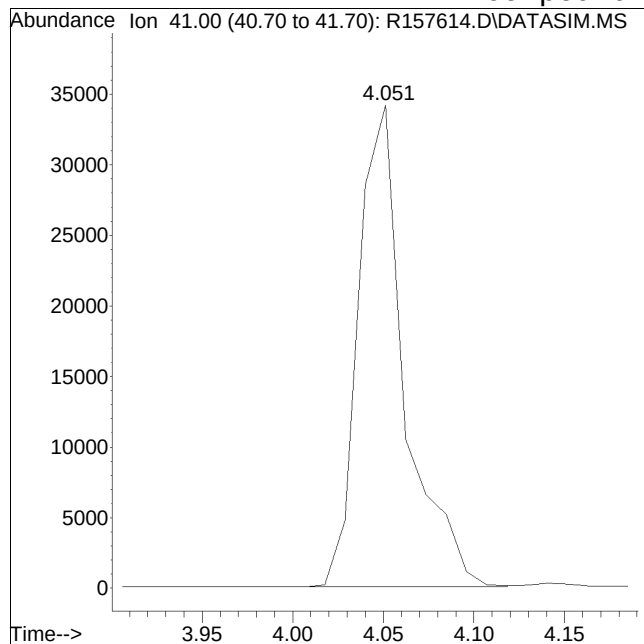
Quant Time: Feb 27 12:50:15 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180226SIM_ICAL\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



Manual Integration/Negative Proof Report

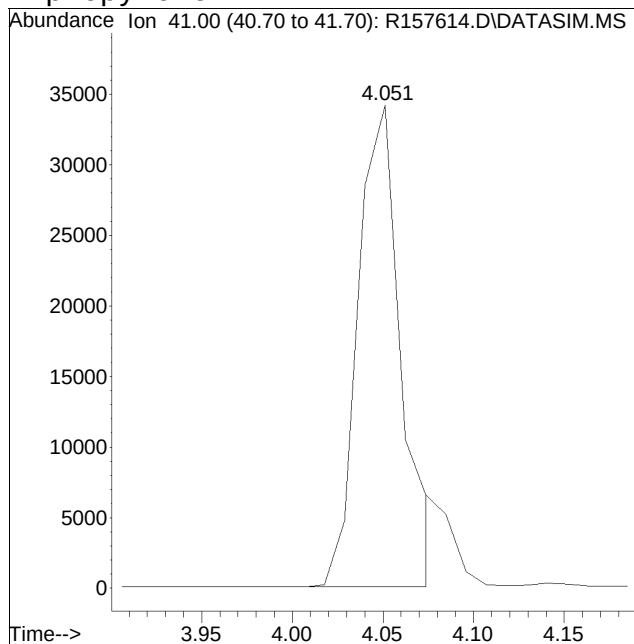
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157614.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 9:40 am Instrument : Air Piano 1
Sample : CT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #2: propylene



Original Peak Response = 60948

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

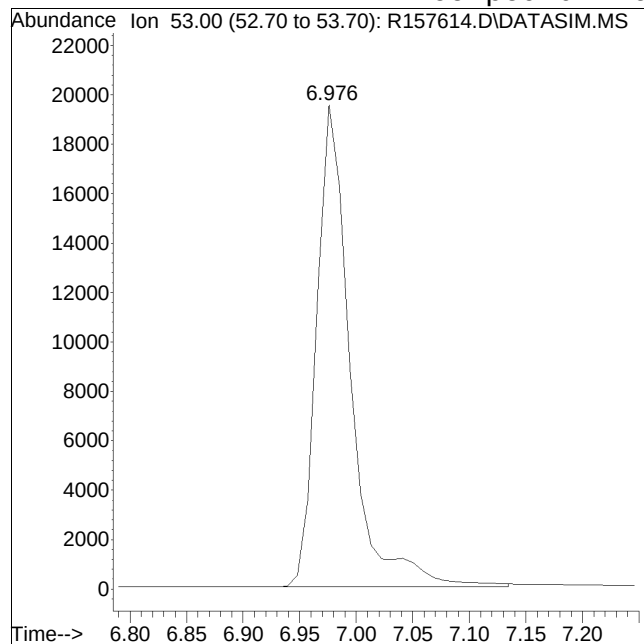


Manual Peak Response = 56618 M6

Manual Integration/Negative Proof Report

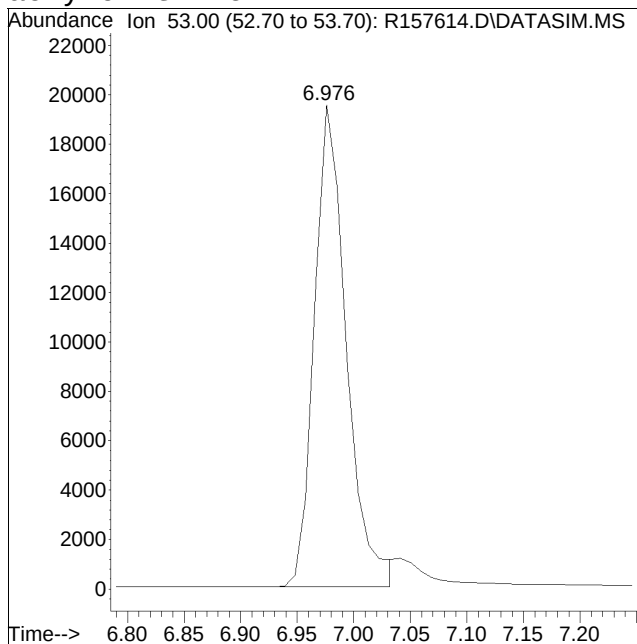
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
 Data File : R157614.D Operator : AIRPIAN01:MB
 Date Inj'd : 2/27/2018 9:40 am Instrument : Air Piano 1
 Sample : CT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #16: acrylonitrile



Original Peak Response = 40852

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

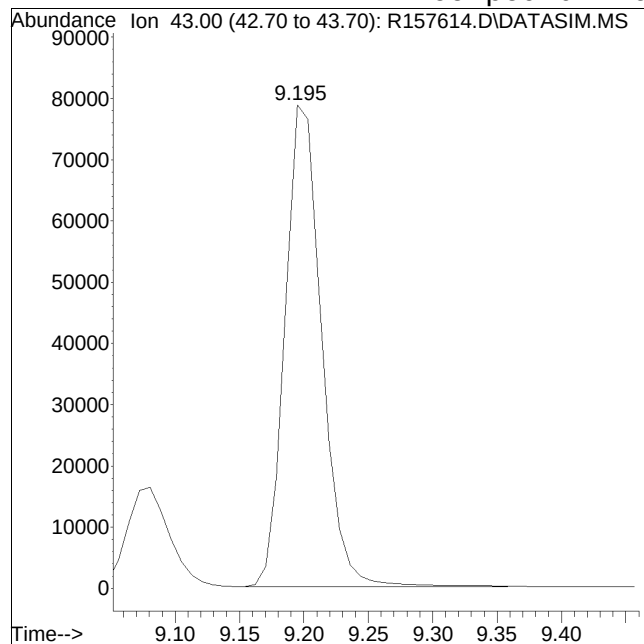


Manual Peak Response = 38412 M6

Manual Integration/Negative Proof Report

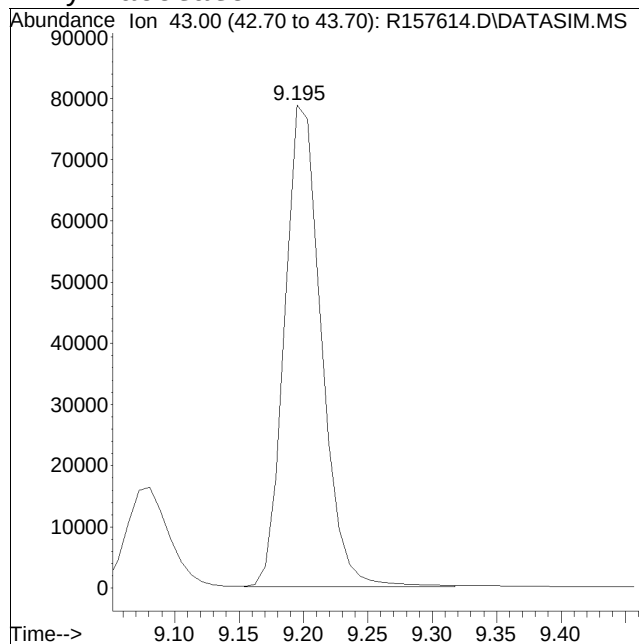
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157614.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 9:40 am Instrument : Air Piano 1
Sample : CT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #26: vinyl acetate



Original Peak Response = 156323

M4 = Poor automated baseline construction.

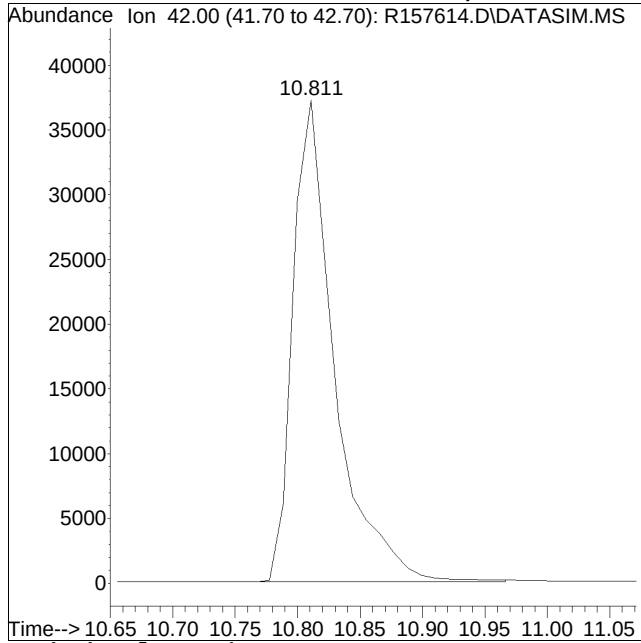


Manual Peak Response = 156540 M4

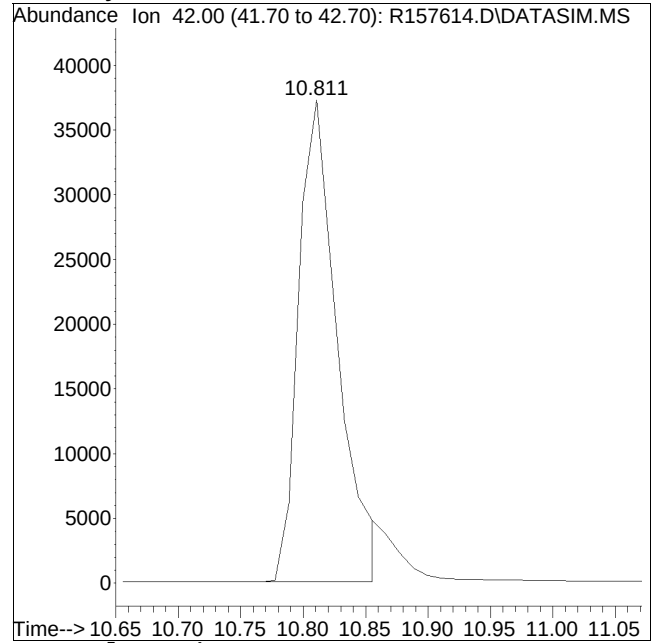
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157614.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 9:40 am Instrument : Air Piano 1
Sample : CT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 86553



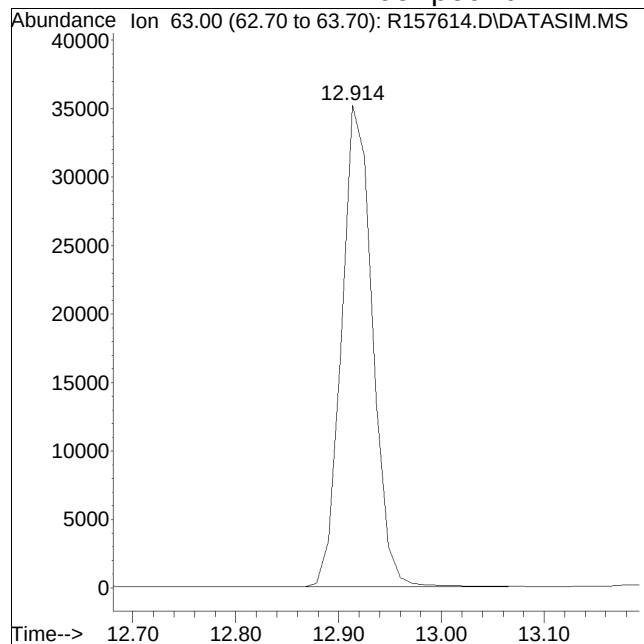
Manual Peak Response = 80819 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

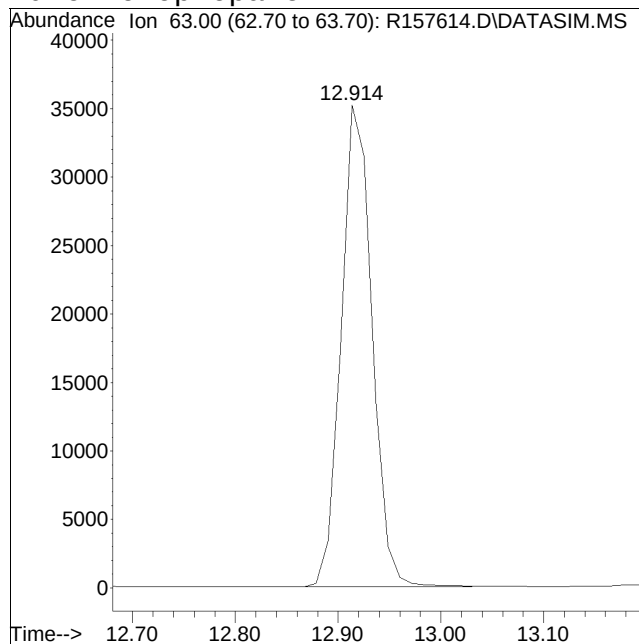
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157614.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 9:40 am Instrument : Air Piano 1
Sample : CT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #41: 1,2-dichloropropane



Original Peak Response = 73519

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

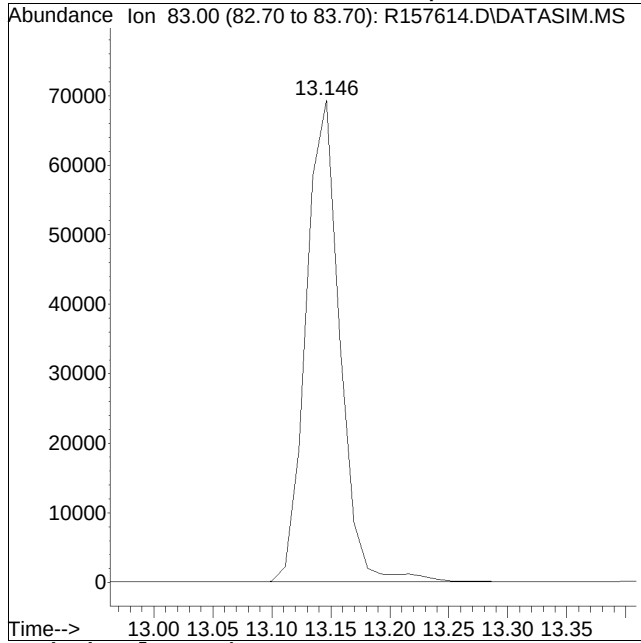


Manual Peak Response = 73392 M6

Manual Integration/Negative Proof Report

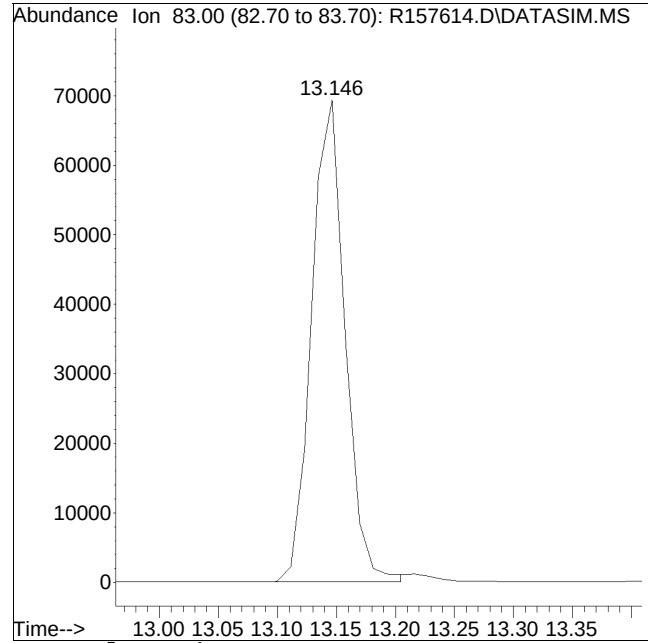
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Data File : R157614.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 9:40 am Instrument : Air Piano 1
Sample : CT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #42: bromodichloromethane



Original Peak Response = 138709

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

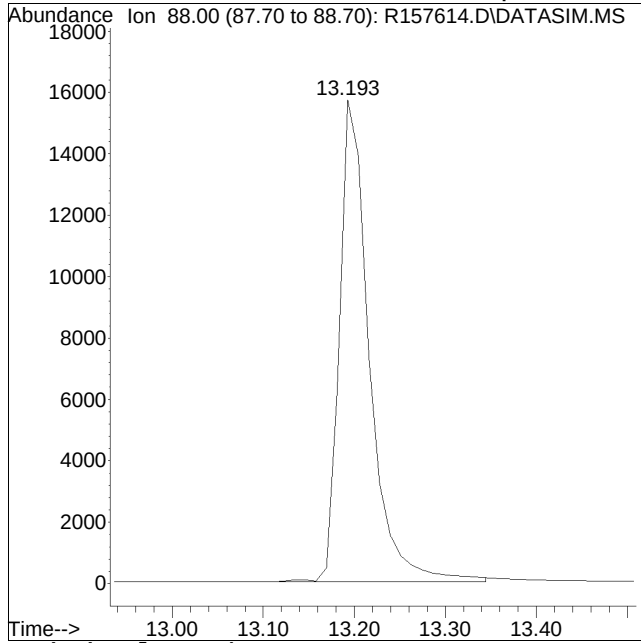


Manual Peak Response = 136731 M6

Manual Integration/Negative Proof Report

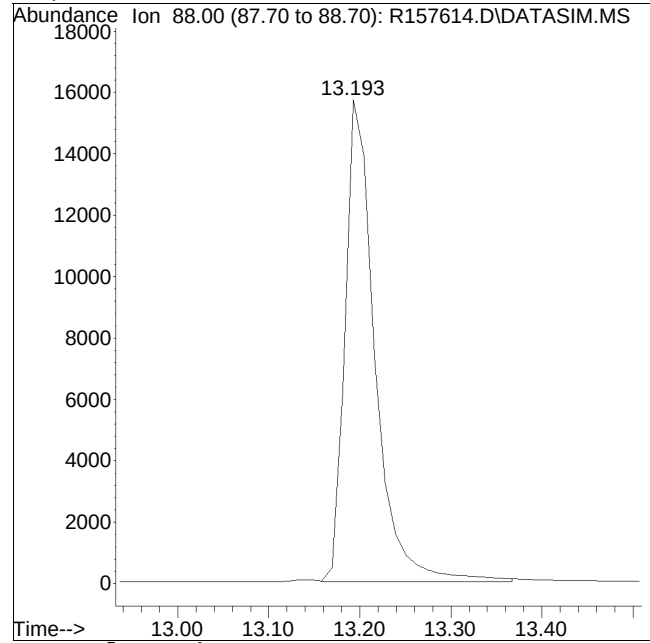
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Data File : R157614.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 9:40 am Instrument : Air Piano 1
Sample : CT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #43: 1,4-dioxane



Original Peak Response = 36005

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

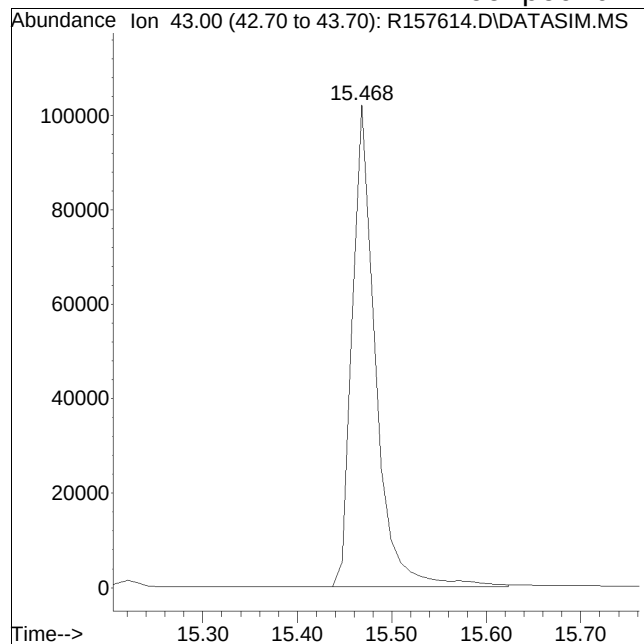


Manual Peak Response = 36035 M6

Manual Integration/Negative Proof Report

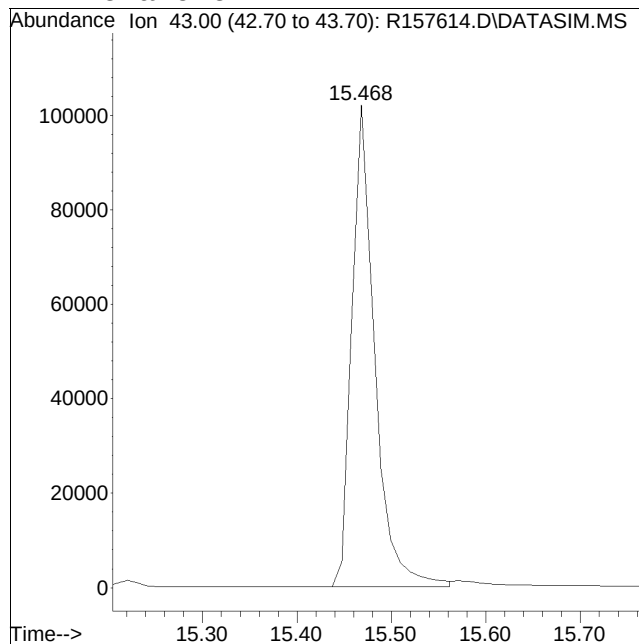
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157614.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 9:40 am Instrument : Air Piano 1
Sample : CT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #54: 2-hexanone



Original Peak Response = 175517

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

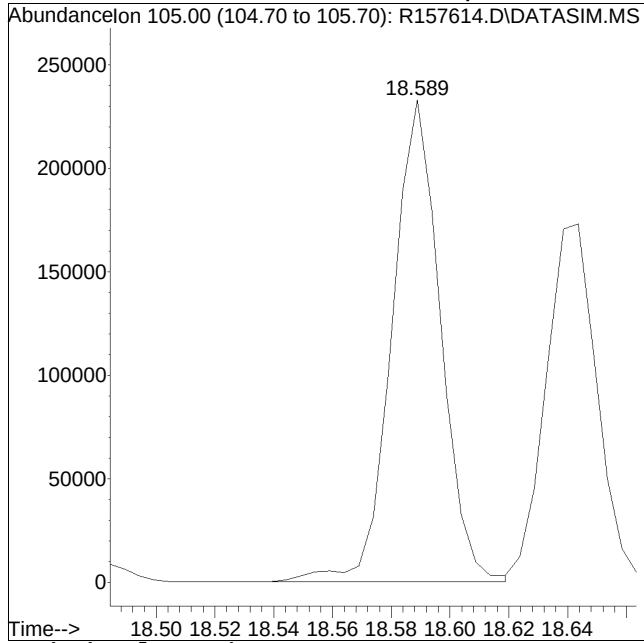


Manual Peak Response = 172221 M6

Manual Integration/Negative Proof Report

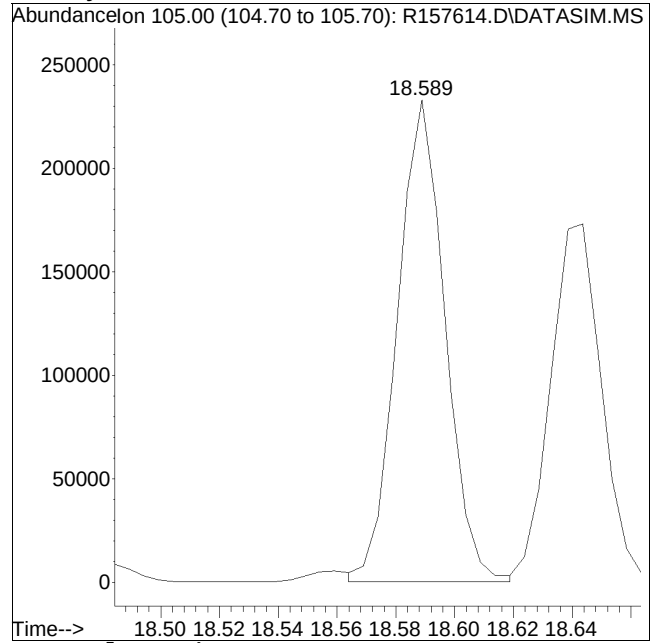
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R157614.D Operator : AIRPIAN01:MB
Date Inj'd : 2/27/2018 9:40 am Instrument : Air Piano 1
Sample : CT015-SIMSTD5.0 Quant Date : 2/27/2018 12:45 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 268157

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 262441 M6

Response Factor Report

Method Path : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\
Method File : TSIM180404.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Thu Apr 05 10:02:48 2018
Response Via : Initial Calibration

Calibration Files

0.02=r156844_Ev2.D 0.04=r156845_Ev2.D 0.1 =r156846_Ev2.D 0.2 =r156847_Ev2.D 0.5 =r156848_Ev2.D
1.0 =r156849_Ev2.D 5.0 =r156850_Ev2.D 10.0=r156851_Ev2.D 20.0=r156852_Ev2.D 50.0=r156853_Ev2.D

Compound		0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
-----ISTD-----													
1) I	bromochloromethane												
2)	propylene			0.808	0.869	0.806	0.793	0.724	0.715	0.699	0.530	0.7430	13.93
3)	dichlorodifluorome...	1.557	1.386	1.305	1.523	1.414	1.388	1.279	1.301	1.288	0.993	1.3434	11.64
4) C	chloromethane		0.849	0.762	0.885	0.822	0.801	0.755	0.857	0.856	0.676	0.8071	8.18
5)	Freon-114	1.648	1.616	1.558	1.797	1.699	1.653	1.530	1.667	1.727	1.379	1.6274	7.18
6) C	vinyl chloride	0.903	0.830	0.762	0.893	0.832	0.817	0.757	0.784	0.794	0.660	0.8033	8.74
7) C	1,3-butadiene	0.685	0.711	0.585	0.698	0.645	0.636	0.601	0.662	0.699	0.572	0.6493	7.73
8) C	bromomethane	0.576	0.784	0.638	0.751	0.690	0.665	0.621	0.621	0.648	0.544	0.6537	11.23
9) C	chloroethane	0.579	0.418	0.351	0.463	0.424	0.423	0.272	0.400	0.419	0.347	0.4096	19.70
10)	ethanol					0.706	0.655	0.613	0.604	0.644	0.514	0.6226	10.33
11) C	vinyl bromide	0.831	0.705	0.619	0.704	0.667	0.642	0.609	0.613	0.636	0.515	0.6543	12.63
12)	acrolein	0.658	0.456	0.304	0.384	0.349	0.321	0.317	0.321	0.352	0.305	0.3769	28.96
13)	acetone				1.303	1.169	1.073	0.904	0.855	0.842	0.599	0.9634	24.41
14)	trichlorofluoromet...	1.369	1.345	1.251	1.473	1.401	1.335	1.237	1.176	1.099	0.850	1.2536	14.36
15)	isopropyl alcohol				2.101	1.512	1.294	1.143	1.062	1.150	0.865	1.3039	30.99#
16) C	acrylonitrile	0.677	0.650	0.522	0.656	0.616	0.605	0.595	0.598	0.656	0.565	0.6141	7.75
17) C	1,1-dichloroethene	1.155	1.090	1.083	1.252	1.168	1.131	1.056	1.013	1.006	0.830	1.0783	10.64
18)	tertiary butyl alc...	1.497	1.409	1.232	1.344	1.203	1.107	1.140	1.054	1.164	0.995	1.2145	13.12
19) C	methylene chloride					1.108	1.078	0.998	0.977	1.015	0.827	1.0003	9.86
20) C	3-chloropropene				1.297	1.238	1.231	1.377	1.130	1.102	0.869	1.1776	14.03
21) C	carbon disulfide				2.189	2.112	2.077	2.047	2.062	2.195	1.846	2.0754	5.65
22)	Freon 113	1.565	1.338	1.307	1.508	1.386	1.367	1.258	1.222	1.226	1.021	1.3199	11.68
23)	trans-1,2-dichloro...	1.159	1.079	1.016	1.247	1.170	1.137	1.068	1.027	1.021	0.847	1.0771	10.27
24) C	1,1-dichloroethane	1.591	1.332	1.388	1.641	1.457	1.431	1.325	1.289	1.256	1.015	1.3725	12.91
25) C	MTBE	1.922	1.867	1.662	1.927	2.006	1.922	1.805	1.765	1.781	1.401	1.8056	9.63
26) C	vinyl acetate			1.835	2.004	2.049	2.037	1.825	2.106	1.780	1.388	1.8779	12.35
27) C	2-butanone				2.192	2.075	2.010	1.786	1.904	1.957	1.243	1.8809	16.43
28)	cis-1,2-dichloroet...	1.132	1.060	0.966	1.160	1.086	1.100	1.031	1.011	1.016	0.844	1.0408	8.74
29)	Ethyl Acetate				0.295	0.281	0.268	0.263	0.256	0.267	0.239	0.2669	6.75
30) C	chloroform	1.452	1.244	1.201	1.399	1.333	1.325	1.242	1.202	1.217	1.032	1.2646	9.39
31)	Tetrahydrofuran			1.110	1.281	1.238	1.220	1.202	1.192	1.224	1.037	1.1880	6.55

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
Method File : TSIM180404.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Thu Apr 05 10:02:48 2018
Response Via : Initial Calibration

Calibration Files

0.02=r156844_Ev2.D 0.04=r156845_Ev2.D 0.1 =r156846_Ev2.D 0.2 =r156847_Ev2.D 0.5 =r156848_Ev2.D
1.0 =r156849_Ev2.D 5.0 =r156850_Ev2.D 10.0=r156851_Ev2.D 20.0=r156852_Ev2.D 50.0=r156853_Ev2.D

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
32) C	1,2-dichloroethane	1.016	0.995	0.917	1.063	0.988	0.956	0.893	0.853	0.831	0.649	0.9160	12.99
33) I	1,4-difluorobenzene	-----ISTD-----											
34) C	hexane			0.595	0.658	0.635	0.649	0.622	0.608	0.622	0.534	0.6154	6.30
35) s	1,2-dichloroethane-D4	0.273	0.278	0.272	0.275	0.272	0.274	0.272	0.267	0.249	0.204	0.2634	8.53
36) C	1,1,1-trichloroethane	0.530	0.395	0.380	0.509	0.538	0.560	0.491	0.547	0.554	0.433	0.4937	13.66
37) C	benzene		1.163	1.106	1.257	1.172	1.187	1.118	1.109	1.175	1.053	1.1490	5.15
38) C	carbon tetrachloride	0.510	0.471	0.424	0.483	0.469	0.472	0.456	0.457	0.470	0.387	0.4598	7.29
39)	cyclohexane	0.606	0.645	0.617	0.663	0.657	0.678	0.651	0.638	0.672	0.594	0.6421	4.44
40)	Dibromomethane	0.556	0.493	0.385	0.408	0.373	0.373	0.351	0.343	0.353	0.300	0.3935	19.32
41) C	1,2-dichloropropane	0.448	0.512	0.452	0.507	0.493	0.474	0.450	0.439	0.453	0.383	0.4611	8.20
42)	bromodichloromethane	0.523	0.483	0.553	0.600	0.589	0.595	0.599	0.603	0.632	0.538	0.5715	8.01
43) C	1,4-dioxane		0.246	0.199	0.269	0.230	0.233	0.233	0.225	0.253	0.232	0.2357	8.26
44) C	trichloroethene	0.547	0.419	0.428	0.472	0.445	0.428	0.419	0.423	0.445	0.401	0.4427	9.35
45) C	2,2,4-trimethylpen...	2.055	1.938	1.857	2.229	2.132	2.115	2.023	1.991	2.072	1.801	2.0212	6.41
46)	heptane	1.042	0.983	0.869	1.021	1.013	1.027	0.983	0.973	1.000	0.808	0.9718	7.71
47) C	cis-1,3-dichloropr...	0.527	0.478	0.438	0.524	0.512	0.532	0.555	0.574	0.626	0.549	0.5315	9.61
48) C	4-methyl-2-pentanone	0.976	0.912	0.903	1.087	1.077	1.139	1.101	1.119	1.169	0.928	1.0412	9.71
49)	trans-1,3-dichloro...	0.486	0.378	0.403	0.487	0.463	0.502	0.523	0.544	0.591	0.516	0.4893	12.90
50) C	1,1,2-trichloroethane	0.506	0.431	0.406	0.451	0.421	0.429	0.414	0.411	0.436	0.382	0.4289	7.71
51) I	chlorobenzene-D5	-----ISTD-----											
52) C	toluene	7.240	6.641	6.015	7.047	6.683	6.547	6.218	6.171	6.338	5.938	6.4839	6.63
53) s	toluene-D8	4.517	4.452	4.493	4.556	4.540	4.397	4.416	4.383	4.476	4.541	4.4772	1.40
54)	2-hexanone	4.011	3.838	4.141	4.778	4.939	5.055	5.184	5.008	5.071	4.377	4.6402	10.79
55)	dibromochloromethane	1.872	2.386	2.066	2.461	2.397	2.429	2.522	2.602	2.762	2.556	2.4052	10.78
56) C	1,2-dibromoethane	3.514	3.034	2.691	3.116	3.003	2.991	2.906	2.981	3.182	2.999	3.0416	6.92
57) C	tetrachloroethene	2.041	2.372	2.131	2.473	2.263	2.267	2.161	2.137	2.277	2.219	2.2341	5.65
58)	1,1,1,2-tetrachlor...	2.271	1.484	1.670	2.071	1.929	1.930	1.946	1.991	2.100	1.961	1.9354	11.38
59) C	chlorobenzene	5.412	4.682	4.403	5.200	4.895	4.889	4.655	4.709	5.052	4.788	4.8685	6.01
60) C	ethylbenzene	7.471	7.246	6.861	8.294	8.011	8.115	8.039	8.033	8.300	7.510	7.7880	6.25
61) C	m+p-xylene	6.131	5.866	5.663	7.030	6.800	6.820	6.589	6.678	6.751	5.973	6.4300	7.41

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
Method File : TSIM180404.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Thu Apr 05 10:02:48 2018
Response Via : Initial Calibration

Calibration Files

0.02=r156844_Ev2.D 0.04=r156845_Ev2.D 0.1 =r156846_Ev2.D 0.2 =r156847_Ev2.D 0.5 =r156848_Ev2.D
1.0 =r156849_Ev2.D 5.0 =r156850_Ev2.D 10.0=r156851_Ev2.D 20.0=r156852_Ev2.D 50.0=r156853_Ev2.D

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
62) C	bromoform	2.183	1.502	1.471	1.790	1.757	1.803	1.999	2.124	2.294	2.193	1.9116	15.25
63) C	styrene	4.632	4.100	4.100	4.869	4.890	4.928	5.141	5.345	5.709	5.239	4.8954	10.50
64) C	1,1,2,2-tetrachlor...	4.445	4.065	3.970	4.811	4.698	4.624	4.685	4.730	5.017	4.491	4.5535	7.14
65) C	o-xylene	6.451	5.722	5.700	6.990	6.798	6.881	6.866	6.790	6.944	5.996	6.5138	7.91
66)	1,2,3-Trichloropro...	3.718	3.647	3.382	4.047	3.858	3.718	3.667	3.781	3.962	3.592	3.7371	5.08
67) s	bromofluorobenzene	1.378	2.084	1.991	2.343	2.457	2.370	2.451	2.743	2.443	2.532	2.2791	16.75
68) C	isopropylbenzene	7.870	7.232	6.924	8.500	8.201	8.169	8.379	8.457	8.756	7.726	8.0215	7.29
69)	Bromobenzene	5.120	4.447	4.061	4.831	4.585	4.540	4.683	4.790	5.066	4.539	4.6661	6.63
70)	4-ethyl toluene	7.542	6.983	7.146	8.994	8.843	8.928	9.376	9.570	9.800	8.592	8.5774	11.75
71)	1,3,5-trimethylben...	6.326	6.210	6.185	7.928	7.805	7.896	8.125	8.189	8.389	7.327	7.4379	11.73
72)	tert-butylbenzene				7.578	7.494	7.610	7.840	8.036	8.161	6.750	7.6383	6.06
73)	1,2,4-trimethylben...	5.829	6.002	5.907	7.573	7.574	7.735	8.039	8.223	8.368	6.843	7.2092	13.71
74) C	Benzyl Chloride	3.026	3.003	2.981	3.575	3.832	4.038	4.819	5.219	5.977	5.637	4.2107	26.84
75)	1,3-dichlorobenzene	3.993	3.998	4.031	4.853	4.813	4.698	4.992	5.227	5.519	4.893	4.7017	11.31
76) C	1,4-dichlorobenzene	4.144	4.127	3.894	4.727	4.610	4.640	4.914	5.191	5.391	4.848	4.6487	10.29
77)	sec-butylbenzene	0.907	0.830	0.849	1.068	1.044	1.074	1.151	1.151	1.160	0.992	1.0225	12.14
78)	p-isopropyltoluene	7.160	6.903	7.204	8.977	8.843	9.101	9.667	9.808	9.796	8.108	8.5567	13.27
79)	1,2-dichlorobenzene	3.798	3.923	3.752	4.443	4.390	4.443	4.777	4.967	5.168	4.624	4.4284	10.94
80)	n-butylbenzene	5.661	6.428	6.632	8.392	8.556	8.882	9.539	9.466	9.291	8.005	8.0852	17.08
81) C	1,2,4-trichloroben...		1.617	1.937	2.718	2.948	3.205	4.017	4.252	4.071	3.675	3.1600	29.89
82)	naphthalene		0.549	0.594	0.929	1.013	1.101	1.142	1.181	1.097	0.964	0.9523	24.25
83)	1,2,3-trichloroben...		2.159	2.085	2.698	2.837	3.060	3.809	3.973	3.637	3.312	3.0633	22.30
84) C	hexachlorobutadiene	2.245	2.203	2.247	2.730	2.679	2.767	3.359	3.400	3.009	2.697	2.7338	15.78

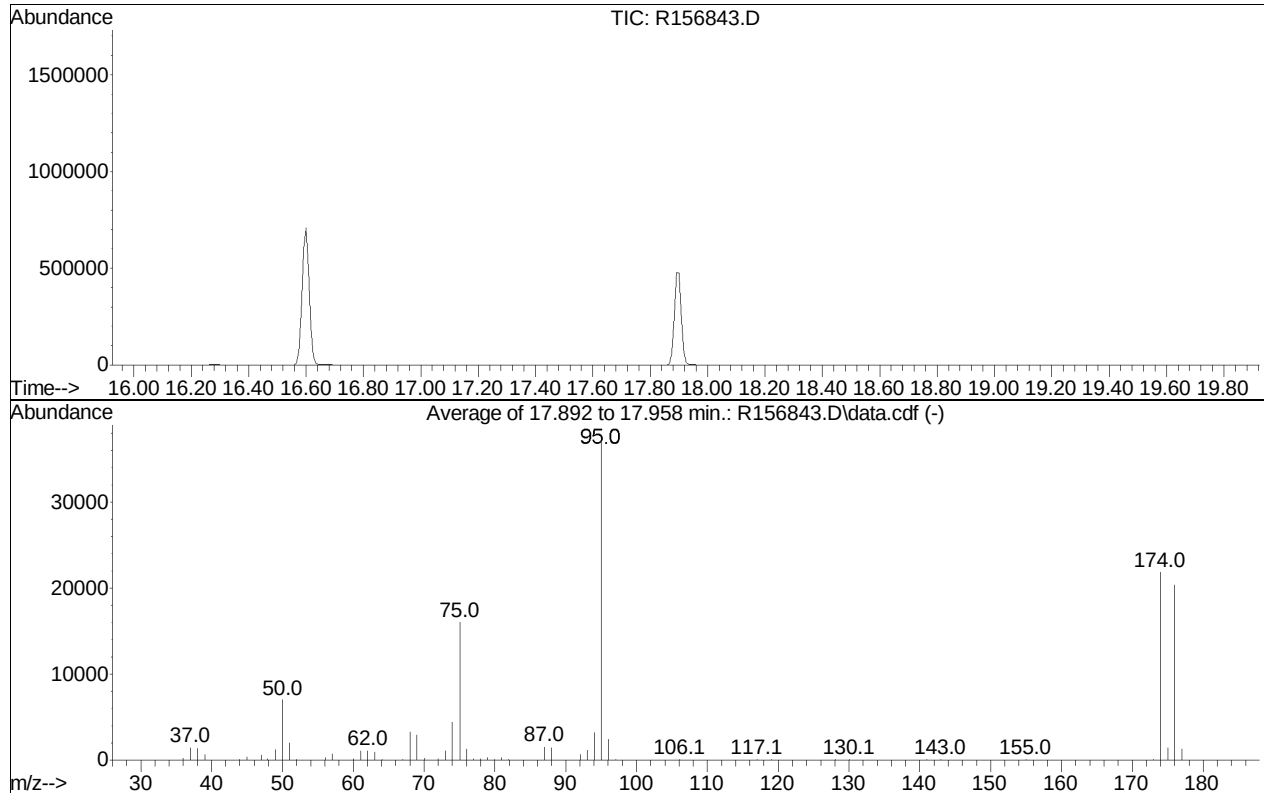
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : R156843.D
 Acq On : 4 Apr 2018 5:34 PM
 Operator : AIRLAB15:RY
 Sample : WG1103790-1,3,250,250
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Thu Apr 05 10:02:48 2018



Spectrum Information: Average of 17.892 to 17.958 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.9	7016	PASS
75	95	30	66	43.1	16016	PASS
95	95	100	100	100.0	37135	PASS
96	95	5	9	6.4	2386	PASS
173	174	0.00	2	0.5	109	PASS
174	95	50	120	58.8	21841	PASS
175	174	4	9	6.7	1458	PASS
176	174	93	101	93.4	20397	PASS
177	176	5	9	6.2	1270	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156844_Ev2.D
 Acq On : 4 Apr 2018 6:10 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.02
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 10:02:37 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.67	49	132911	10.000	ppbV	# 0.00
Standard Area = 133810			Recovery =		99.33%	
33) 1,4-difluorobenzene	11.94	114	272498	10.000	ppbV	0.01
Standard Area = 280369			Recovery =		97.19%	
51) chlorobenzene-D5	16.59	54	56352	10.000	ppbV	0.00
Standard Area = 59059			Recovery =		95.42%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.56	65	74380	10.047	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.47%	
53) toluene-D8	14.77	98	254561	10.228	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =		102.28%	
67) bromofluorobenzene	17.89	95	77661	5.623	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =		56.23%#	
Target Compounds						
					Qvalue	
2) propylene	3.91	41	301M6	0.031	ppbV	
3) dichlorodifluoromethane	3.99	85	414	0.024	ppbV	92
4) chloromethane	4.18	50	253	0.025	ppbV #	75
5) Freon-114	4.31	85	438	0.022	ppbV	95
6) vinyl chloride	4.45	62	240	0.024	ppbV #	71
7) 1,3-butadiene	4.62	54	182	0.023	ppbV #	71
8) bromomethane	4.95	94	153	0.019	ppbV	90
9) chloroethane	5.17	64	154	0.043	ppbV #	37
10) ethanol	5.37	31	3585	0.440	ppbV	98
11) vinyl bromide	5.63	106	221M2	0.027	ppbV	
12) acrolein	5.80	56	175M4	0.042	ppbV	
13) acetone	5.97	43	5209	0.434	ppbV #	98
14) trichlorofluoromethane	6.15	101	364	0.022	ppbV	98
15) isopropyl alcohol	6.30	45	5576	0.367	ppbV #	95
16) acrylonitrile	6.55	53	180M2	0.023	ppbV	
17) 1,1-dichloroethene	6.93	61	307	0.022	ppbV	88
18) tertiary butyl alcohol	7.06	59	398	0.026	ppbV #	1
19) methylene chloride	7.10	49	395	0.030	ppbV	100
20) 3-chloropropene	7.24	41	357	0.020	ppbV #	77
21) carbon disulfide	7.40	76	484	0.018	ppbV #	1
22) Freon 113	7.44	101	416	0.025	ppbV #	87
23) trans-1,2-dichloroethene	8.24	61	308	0.022	ppbV #	84
24) 1,1-dichloroethane	8.47	63	423	0.024	ppbV	90

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156844_Ev2.D
 Acq On : 4 Apr 2018 6:10 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.02
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 10:02:37 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.60	73	511	0.021	ppbV #	63
26) vinyl acetate	8.71	43	528	0.022	ppbV #	71
27) 2-butanone	9.00	43	689	0.029	ppbV #	91
28) cis-1,2-dichloroethene	9.47	61	301	0.022	ppbV	94
29) Ethyl Acetate	9.81	61	98	0.028	ppbV #	1
30) chloroform	9.83	83	386	0.023	ppbV #	82
31) Tetrahydrofuran	10.35	42	317	0.020	ppbV #	87
32) 1,2-dichloroethane	10.68	62	270	0.023	ppbV #	69
34) hexane	9.75	57	347	0.020	ppbV #	61
36) 1,1,1-trichloroethane	10.98	97	289	0.022	ppbV #	83
37) benzene	11.51	78	747	0.025	ppbV #	84
38) carbon tetrachloride	11.68	117	278	0.022	ppbV #	91
39) cyclohexane	11.82	56	330	0.019	ppbV	96
40) Dibromomethane	12.43	93	303M4	0.032	ppbV	
41) 1,2-dichloropropane	12.45	63	244	0.020	ppbV #	76
42) bromodichloromethane	12.69	83	285	0.017	ppbV #	89
43) 1,4-dioxane	0.00		0	N.D.		
44) trichloroethene	12.73	130	298M3	0.026	ppbV	
45) 2,2,4-trimethylpentane	12.79	57	1120	0.020	ppbV #	89
46) heptane	13.11	43	568	0.021	ppbV #	95
47) cis-1,3-dichloropropene	13.75	75	287	0.019	ppbV #	70
48) 4-methyl-2-pentanone	13.83	43	532	0.018	ppbV #	85
49) trans-1,3-dichloropropene	14.37	75	265	0.019	ppbV #	66
50) 1,1,2-trichloroethane	14.57	97	276	0.024	ppbV	94
52) toluene	14.88	91	816	0.023	ppbV	100
54) 2-hexanone	15.20	43	452	0.015	ppbV #	89
55) dibromochloromethane	15.32	129	211	0.015	ppbV #	87
56) 1,2-dibromoethane	15.57	107	396	0.024	ppbV	99
57) tetrachloroethene	16.01	166	230	0.019	ppbV	92
58) 1,1,1,2-tetrachloroethane	16.62	131	256	0.023	ppbV #	94
59) chlorobenzene	16.63	112	610	0.023	ppbV #	91
60) ethylbenzene	16.96	91	842	0.019	ppbV	99
61) m+p-xylene	17.12	91	1382	0.037	ppbV	98
62) bromoform	17.18	173	246	0.022	ppbV	97
63) styrene	17.43	104	522	0.018	ppbV	96
64) 1,1,2,2-tetrachloroethane	17.52	83	501	0.019	ppbV	95
65) o-xylene	17.51	91	727	0.019	ppbV	92
66) 1,2,3-Trichloropropane	17.63	75	419	0.020	ppbV #	46
68) isopropylbenzene	18.00	105	887	0.019	ppbV	96
69) Bromobenzene	18.07	77	577	0.022	ppbV #	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156844_Ev2.D
 Acq On : 4 Apr 2018 6:10 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.02
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 10:02:37 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.53	105	850	0.016	ppbV #	90
71) 1,3,5-trimethylbenzene	18.59	105	713	0.016	ppbV #	90
72) tert-butylbenzene	18.93	119	712	0.016	ppbV	96
73) 1,2,4-trimethylbenzene	18.93	105	657	0.015	ppbV	93
74) Benzyl Chloride	19.04	91	341M3	0.013	ppbV	
75) 1,3-dichlorobenzene	19.06	146	450	0.016	ppbV #	84
76) 1,4-dichlorobenzene	19.11	146	467	0.017	ppbV	97
77) sec-butylbenzene	19.13	105	1022	0.016	ppbV	100
78) p-isopropyltoluene	19.27	119	807	0.015	ppbV	96
79) 1,2-dichlorobenzene	19.39	146	428	0.016	ppbV #	89
80) n-butylbenzene	19.61	91	638	0.012	ppbV	98
81) 1,2,4-trichlorobenzene	20.94	180	211M4	0.009	ppbV	
82) naphthalene	21.08	128	568M4	0.009	ppbV	
83) 1,2,3-trichlorobenzene	21.32	180	231	0.011	ppbV #	74
84) hexachlorobutadiene	21.35	225	253	0.013	ppbV #	77

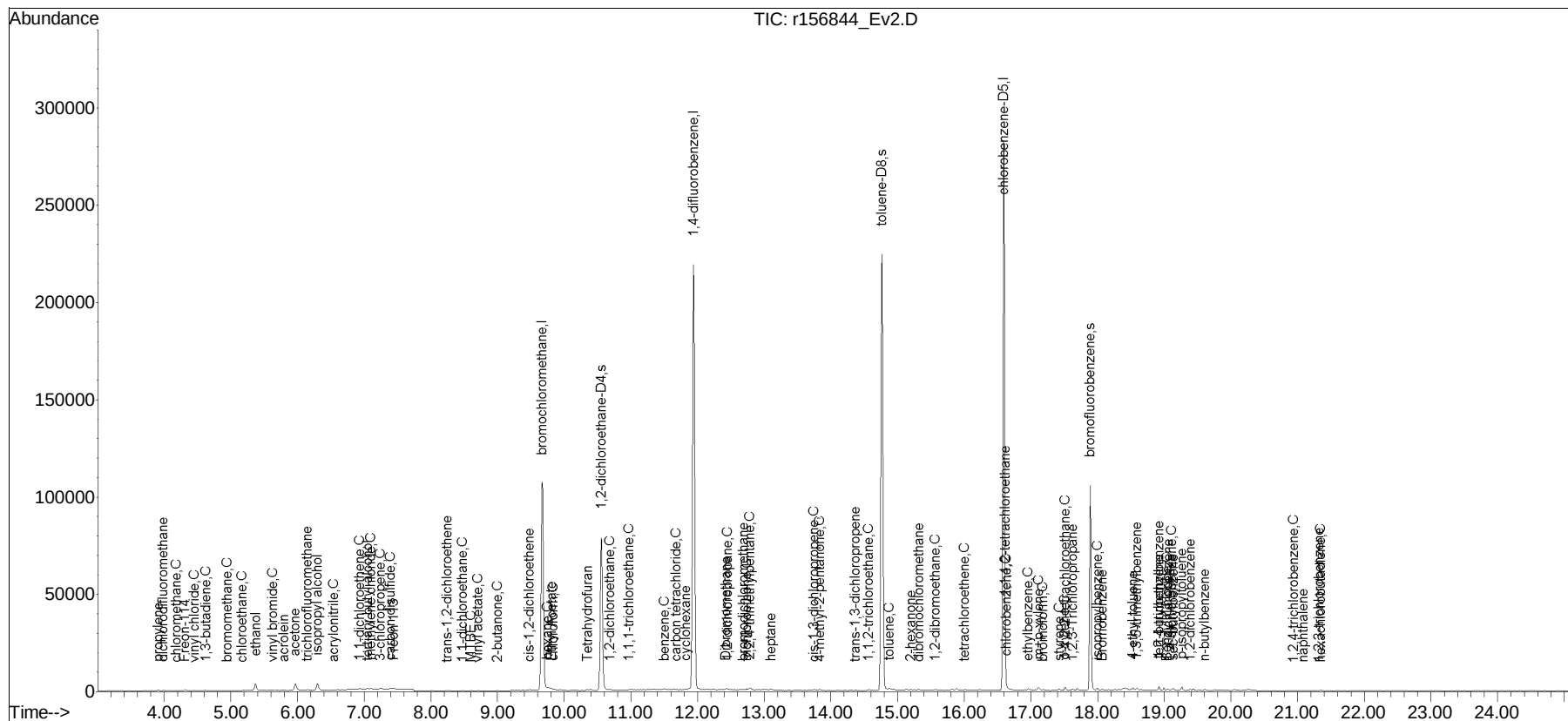
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path   : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\
Data File  : r156844_Ev2.D
Acq On     :  4 Apr 2018    6:10 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD0.02
Misc       : WG1103790
ALS Vial   : 0    Sample Multiplier: 1
```

Quant Time: Apr 05 10:02:37 2018
Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 05 09:48:29 2018
Response via : Initial Calibration

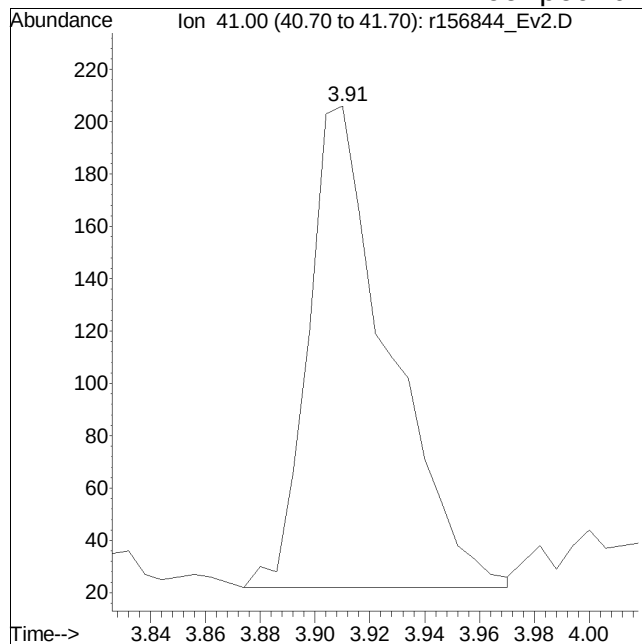
Sub List : Default - All compounds listed8\180404SIM_ICAL\r156850_Ev2.D



Manual Integration/Negative Proof Report

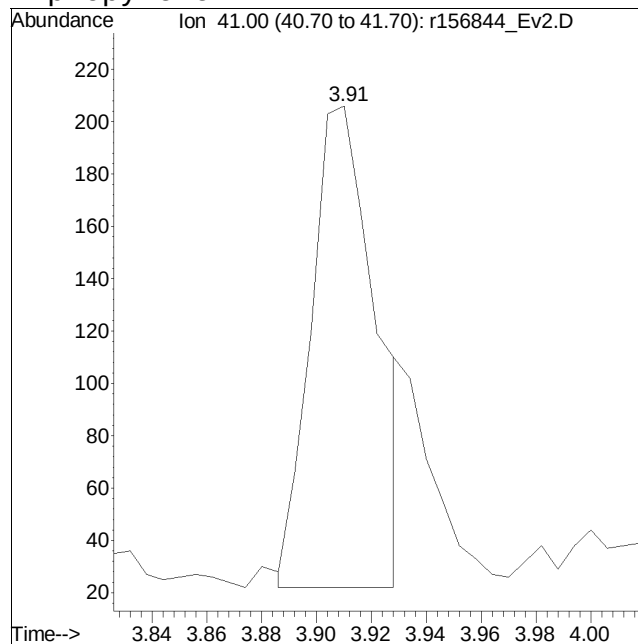
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM180404.M
Data File : r156844_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:10 PM Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 4/5/2018 9:48 am

Compound #2: propylene



Original Peak Response = 377

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

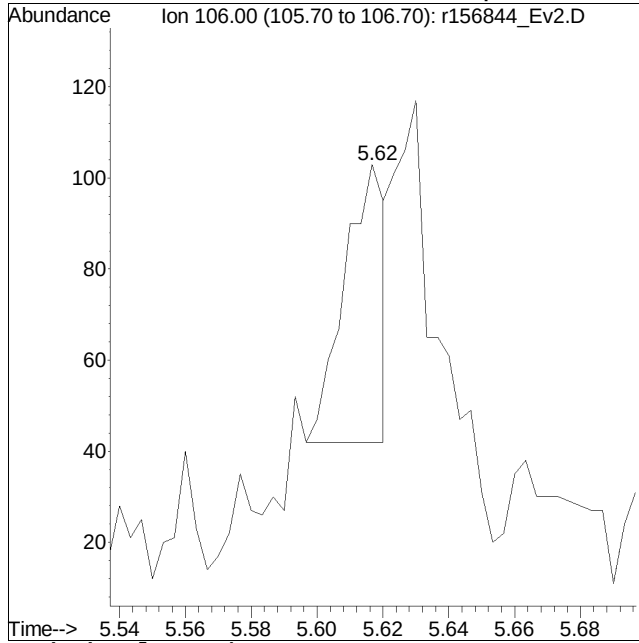


Manual Peak Response = 301 M6

Manual Integration/Negative Proof Report

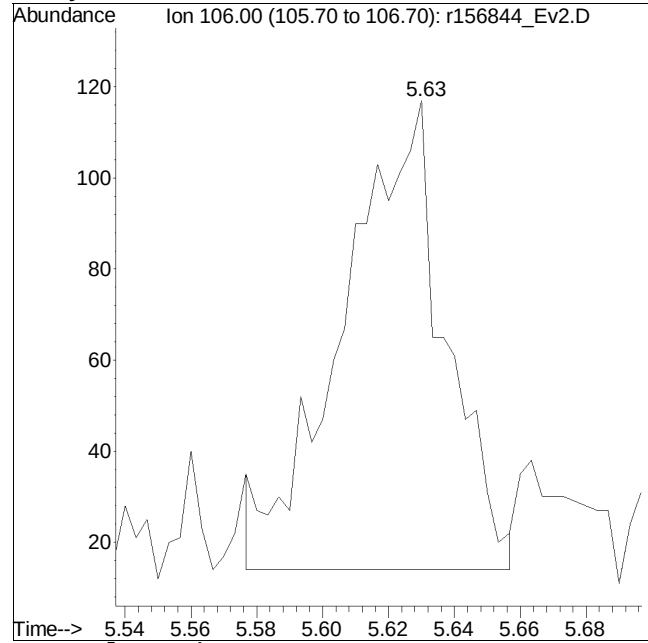
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156844_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:10 PM Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 4/5/2018 9:48 am

Compound #11: vinyl bromide



Original Peak Response = 52

M2 = Peak not found by automatic integration algorithm.

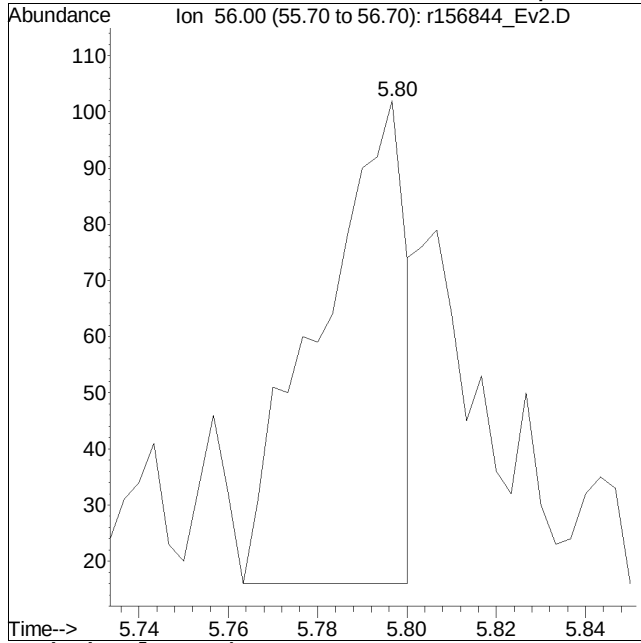


Manual Peak Response = 221 M2

Manual Integration/Negative Proof Report

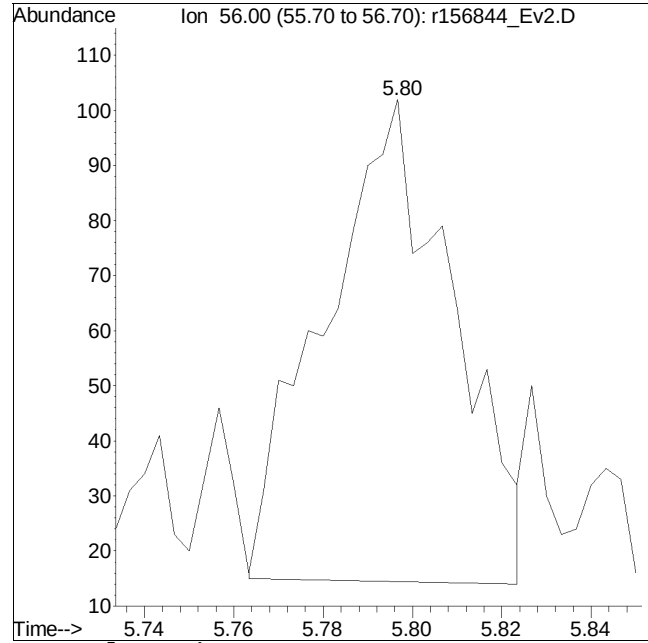
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156844_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:10 PM Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 4/5/2018 9:48 am

Compound #12: acrolein



Original Peak Response = 115

M4 = Poor automated baseline construction.

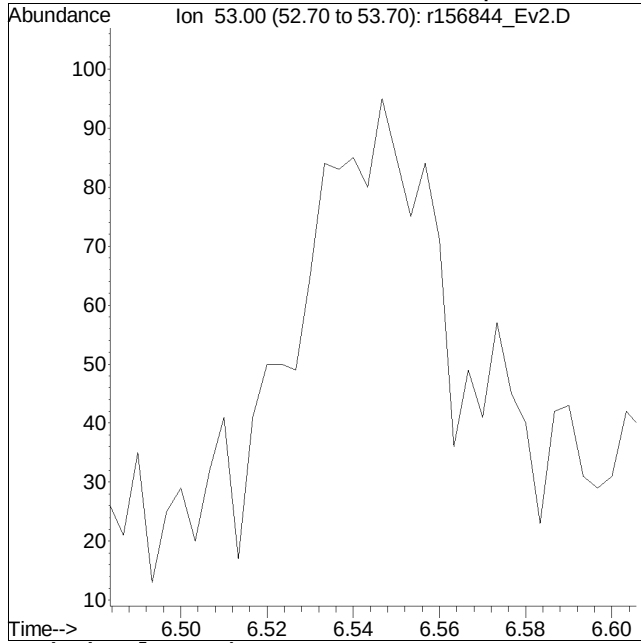


Manual Peak Response = 175 M4

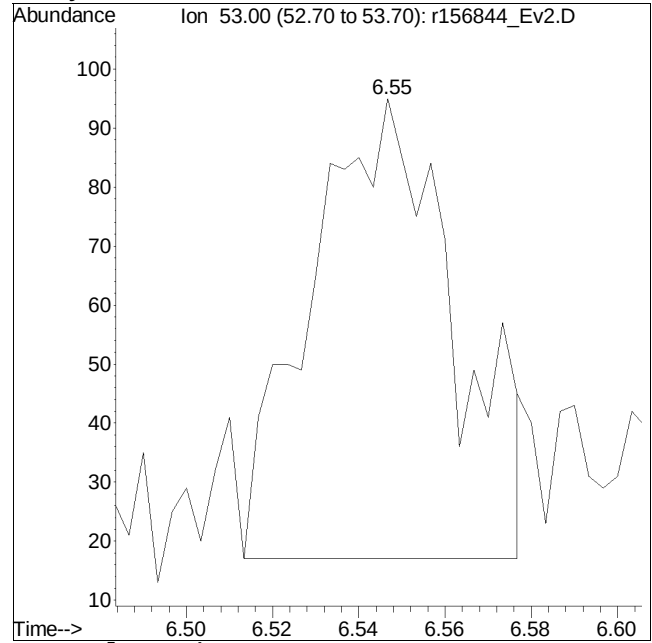
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156844_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:10 PM Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 4/5/2018 9:48 am

Compound #16: acrylonitrile



Original Peak Response = 0



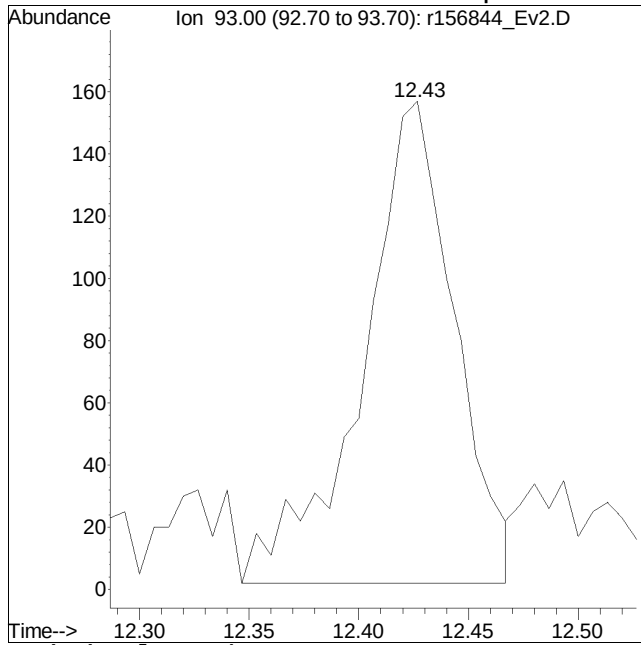
Manual Peak Response = 180 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

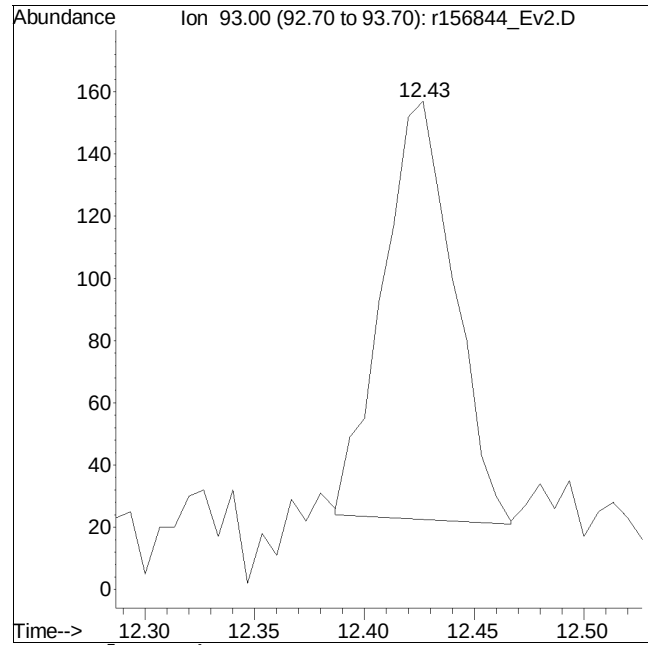
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156844_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:10 PM Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 4/5/2018 9:48 am

Compound #40: Dibromomethane



Original Peak Response = 451

M4 = Poor automated baseline construction.

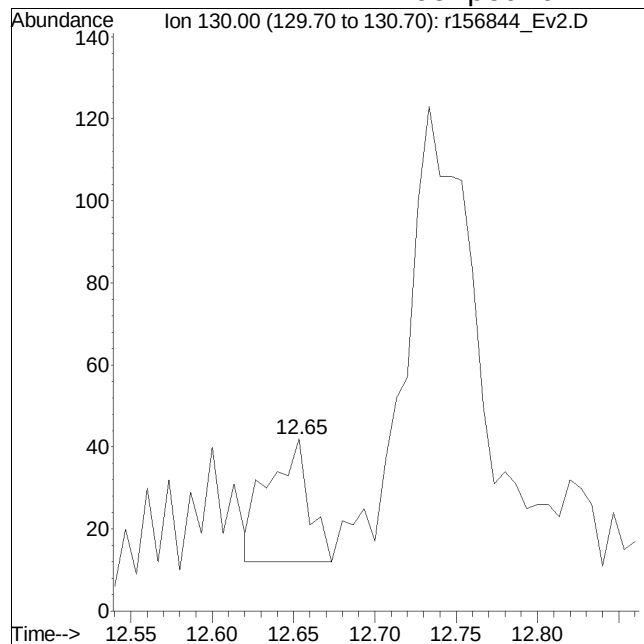


Manual Peak Response = 303 M4

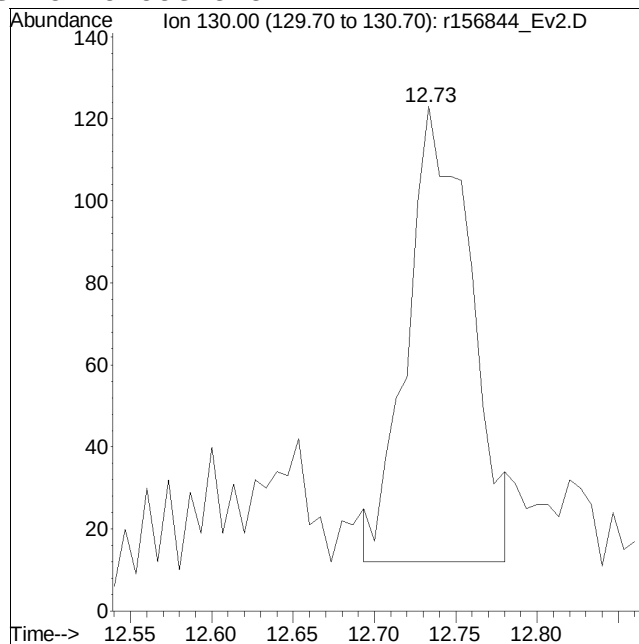
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156844_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:10 PM Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 4/5/2018 9:48 am

Compound #44: trichloroethene



Original Peak Response = 52



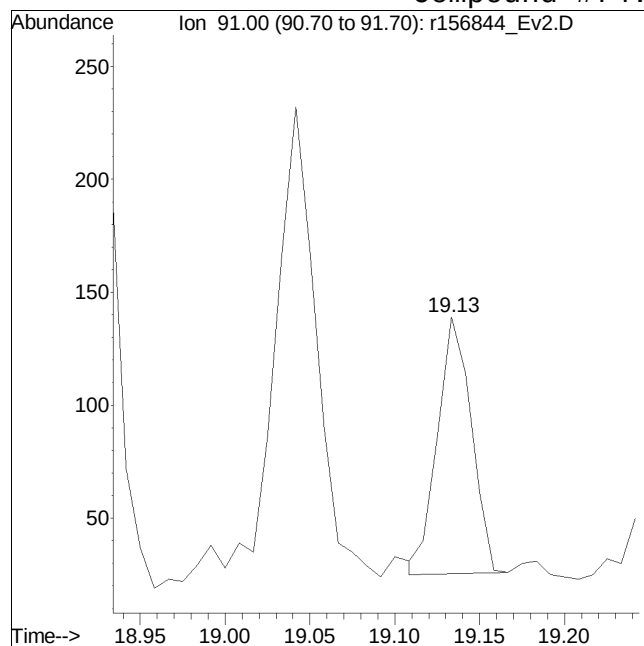
Manual Peak Response = 298 M3

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.

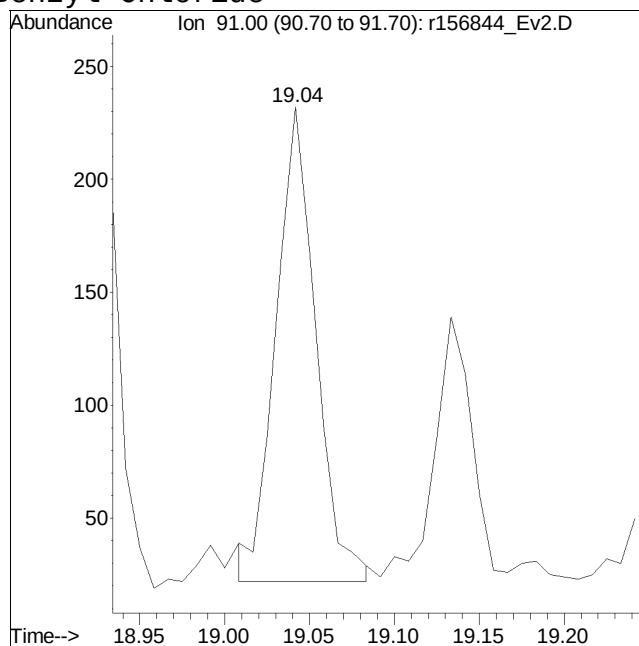
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156844_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 6:10 PM Instrument :
 Sample : IT015-SIMSTD0.02 Quant Date : 4/5/2018 9:48 am

Compound #74: Benzyl Chloride



Original Peak Response = 157



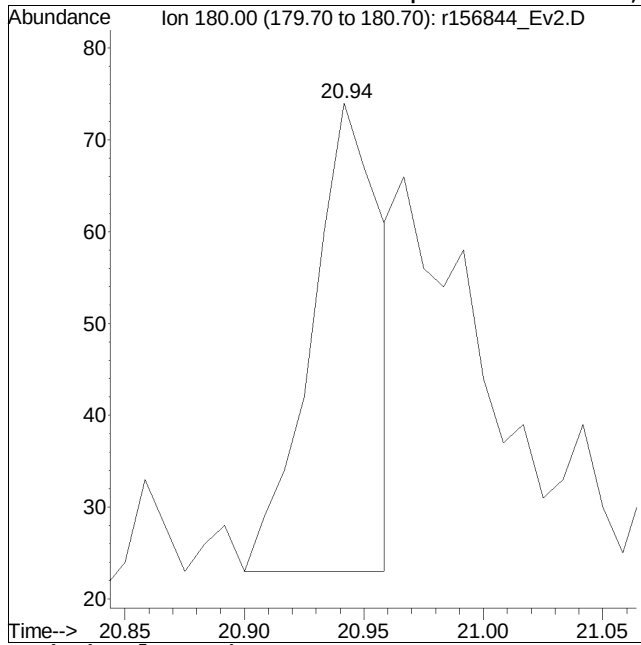
Manual Peak Response = 341 M3

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

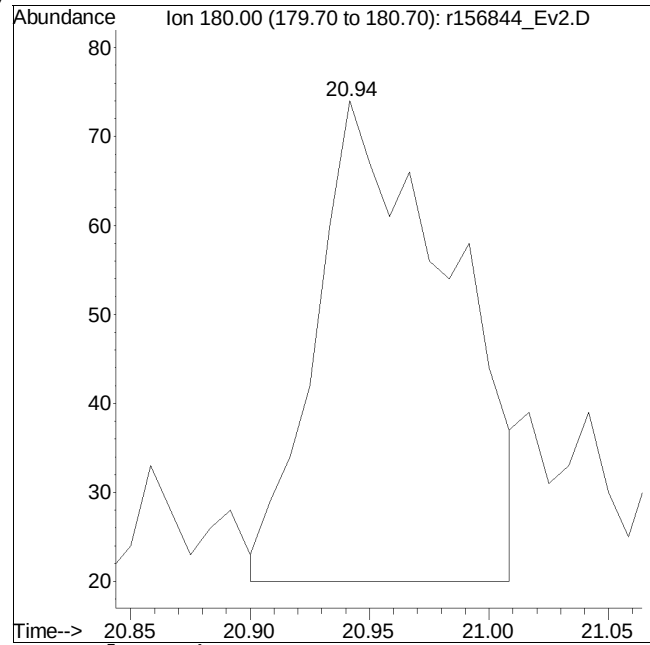
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156844_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:10 PM Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 4/5/2018 9:48 am

Compound #81: 1,2,4-trichlorobenzene



Original Peak Response = 103

M4 = Poor automated baseline construction.

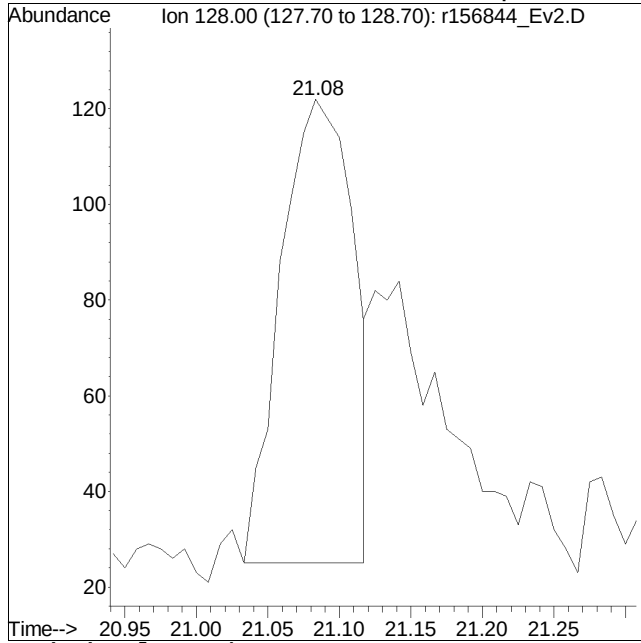


Manual Peak Response = 211 M4

Manual Integration/Negative Proof Report

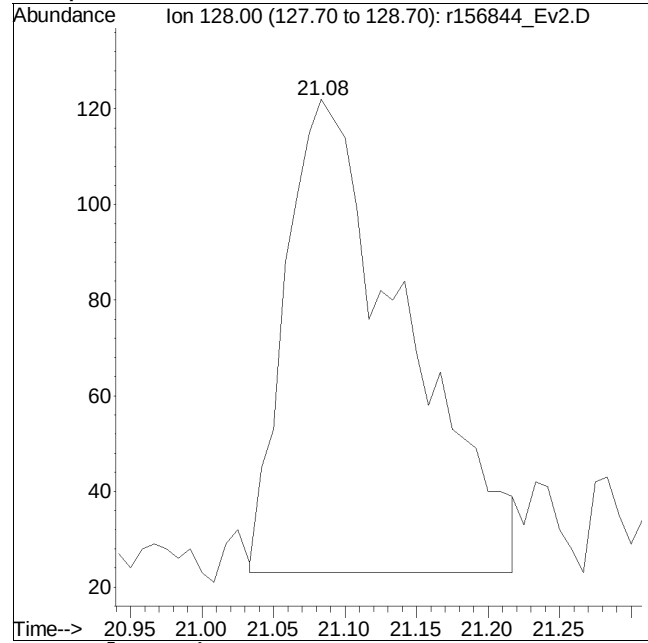
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156844_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:10 PM Instrument :
Sample : IT015-SIMSTD0.02 Quant Date : 4/5/2018 9:48 am

Compound #82: naphthalene



Original Peak Response = 341

M4 = Poor automated baseline construction.



Manual Peak Response = 568 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156845_Ev2.D
 Acq On : 4 Apr 2018 6:44 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.04
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:53:31 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.68	49	130449	10.000	ppbV	# 0.02
Standard Area = 133810			Recovery =		97.49%	
33) 1,4-difluorobenzene	11.94	114	270939	10.000	ppbV	0.01
Standard Area = 280369			Recovery =		96.64%	
51) chlorobenzene-D5	16.59	54	56276	10.000	ppbV	0.00
Standard Area = 59059			Recovery =		95.29%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.56	65	75262	10.224	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =		102.24%	
53) toluene-D8	14.77	98	250555	10.081	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.81%	
67) bromofluorobenzene	17.89	95	117268	8.503	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =		85.03%	
Target Compounds						
					Qvalue	
2) propylene	3.91	41	485M4	0.051	ppbV	
3) dichlorodifluoromethane	3.99	85	723	0.043	ppbV	94
4) chloromethane	4.18	50	443	0.045	ppbV	90
5) Freon-114	4.31	85	843	0.042	ppbV	96
6) vinyl chloride	4.45	62	433	0.044	ppbV #	85
7) 1,3-butadiene	4.62	54	371	0.047	ppbV	81
8) bromomethane	4.95	94	409	0.050	ppbV	98
9) chloroethane	5.17	64	218	0.061	ppbV #	84
10) ethanol	5.37	31	4126	0.516	ppbV	99
11) vinyl bromide	5.63	106	368M4	0.046	ppbV	
12) acrolein	5.80	56	238M4	0.058	ppbV	
13) acetone	5.97	43	5582	0.473	ppbV #	98
14) trichlorofluoromethane	6.16	101	702	0.043	ppbV	97
15) isopropyl alcohol	6.30	45	6214	0.417	ppbV #	96
16) acrylonitrile	6.55	53	339M4	0.044	ppbV	
17) 1,1-dichloroethene	6.94	61	569	0.041	ppbV #	83
18) tertiary butyl alcohol	7.05	59	735	0.049	ppbV #	1
19) methylene chloride	7.10	49	631	0.048	ppbV	95
20) 3-chloropropene	7.25	41	611	0.034	ppbV #	75
21) carbon disulfide	7.40	76	1014	0.038	ppbV #	1
22) Freon 113	7.45	101	698	0.043	ppbV #	94
23) trans-1,2-dichloroethene	8.25	61	563	0.040	ppbV #	88
24) 1,1-dichloroethane	8.48	63	695	0.040	ppbV	91

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156845_Ev2.D
 Acq On : 4 Apr 2018 6:44 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.04
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:53:31 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.60	73	974	0.041	ppbV #	70
26) vinyl acetate	8.72	43	923	0.039	ppbV #	84
27) 2-butanone	9.00	43	1150	0.049	ppbV #	95
28) cis-1,2-dichloroethene	9.48	61	553	0.041	ppbV #	80
29) Ethyl Acetate	9.82	61	150	0.044	ppbV #	9
30) chloroform	9.83	83	649	0.040	ppbV #	91
31) Tetrahydrofuran	10.35	42	538	0.034	ppbV #	84
32) 1,2-dichloroethane	10.68	62	519	0.045	ppbV #	81
34) hexane	9.76	57	696	0.041	ppbV #	73
36) 1,1,1-trichloroethane	10.98	97	428	0.032	ppbV #	83
37) benzene	11.51	78	1260	0.042	ppbV #	91
38) carbon tetrachloride	11.68	117	510	0.041	ppbV #	86
39) cyclohexane	11.82	56	699	0.040	ppbV	94
40) Dibromomethane	12.43	93	534	0.056	ppbV #	100
41) 1,2-dichloropropane	12.46	63	555	0.045	ppbV #	72
42) bromodichloromethane	12.69	83	523	0.032	ppbV #	78
43) 1,4-dioxane	12.81	88	267	0.042	ppbV #	80
44) trichloroethene	12.74	130	454	0.040	ppbV	91
45) 2,2,4-trimethylpentane	12.79	57	2100	0.038	ppbV #	90
46) heptane	13.10	43	1065	0.040	ppbV	96
47) cis-1,3-dichloropropene	13.75	75	518	0.034	ppbV #	83
48) 4-methyl-2-pentanone	13.82	43	988	0.033	ppbV #	87
49) trans-1,3-dichloropropene	14.38	75	410	0.029	ppbV #	76
50) 1,1,2-trichloroethane	14.57	97	467	0.042	ppbV	93
52) toluene	14.88	91	1495	0.043	ppbV	97
54) 2-hexanone	15.19	43	864	0.030	ppbV #	94
55) dibromochloromethane	15.32	129	537	0.038	ppbV #	96
56) 1,2-dibromoethane	15.56	107	683	0.042	ppbV	96
57) tetrachloroethene	16.02	166	534	0.044	ppbV	95
58) 1,1,1,2-tetrachloroethane	16.62	131	334	0.031	ppbV #	92
59) chlorobenzene	16.63	112	1054	0.040	ppbV	97
60) ethylbenzene	16.96	91	1631	0.036	ppbV	92
61) m+p-xylene	17.12	91	2641	0.071	ppbV	100
62) bromoform	17.18	173	338	0.030	ppbV	92
63) styrene	17.43	104	923	0.032	ppbV	94
64) 1,1,2,2-tetrachloroethane	17.51	83	915	0.035	ppbV	99
65) o-xylene	17.51	91	1288	0.033	ppbV	97
66) 1,2,3-Trichloropropane	17.62	75	821	0.040	ppbV #	62
68) isopropylbenzene	18.00	105	1628	0.035	ppbV	93
69) Bromobenzene	18.07	77	1001	0.038	ppbV #	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156845_Ev2.D
 Acq On : 4 Apr 2018 6:44 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.04
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:53:31 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.53	105	1572	0.030	ppbV #	96
71) 1,3,5-trimethylbenzene	18.59	105	1398	0.031	ppbV #	92
72) tert-butylbenzene	18.92	119	1380	0.031	ppbV	99
73) 1,2,4-trimethylbenzene	18.93	105	1351	0.030	ppbV	94
74) Benzyl Chloride	19.04	91	676	0.025	ppbV	92
75) 1,3-dichlorobenzene	19.05	146	900	0.032	ppbV #	85
76) 1,4-dichlorobenzene	19.11	146	929	0.034	ppbV	90
77) sec-butylbenzene	19.13	105	1868	0.029	ppbV	99
78) p-isopropyltoluene	19.26	119	1554	0.029	ppbV	98
79) 1,2-dichlorobenzene	19.38	146	883	0.033	ppbV	92
80) n-butylbenzene	19.61	91	1447	0.027	ppbV	94
81) 1,2,4-trichlorobenzene	20.91	180	364	0.016	ppbV #	77
82) naphthalene	21.07	128	1236M4	0.019	ppbV	
83) 1,2,3-trichlorobenzene	21.31	180	486	0.023	ppbV #	87
84) hexachlorobutadiene	21.35	225	496	0.026	ppbV #	88

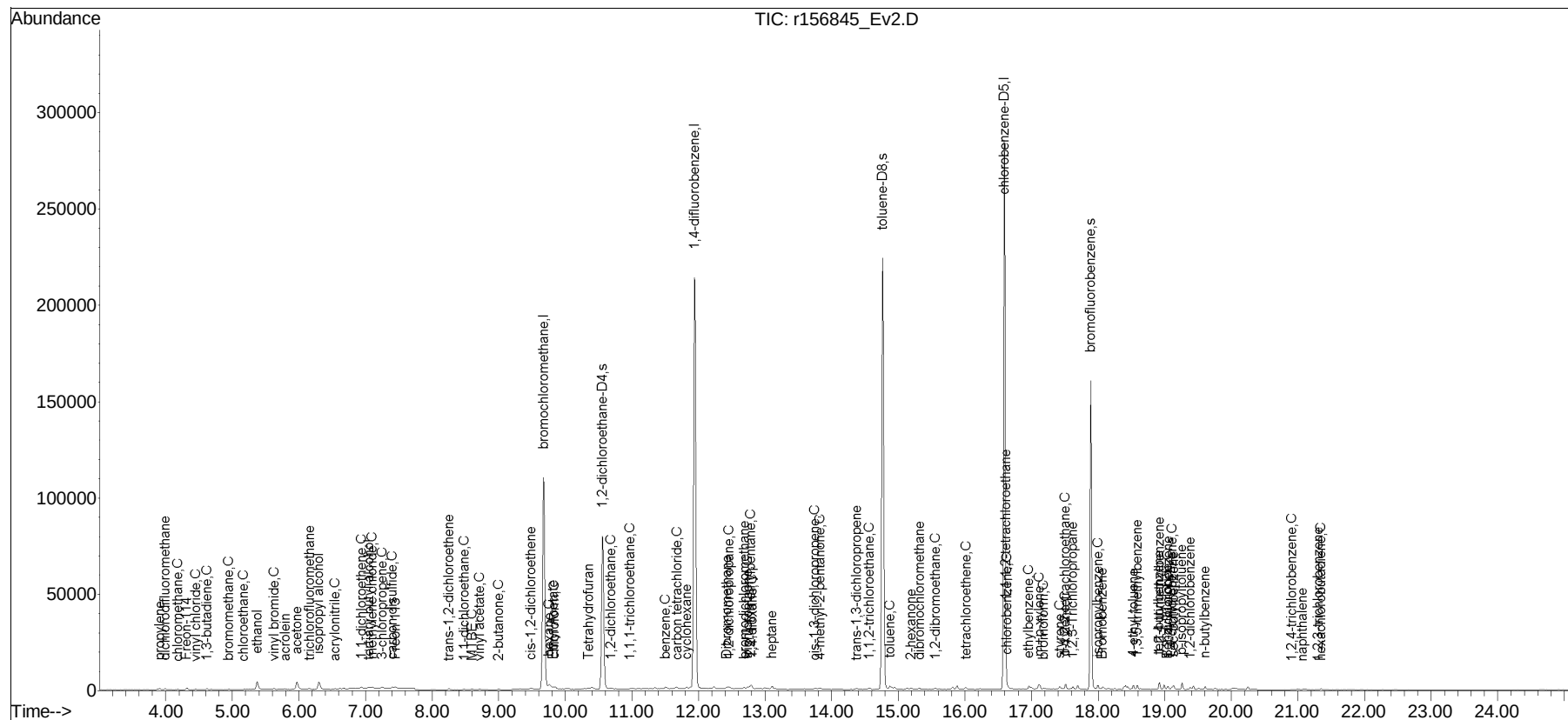
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\
 Data File : r156845_Ev2.D
 Acq On : 4 Apr 2018 6:44 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.04
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:53:31 2018
 Quant Method : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

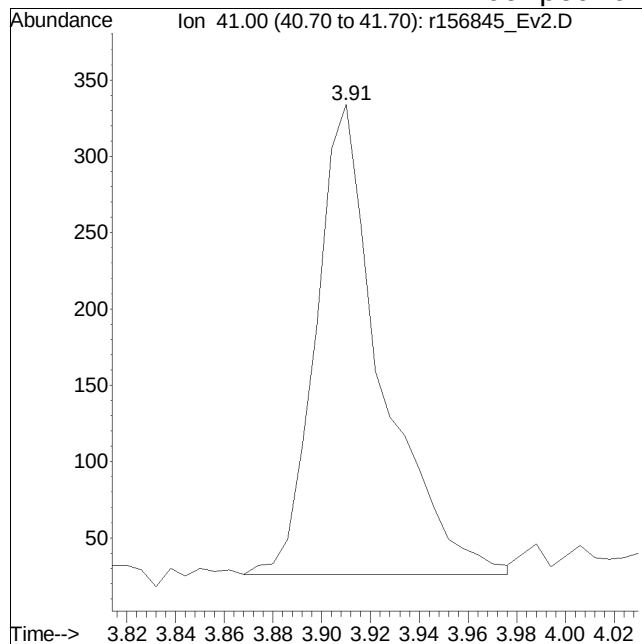
Sub List : Default - All compounds listed 8\180404SIM_ICAL\r156850_Ev2.D



Manual Integration/Negative Proof Report

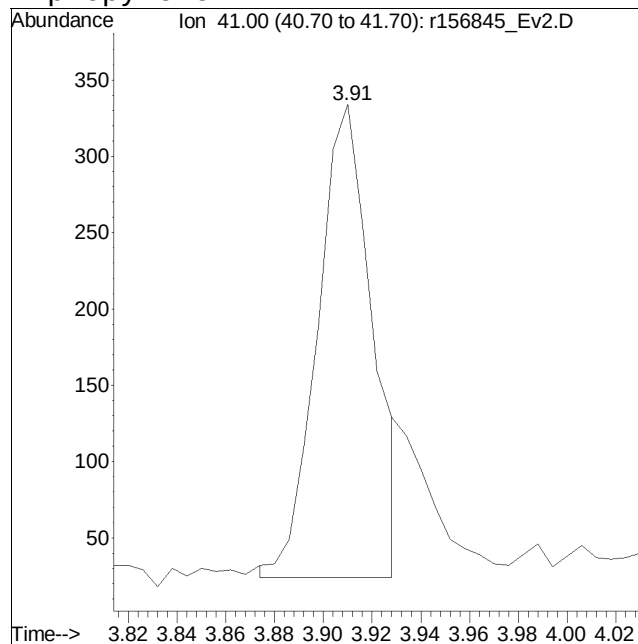
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156845_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:44 PM Instrument :
Sample : IT015-SIMSTD0.04 Quant Date : 4/5/2018 9:48 am

Compound #2: propylene



Original Peak Response = 578

M4 = Poor automated baseline construction.

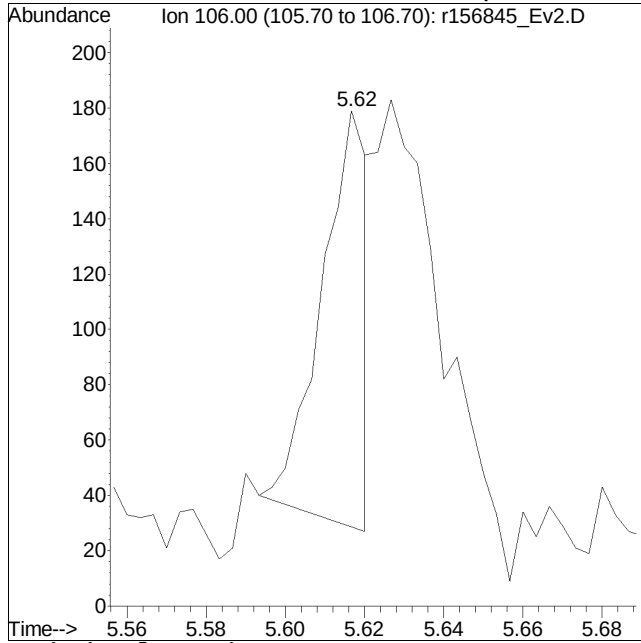


Manual Peak Response = 485 M4

Manual Integration/Negative Proof Report

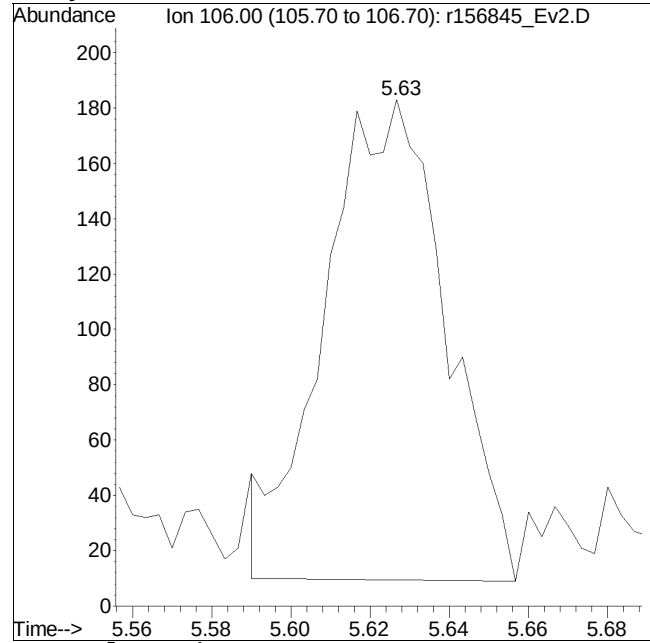
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156845_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:44 PM Instrument :
Sample : IT015-SIMSTD0.04 Quant Date : 4/5/2018 9:48 am

Compound #11: vinyl bromide



Original Peak Response = 118

M4 = Poor automated baseline construction.

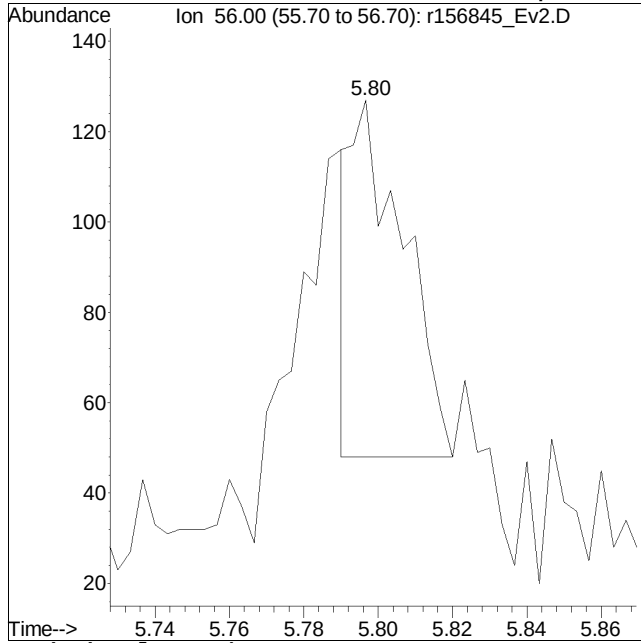


Manual Peak Response = 368 M4

Manual Integration/Negative Proof Report

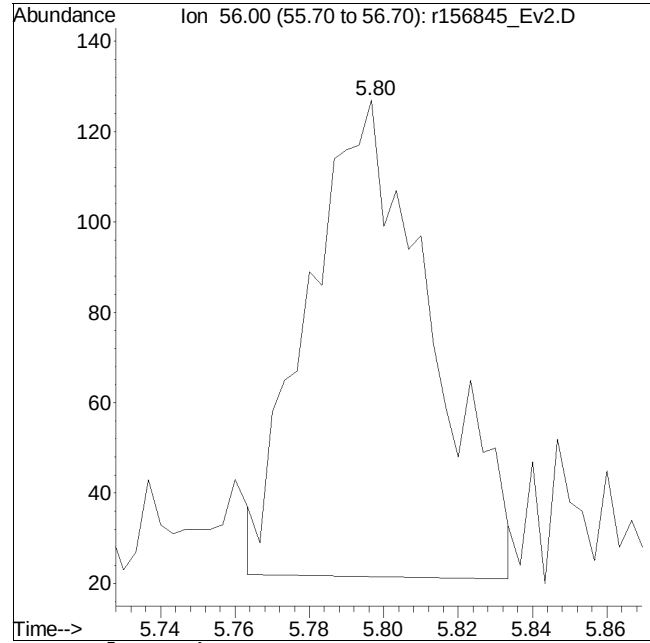
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156845_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:44 PM Instrument :
Sample : IT015-SIMSTD0.04 Quant Date : 4/5/2018 9:48 am

Compound #12: acrolein



Original Peak Response = 78

M4 = Poor automated baseline construction.

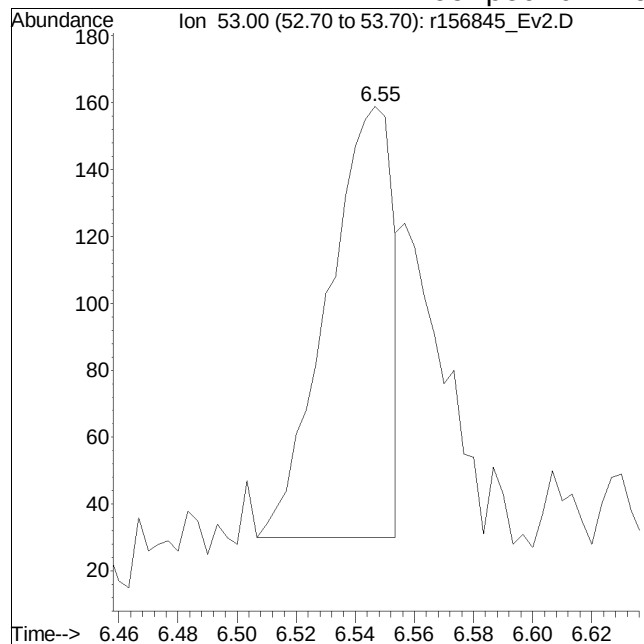


Manual Peak Response = 238 M4

Manual Integration/Negative Proof Report

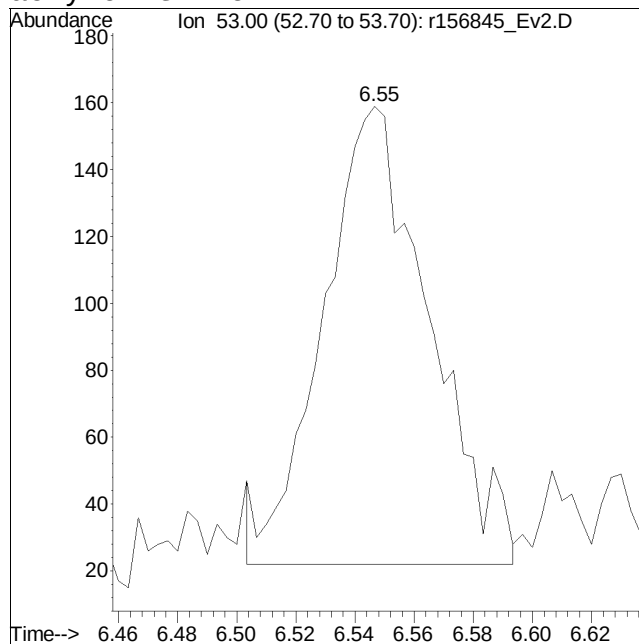
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156845_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:44 PM Instrument :
Sample : IT015-SIMSTD0.04 Quant Date : 4/5/2018 9:48 am

Compound #16: acrylonitrile



Original Peak Response = 198

M4 = Poor automated baseline construction.

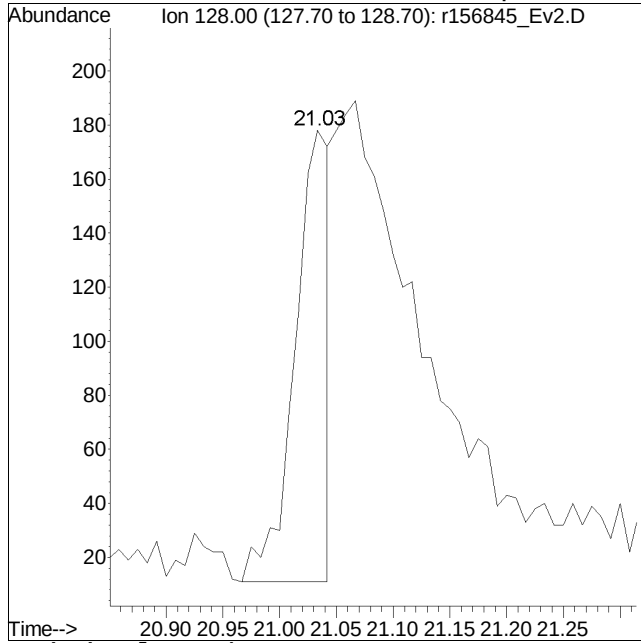


Manual Peak Response = 339 M4

Manual Integration/Negative Proof Report

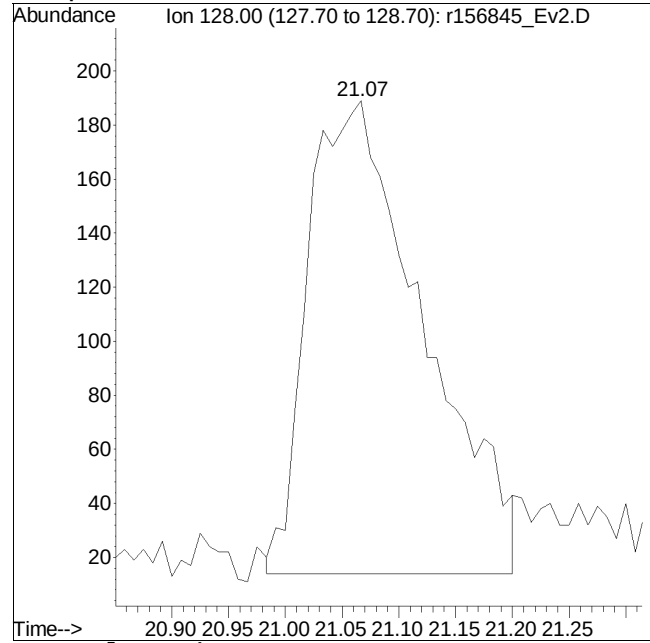
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156845_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 6:44 PM Instrument :
Sample : IT015-SIMSTD0.04 Quant Date : 4/5/2018 9:48 am

Compound #82: naphthalene



Original Peak Response = 352

M4 = Poor automated baseline construction.



Manual Peak Response = 1236 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156846_Ev2.D
 Acq On : 4 Apr 2018 7:21 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.1
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:54:32 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.67	49	130492	10.000	ppbV	# 0.00
Standard Area = 133810			Recovery =		97.52%	
33) 1,4-difluorobenzene	11.94	114	275136	10.000	ppbV	0.01
Standard Area = 280369			Recovery =		98.13%	
51) chlorobenzene-D5	16.59	54	56828	10.000	ppbV	0.00
Standard Area = 59059			Recovery =		96.22%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.56	65	74753	10.000	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.00%	
53) toluene-D8	14.77	98	255302	10.172	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =		101.72%	
67) bromofluorobenzene	17.89	95	113167	8.125	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =		81.25%	
Target Compounds						
					Qvalue	
2) propylene	3.90	41	1055M6	0.112	ppbV	
3) dichlorodifluoromethane	3.99	85	1703	0.102	ppbV	98
4) chloromethane	4.18	50	995	0.101	ppbV	# 88
5) Freon-114	4.31	85	2033	0.102	ppbV	100
6) vinyl chloride	4.44	62	995	0.101	ppbV	94
7) 1,3-butadiene	4.62	54	763	0.097	ppbV	88
8) bromomethane	4.94	94	832	0.103	ppbV	97
9) chloroethane	5.17	64	458	0.129	ppbV	# 78
10) ethanol	5.37	31	6054	0.756	ppbV	96
11) vinyl bromide	5.62	106	808	0.102	ppbV	92
12) acrolein	5.78	56	397	0.096	ppbV	# 100
13) acetone	5.96	43	9206	0.781	ppbV	# 97
14) trichlorofluoromethane	6.15	101	1633	0.101	ppbV	95
15) isopropyl alcohol	6.29	45	8245	0.553	ppbV	99
16) acrylonitrile	6.54	53	681	0.088	ppbV	96
17) 1,1-dichloroethene	6.93	61	1413	0.103	ppbV	97
18) tertiary butyl alcohol	7.04	59	1608	0.108	ppbV	# 1
19) methylene chloride	7.10	49	1427	0.110	ppbV	96
20) 3-chloropropene	7.24	41	1481	0.082	ppbV	94
21) carbon disulfide	7.40	76	2412	0.090	ppbV	# 1
22) Freon 113	7.44	101	1706	0.104	ppbV	98
23) trans-1,2-dichloroethene	8.24	61	1326	0.095	ppbV	93
24) 1,1-dichloroethane	8.47	63	1811	0.105	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156846_Ev2.D
 Acq On : 4 Apr 2018 7:21 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.1
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:54:32 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	8.58	73	2169	0.092	ppbV	#	84
26) vinyl acetate	8.71	43	2394	0.101	ppbV	#	93
27) 2-butanone	8.99	43	2463	0.106	ppbV	#	97
28) cis-1,2-dichloroethene	9.47	61	1260	0.094	ppbV		95
29) Ethyl Acetate	9.80	61	336	0.098	ppbV	#	44
30) chloroform	9.83	83	1567	0.097	ppbV		96
31) Tetrahydrofuran	10.33	42	1449	0.092	ppbV		99
32) 1,2-dichloroethane	10.68	62	1196	0.103	ppbV		98
34) hexane	9.75	57	1637	0.096	ppbV	#	74
36) 1,1,1-trichloroethane	10.98	97	1045	0.077	ppbV	#	95
37) benzene	11.50	78	3044	0.099	ppbV		96
38) carbon tetrachloride	11.67	117	1167	0.093	ppbV		95
39) cyclohexane	11.82	56	1697	0.095	ppbV	#	87
40) Dibromomethane	12.42	93	1060	0.110	ppbV	#	100
41) 1,2-dichloropropane	12.45	63	1243	0.100	ppbV	#	91
42) bromodichloromethane	12.69	83	1522	0.092	ppbV	#	94
43) 1,4-dioxane	12.79	88	548	0.086	ppbV	#	48
44) trichloroethene	12.73	130	1178	0.102	ppbV		98
45) 2,2,4-trimethylpentane	12.79	57	5110	0.092	ppbV		97
46) heptane	13.10	43	2391	0.088	ppbV		98
47) cis-1,3-dichloropropene	13.75	75	1206	0.079	ppbV		90
48) 4-methyl-2-pentanone	13.81	43	2484	0.082	ppbV	#	98
49) trans-1,3-dichloropropene	14.37	75	1109	0.077	ppbV	#	88
50) 1,1,2-trichloroethane	14.57	97	1116	0.098	ppbV		96
52) toluene	14.88	91	3418	0.097	ppbV		97
54) 2-hexanone	15.18	43	2353	0.080	ppbV		97
55) dibromochloromethane	15.32	129	1174	0.082	ppbV	#	95
56) 1,2-dibromoethane	15.56	107	1529	0.093	ppbV		100
57) tetrachloroethene	16.02	166	1211	0.099	ppbV		93
58) 1,1,1,2-tetrachloroethane	16.62	131	949	0.086	ppbV		95
59) chlorobenzene	16.63	112	2502	0.095	ppbV		97
60) ethylbenzene	16.96	91	3899	0.085	ppbV		98
61) m+p-xylene	17.12	91	6436	0.172	ppbV		99
62) bromoform	17.18	173	836	0.074	ppbV		98
63) styrene	17.43	104	2330	0.080	ppbV		100
64) 1,1,2,2-tetrachloroethane	17.51	83	2256	0.085	ppbV		99
65) o-xylene	17.51	91	3239	0.083	ppbV		95
66) 1,2,3-Trichloropropane	17.62	75	1922	0.092	ppbV	#	65
68) isopropylbenzene	18.00	105	3935	0.083	ppbV		96
69) Bromobenzene	18.07	77	2308	0.087	ppbV	#	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156846_Ev2.D
 Acq On : 4 Apr 2018 7:21 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.1
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:54:32 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

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

70) 4-ethyl toluene	18.52	105	4061	0.076	ppbV #	97
71) 1,3,5-trimethylbenzene	18.59	105	3515	0.076	ppbV	99
72) tert-butylbenzene	18.92	119	3445	0.077	ppbV	100
73) 1,2,4-trimethylbenzene	18.92	105	3357	0.073	ppbV #	89
74) Benzyl Chloride	19.04	91	1694	0.062	ppbV	98
75) 1,3-dichlorobenzene	19.05	146	2291M3	0.081	ppbV	
76) 1,4-dichlorobenzene	19.11	146	2213	0.079	ppbV	99
77) sec-butylbenzene	19.13	105	4824	0.074	ppbV	98
78) p-isopropyltoluene	19.26	119	4094	0.075	ppbV	96
79) 1,2-dichlorobenzene	19.38	146	2132	0.079	ppbV #	91
80) n-butylbenzene	19.61	91	3769	0.070	ppbV	96
81) 1,2,4-trichlorobenzene	20.90	180	1101	0.048	ppbV #	89
82) naphthalene	21.02	128	3377	0.052	ppbV #	91
83) 1,2,3-trichlorobenzene	21.28	180	1185	0.055	ppbV	89
84) hexachlorobutadiene	21.35	225	1277	0.067	ppbV #	94

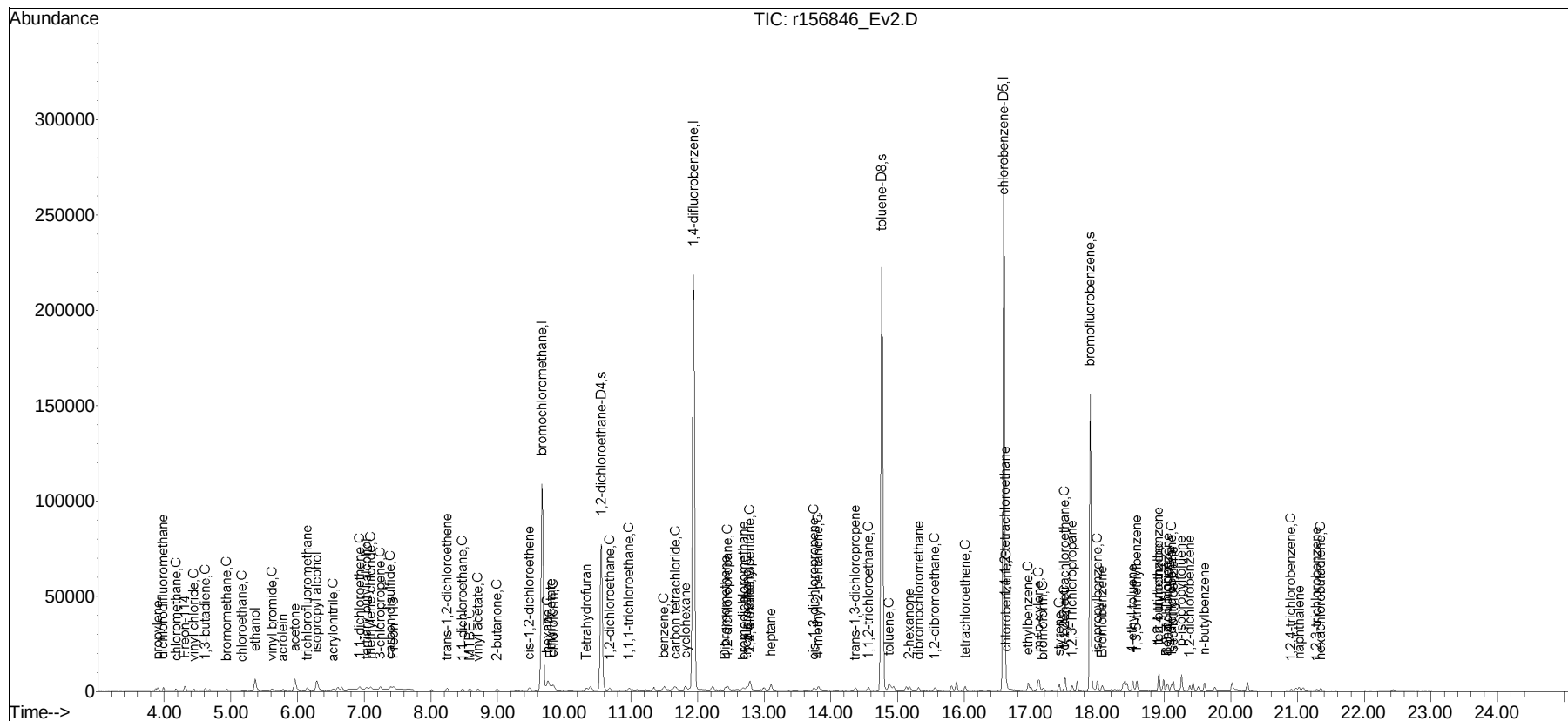
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\
Data File  : r156846_Ev2.D
Acq On     :  4 Apr 2018    7:21 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD0.1
Misc       : WG1103790
ALS Vial   : 0    Sample Multiplier: 1
```

Quant Time: Apr 05 09:54:32 2018
Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 05 09:48:29 2018
Response via : Initial Calibration

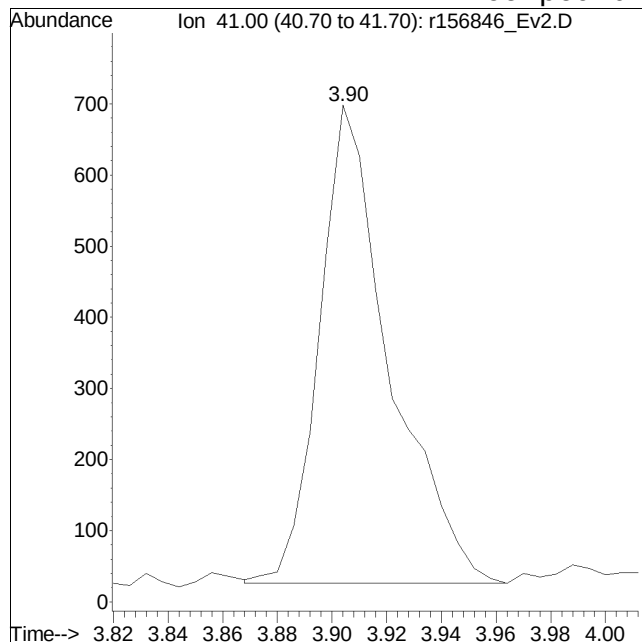
Sub List : Default - All compounds listed8\180404SIM_ICAL\r156850_Ev2.D



Manual Integration/Negative Proof Report

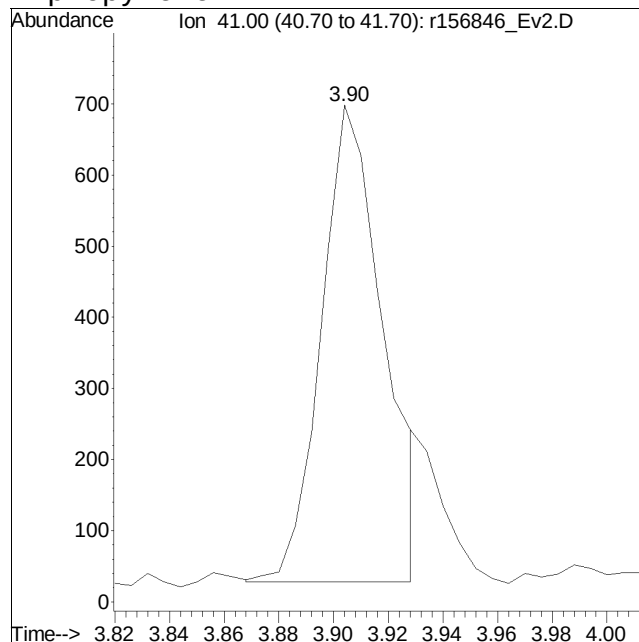
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156846_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 7:21 PM Instrument :
Sample : IT015-SIMSTD0.1 Quant Date : 4/5/2018 9:48 am

Compound #2: propylene



Original Peak Response = 1199

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



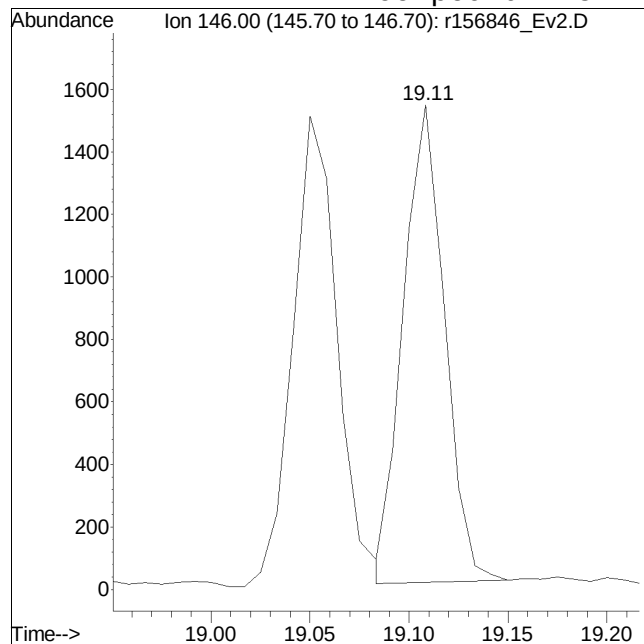
Manual Peak Response = 1055 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

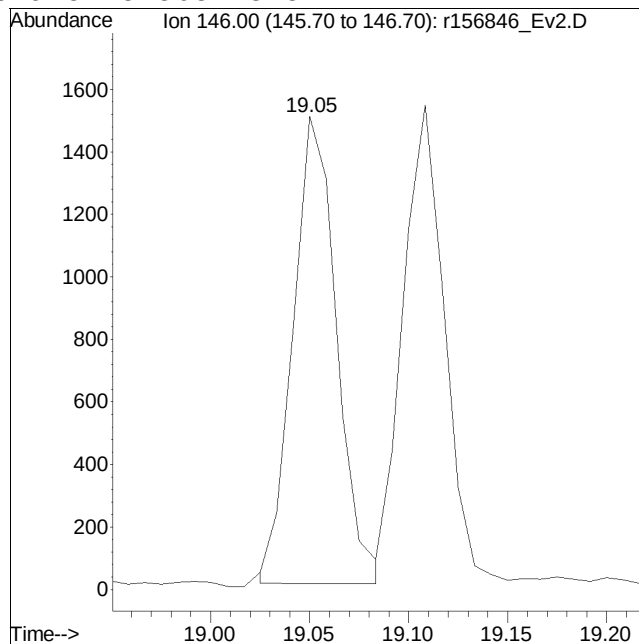
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156846_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 7:21 PM Instrument :
Sample : IT015-SIMSTD0.1 Quant Date : 4/5/2018 9:48 am

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 2213

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 Peak Response = 2291 M3

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156847_Ev2.D
 Acq On : 4 Apr 2018 7:58 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:55:36 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.66	49	128596	10.000	ppbV	# 0.00
Standard Area = 133810			Recovery =		96.10%	
33) 1,4-difluorobenzene	11.93	114	277199	10.000	ppbV	0.00
Standard Area = 280369			Recovery =		98.87%	
51) chlorobenzene-D5	16.58	54	56162	10.000	ppbV	0.00
Standard Area = 59059			Recovery =		95.09%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.55	65	76315	10.133	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		101.33%	
53) toluene-D8	14.76	98	255859	10.315	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		103.15%	
67) bromofluorobenzene	17.88	95	131589	9.560	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		95.60%	
Target Compounds						
					Qvalue	
2) propylene	3.90	41	2234M6	0.240	ppbV	
3) dichlorodifluoromethane	3.99	85	3917	0.238	ppbV	99
4) chloromethane	4.17	50	2275	0.234	ppbV	97
5) Freon-114	4.31	85	4623	0.235	ppbV	96
6) vinyl chloride	4.44	62	2297	0.236	ppbV	95
7) 1,3-butadiene	4.61	54	1795	0.232	ppbV	93
8) bromomethane	4.94	94	1931	0.242	ppbV	98
9) chloroethane	5.16	64	1190	0.340	ppbV	93
10) ethanol	5.36	31	11612M4	1.472	ppbV	
11) vinyl bromide	5.61	106	1811	0.231	ppbV	99
12) acrolein	5.78	56	988	0.242	ppbV	# 100
13) acetone	5.95	43	16751	1.441	ppbV	# 98
14) trichlorofluoromethane	6.14	101	3788	0.238	ppbV	97
15) isopropyl alcohol	6.28	45	13508	0.919	ppbV	99
16) acrylonitrile	6.53	53	1688	0.221	ppbV	95
17) 1,1-dichloroethene	6.92	61	3219	0.237	ppbV	99
18) tertiary butyl alcohol	7.02	59	3457	0.236	ppbV	# 1
19) methylene chloride	7.09	49	3074	0.240	ppbV	98
20) 3-chloropropene	7.24	41	3336	0.188	ppbV	97
21) carbon disulfide	7.39	76	5631	0.214	ppbV	# 16
22) Freon 113	7.43	101	3878	0.240	ppbV	99
23) trans-1,2-dichloroethene	8.23	61	3208	0.233	ppbV	93
24) 1,1-dichloroethane	8.47	63	4220	0.248	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156847_Ev2.D
 Acq On : 4 Apr 2018 7:58 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:55:36 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	8.57	73	4955	0.214	ppbV	#	94
26) vinyl acetate	8.70	43	5153	0.220	ppbV		98
27) 2-butanone	8.98	43	5637	0.245	ppbV		97
28) cis-1,2-dichloroethene	9.47	61	2984	0.225	ppbV		97
29) Ethyl Acetate	9.79	61	760	0.225	ppbV	#	54
30) chloroform	9.82	83	3598	0.225	ppbV		97
31) Tetrahydrofuran	10.32	42	3295M6	0.213	ppbV		
32) 1,2-dichloroethane	10.68	62	2735	0.238	ppbV		97
34) hexane	9.74	57	3648	0.212	ppbV		85
36) 1,1,1-trichloroethane	10.97	97	2823	0.207	ppbV	#	93
37) benzene	11.49	78	6968	0.225	ppbV		98
38) carbon tetrachloride	11.67	117	2677	0.212	ppbV		95
39) cyclohexane	11.81	56	3678	0.204	ppbV		96
40) Dibromomethane	12.41	93	2262	0.233	ppbV	#	100
41) 1,2-dichloropropane	12.45	63	2809	0.225	ppbV		91
42) bromodichloromethane	12.67	83	3326	0.200	ppbV	#	96
43) 1,4-dioxane	12.77	88	1492M3	0.231	ppbV		
44) trichloroethene	12.73	130	2619	0.226	ppbV		99
45) 2,2,4-trimethylpentane	12.78	57	12358	0.220	ppbV		97
46) heptane	13.09	43	5658	0.208	ppbV		95
47) cis-1,3-dichloropropene	13.74	75	2904	0.189	ppbV		94
48) 4-methyl-2-pentanone	13.80	43	6027	0.197	ppbV		98
49) trans-1,3-dichloropropene	14.36	75	2699	0.186	ppbV	#	87
50) 1,1,2-trichloroethane	14.56	97	2501	0.218	ppbV		98
52) toluene	14.87	91	7915	0.227	ppbV		99
54) 2-hexanone	15.17	43	5367	0.184	ppbV		97
55) dibromochloromethane	15.31	129	2764	0.195	ppbV		95
56) 1,2-dibromoethane	15.55	107	3500	0.214	ppbV		99
57) tetrachloroethene	16.01	166	2778	0.229	ppbV		95
58) 1,1,1,2-tetrachloroethane	16.62	131	2326	0.213	ppbV		97
59) chlorobenzene	16.63	112	5841	0.223	ppbV		94
60) ethylbenzene	16.96	91	9316	0.206	ppbV		99
61) m+p-xylene	17.12	91	15793	0.427	ppbV		97
62) bromoform	17.18	173	2011	0.179	ppbV		98
63) styrene	17.42	104	5469	0.189	ppbV		97
64) 1,1,2,2-tetrachloroethane	17.51	83	5404	0.205	ppbV		99
65) o-xylene	17.51	91	7852	0.204	ppbV		97
66) 1,2,3-Trichloropropane	17.62	75	4546	0.221	ppbV	#	67
68) isopropylbenzene	17.99	105	9548	0.203	ppbV		99
69) Bromobenzene	18.07	77	5426	0.206	ppbV	#	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156847_Ev2.D
 Acq On : 4 Apr 2018 7:58 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.2
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:55:36 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.52	105	10102	0.192	ppbV	99
71) 1,3,5-trimethylbenzene	18.58	105	8905	0.195	ppbV	98
72) tert-butylbenzene	18.92	119	8512	0.193	ppbV	100
73) 1,2,4-trimethylbenzene	18.92	105	8506	0.188	ppbV	96
74) Benzyl Chloride	19.03	91	4016	0.148	ppbV	98
75) 1,3-dichlorobenzene	19.05	146	5451	0.194	ppbV	95
76) 1,4-dichlorobenzene	19.10	146	5310	0.192	ppbV	96
77) sec-butylbenzene	19.13	105	11996	0.186	ppbV	100
78) p-isopropyltoluene	19.25	119	10083	0.186	ppbV	93
79) 1,2-dichlorobenzene	19.38	146	4990	0.186	ppbV	98
80) n-butylbenzene	19.60	91	9426	0.176	ppbV	96
81) 1,2,4-trichlorobenzene	20.90	180	3053	0.135	ppbV	95
82) naphthalene	21.02	128	10434	0.163	ppbV	98
83) 1,2,3-trichlorobenzene	21.27	180	3031	0.142	ppbV	97
84) hexachlorobutadiene	21.34	225	3066	0.163	ppbV #	92

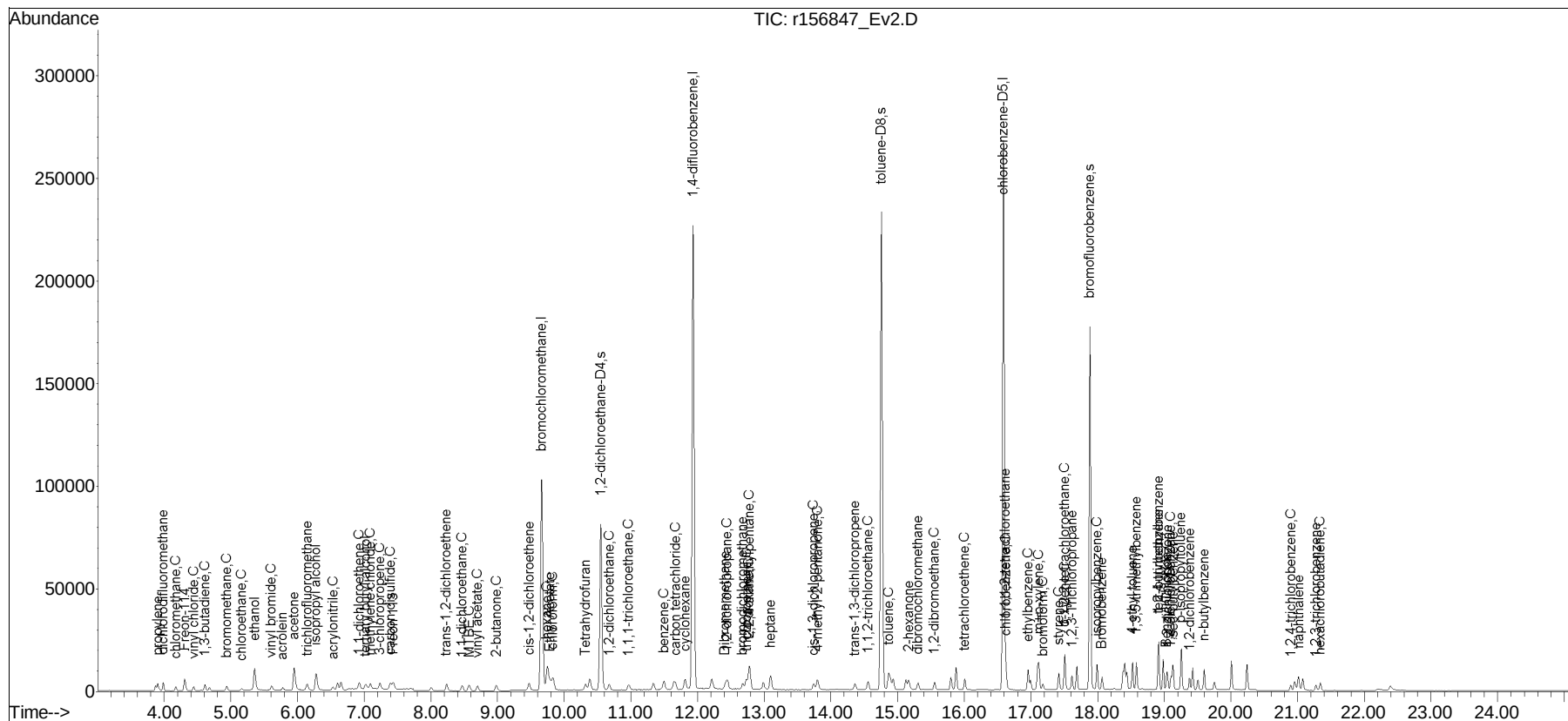
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path   : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\
Data File  : r156847_Ev2.D
Acq On     :  4 Apr 2018    7:58 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD0.2
Misc       : WG1103790
ALS Vial   : 0    Sample Multiplier: 1
```

Quant Time: Apr 05 09:55:36 2018
Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 05 09:48:29 2018
Response via : Initial Calibration

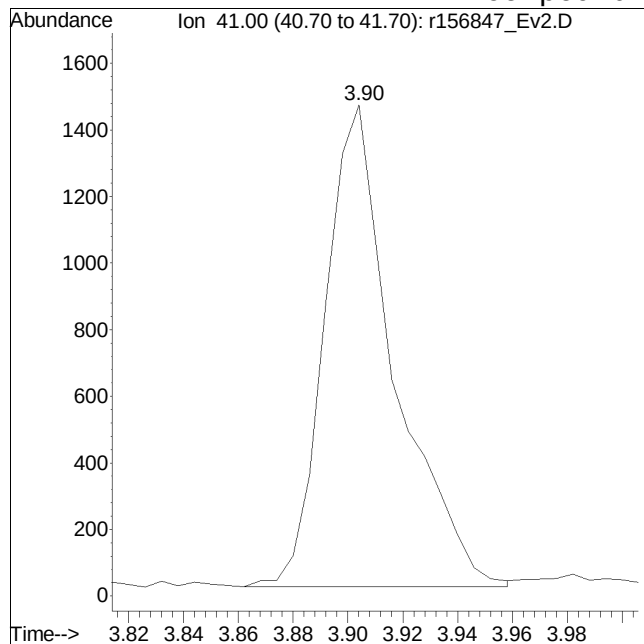
Sub List : Default - All compounds listed8\180404SIM_ICAL\r156850_Ev2.D



Manual Integration/Negative Proof Report

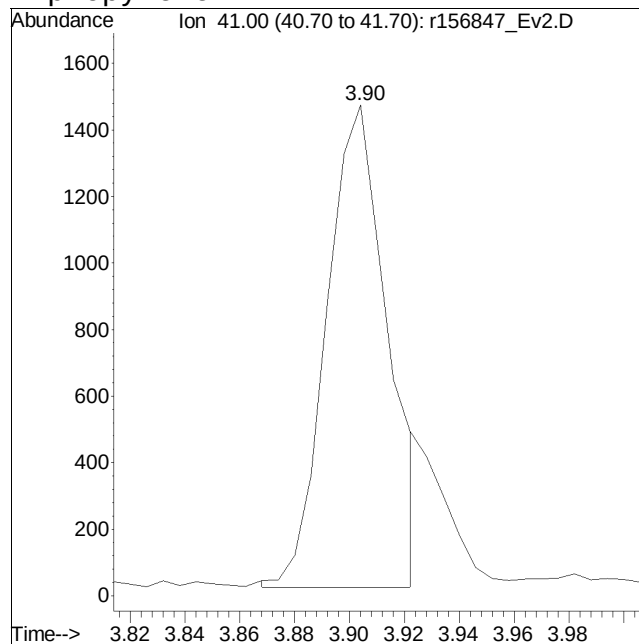
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156847_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 7:58 PM Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 4/5/2018 9:48 am

Compound #2: propylene



Original Peak Response = 2565

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

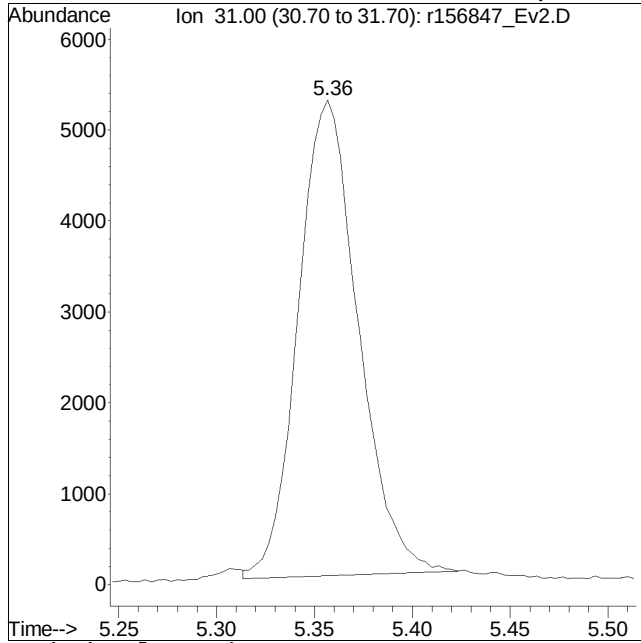


Manual Peak Response = 2234 M6

Manual Integration/Negative Proof Report

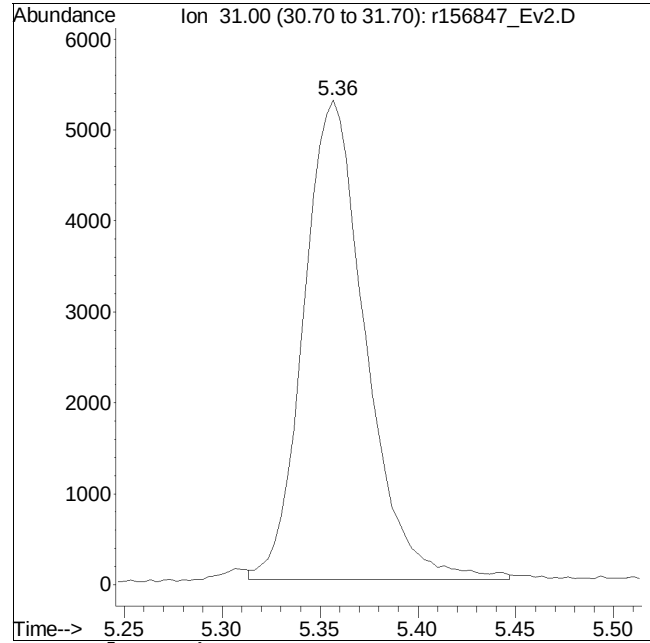
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156847_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 7:58 PM Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 4/5/2018 9:48 am

Compound #10: ethanol



Original Peak Response = 11165

M4 = Poor automated baseline construction.

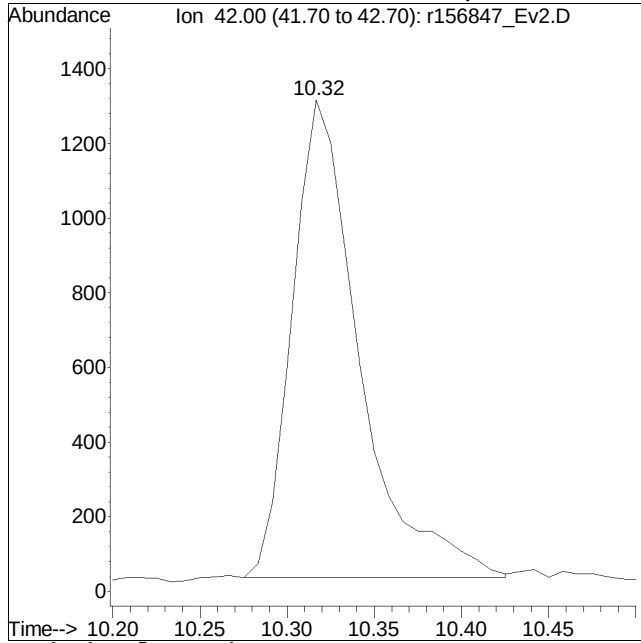


Manual Peak Response = 11612 M4

Manual Integration/Negative Proof Report

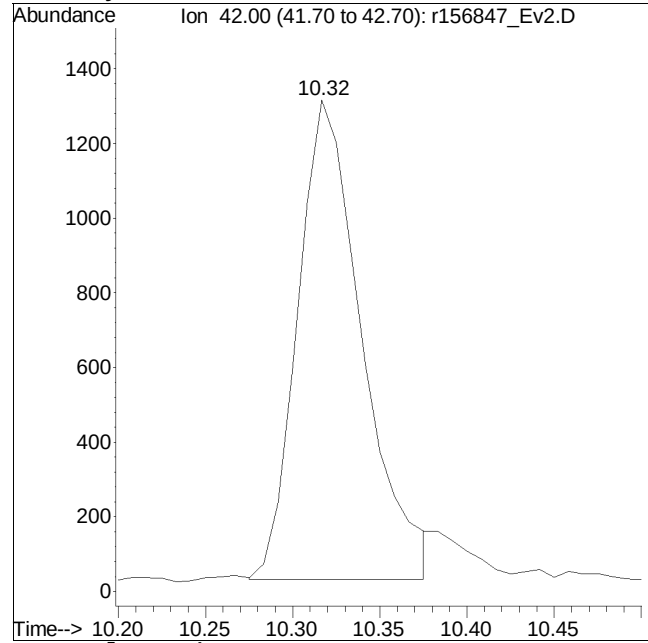
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156847_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 7:58 PM Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 4/5/2018 9:48 am

Compound #31: Tetrahydrofuran



Original Peak Response = 3453

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

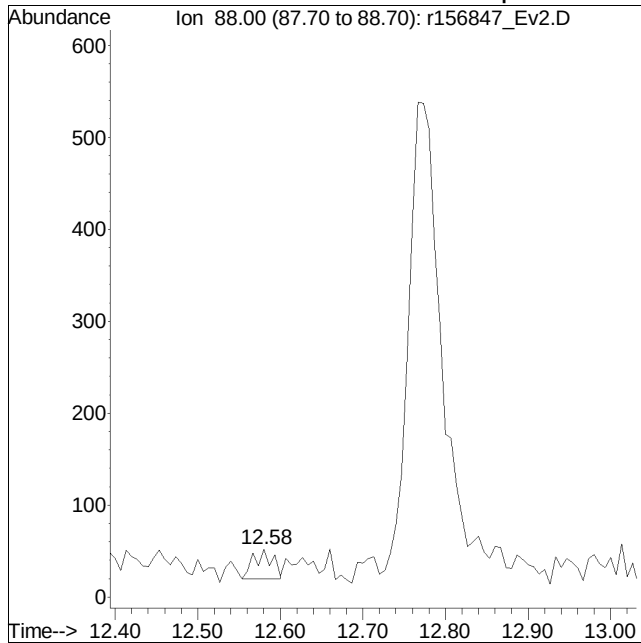


Manual Peak Response = 3295 M6

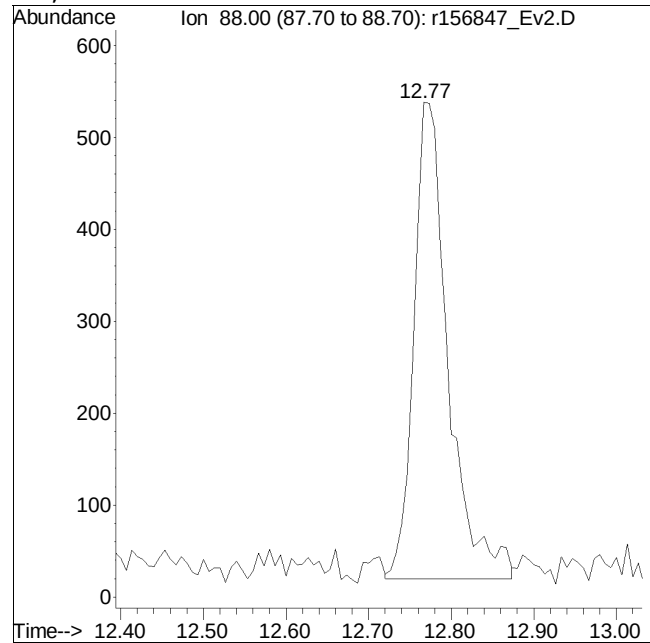
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156847_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 7:58 PM Instrument :
Sample : IT015-SIMSTD0.2 Quant Date : 4/5/2018 9:48 am

Compound #43: 1,4-dioxane



Original Peak Response = 50



Manual Peak Response = 1492 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 : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156848_Ev2.D
 Acq On : 4 Apr 2018 8:33 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:57:16 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.66	49	130018	10.000	ppbV	# 0.00
Standard Area = 133810			Recovery =		97.17%	
33) 1,4-difluorobenzene	11.93	114	277973	10.000	ppbV	0.00
Standard Area = 280369			Recovery =		99.15%	
51) chlorobenzene-D5	16.58	54	56744	10.000	ppbV	0.00
Standard Area = 59059			Recovery =		96.08%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.55	65	75606	10.011	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.11%	
53) toluene-D8	14.76	98	257596	10.279	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		102.79%	
67) bromofluorobenzene	17.88	95	139423	10.025	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.25%	
Target Compounds						
					Qvalue	
2) propylene	3.90	41	5239M6	0.556	ppbV	
3) dichlorodifluoromethane	3.99	85	9191	0.553	ppbV	100
4) chloromethane	4.17	50	5346	0.545	ppbV	98
5) Freon-114	4.31	85	11047	0.555	ppbV	98
6) vinyl chloride	4.44	62	5407	0.549	ppbV	98
7) 1,3-butadiene	4.61	54	4193	0.536	ppbV	96
8) bromomethane	4.94	94	4486	0.555	ppbV	99
9) chloroethane	5.16	64	2756	0.779	ppbV	97
10) ethanol	5.35	31	22938	2.876	ppbV	100
11) vinyl bromide	5.61	106	4338	0.548	ppbV	99
12) acrolein	5.77	56	2270	0.551	ppbV	# 100
13) acetone	5.94	43	37984	3.232	ppbV	# 99
14) trichlorofluoromethane	6.14	101	9106	0.566	ppbV	99
15) isopropyl alcohol	6.27	45	24573	1.653	ppbV	99
16) acrylonitrile	6.52	53	4005	0.518	ppbV	98
17) 1,1-dichloroethene	6.92	61	7590	0.553	ppbV	98
18) tertiary butyl alcohol	7.01	59	7822	0.528	ppbV	# 1
19) methylene chloride	7.09	49	7203	0.555	ppbV	98
20) 3-chloropropene	7.24	41	8045	0.449	ppbV	99
21) carbon disulfide	7.39	76	13730	0.516	ppbV	# 68
22) Freon 113	7.43	101	9013	0.551	ppbV	98
23) trans-1,2-dichloroethene	8.23	61	7606	0.548	ppbV	99
24) 1,1-dichloroethane	8.47	63	9471	0.550	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156848_Ev2.D
 Acq On : 4 Apr 2018 8:33 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:57:16 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.57	73	13038	0.556	ppbV	97
26) vinyl acetate	8.69	43	13322	0.562	ppbV	100
27) 2-butanone	8.97	43	13489	0.581	ppbV	96
28) cis-1,2-dichloroethene	9.47	61	7063	0.527	ppbV	100
29) Ethyl Acetate	9.78	61	1825	0.535	ppbV	59
30) chloroform	9.82	83	8667	0.537	ppbV	99
31) Tetrahydrofuran	10.30	42	8046M6	0.515	ppbV	
32) 1,2-dichloroethane	10.68	62	6420	0.553	ppbV	99
34) hexane	9.74	57	8827	0.511	ppbV	99
36) 1,1,1-trichloroethane	10.97	97	7476	0.548	ppbV	96
37) benzene	11.49	78	16292	0.524	ppbV	98
38) carbon tetrachloride	11.67	117	6516	0.514	ppbV	99
39) cyclohexane	11.81	56	9135	0.505	ppbV	98
40) Dibromomethane	12.41	93	5180	0.531	ppbV #	100
41) 1,2-dichloropropane	12.45	63	6846	0.547	ppbV	96
42) bromodichloromethane	12.67	83	8191	0.492	ppbV	99
43) 1,4-dioxane	12.75	88	3198	0.495	ppbV #	80
44) trichloroethene	12.73	130	6188	0.531	ppbV	97
45) 2,2,4-trimethylpentane	12.77	57	29626	0.527	ppbV	98
46) heptane	13.09	43	14081	0.515	ppbV	98
47) cis-1,3-dichloropropene	13.74	75	7120	0.461	ppbV	98
48) 4-methyl-2-pentanone	13.79	43	14972	0.489	ppbV	99
49) trans-1,3-dichloropropene	14.36	75	6430	0.442	ppbV	93
50) 1,1,2-trichloroethane	14.56	97	5858	0.509	ppbV	98
52) toluene	14.87	91	18962	0.537	ppbV	100
54) 2-hexanone	15.16	43	14014	0.476	ppbV	99
55) dibromochloromethane	15.31	129	6801	0.475	ppbV	96
56) 1,2-dibromoethane	15.55	107	8519	0.517	ppbV	100
57) tetrachloroethene	16.01	166	6420	0.524	ppbV	100
58) 1,1,1,2-tetrachloroethane	16.61	131	5474	0.496	ppbV	97
59) chlorobenzene	16.63	112	13887	0.526	ppbV	97
60) ethylbenzene	16.96	91	22729	0.498	ppbV	99
61) m+p-xylene	17.11	91	38586	1.032	ppbV	99
62) bromoform	17.18	173	4985	0.439	ppbV	99
63) styrene	17.42	104	13874	0.476	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.50	83	13328	0.501	ppbV	99
65) o-xylene	17.51	91	19287	0.495	ppbV	100
66) 1,2,3-Trichloropropane	17.61	75	10946	0.526	ppbV #	70
68) isopropylbenzene	17.99	105	23268	0.489	ppbV	98
69) Bromobenzene	18.07	77	13009	0.490	ppbV #	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156848_Ev2.D
 Acq On : 4 Apr 2018 8:33 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD0.5
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:57:16 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.52	105	25090	0.472	ppbV	99
71) 1,3,5-trimethylbenzene	18.58	105	22143	0.480	ppbV	98
72) tert-butylbenzene	18.91	119	21262	0.478	ppbV	96
73) 1,2,4-trimethylbenzene	18.91	105	21488	0.471	ppbV	90
74) Benzyl Chloride	19.03	91	10871	0.398	ppbV	99
75) 1,3-dichlorobenzene	19.04	146	13655M3	0.482	ppbV	
76) 1,4-dichlorobenzene	19.10	146	13080	0.469	ppbV	98
77) sec-butylbenzene	19.13	105	29612	0.453	ppbV	95
78) p-isopropyltoluene	19.25	119	25089	0.457	ppbV	96
79) 1,2-dichlorobenzene	19.38	146	12456	0.460	ppbV #	91
80) n-butylbenzene	19.59	91	24274	0.448	ppbV	90
81) 1,2,4-trichlorobenzene	20.89	180	8365	0.367	ppbV	95
82) naphthalene	21.01	128	28741	0.444	ppbV	98
83) 1,2,3-trichlorobenzene	21.27	180	8048	0.372	ppbV	94
84) hexachlorobutadiene	21.34	225	7601	0.399	ppbV	95

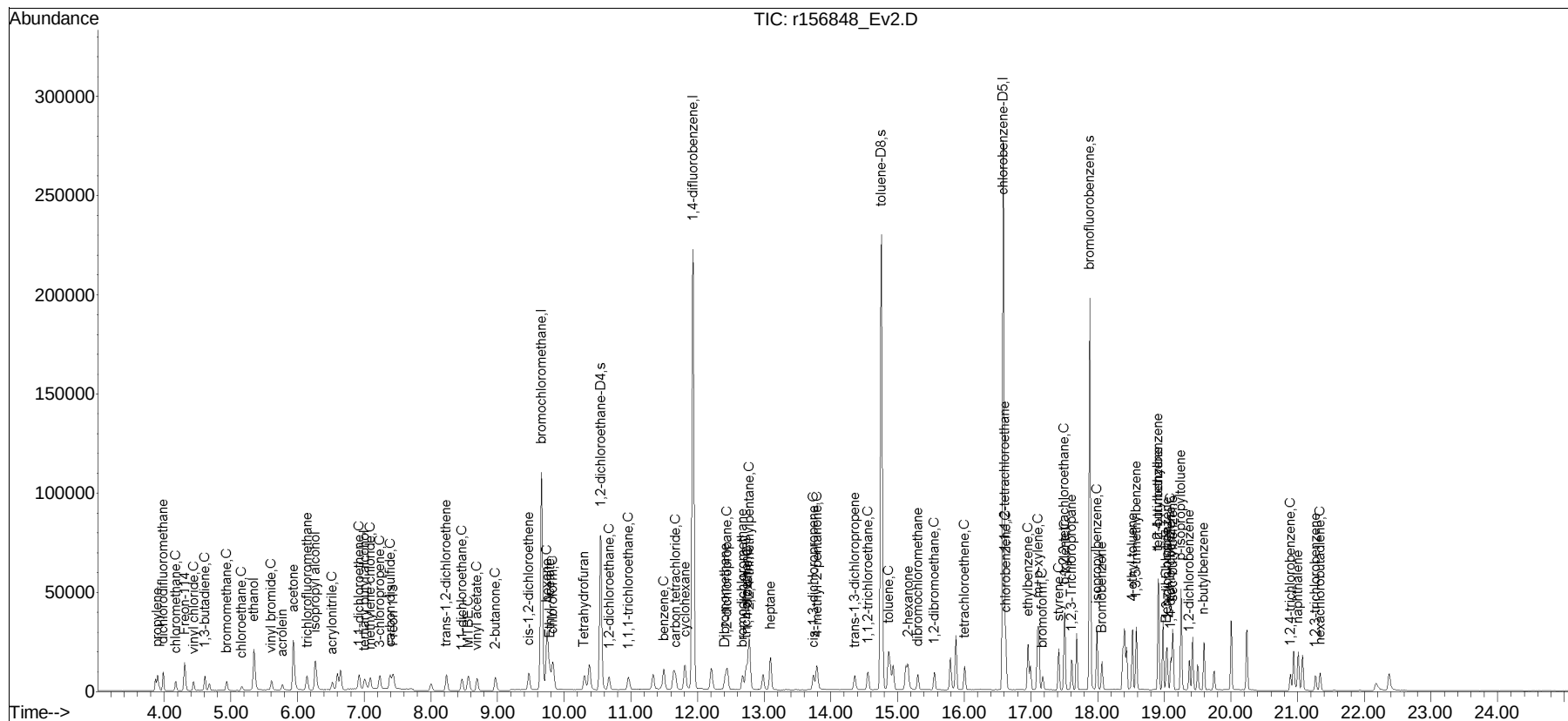
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\
Data File  : r156848_Ev2.D
Acq On     :  4 Apr 2018    8:33 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD0.5
Misc       : WG1103790
ALS Vial   : 0    Sample Multiplier: 1
```

Quant Time: Apr 05 09:57:16 2018
Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 05 09:48:29 2018
Response via : Initial Calibration

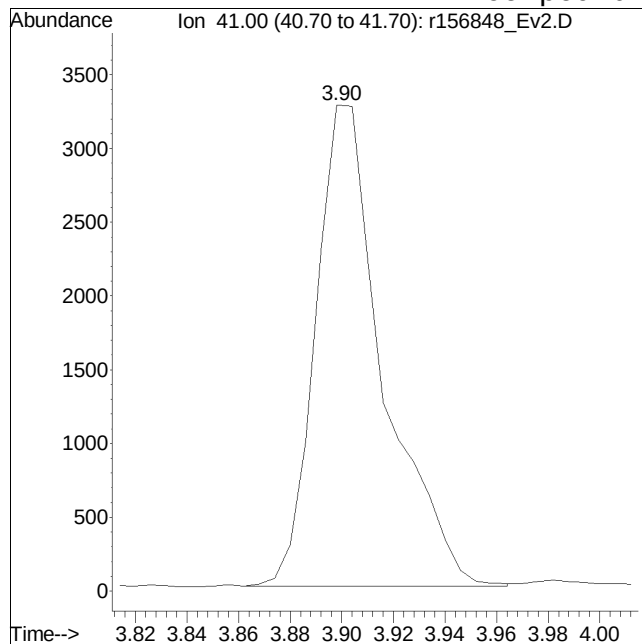
Sub List : Default - All compounds listed8\180404SIM_ICAL\r156850_Ev2.D



Manual Integration/Negative Proof Report

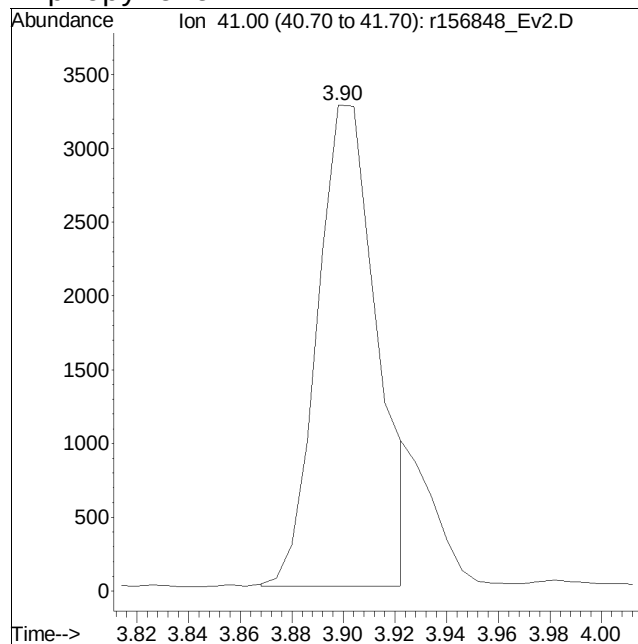
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM180404.M
Data File : r156848_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 8:33 PM Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 4/5/2018 9:49 am

Compound #2: propylene



Original Peak Response = 5950

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



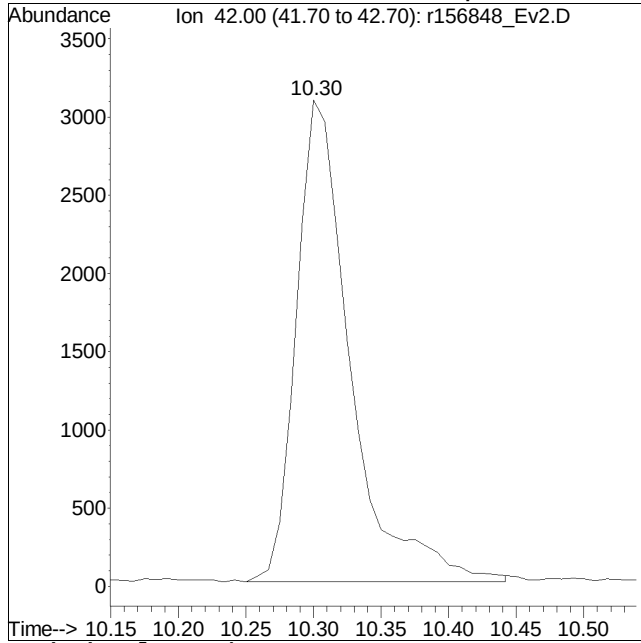
Manual Peak Response = 5239 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

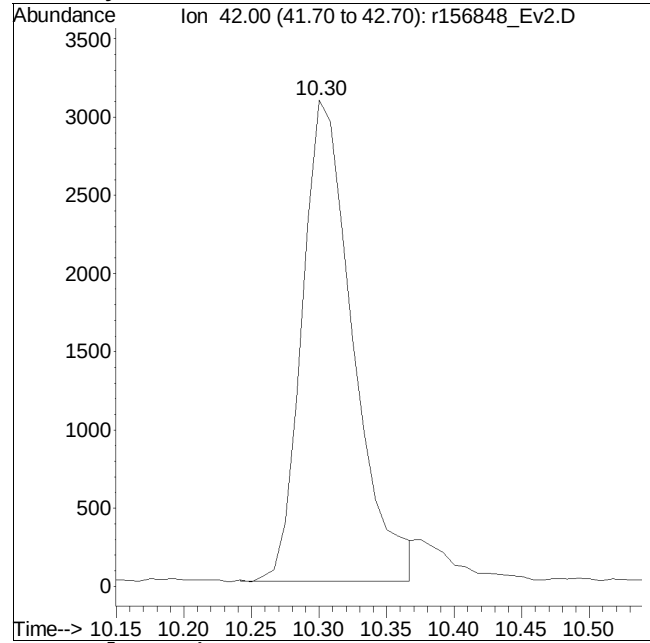
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156848_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 8:33 PM Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 4/5/2018 9:49 am

Compound #31: Tetrahydrofuran



Original Peak Response = 8629

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

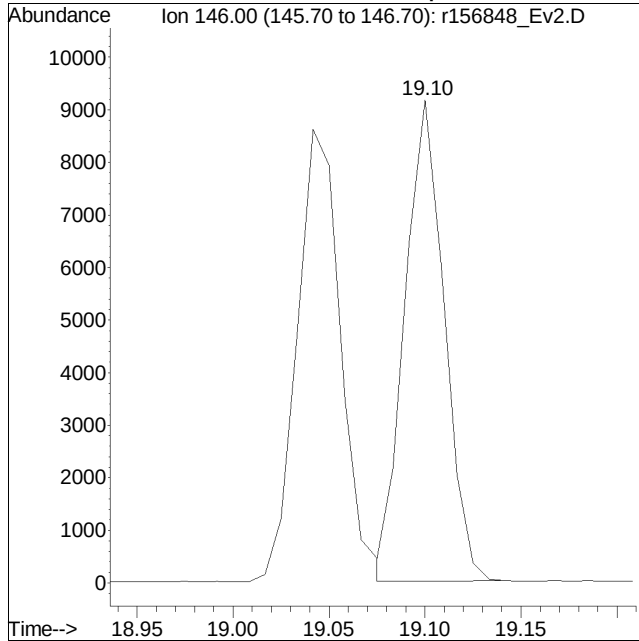


Manual Peak Response = 8046 M6

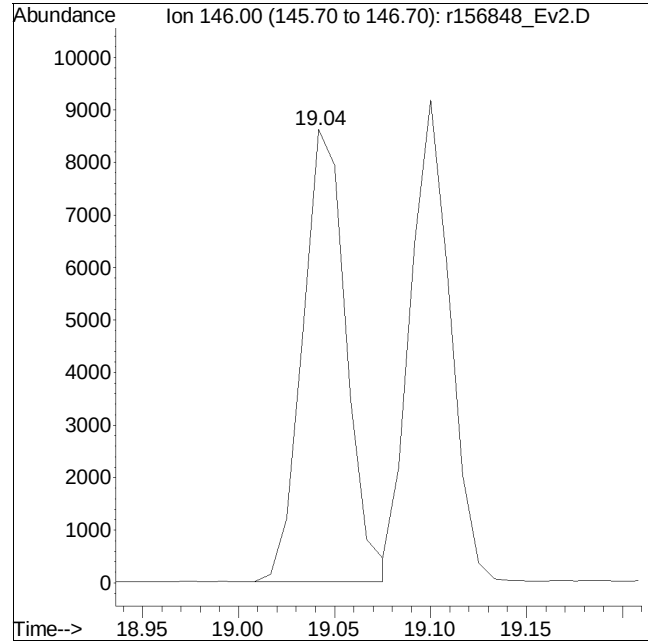
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156848_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 8:33 PM Instrument :
Sample : IT015-SIMSTD0.5 Quant Date : 4/5/2018 9:49 am

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 13080



Manual Peak Response = 13655 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 : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156849_Ev2.D
 Acq On : 4 Apr 2018 9:11 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:58:07 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.66	49	130918	10.000	ppbV	# 0.00
Standard Area = 133810			Recovery =		97.84%	
33) 1,4-difluorobenzene	11.93	114	274872	10.000	ppbV	0.00
Standard Area = 280369			Recovery =		98.04%	
51) chlorobenzene-D5	16.58	54	57158	10.000	ppbV	0.00
Standard Area = 59059			Recovery =		96.78%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.54	65	75208	10.071	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.71%	
53) toluene-D8	14.75	98	251352	9.957	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.57%	
67) bromofluorobenzene	17.88	95	135443	9.669	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.69%	
Target Compounds						
					Qvalue	
2) propylene	3.90	41	10376M6	1.094	ppbV	
3) dichlorodifluoromethane	3.98	85	18170	1.085	ppbV	99
4) chloromethane	4.17	50	10487	1.061	ppbV	98
5) Freon-114	4.31	85	21636	1.080	ppbV	99
6) vinyl chloride	4.44	62	10701	1.080	ppbV	100
7) 1,3-butadiene	4.61	54	8324	1.058	ppbV	95
8) bromomethane	4.94	94	8711	1.071	ppbV	98
9) chloroethane	5.16	64	5536	1.555	ppbV	98
10) ethanol	5.34	31	42879	5.339	ppbV	100
11) vinyl bromide	5.61	106	8411M4	1.055	ppbV	
12) acrolein	5.77	56	4206	1.014	ppbV	# 100
13) acetone	5.93	43	70211	5.934	ppbV	100
14) trichlorofluoromethane	6.14	101	17478	1.079	ppbV	99
15) isopropyl alcohol	6.26	45	42360	2.830	ppbV	100
16) acrylonitrile	6.52	53	7919	1.017	ppbV	98
17) 1,1-dichloroethene	6.92	61	14801	1.071	ppbV	100
18) tertiary butyl alcohol	7.00	59	14491	0.971	ppbV	# 1
19) methylene chloride	7.09	49	14117	1.081	ppbV	99
20) 3-chloropropene	7.23	41	16115	0.894	ppbV	99
21) carbon disulfide	7.39	76	27192	1.015	ppbV	# 85
22) Freon 113	7.43	101	17895	1.086	ppbV	100
23) trans-1,2-dichloroethene	8.23	61	14883	1.064	ppbV	97
24) 1,1-dichloroethane	8.47	63	18730	1.080	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156849_Ev2.D
 Acq On : 4 Apr 2018 9:11 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:58:07 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.56	73	25164	1.065	ppbV	99
26) vinyl acetate	8.69	43	26669	1.116	ppbV	99
27) 2-butanone	8.96	43	26309	1.125	ppbV	95
28) cis-1,2-dichloroethene	9.47	61	14406	1.067	ppbV	99
29) Ethyl Acetate	9.78	61	3510	1.021	ppbV	68
30) chloroform	9.82	83	17342	1.067	ppbV	99
31) Tetrahydrofuran	10.29	42	15967	1.015	ppbV	100
32) 1,2-dichloroethane	10.67	62	12516	1.071	ppbV	99
34) hexane	9.73	57	17835	1.044	ppbV	92
36) 1,1,1-trichloroethane	10.96	97	15393	1.141	ppbV	95
37) benzene	11.49	78	32619	1.061	ppbV	100
38) carbon tetrachloride	11.67	117	12971	1.036	ppbV	97
39) cyclohexane	11.81	56	18637	1.042	ppbV	98
40) Dibromomethane	12.41	93	10251	1.064	ppbV #	100
41) 1,2-dichloropropane	12.44	63	13040	1.053	ppbV	96
42) bromodichloromethane	12.67	83	16364	0.994	ppbV	98
43) 1,4-dioxane	12.75	88	6411	1.003	ppbV	90
44) trichloroethene	12.73	130	11774	1.022	ppbV	97
45) 2,2,4-trimethylpentane	12.77	57	58127	1.045	ppbV	99
46) heptane	13.09	43	28218	1.044	ppbV	99
47) cis-1,3-dichloropropene	13.73	75	14630	0.959	ppbV	98
48) 4-methyl-2-pentanone	13.78	43	31314	1.035	ppbV	99
49) trans-1,3-dichloropropene	14.36	75	13788	0.959	ppbV	97
50) 1,1,2-trichloroethane	14.55	97	11803	1.036	ppbV	97
52) toluene	14.86	91	37422	1.053	ppbV	100
54) 2-hexanone	15.15	43	28892	0.975	ppbV	100
55) dibromochloromethane	15.30	129	13884	0.963	ppbV	99
56) 1,2-dibromoethane	15.55	107	17095	1.029	ppbV	100
57) tetrachloroethene	16.00	166	12960	1.049	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.61	131	11033	0.992	ppbV	99
59) chlorobenzene	16.63	112	27945	1.050	ppbV	100
60) ethylbenzene	16.95	91	46386	1.010	ppbV	100
61) m+p-xylene	17.11	91	77963	2.070	ppbV	97
62) bromoform	17.18	173	10304	0.902	ppbV	99
63) styrene	17.42	104	28170	0.959	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.50	83	26430	0.987	ppbV	100
65) o-xylene	17.50	91	39332	1.002	ppbV	96
66) 1,2,3-Trichloropropane	17.61	75	21249	1.014	ppbV #	70
68) isopropylbenzene	17.99	105	46692	0.975	ppbV	97
69) Bromobenzene	18.06	77	25947	0.969	ppbV #	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156849_Ev2.D
 Acq On : 4 Apr 2018 9:11 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:58:07 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.52	105	51032	0.952	ppbV	99
71) 1,3,5-trimethylbenzene	18.57	105	45134	0.972	ppbV	98
72) tert-butylbenzene	18.91	119	43496	0.971	ppbV	98
73) 1,2,4-trimethylbenzene	18.91	105	44211	0.962	ppbV	94
74) Benzyl Chloride	19.02	91	23083	0.838	ppbV	96
75) 1,3-dichlorobenzene	19.04	146	26850	0.941	ppbV	94
76) 1,4-dichlorobenzene	19.10	146	26520	0.944	ppbV	94
77) sec-butylbenzene	19.13	105	61363	0.933	ppbV	97
78) p-isopropyltoluene	19.25	119	52017	0.941	ppbV	97
79) 1,2-dichlorobenzene	19.38	146	25396	0.930	ppbV	93
80) n-butylbenzene	19.59	91	50769	0.931	ppbV	93
81) 1,2,4-trichlorobenzene	20.89	180	18318	0.798	ppbV	100
82) naphthalene	21.01	128	62930	0.964	ppbV	99
83) 1,2,3-trichlorobenzene	21.27	180	17488	0.803	ppbV	99
84) hexachlorobutadiene	21.33	225	15818	0.824	ppbV #	92

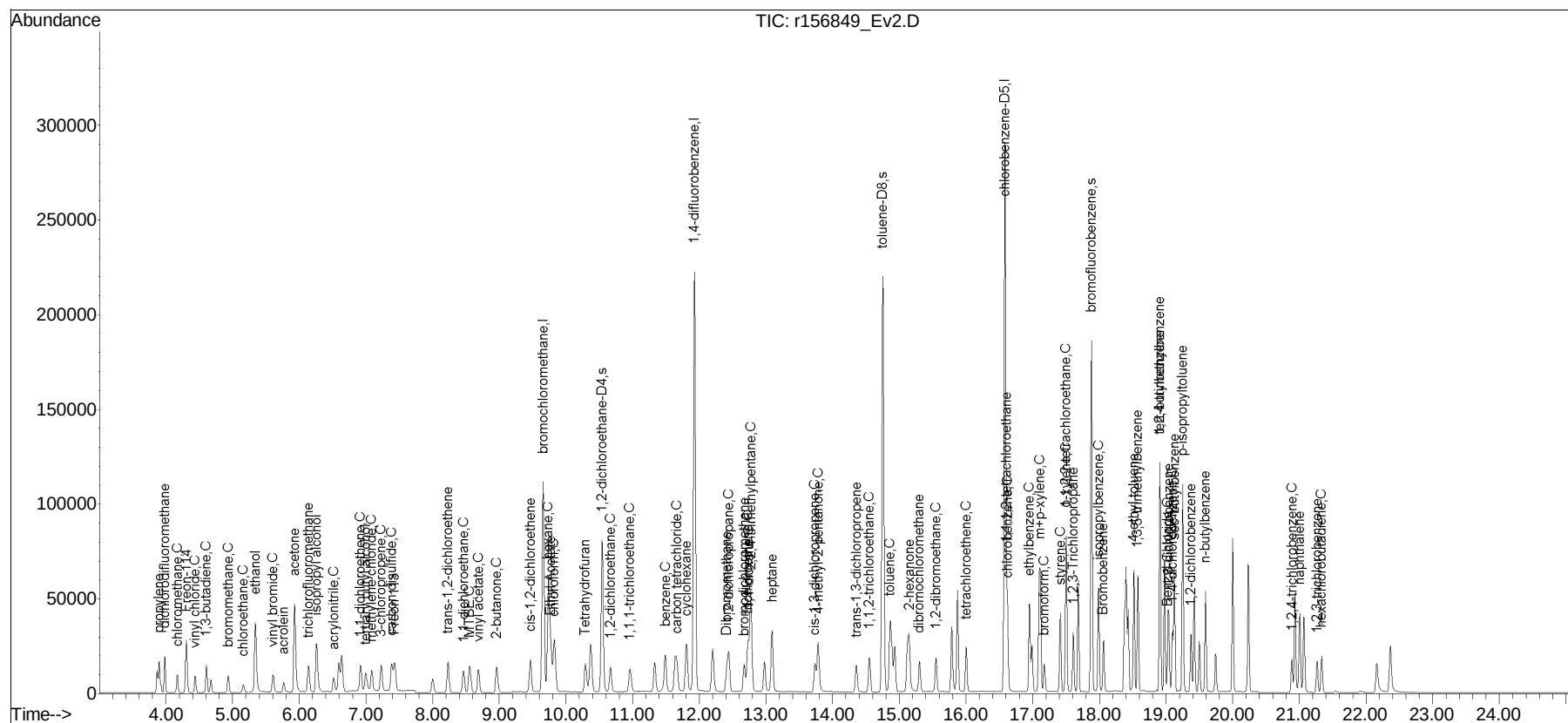
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\
 Data File : r156849_Ev2.D
 Acq On : 4 Apr 2018 9:11 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD1.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:58:07 2018
 Quant Method : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

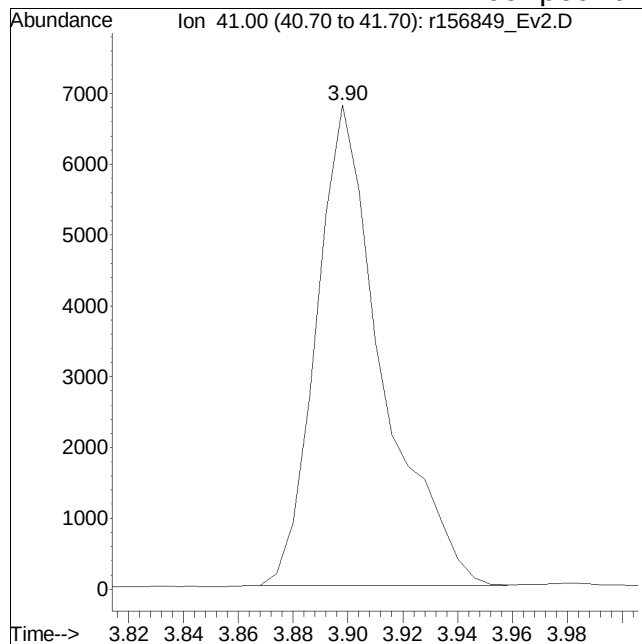
Sub List : Default - All compounds listed8\180404SIM_ICAL\r156850_Ev2.D



Manual Integration/Negative Proof Report

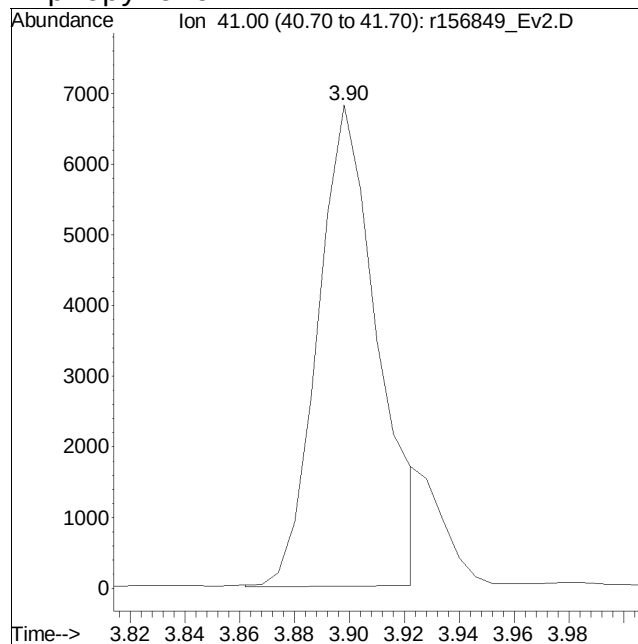
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM180404.M
Data File : r156849_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:11 PM Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 4/5/2018 9:49 am

Compound #2: propylene



Original Peak Response = 11377

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



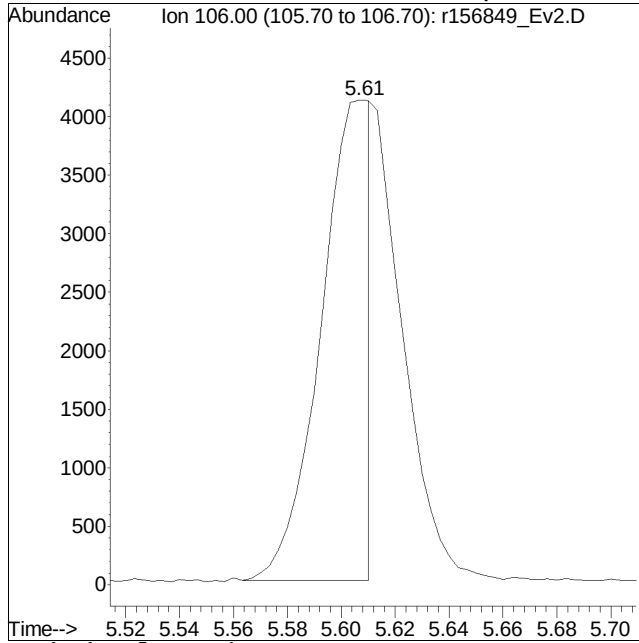
Manual Peak Response = 10376 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

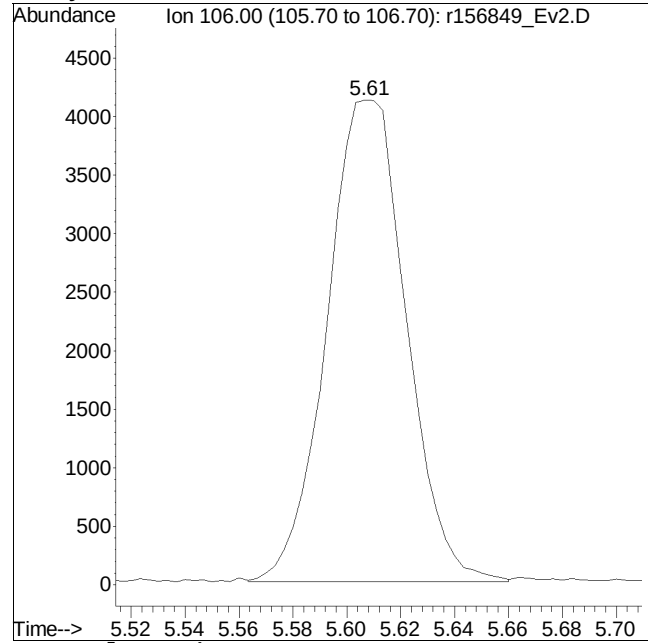
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156849_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:11 PM Instrument :
Sample : IT015-SIMSTD1.0 Quant Date : 4/5/2018 9:49 am

Compound #11: vinyl bromide



Original Peak Response = 5195



Manual Peak Response = 8411 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156850_Ev2.D
 Acq On : 4 Apr 2018 9:48 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:46:33 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Feb 16 18:24:21 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.66	49	133810M2	10.000	ppbV	0.69
Standard Area = 133810			Recovery =	100.00%		
33) 1,4-difluorobenzene	11.93	114	280369M3	10.000	ppbV	0.71
Standard Area = 280369			Recovery =	100.00%		
51) chlorobenzene-D5	16.58	54	59059M2	10.000	ppbV	0.66
Standard Area = 59059			Recovery =	100.00%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.54	65	76173M3	9.631	ppbV	0.70
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.31%		
53) toluene-D8	14.75	98	260833M2	12.657	ppbV	0.68
Spiked Amount 10.000	Range 70 - 130		Recovery =	126.57%		
67) bromofluorobenzene	17.88	95	144742M3	12.721	ppbV	0.60
Spiked Amount 10.000	Range 70 - 130		Recovery =	127.21%		
Target Compounds						
						Qvalue
2) propylene	3.89	41	48467M6	3.946	ppbV	
3) dichlorodifluoromethane	3.98	85	85573M3	4.991	ppbV	
4) chloromethane	4.17	50	50508	4.177	ppbV	97
5) Freon-114	4.31	85	102392M3	4.428	ppbV	
6) vinyl chloride	4.44	62	50657M3	4.091	ppbV	
7) 1,3-butadiene	4.61	54	40221M2	4.135	ppbV	
8) bromomethane	4.94	94	41564M2	4.458	ppbV	
9) chloroethane	5.16	64	18199M2	2.824	ppbV	
10) ethanol	5.33	31	205227M2	19.762	ppbV	
11) vinyl bromide	5.61	106	40727M3	4.637	ppbV	
12) acrolein	5.76	56	21201M3	3.767	ppbV	
13) acetone	5.92	43	302359M3	19.510	ppbV	
14) trichlorofluoromethane	6.14	101	82789M2	5.561	ppbV	
15) isopropyl alcohol	6.25	45	191260M3	9.355	ppbV	
16) acrylonitrile	6.51	53	39812M3	4.259	ppbV	
17) 1,1-dichloroethene	6.92	61	70632M2	4.374	ppbV	
18) tertiary butyl alcohol	6.98	59	76275M3	3.703	ppbV	
19) methylene chloride	7.09	49	66750M2	4.871	ppbV	
20) 3-chloropropene	7.23	41	92133M3	4.716	ppbV	
21) carbon disulfide	7.39	76	136963M3	5.115	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156850_Ev2.D
 Acq On : 4 Apr 2018 9:48 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:46:33 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Feb 16 18:24:21 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) Freon 113	7.43	101	84172M3	5.280	ppbV	
23) trans-1,2-dichloroethene	8.23	61	71484M3	4.805	ppbV	
24) 1,1-dichloroethane	8.47	63	88666M2	4.774	ppbV	
25) MTBE	8.55	73	120745M3	5.586	ppbV	
26) vinyl acetate	8.68	43	122074M3	4.662	ppbV	
27) 2-butanone	8.95	43	119475M2	4.816	ppbV	
28) cis-1,2-dichloroethene	9.47	61	69003M3	4.860	ppbV	
29) Ethyl Acetate	9.77	61	17566M2	5.051	ppbV	
30) chloroform	9.82	83	83064M2	5.229	ppbV	
31) Tetrahydrofuran	10.28	42	80425M3	5.066	ppbV	
32) 1,2-dichloroethane	10.67	62	59713M3	4.875	ppbV	
34) hexane	9.73	57	87148M3	4.112	ppbV	
36) 1,1,1-trichloroethane	10.97	97	68814M2	4.957	ppbV	
37) benzene	11.49	78	156792M2	4.401	ppbV	
38) carbon tetrachloride	11.67	117	63870M2	5.187	ppbV	
39) cyclohexane	11.81	56	91199M3	3.836	ppbV	
40) Dibromomethane	12.41	93	49153M2	4.393	ppbV	
41) 1,2-dichloropropane	12.44	63	63142M3	4.370	ppbV	
42) bromodichloromethane	12.67	83	83926M3	4.522	ppbV	
43) 1,4-dioxane	12.73	88	32595M3	4.400	ppbV	
44) trichloroethene	12.73	130	58732M3	5.140	ppbV	
45) 2,2,4-trimethylpentane	12.77	57	283600M3	4.075	ppbV	
46) heptane	13.09	43	137782M3	4.350	ppbV	
47) cis-1,3-dichloropropene	13.73	75	77836M2	4.754	ppbV	
48) 4-methyl-2-pentanone	13.78	43	154359M3	4.247	ppbV	
49) trans-1,3-dichloropropene	14.36	75	73295M3	4.670	ppbV	
50) 1,1,2-trichloroethane	14.55	97	58079M2	5.032	ppbV	
52) toluene	14.86	91	183627M2	5.876	ppbV	
54) 2-hexanone	15.14	43	153084M3	5.874	ppbV	
55) dibromochloromethane	15.30	129	74469M2	6.844	ppbV	
56) 1,2-dibromoethane	15.55	107	85826M2	6.228	ppbV	
57) tetrachloroethene	16.00	166	63801M2	6.454	ppbV	
58) 1,1,1,2-tetrachloroethane	16.61	131	57459M2	6.723	ppbV	
59) chlorobenzene	16.63	112	137447M2	6.060	ppbV	
60) ethylbenzene	16.95	91	237382M2	6.412	ppbV	
61) m+p-xylene	17.11	91	389114M3	12.946	ppbV	
62) bromoform	17.18	173	59026M2	7.340	ppbV	
63) styrene	17.41	104	151817M2	6.891	ppbV	
64) 1,1,2,2-tetrachloroethane	17.50	83	138332M3	5.752	ppbV	
65) o-xylene	17.50	91	202744M3	6.723	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156850_Ev2.D
 Acq On : 4 Apr 2018 9:48 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:46:33 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Feb 16 18:24:21 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,2,3-Trichloropropane	17.61	75	108271M3	5.814	ppbV	
68) isopropylbenzene	17.98	105	247428M3	6.866	ppbV	
69) Bromobenzene	18.06	77	138280M3	5.927	ppbV	
70) 4-ethyl toluene	18.52	105	276882M3	7.565	ppbV	
71) 1,3,5-trimethylbenzene	18.57	105	239914M3	7.445	ppbV	
72) tert-butylbenzene	18.91	119	231523M2	7.313	ppbV	
73) 1,2,4-trimethylbenzene	18.91	105	237383M3	7.350	ppbV	
74) Benzyl Chloride	19.02	91	142316M3	6.722	ppbV	
75) 1,3-dichlorobenzene	19.04	146	147418M2	7.666	ppbV	
76) 1,4-dichlorobenzene	19.09	146	145114M2	7.496	ppbV	
77) sec-butylbenzene	19.13	105	339940M2	7.555	ppbV	
78) p-isopropyltoluene	19.25	119	285463M3	7.724	ppbV	
79) 1,2-dichlorobenzene	19.38	146	141060M3	7.855	ppbV	
80) n-butylbenzene	19.59	91	281688M3	7.888	ppbV	
81) 1,2,4-trichlorobenzene	20.88	180	118608M2	11.626	ppbV	
82) naphthalene	21.00	128	337209M2	11.598	ppbV	
83) 1,2,3-trichlorobenzene	21.26	180	112491M3	11.871	ppbV	
84) hexachlorobutadiene	21.33	225	99202M2	9.974	ppbV	

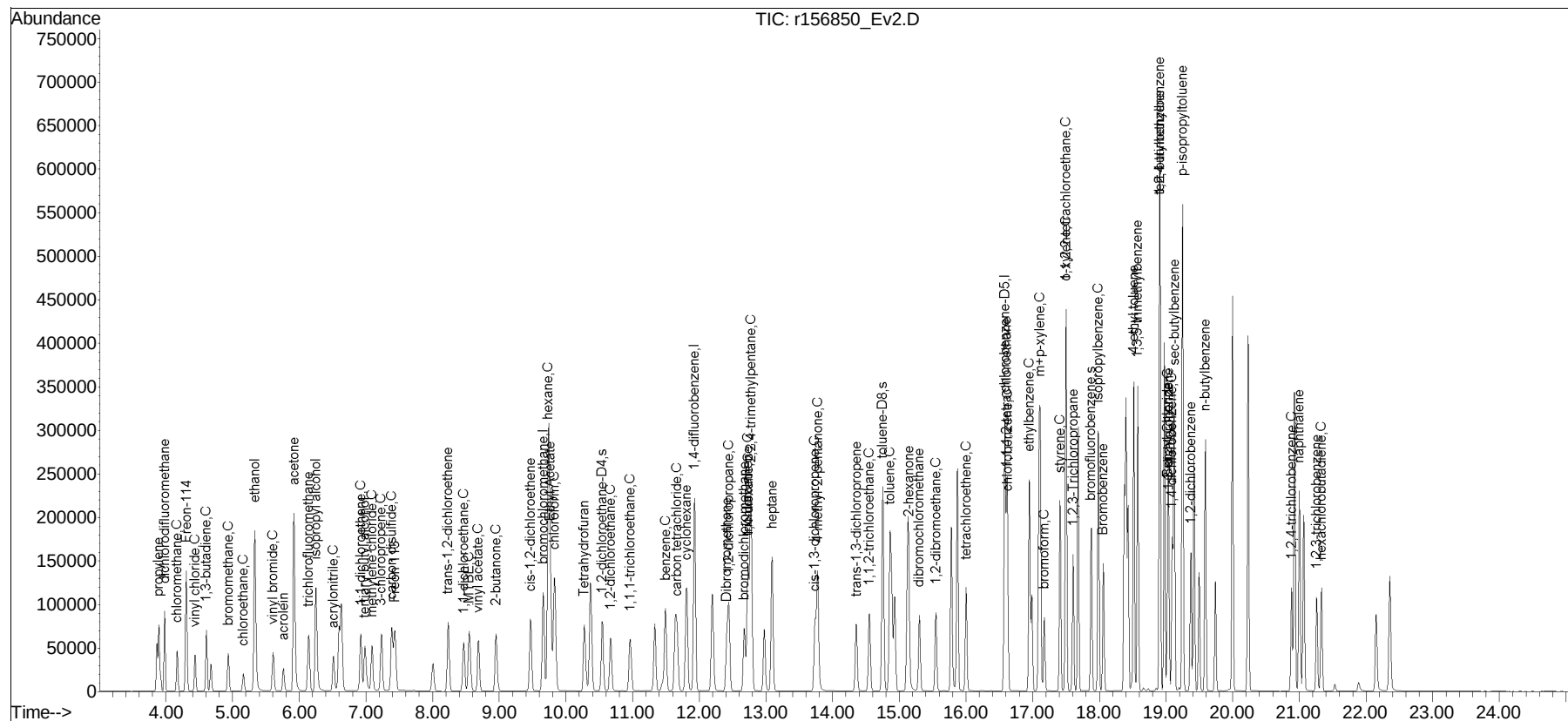
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\
 Data File : r156850_Ev2.D
 Acq On : 4 Apr 2018 9:48 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD5.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:46:33 2018
 Quant Method : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Fri Feb 16 18:24:21 2018
 Response via : Initial Calibration

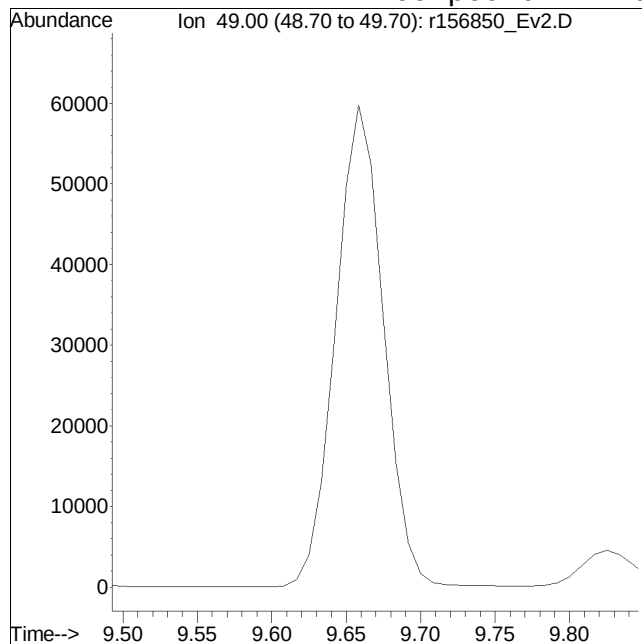
Sub List : Default - All compounds listed8\180404SIM_ICAL\r156850_Ev2.D



Manual Integration/Negative Proof Report

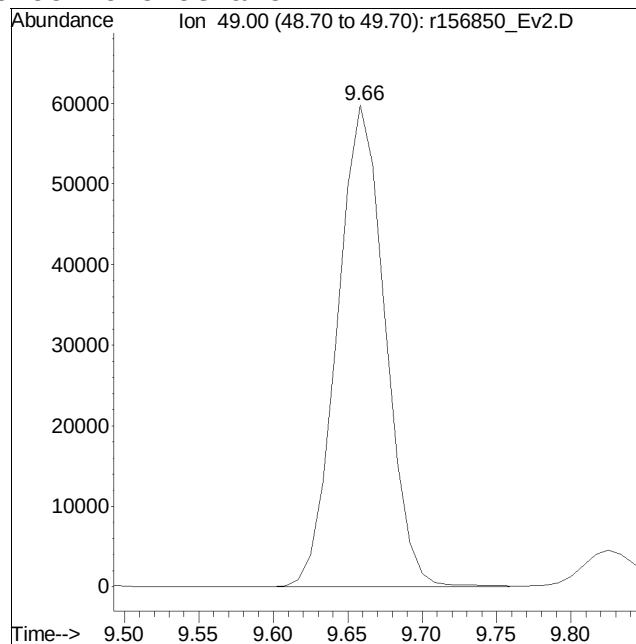
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #1: bromochloromethane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

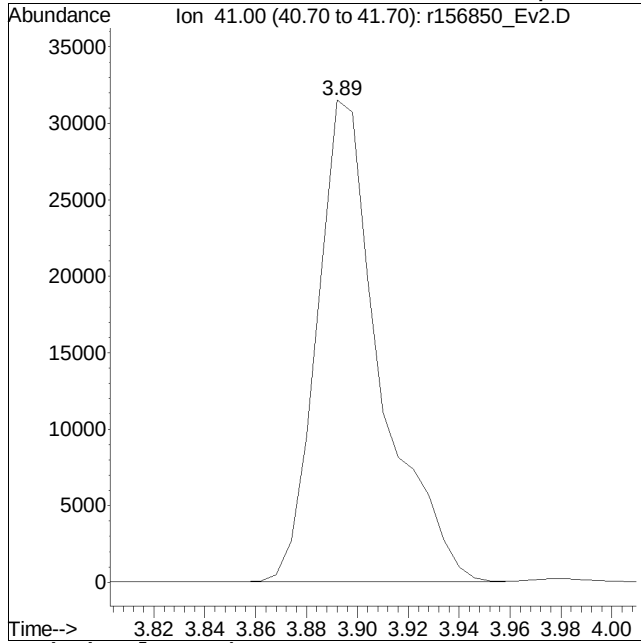


Manual Peak Response = 133810 M2

Manual Integration/Negative Proof Report

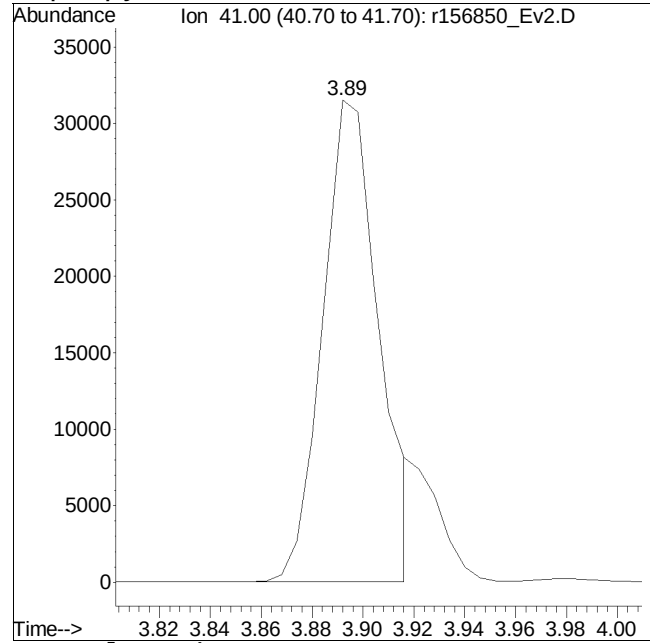
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #2: propylene



Original Peak Response = 54514

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

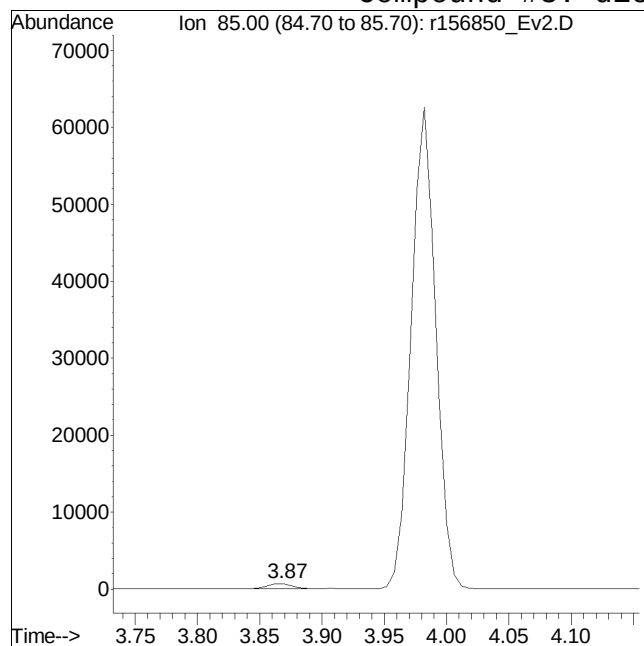


Manual Peak Response = 48467 M6

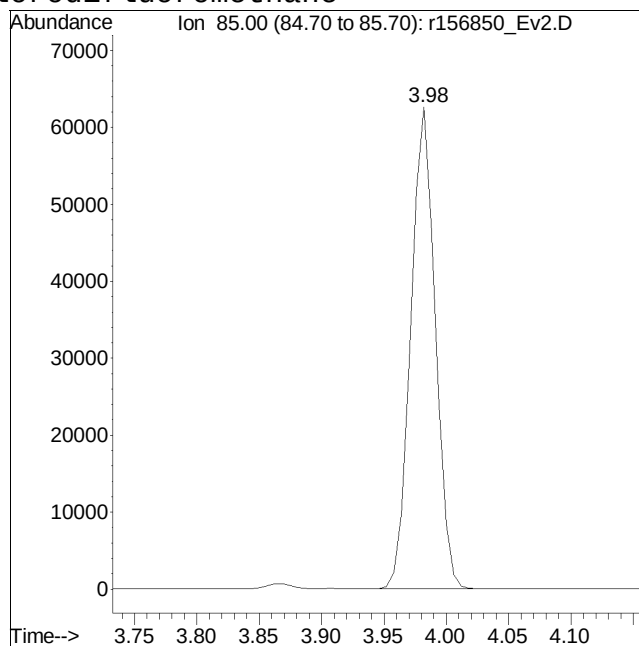
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #3: dichlorodifluoromethane



Original Peak Response = 978



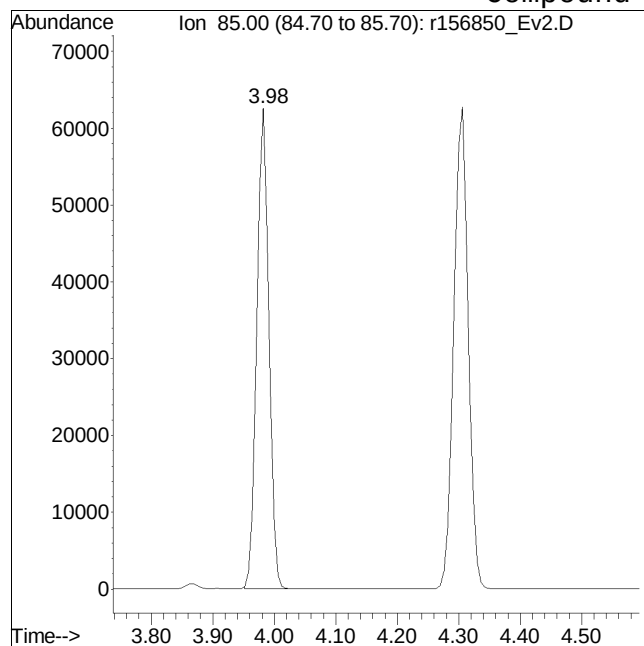
Manual Peak Response = 85573 M3

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.

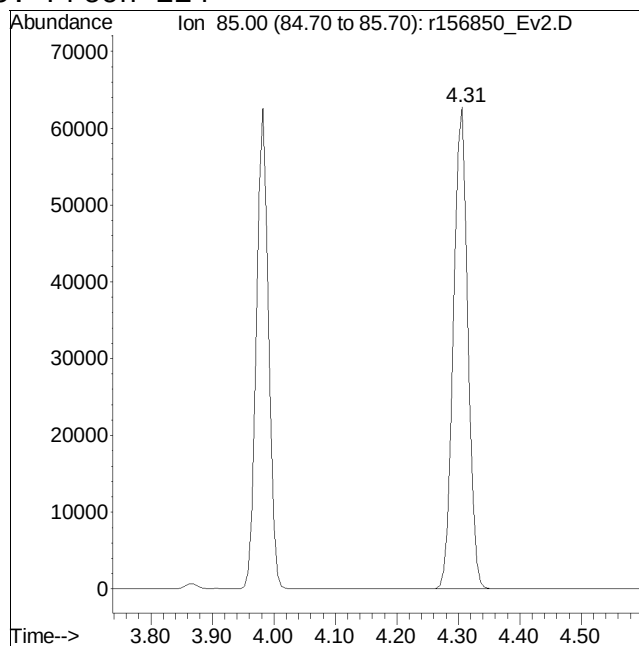
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #5: Freon-114



Original Peak Response = 85347



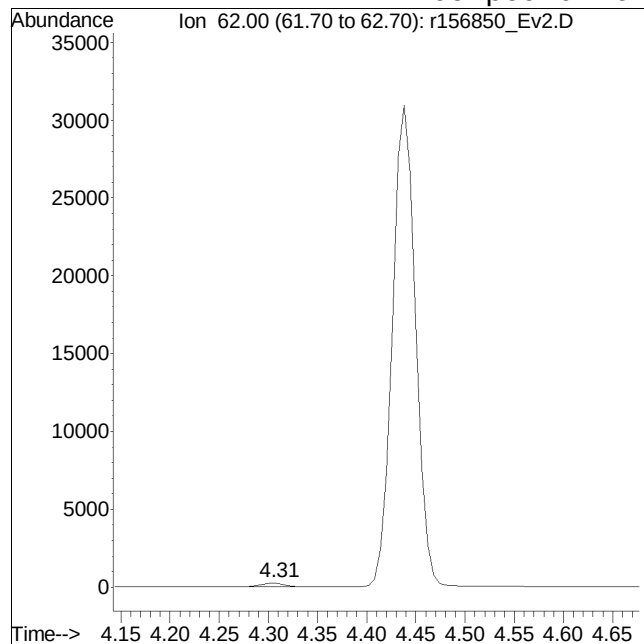
Manual Peak Response = 102392 M3

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.

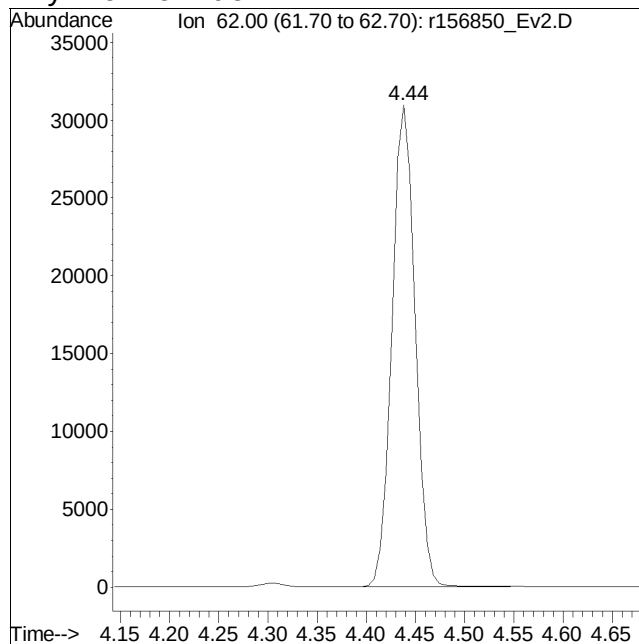
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #6: vinyl chloride



Original Peak Response = 366



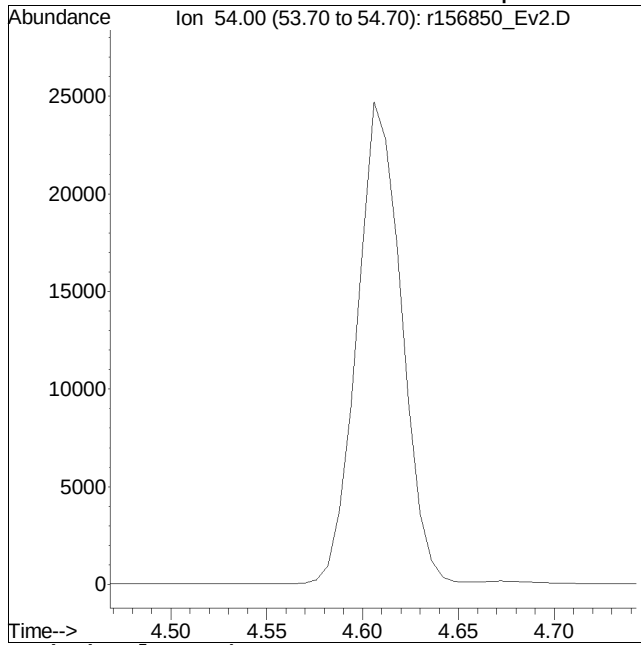
Manual Peak Response = 50657 M3

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

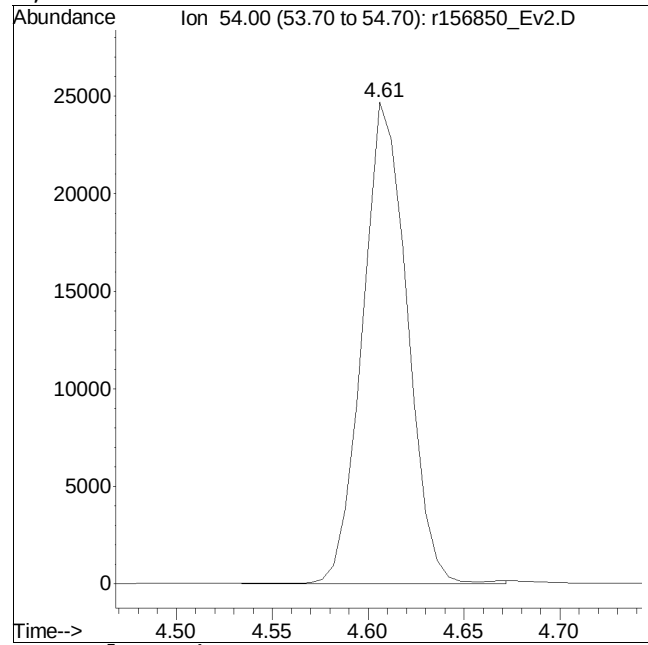
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #7: 1,3-butadiene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

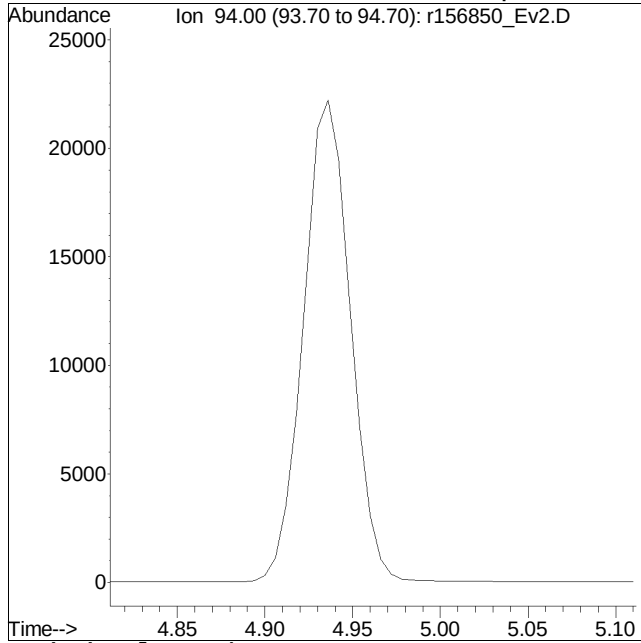


Manual Peak Response = 40221 M2

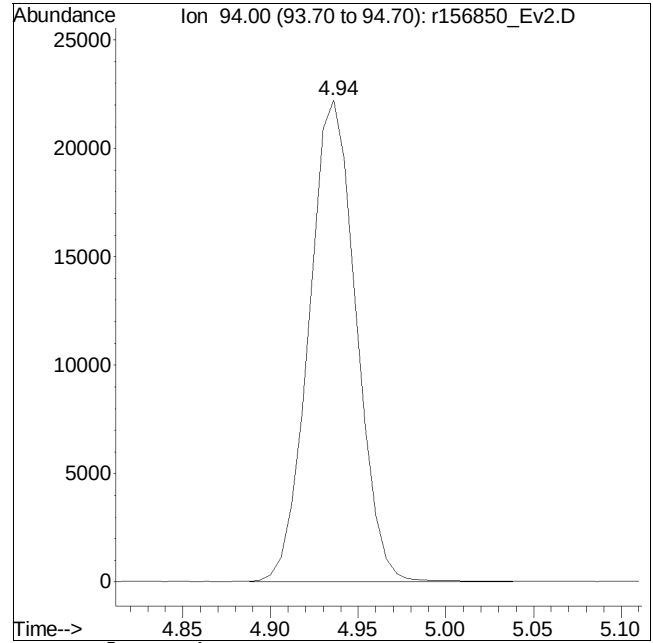
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #8: bromomethane



Original Peak Response = 0



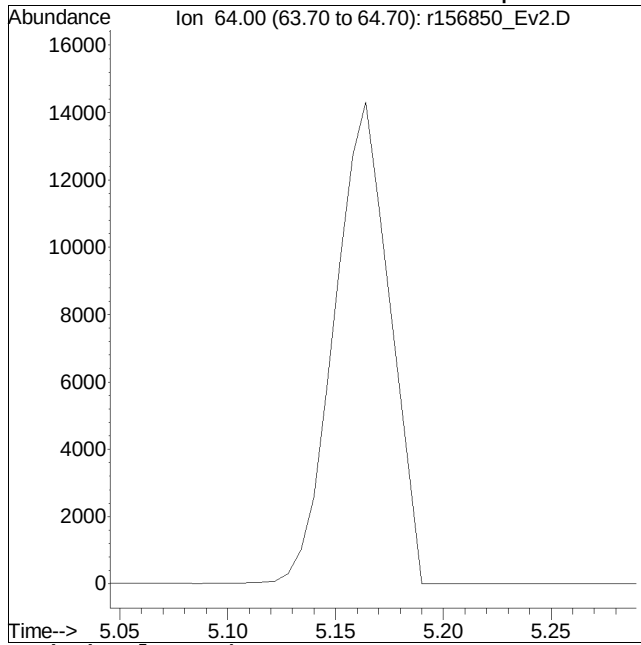
Manual Peak Response = 41564 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

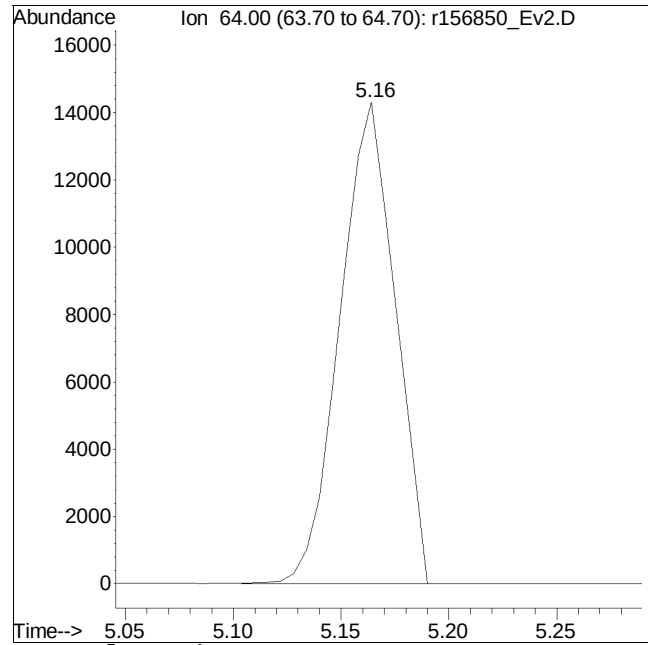
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #9: chloroethane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

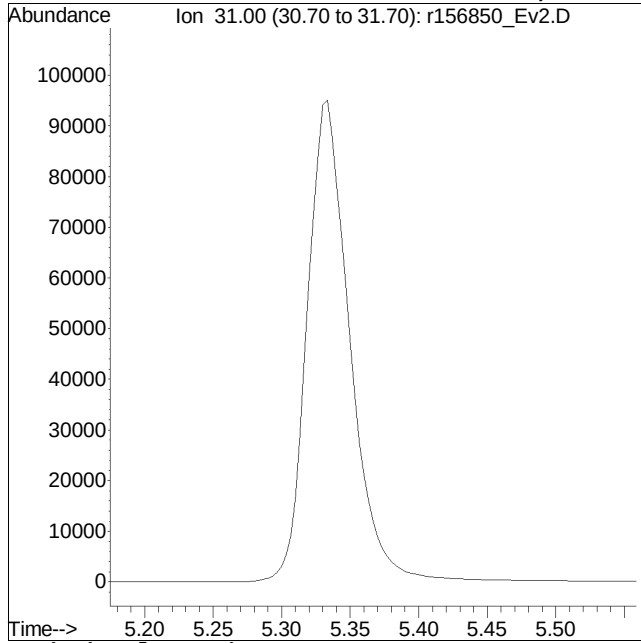


Manual Peak Response = 18199 M2

Manual Integration/Negative Proof Report

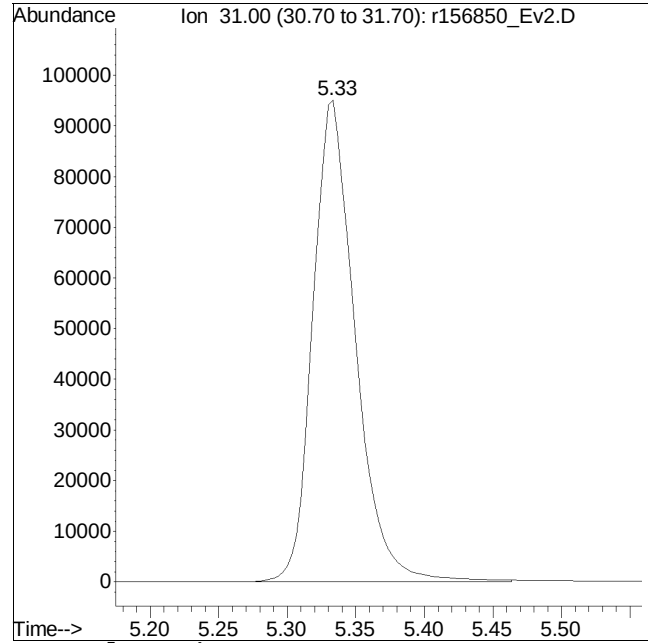
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #10: ethanol



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

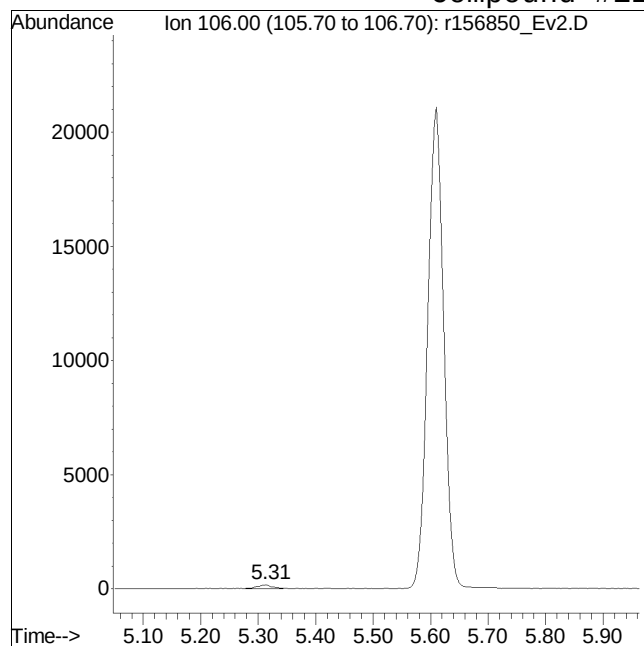


Manual Peak Response = 205227 M2

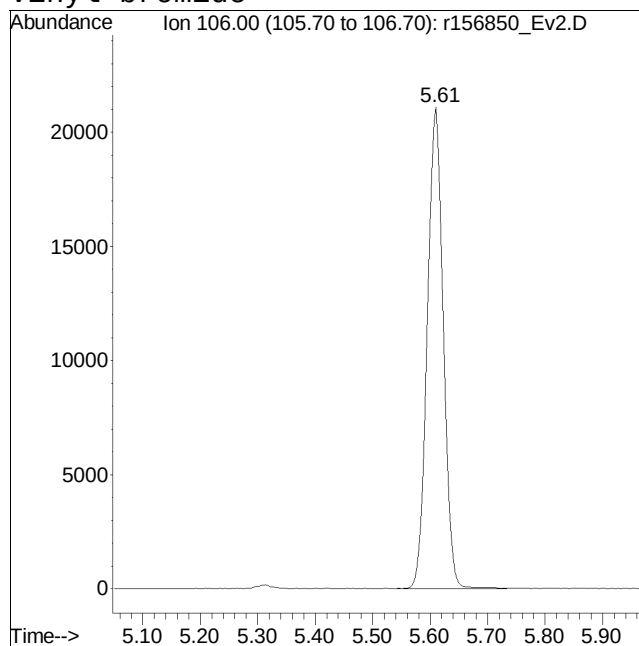
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #11: vinyl bromide



Original Peak Response = 309



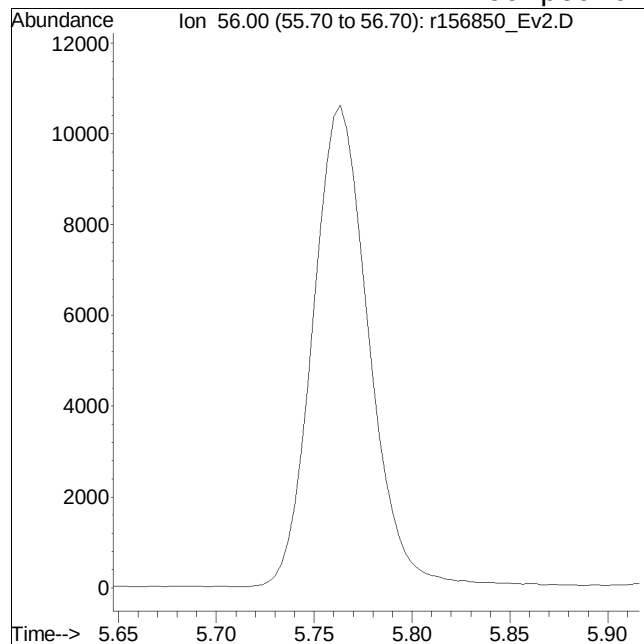
Manual Peak Response = 40727 M3

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.

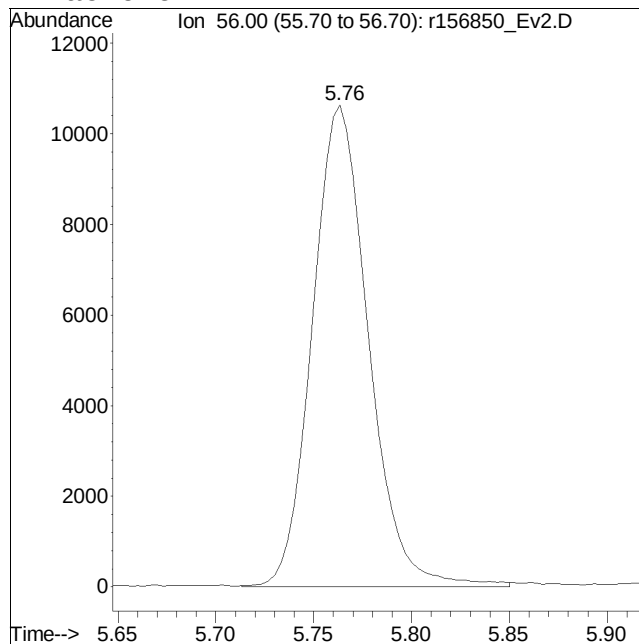
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #12: acrolein



Original Peak Response = 0



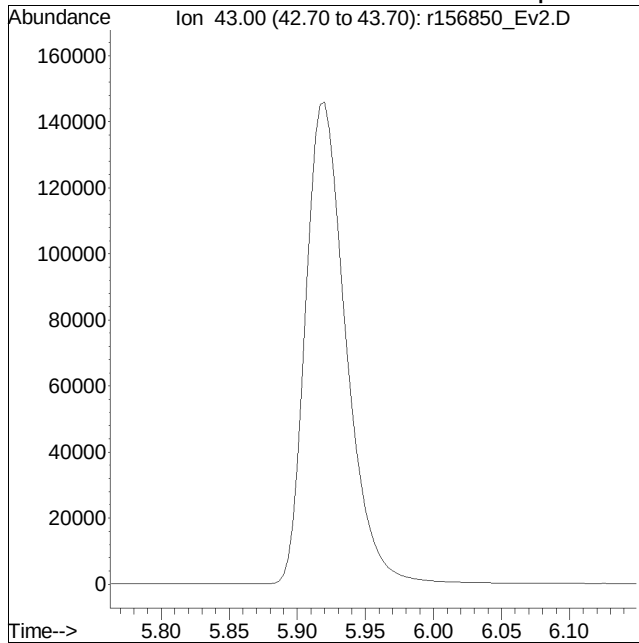
Manual Peak Response = 21201 M3

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.

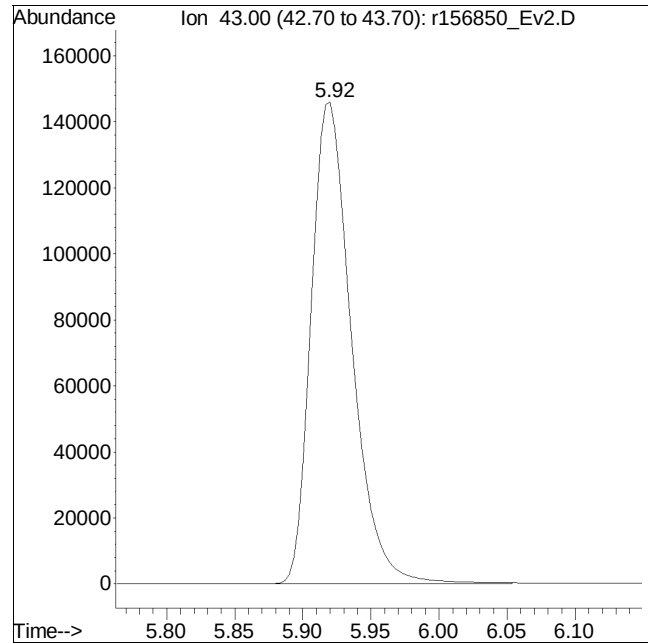
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #13: acetone



Original Peak Response = 0



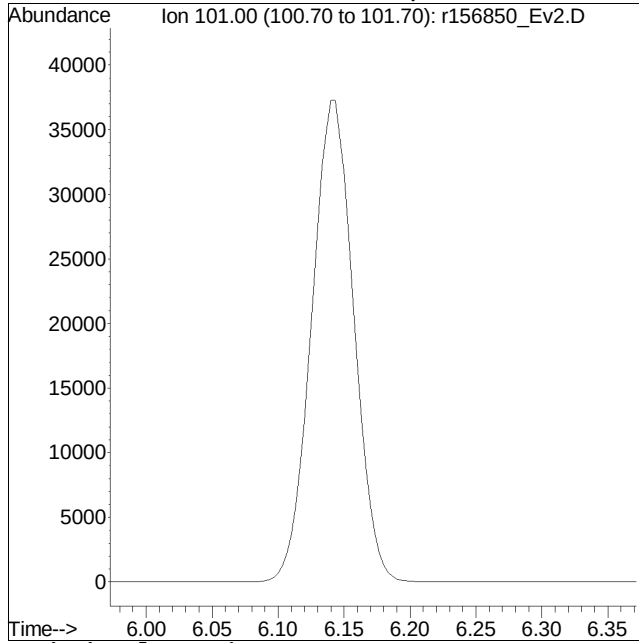
Manual Peak Response = 302359 M3

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.

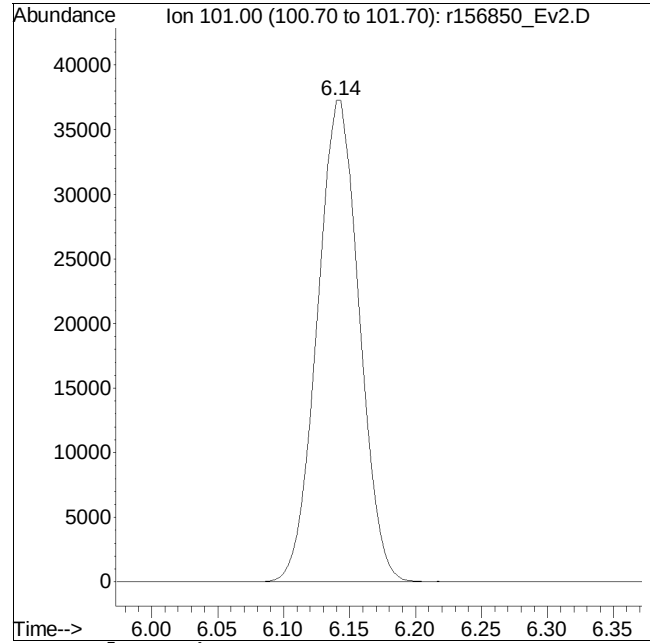
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #14: trichlorofluoromethane



Original Peak Response = 0



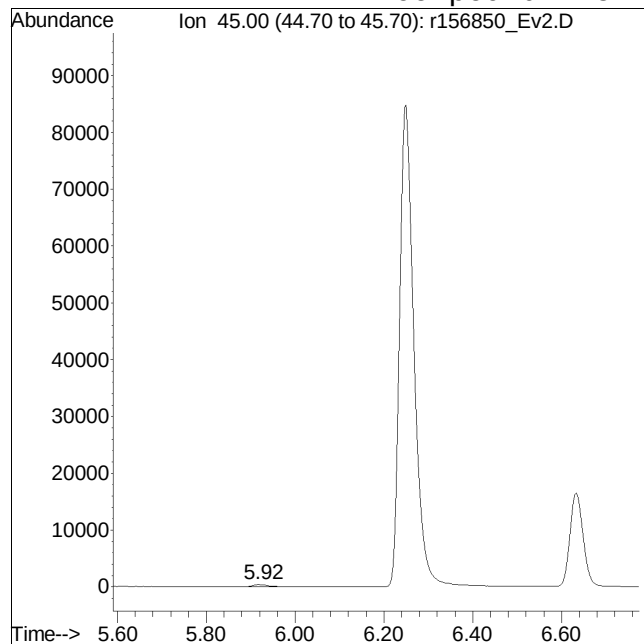
Manual Peak Response = 82789 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

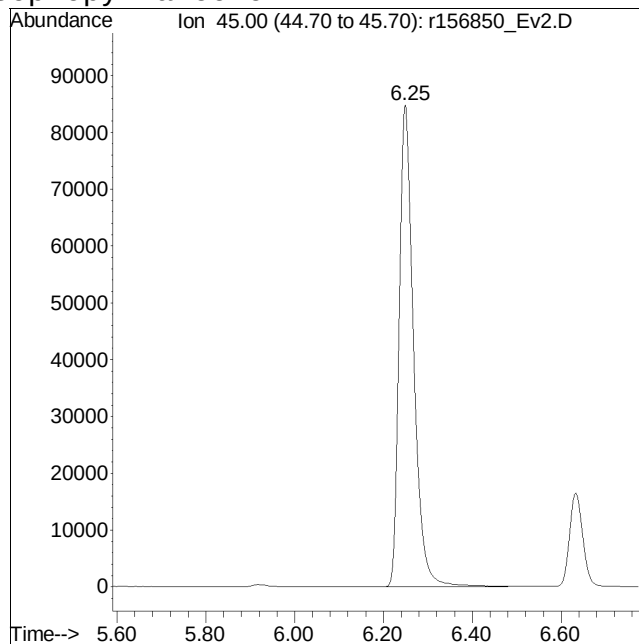
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #15: isopropyl alcohol



Original Peak Response = 736

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.

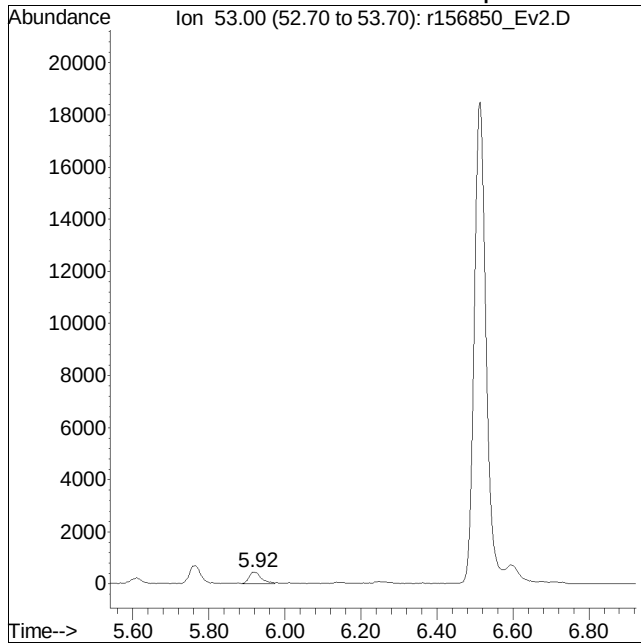


Manual Peak Response = 191260 M3

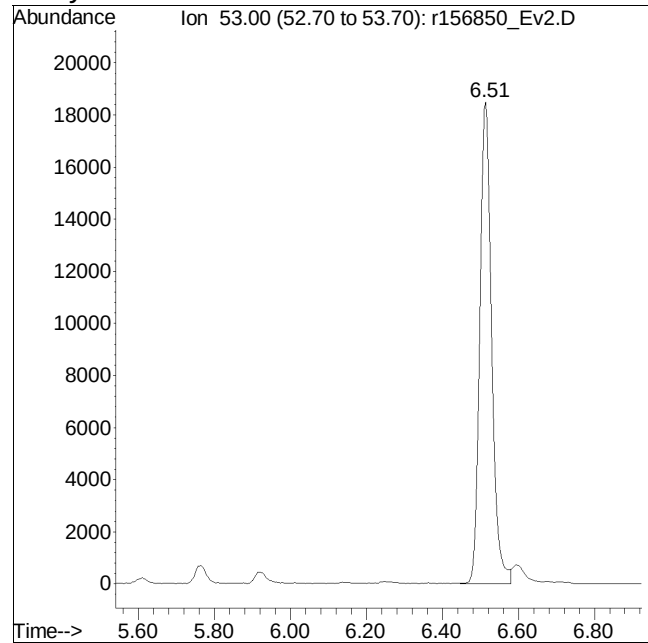
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #16: acrylonitrile



Original Peak Response = 1028



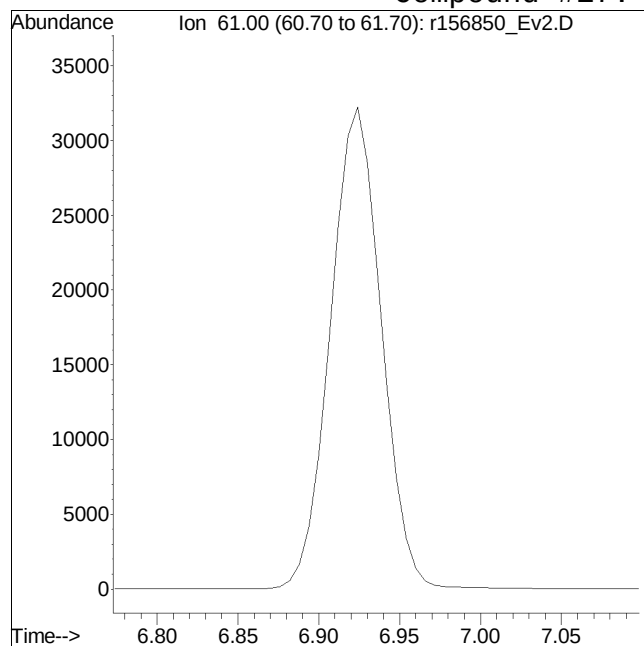
Manual Peak Response = 39812 M3

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

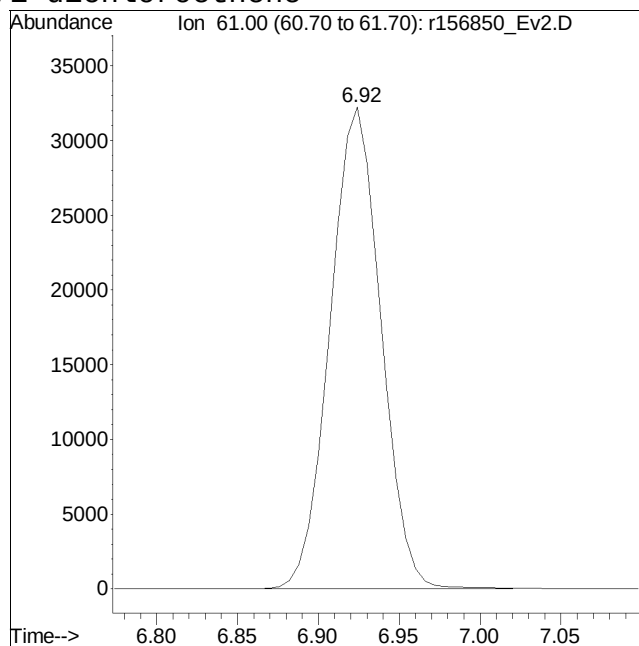
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #17: 1,1-dichloroethene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

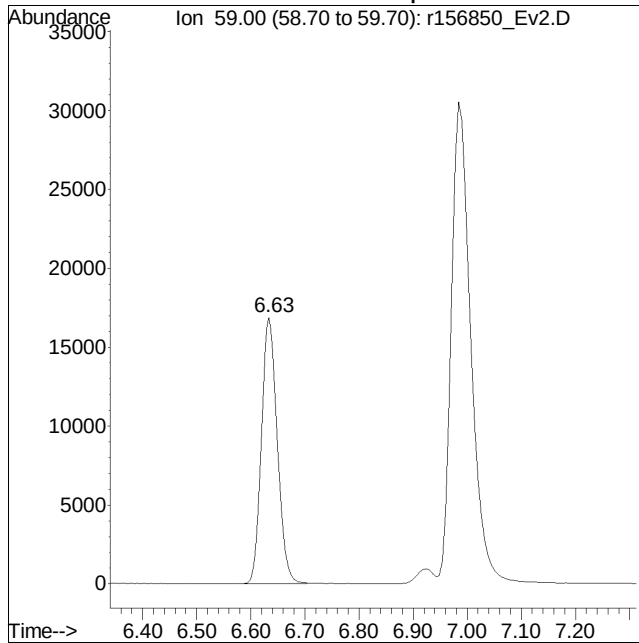


Manual Peak Response = 70632 M2

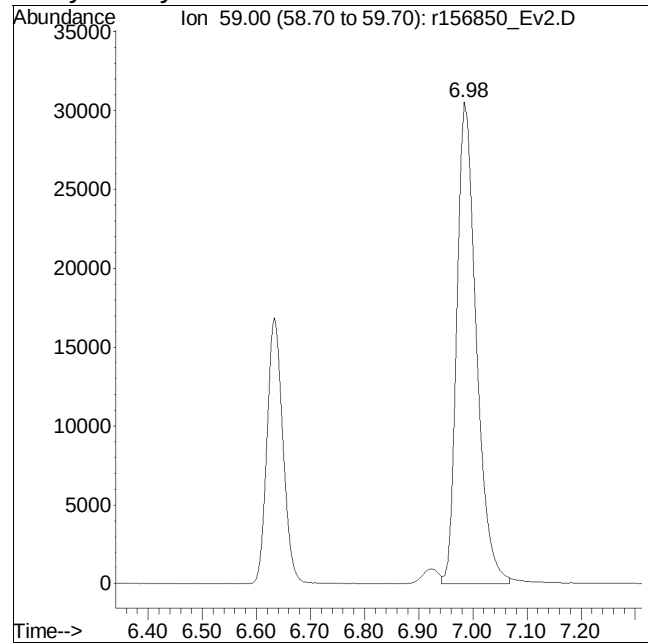
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #18: tertiary butyl alcohol



Original Peak Response = 34234



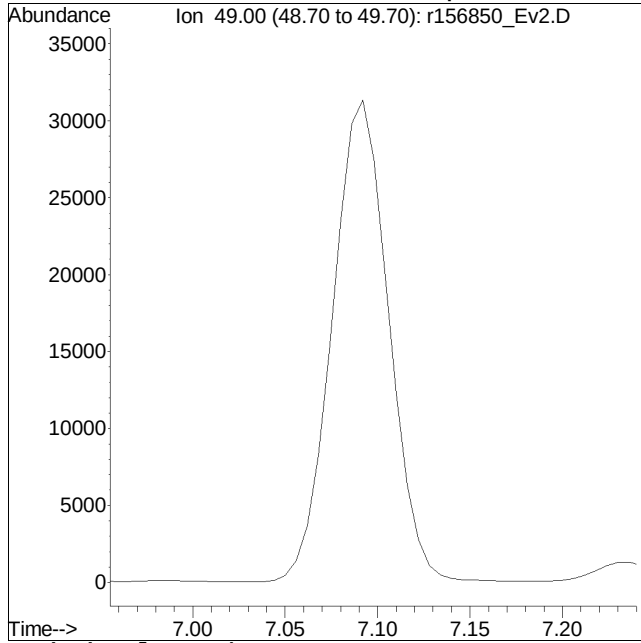
Manual Peak Response = 76275 M3

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

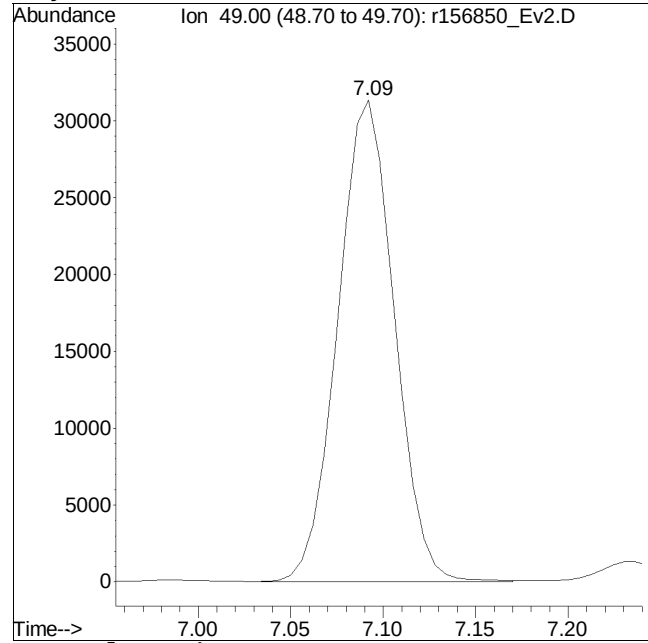
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #19: methylene chloride



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

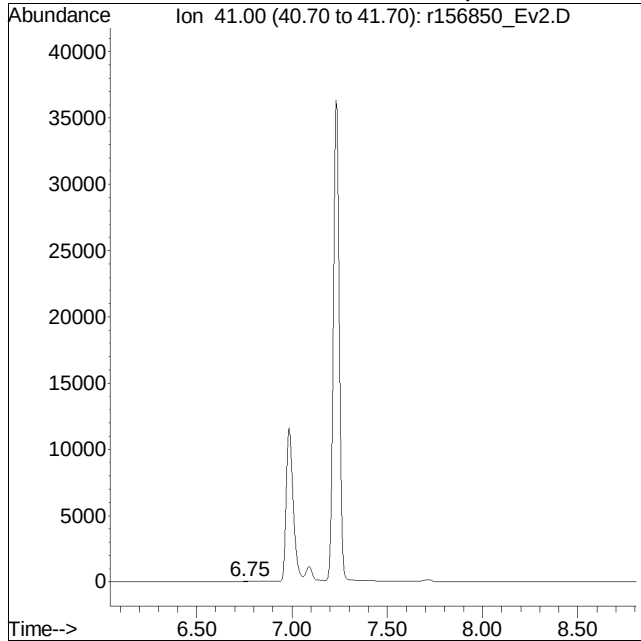


Manual Peak Response = 66750 M2

Manual Integration/Negative Proof Report

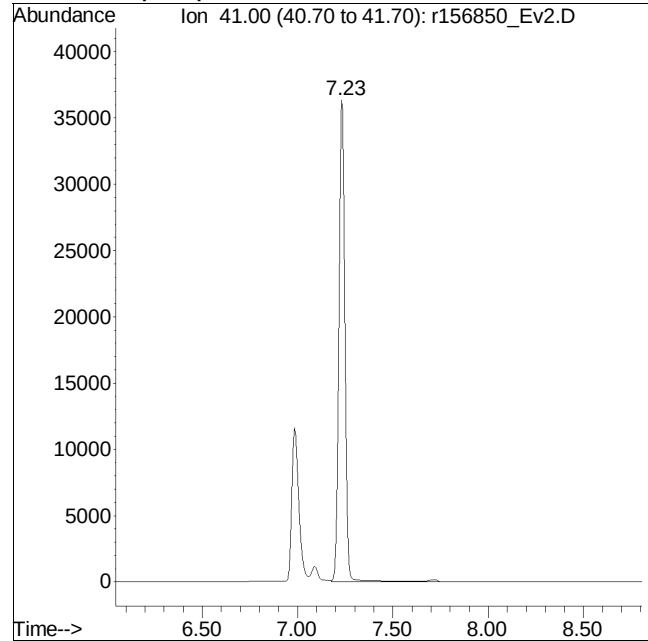
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #20: 3-chloropropene



Original Peak Response = 133

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.

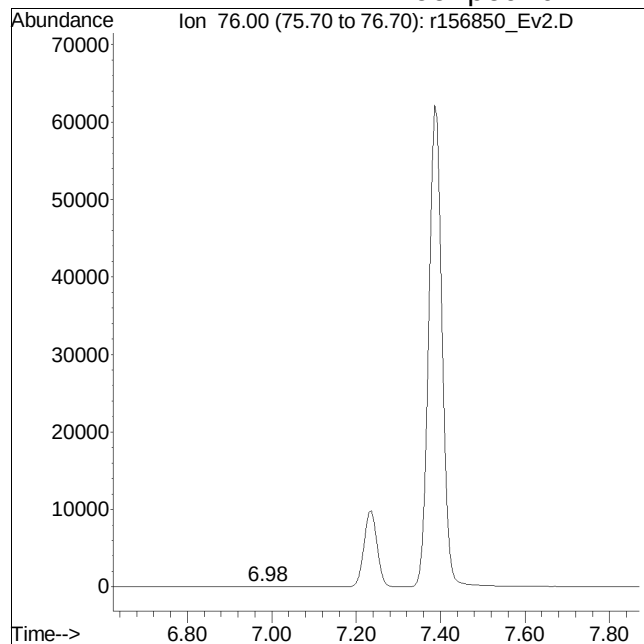


Manual Peak Response = 92133 M3

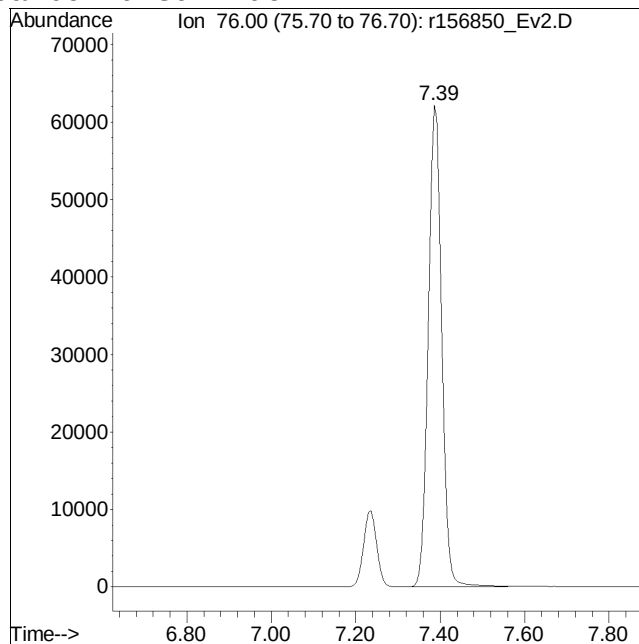
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #21: carbon disulfide



Original Peak Response = 68



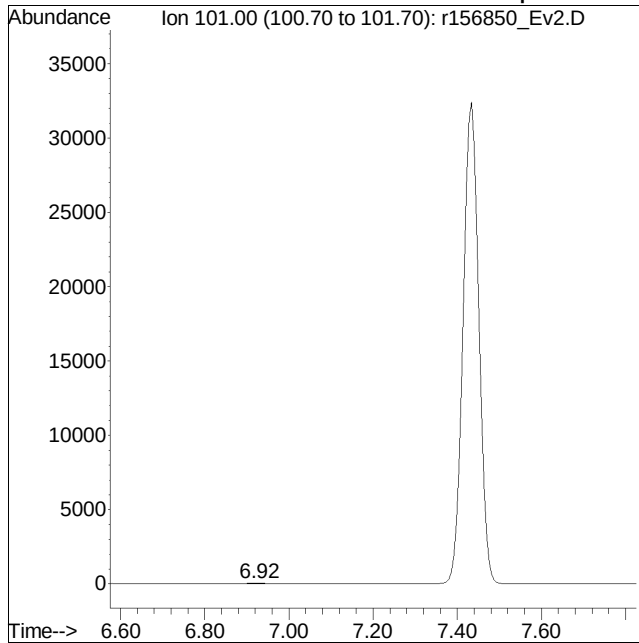
Manual Peak Response = 136963 M3

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.

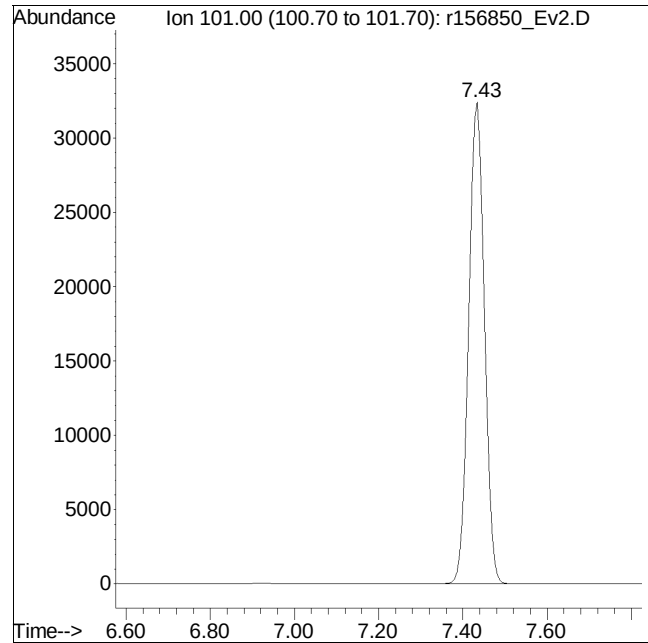
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #22: Freon 113



Original Peak Response = 109



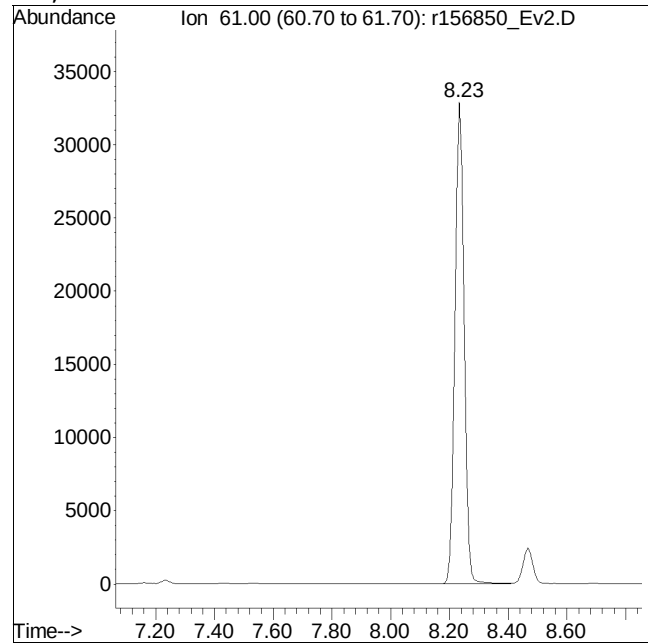
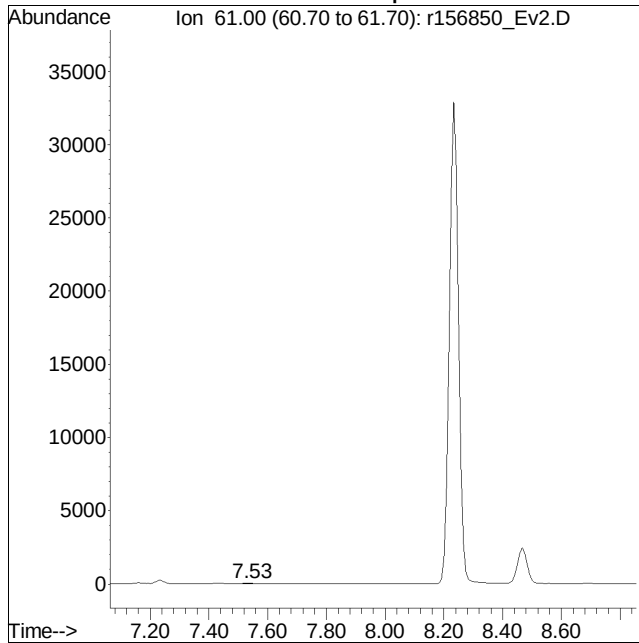
Manual Peak Response = 84172 M3

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 : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #23: trans-1,2-dichloroethene



Original Peak Response = 111

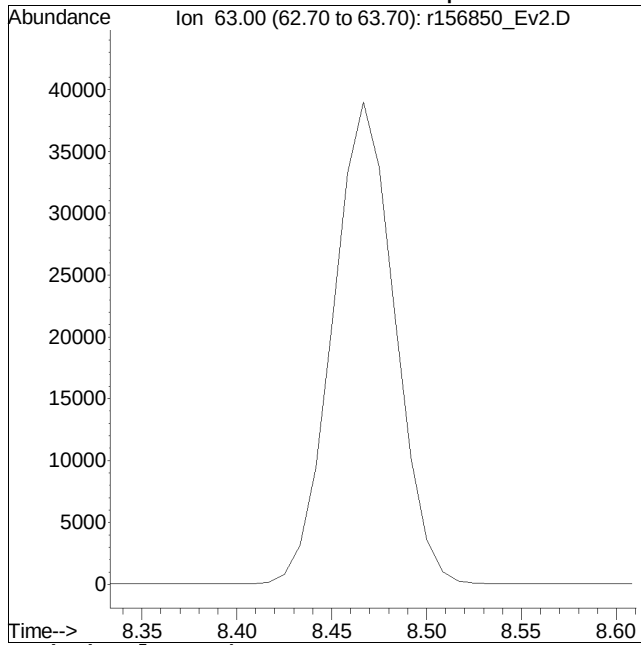
Manual Peak Response = 71484 M3

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

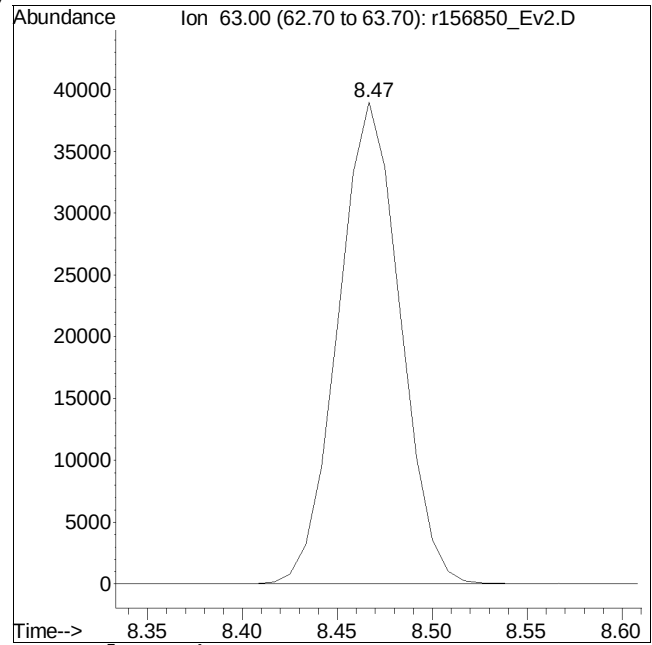
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #24: 1,1-dichloroethane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

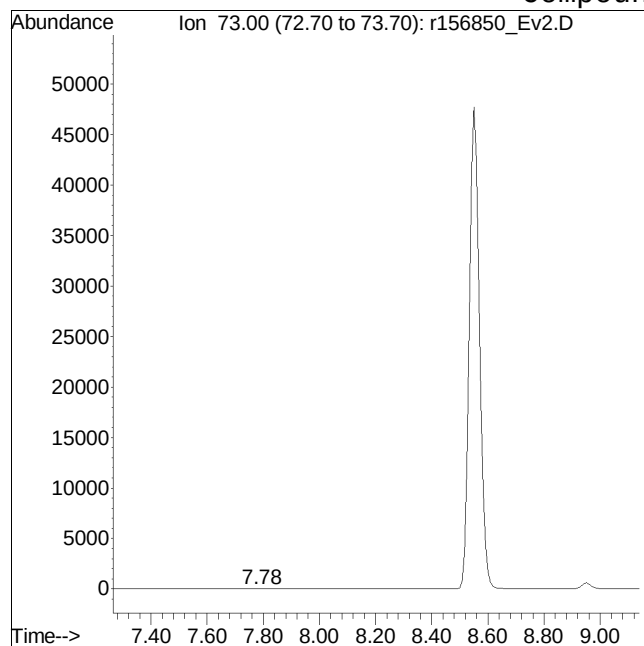


Manual Peak Response = 88666 M2

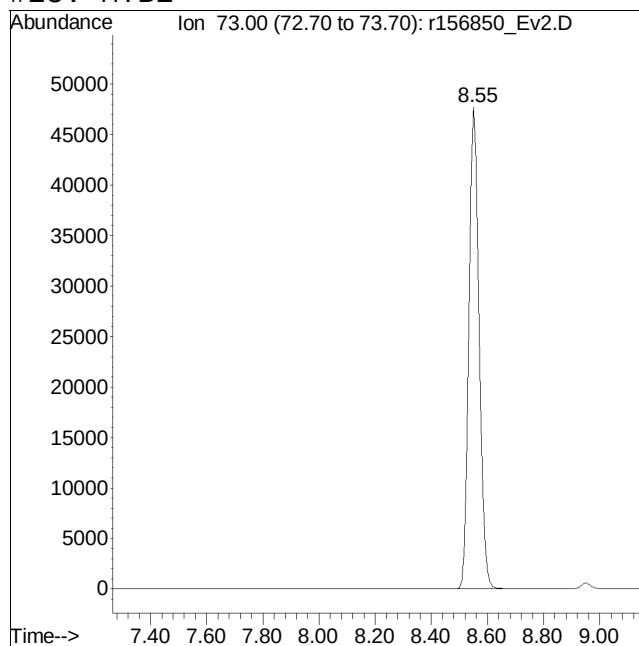
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #25: MTBE



Original Peak Response = 58



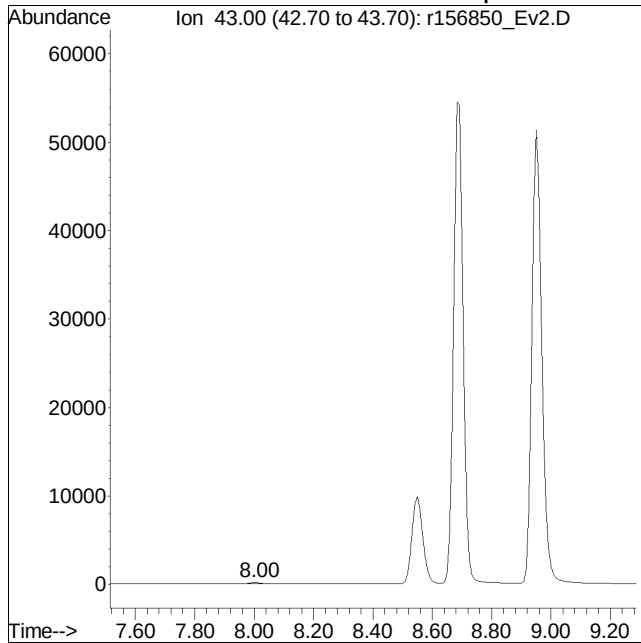
Manual Peak Response = 120745 M3

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.

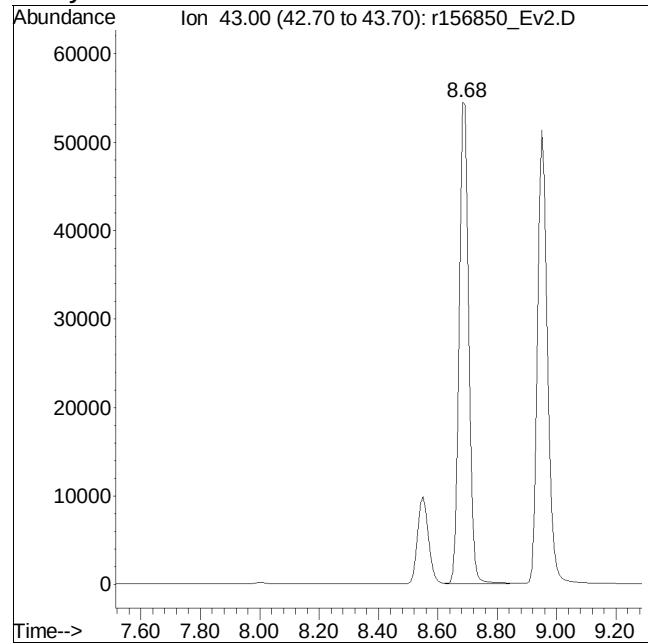
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #26: vinyl acetate



Original Peak Response = 382



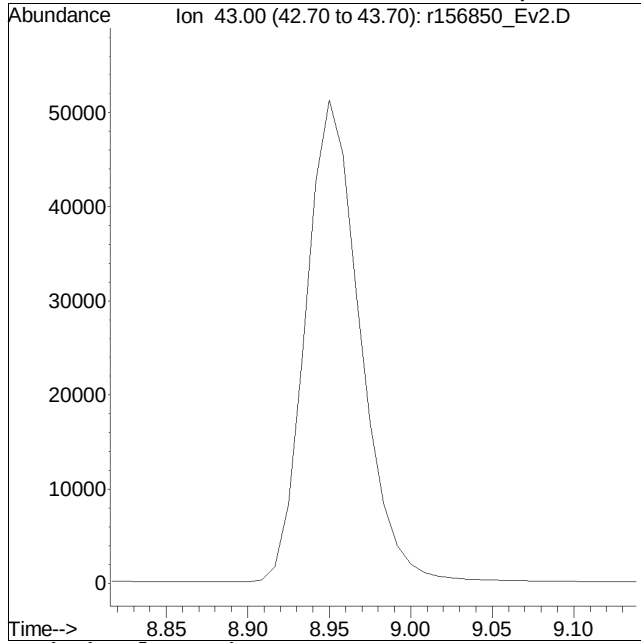
Manual Peak Response = 122074 M3

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

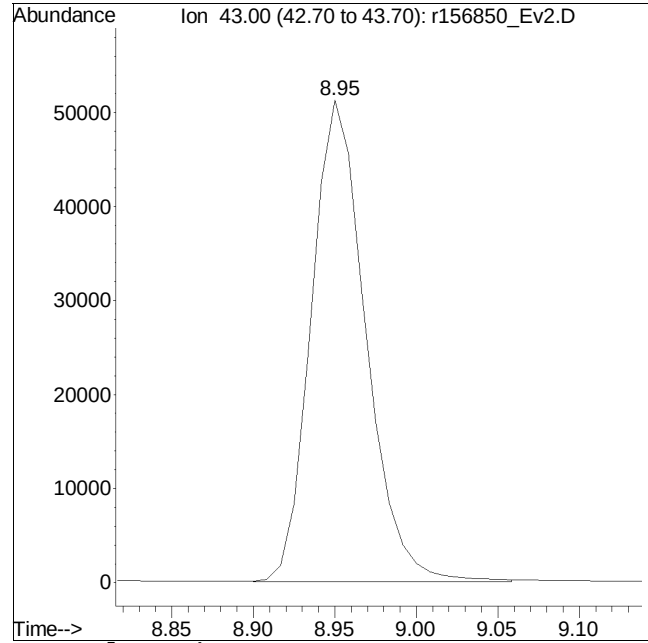
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #27: 2-butanone



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

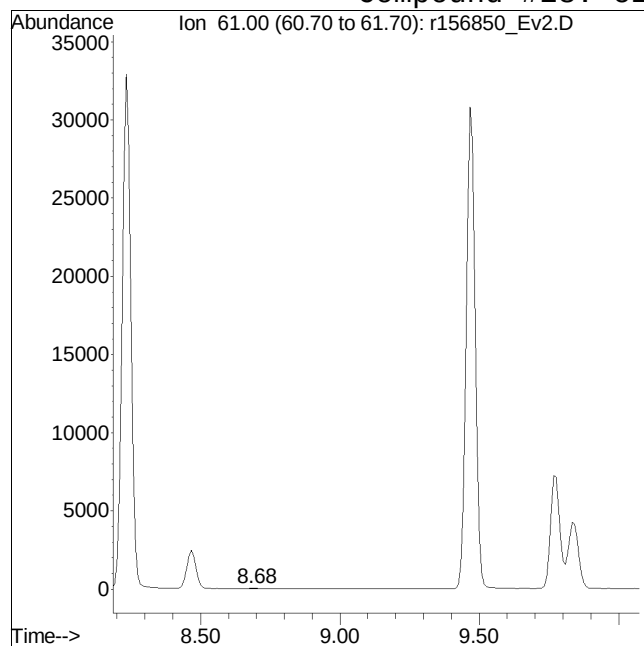


Manual Peak Response = 119475 M2

Manual Integration/Negative Proof Report

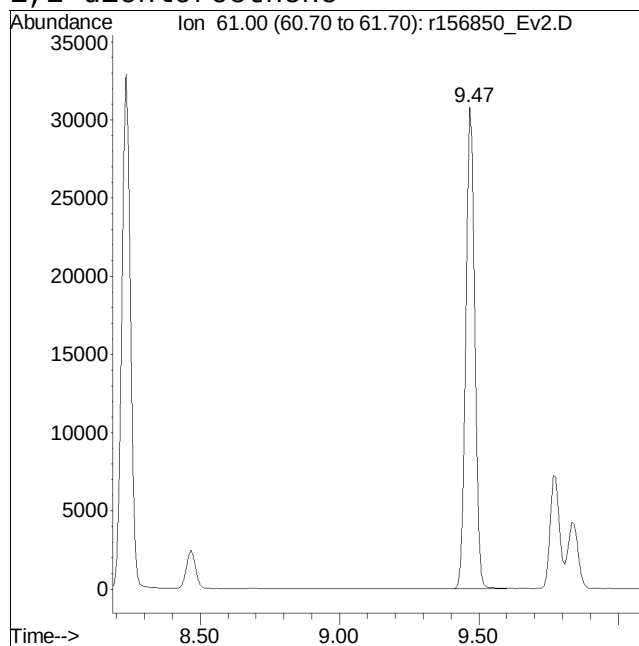
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #28: cis-1,2-dichloroethene



Original Peak Response = 80

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.

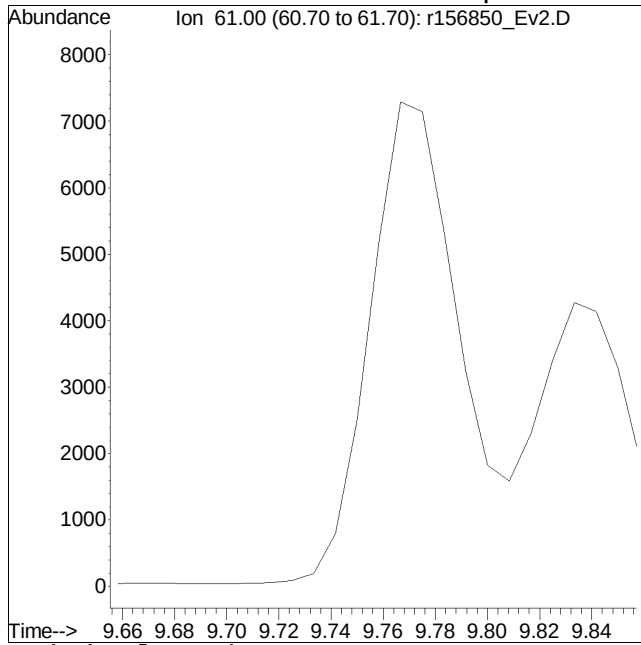


Manual Peak Response = 69003 M3

Manual Integration/Negative Proof Report

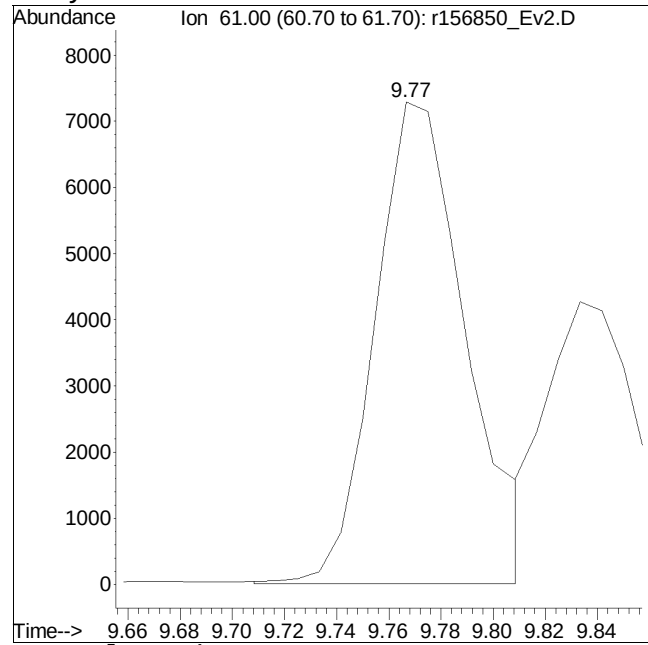
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #29: Ethyl Acetate



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

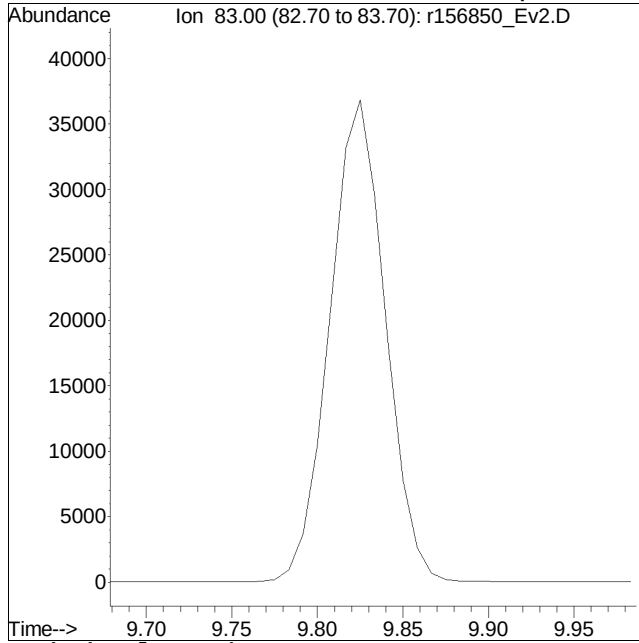


Manual Peak Response = 17566 M2

Manual Integration/Negative Proof Report

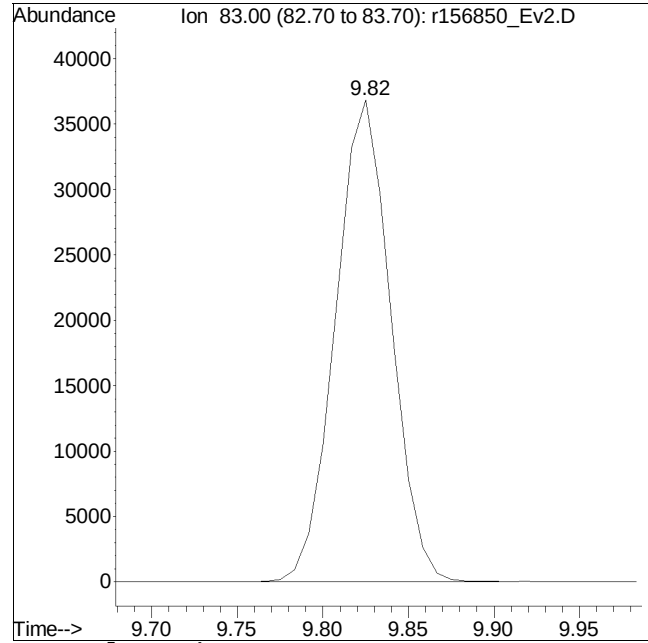
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #30: chloroform



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

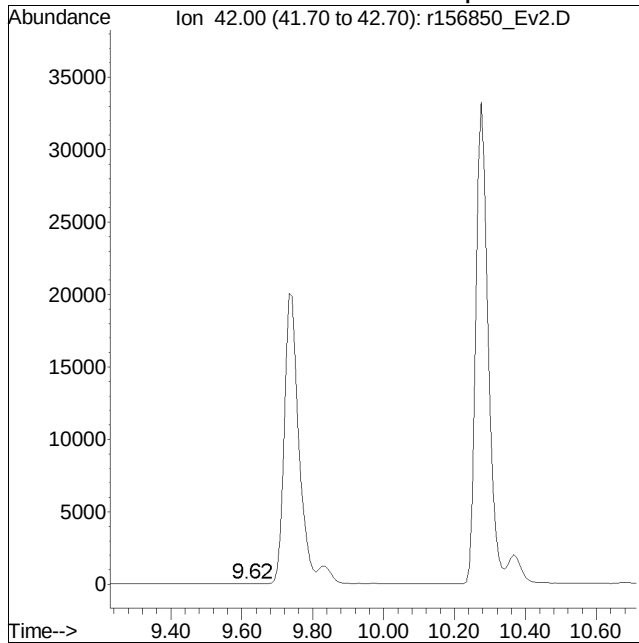


Manual Peak Response = 83064 M2

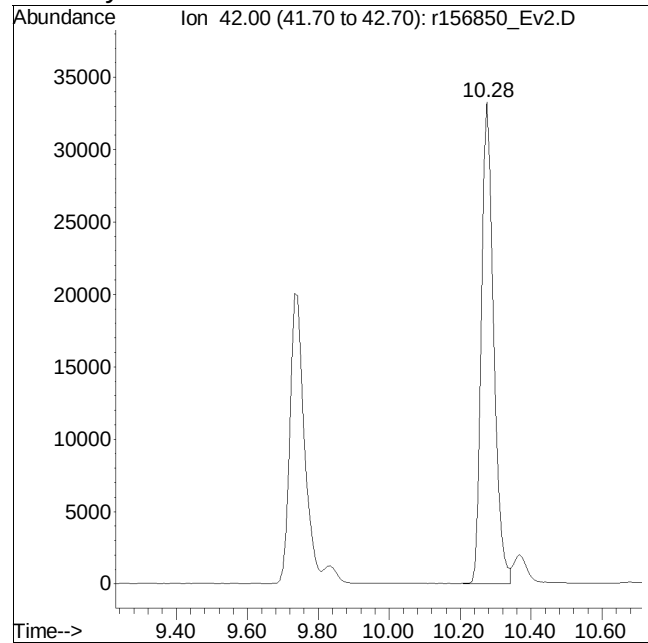
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #31: Tetrahydrofuran



Original Peak Response = 55



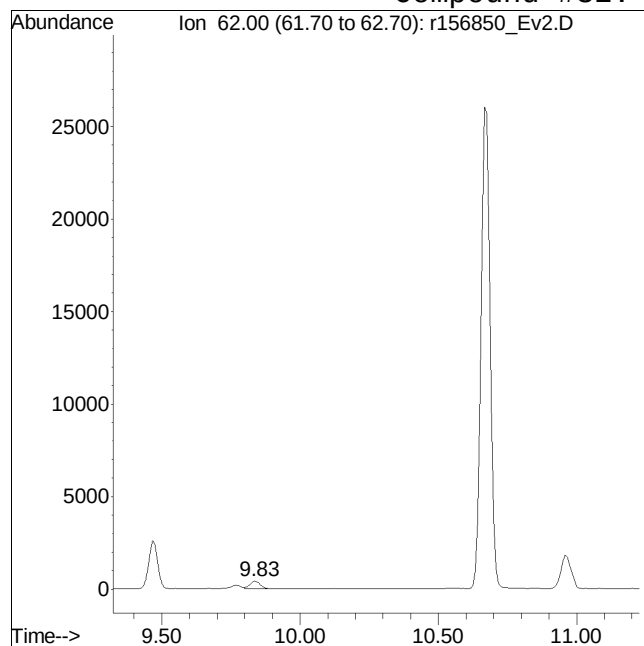
Manual Peak Response = 80425 M3

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.

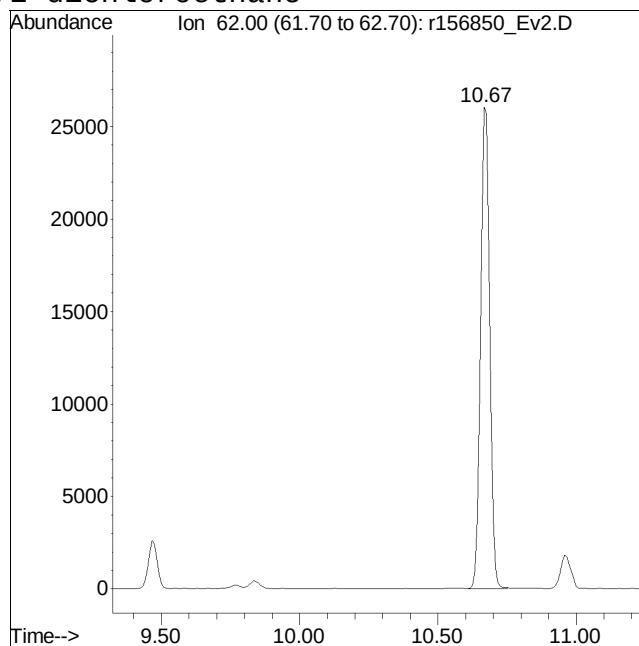
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #32: 1,2-dichloroethane



Original Peak Response = 1045



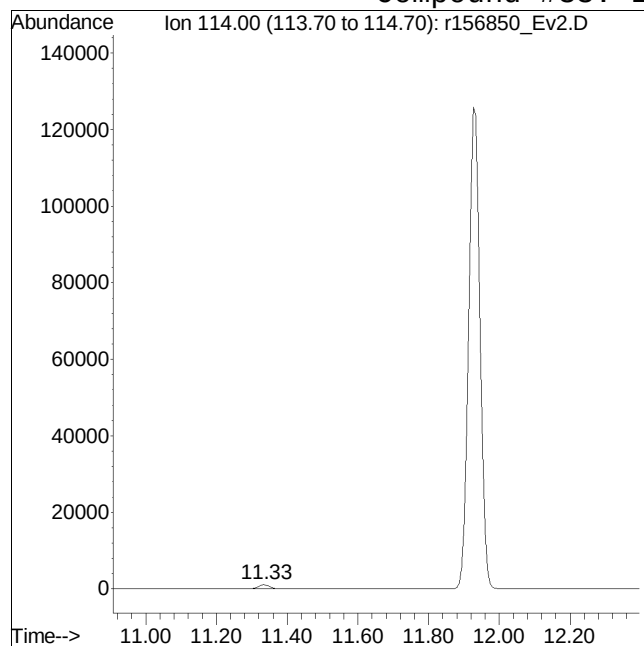
Manual Peak Response = 59713 M3

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.

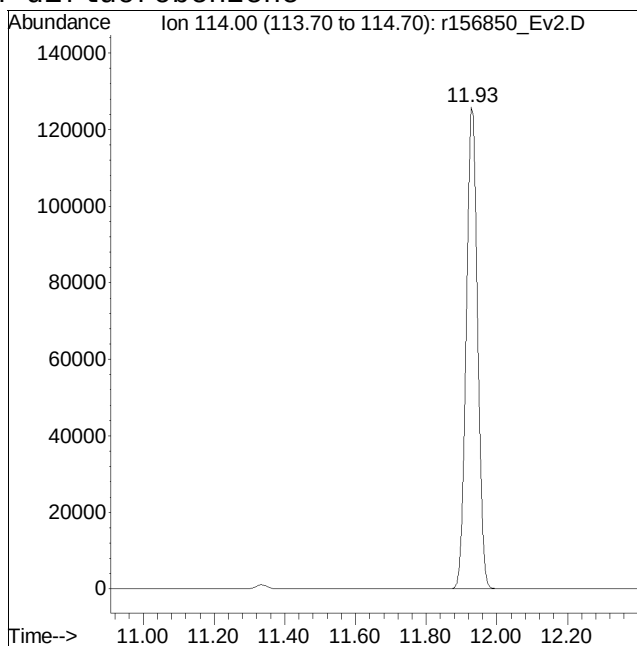
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #33: 1,4-difluorobenzene



Original Peak Response = 2518



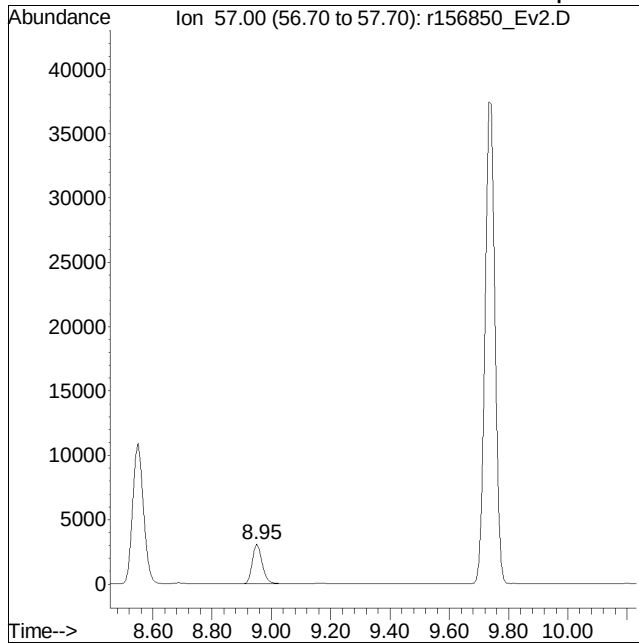
Manual Peak Response = 280369 M3

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.

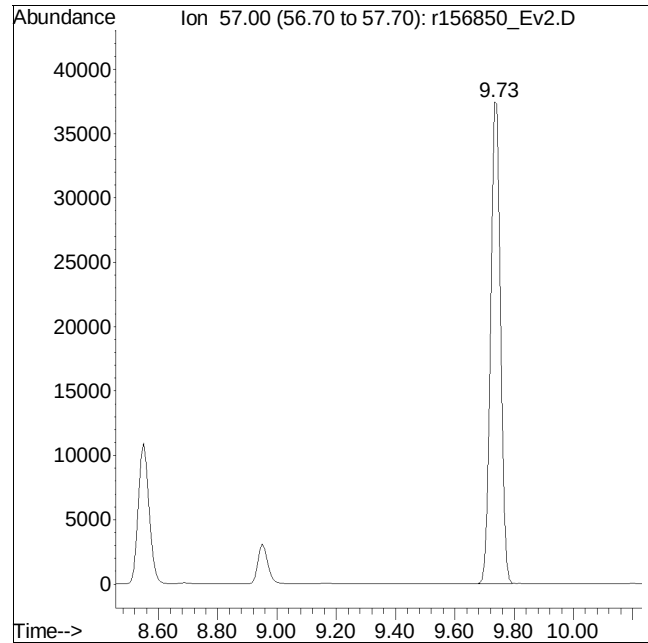
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #34: hexane



Original Peak Response = 7182



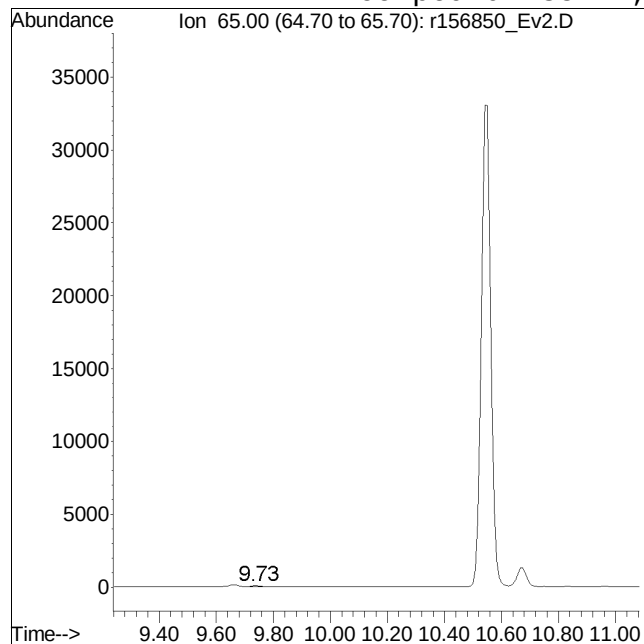
Manual Peak Response = 87148 M3

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.

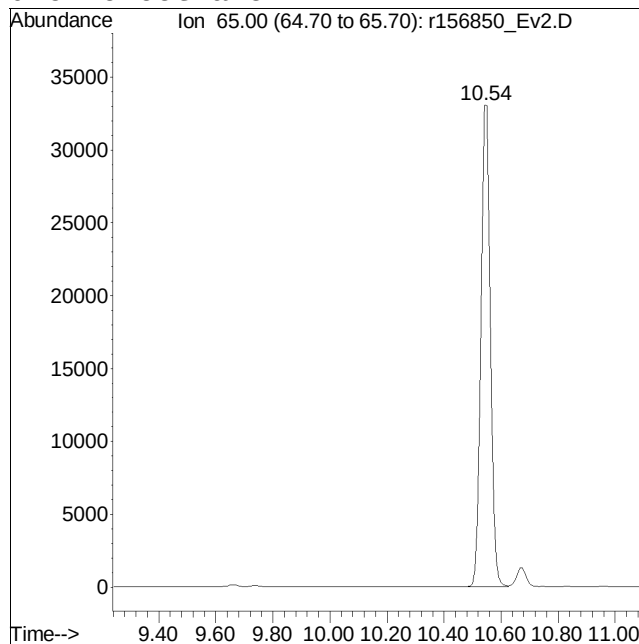
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #35: 1,2-dichloroethane-D4



Original Peak Response = 238



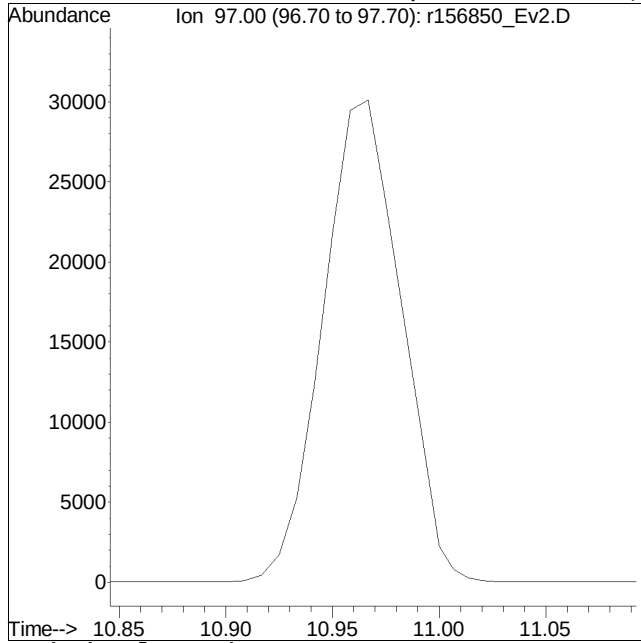
Manual Peak Response = 76173 M3

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.

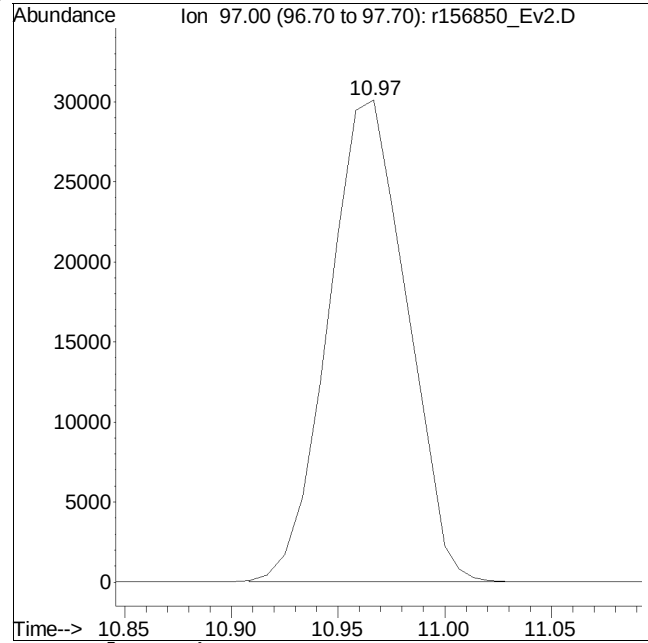
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #36: 1,1,1-trichloroethane



Original Peak Response = 0



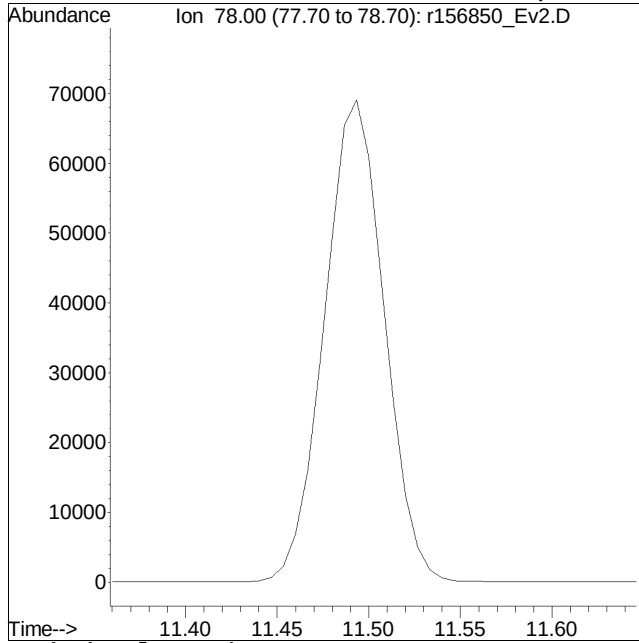
Manual Peak Response = 68814 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

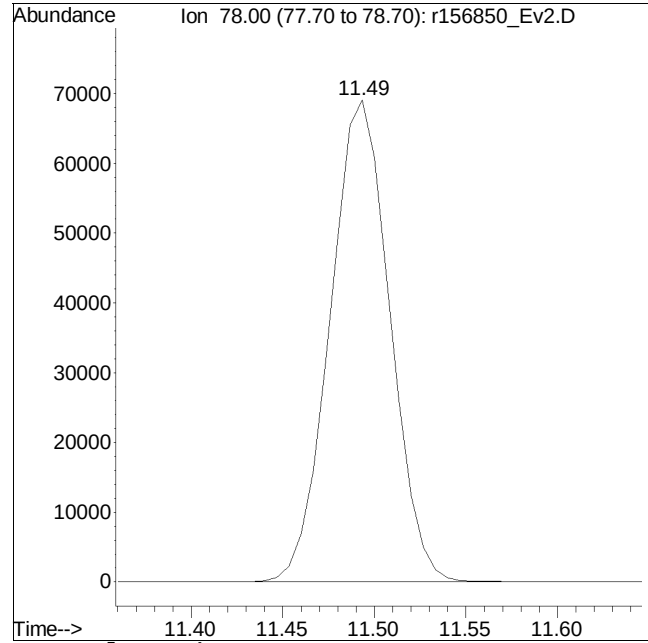
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #37: benzene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

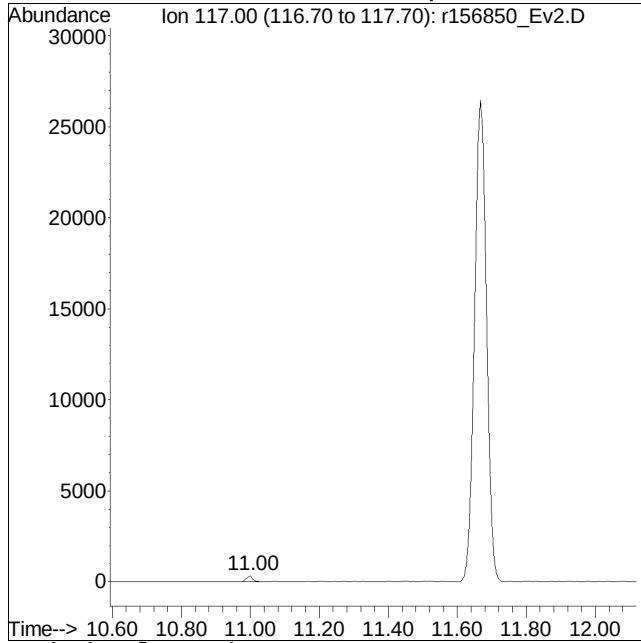


Manual Peak Response = 156792 M2

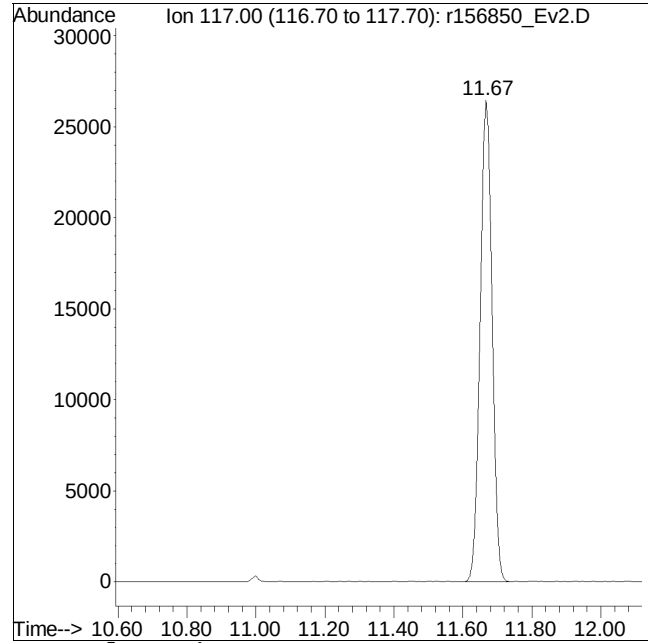
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #38: carbon tetrachloride



Original Peak Response = 395



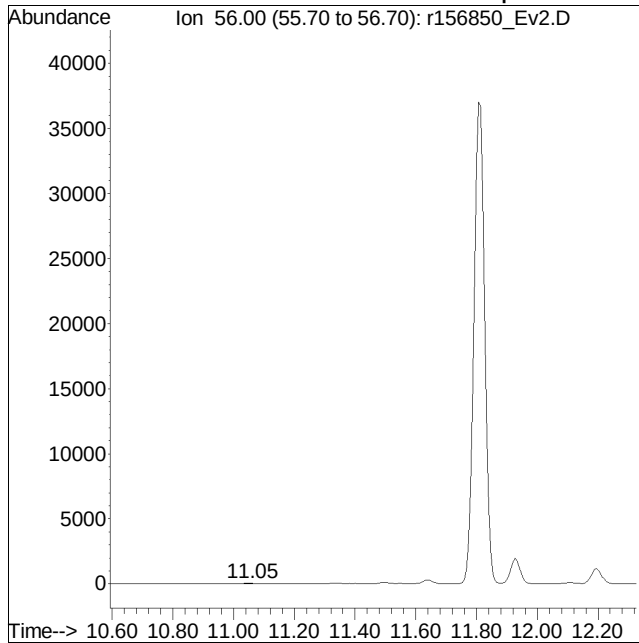
Manual Peak Response = 63870 M2

M2 = Peak not found by automatic integration algorithm.

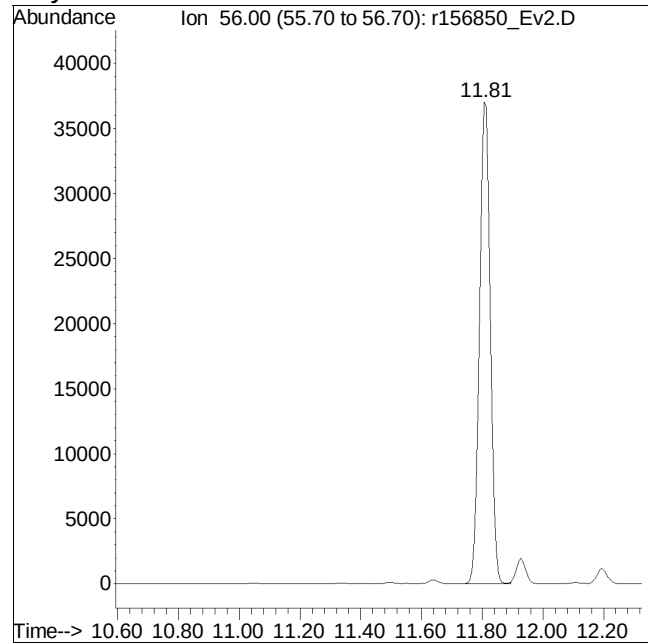
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #39: cyclohexane



Original Peak Response = 121



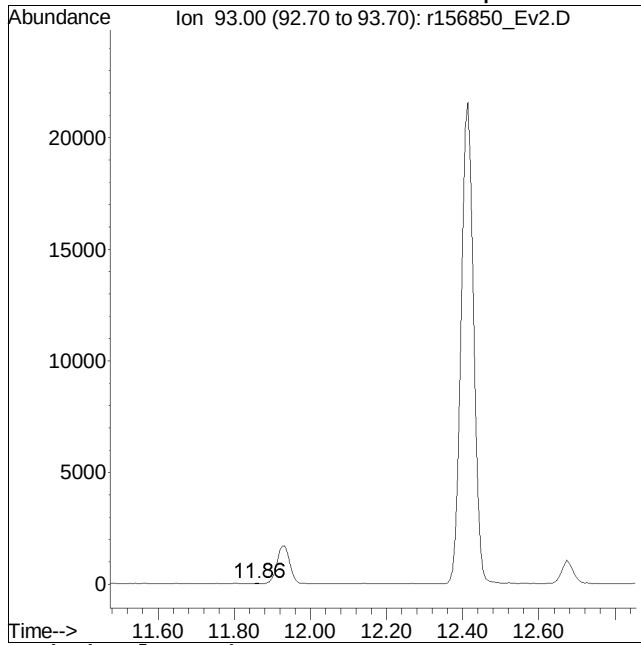
Manual Peak Response = 91199 M3

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.

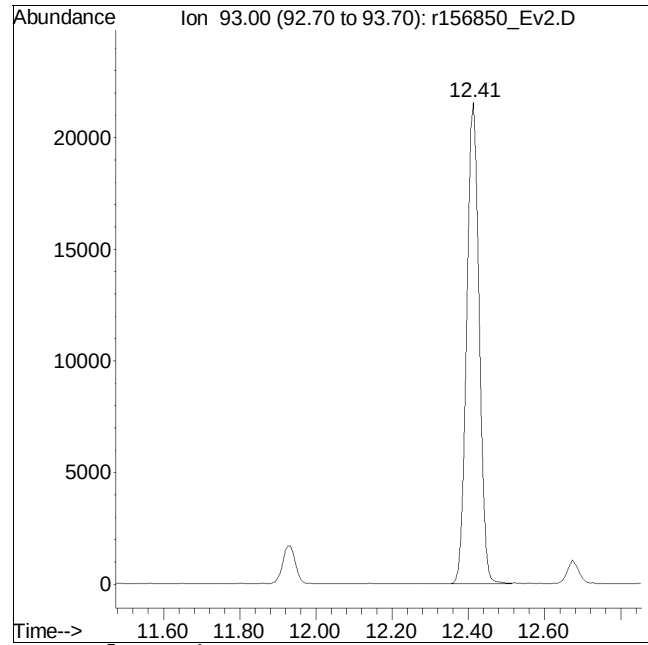
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #40: Dibromomethane



Original Peak Response = 59



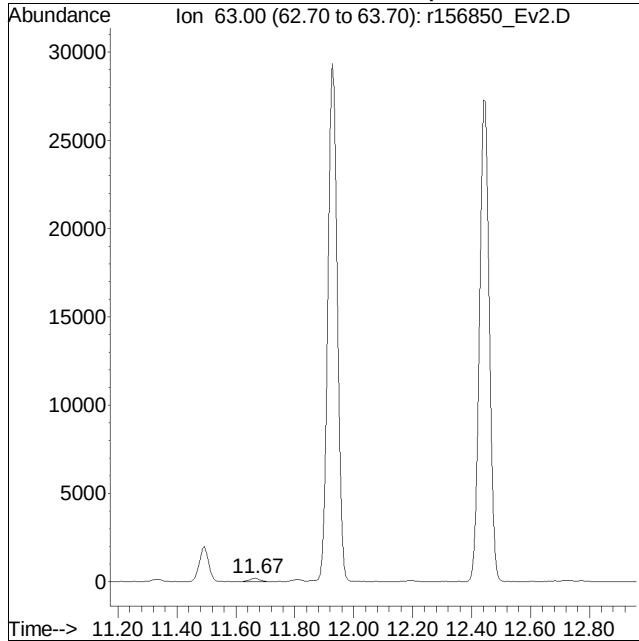
Manual Peak Response = 49153 M2

M2 = Peak not found by automatic integration algorithm.

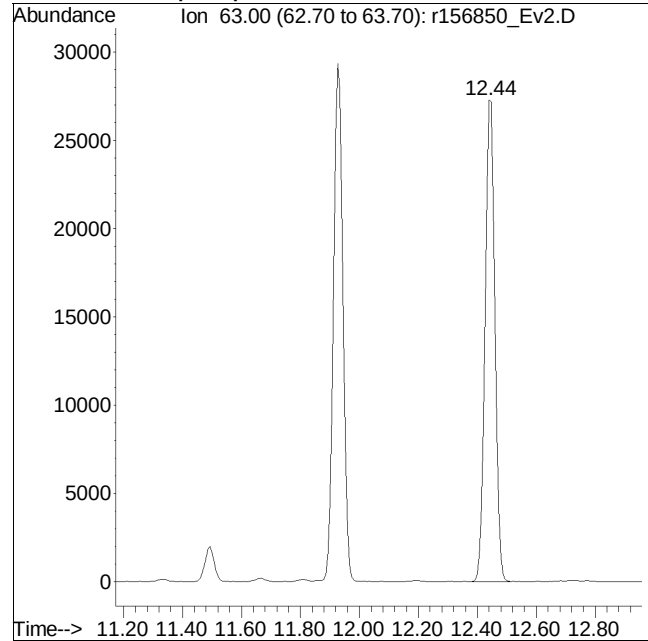
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #41: 1,2-dichloropropane



Original Peak Response = 480



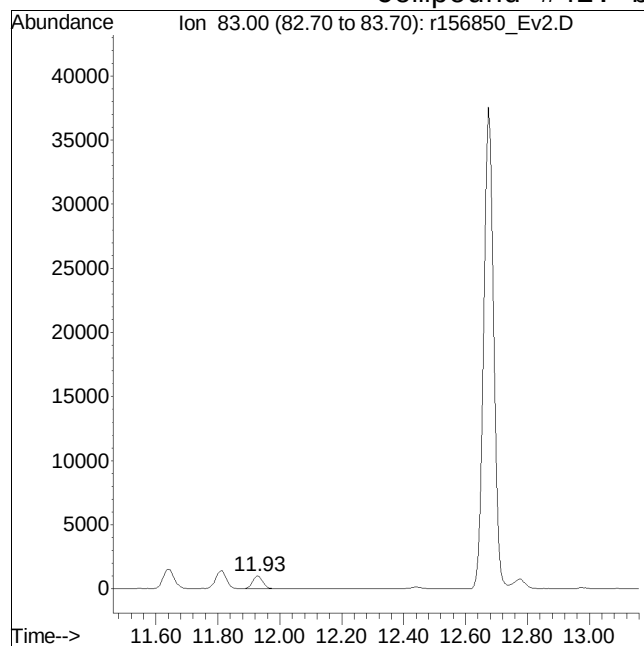
Manual Peak Response = 63142 M3

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.

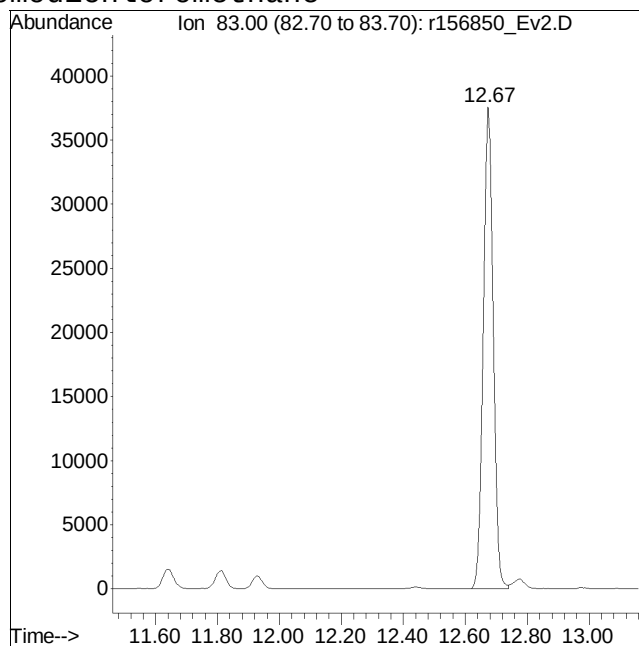
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #42: bromodichloromethane



Original Peak Response = 2357



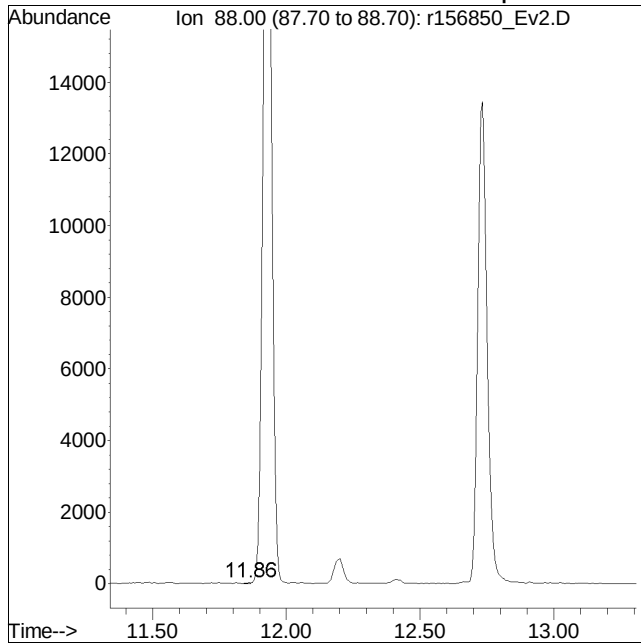
Manual Peak Response = 83926 M3

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

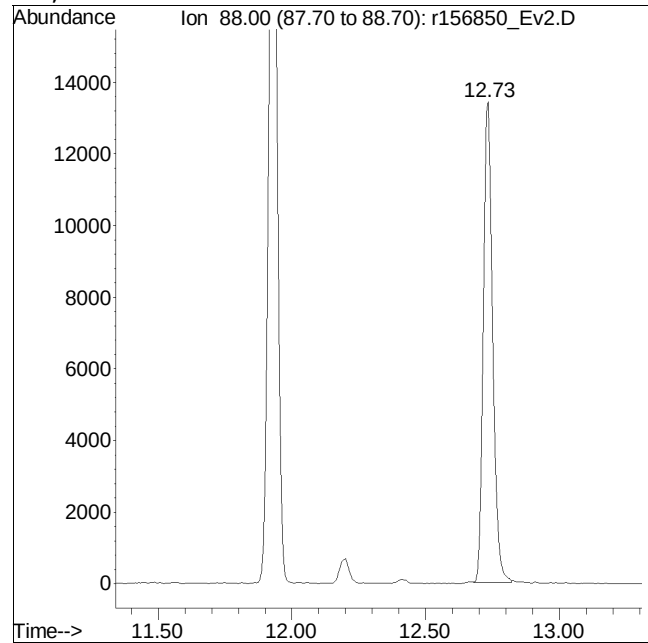
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #43: 1,4-dioxane



Original Peak Response = 54

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.

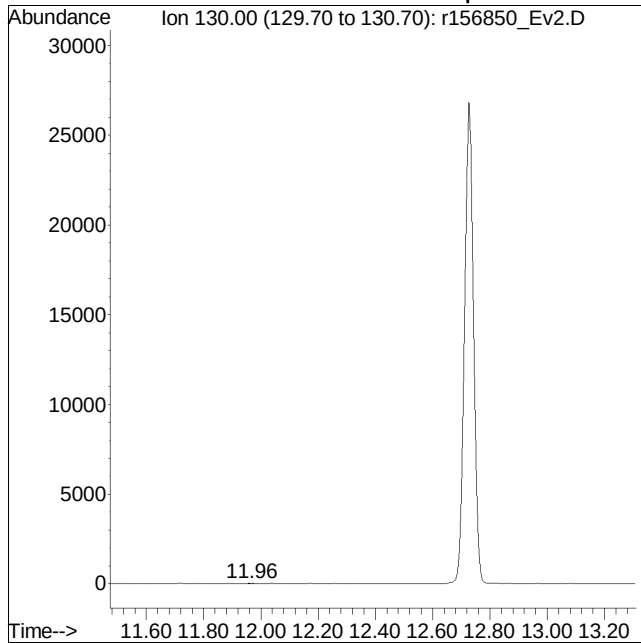


Manual Peak Response = 32595 M3

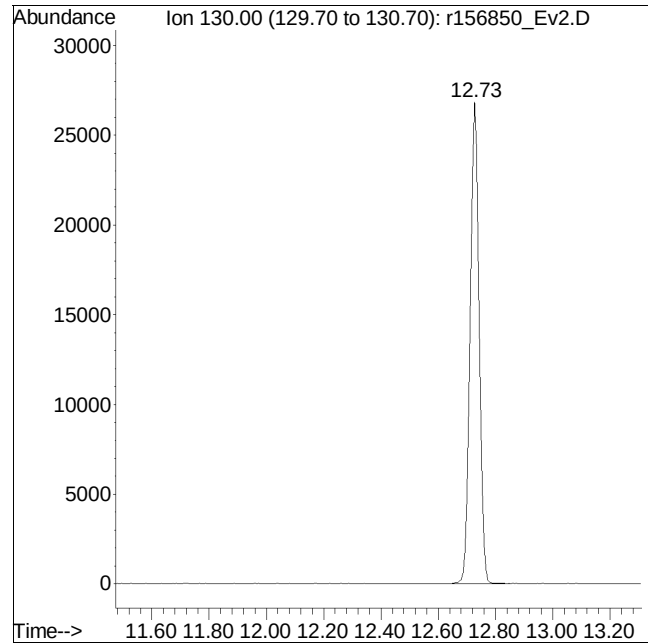
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #44: trichloroethene



Original Peak Response = 55



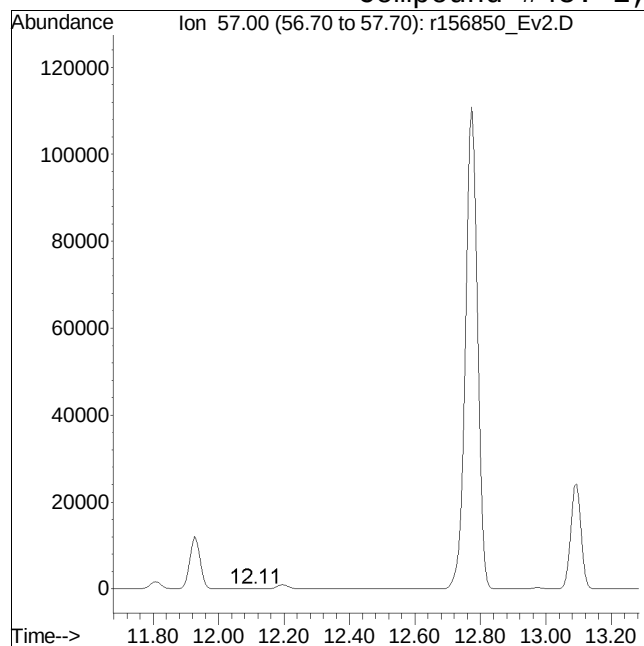
Manual Peak Response = 58732 M3

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.

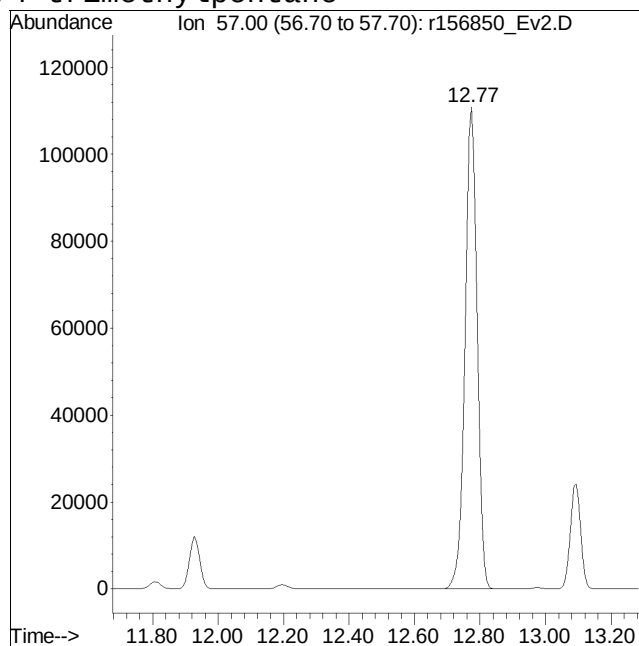
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #45: 2,2,4-trimethylpentane



Original Peak Response = 76



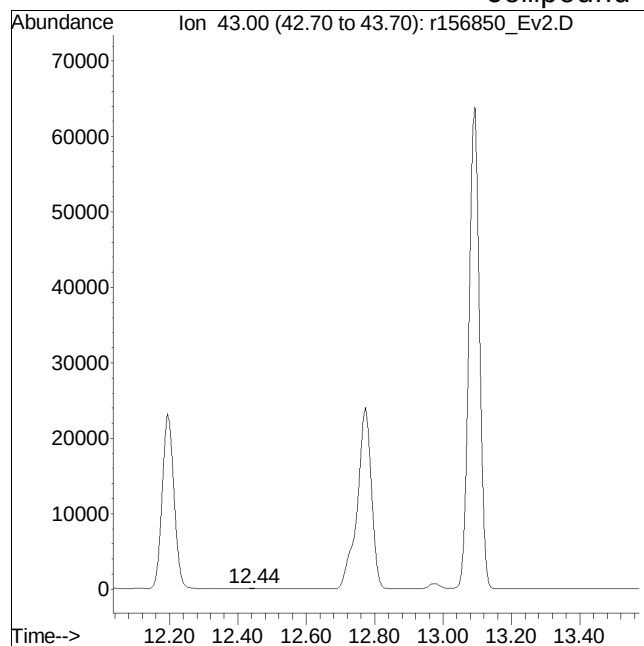
Manual Peak Response = 283600 M3

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.

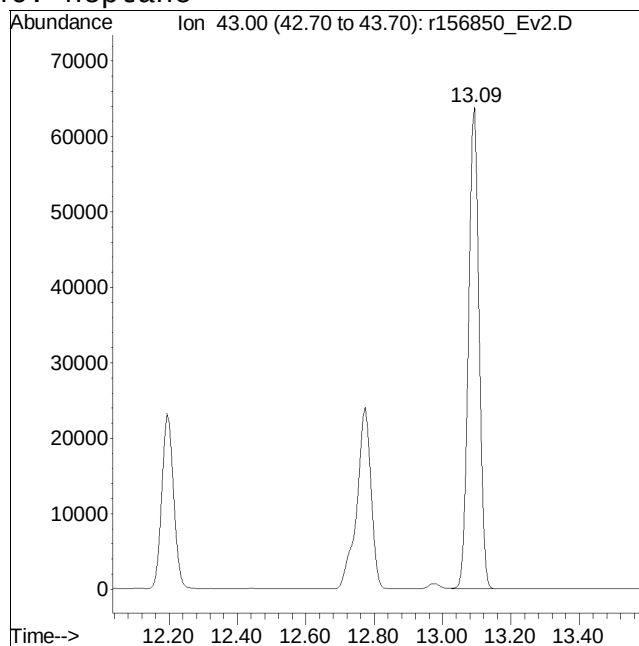
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #46: heptane



Original Peak Response = 74



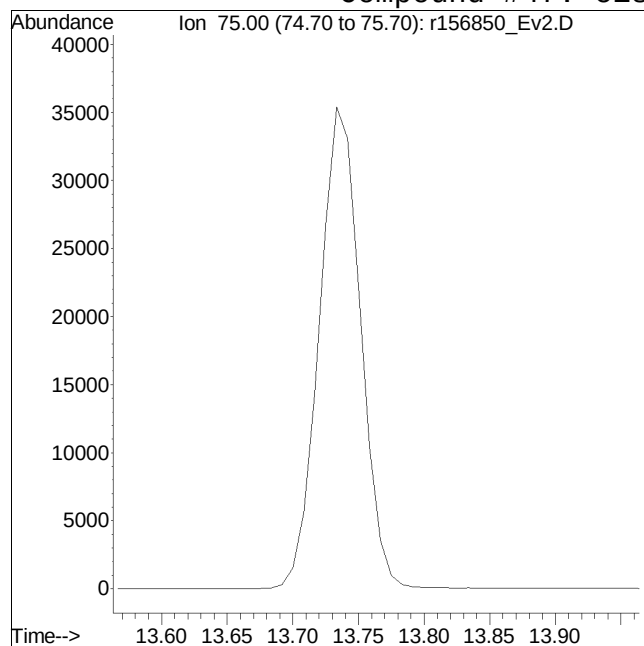
Manual Peak Response = 137782 M3

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

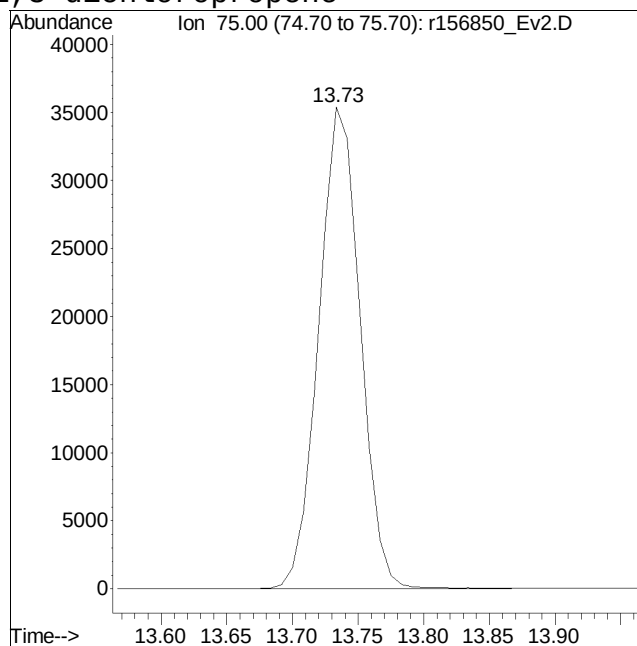
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

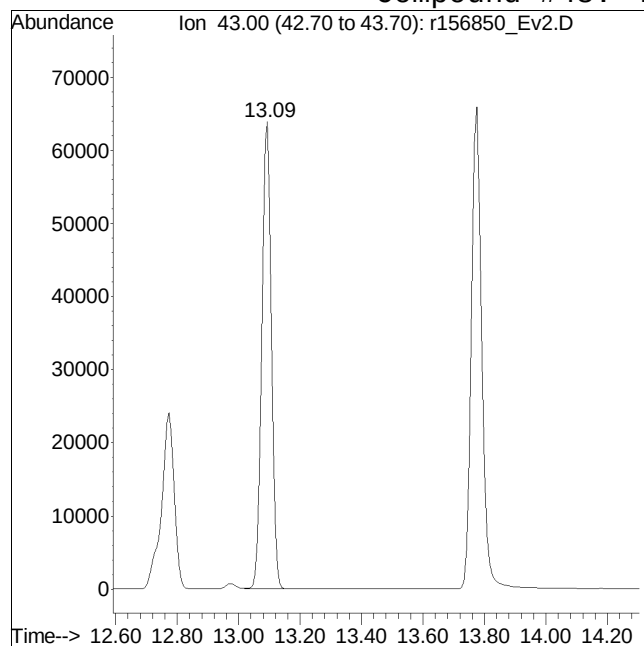


Manual Peak Response = 77836 M2

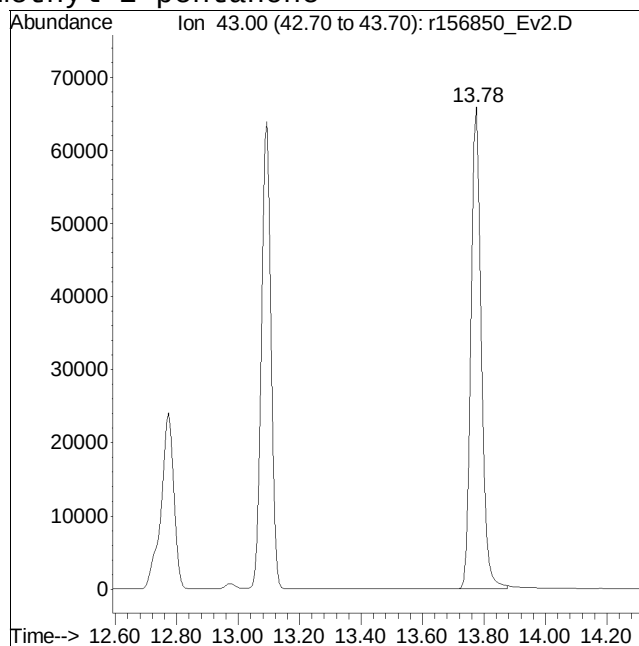
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 137602



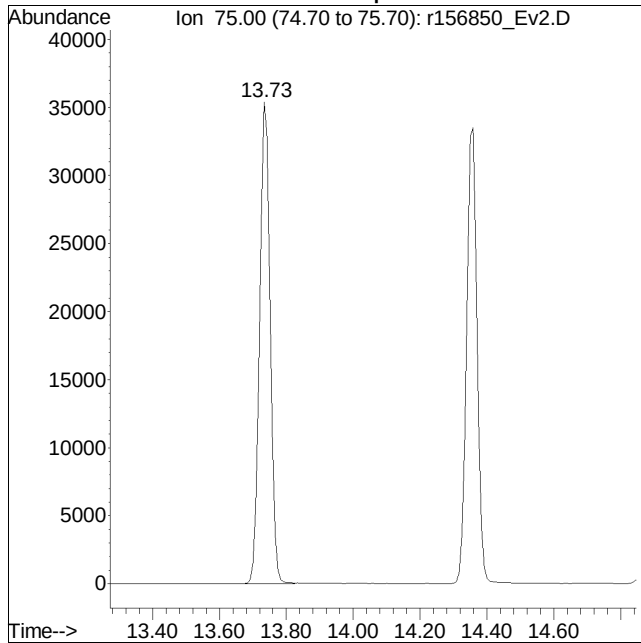
Manual Peak Response = 154359 M3

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.

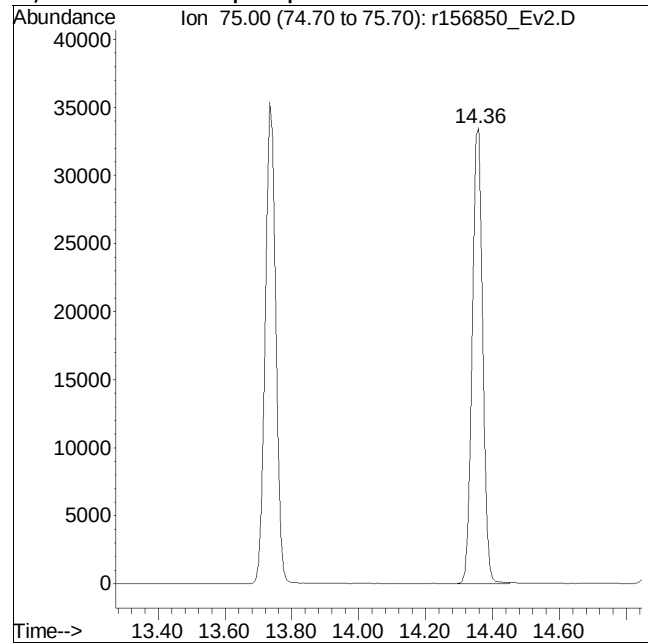
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #49: trans-1,3-dichloropropene



Original Peak Response = 77462



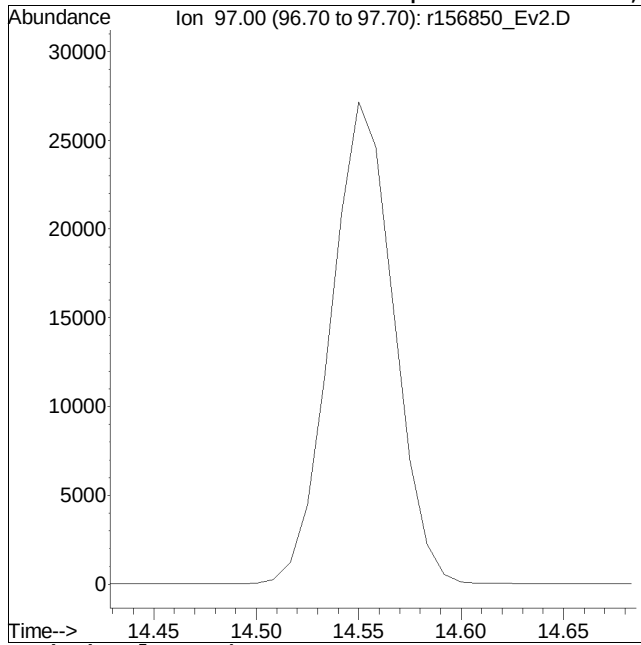
Manual Peak Response = 73295 M3

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

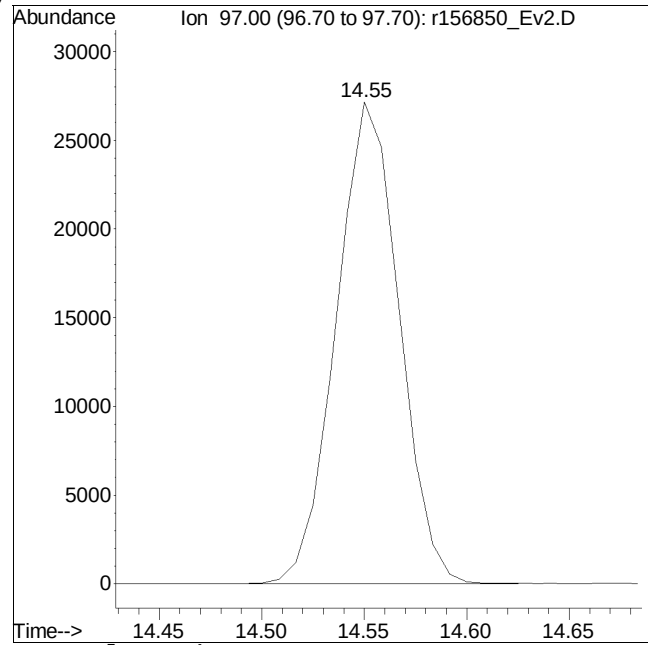
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #50: 1,1,2-trichloroethane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

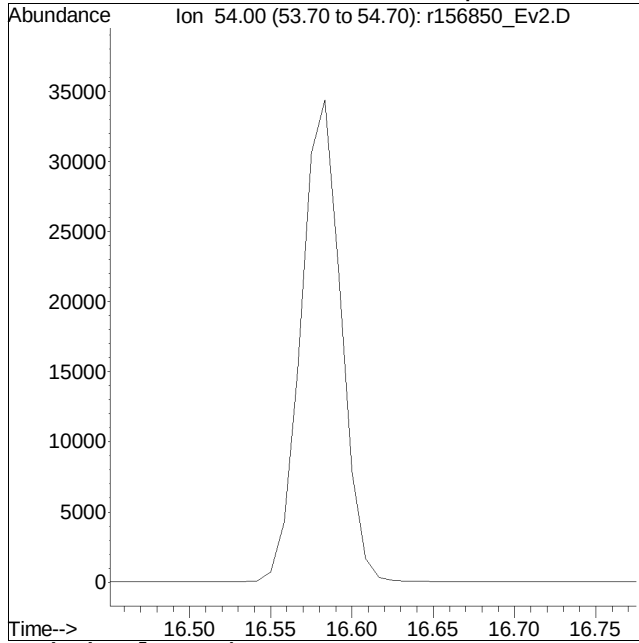


Manual Peak Response = 58079 M2

Manual Integration/Negative Proof Report

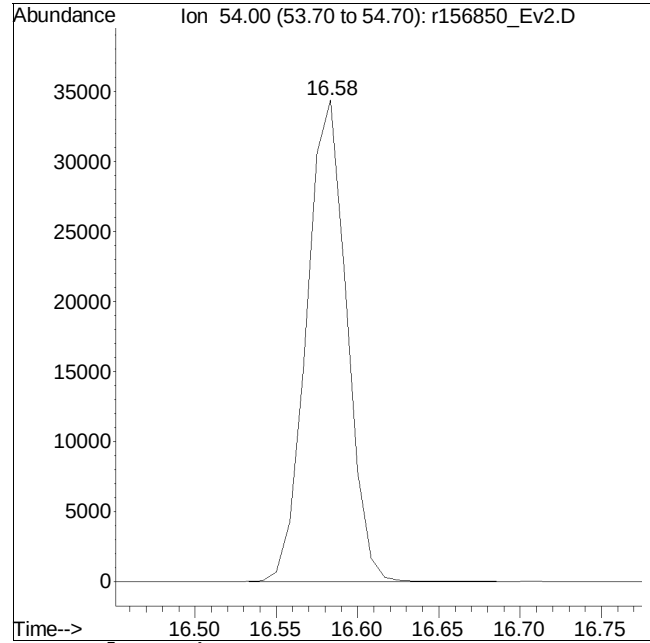
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #51: chlorobenzene-D5



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

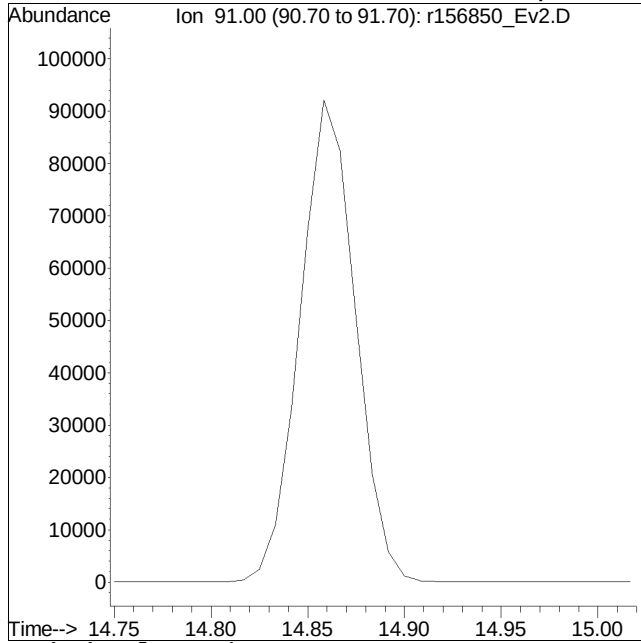


Manual Peak Response = 59059 M2

Manual Integration/Negative Proof Report

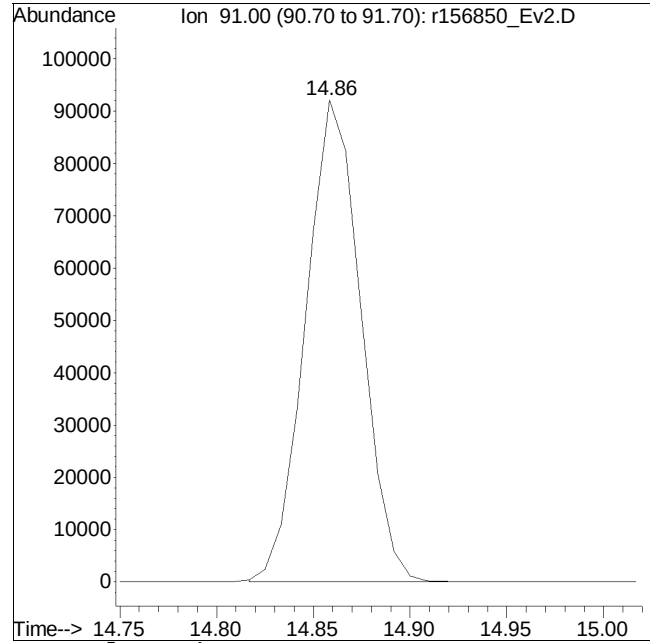
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #52: toluene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

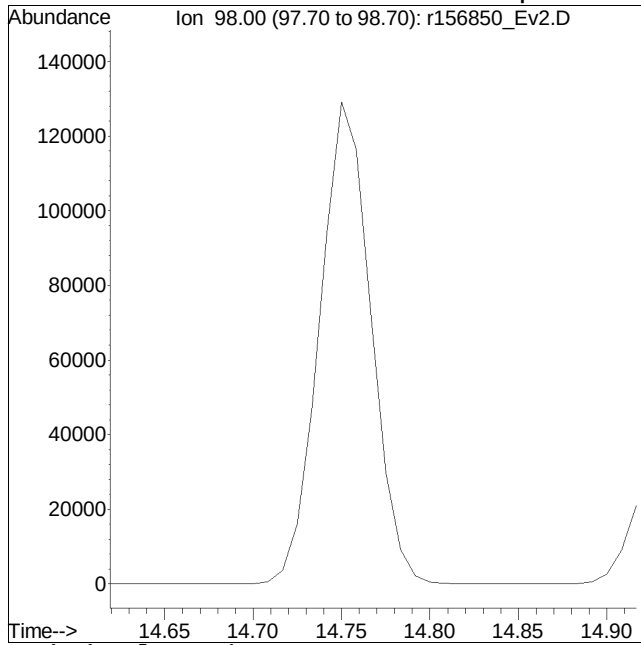


Manual Peak Response = 183627 M2

Manual Integration/Negative Proof Report

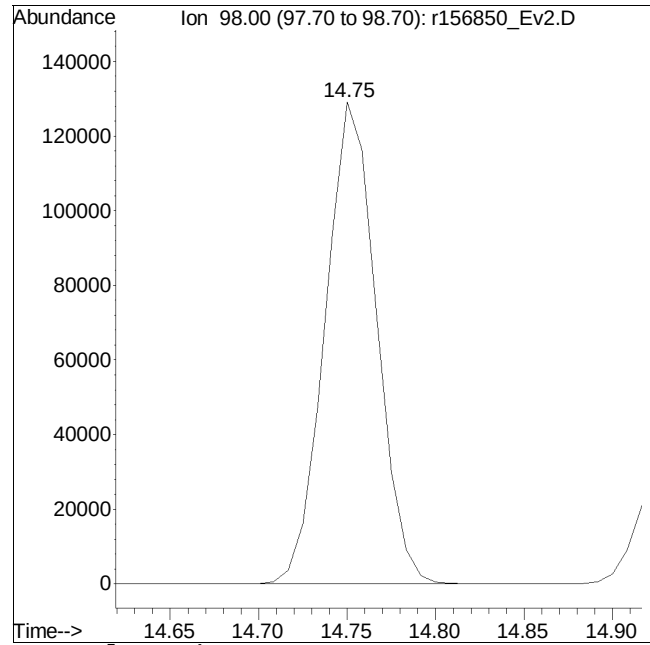
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #53: toluene-D8



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

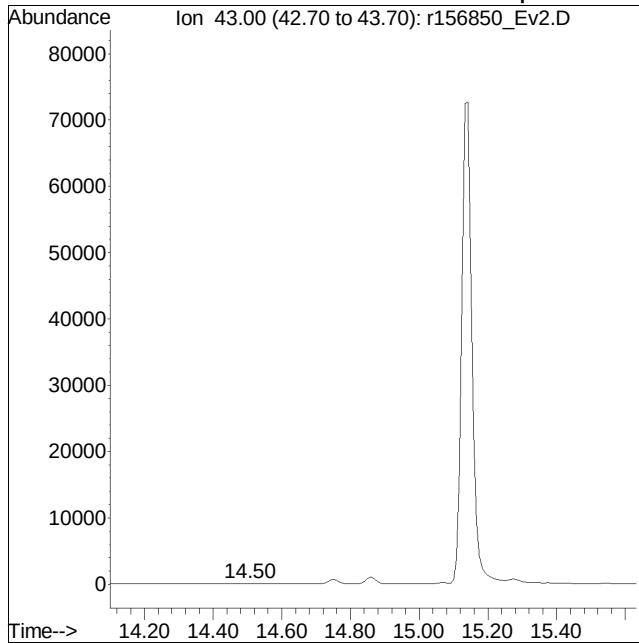


Manual Peak Response = 260833 M2

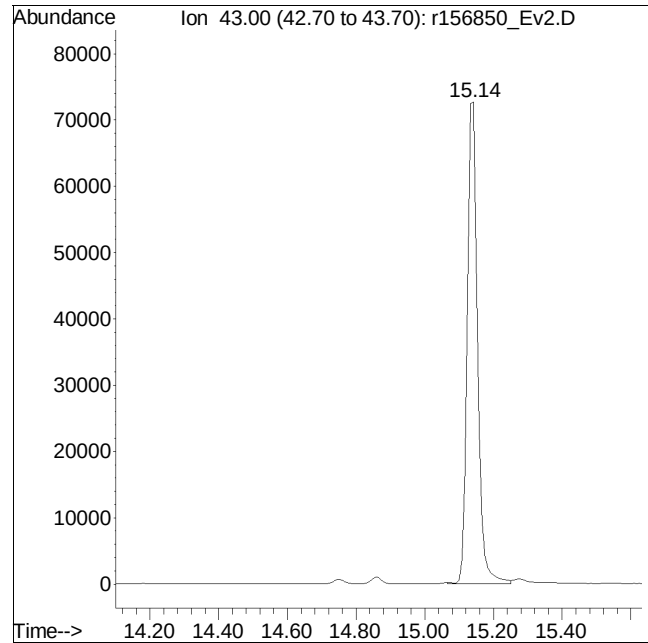
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #54: 2-hexanone



Original Peak Response = 100



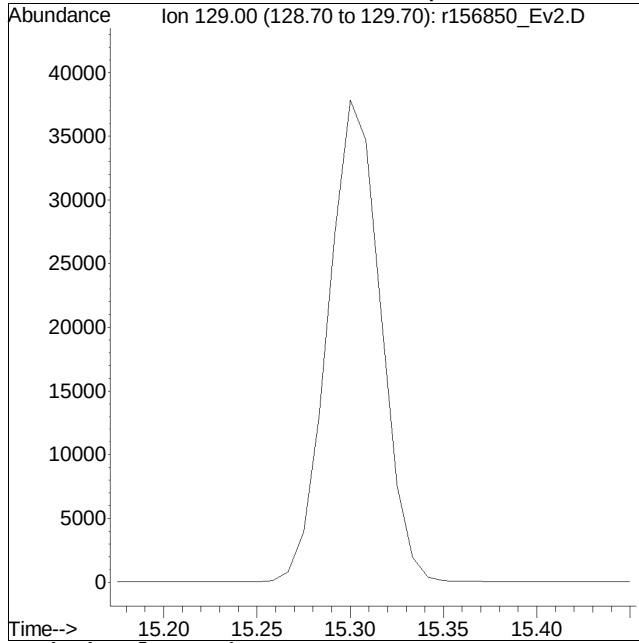
Manual Peak Response = 153084 M3

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

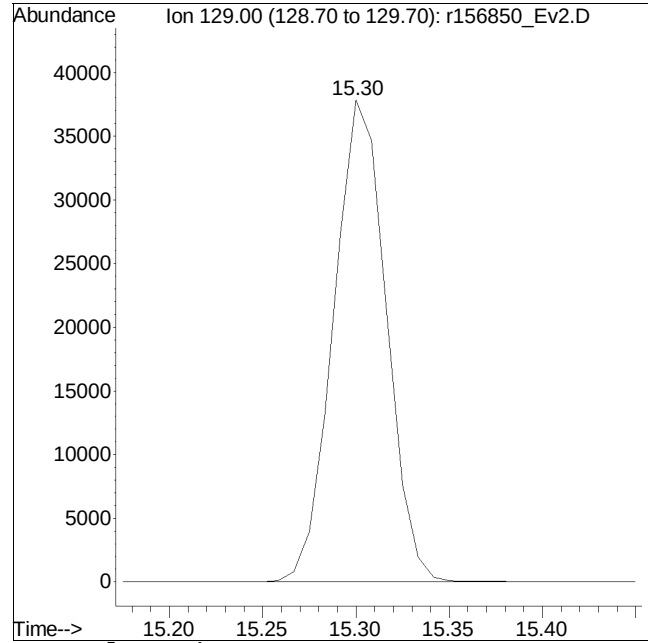
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #55: dibromochloromethane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

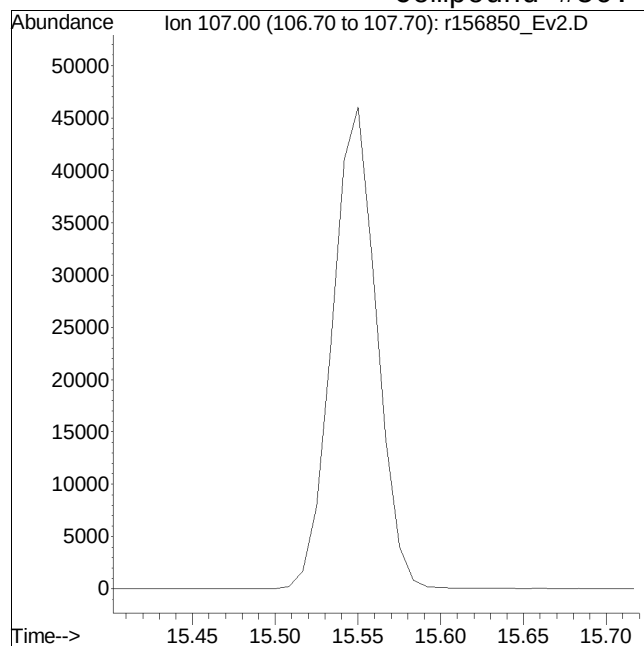


Manual Peak Response = 74469 M2

Manual Integration/Negative Proof Report

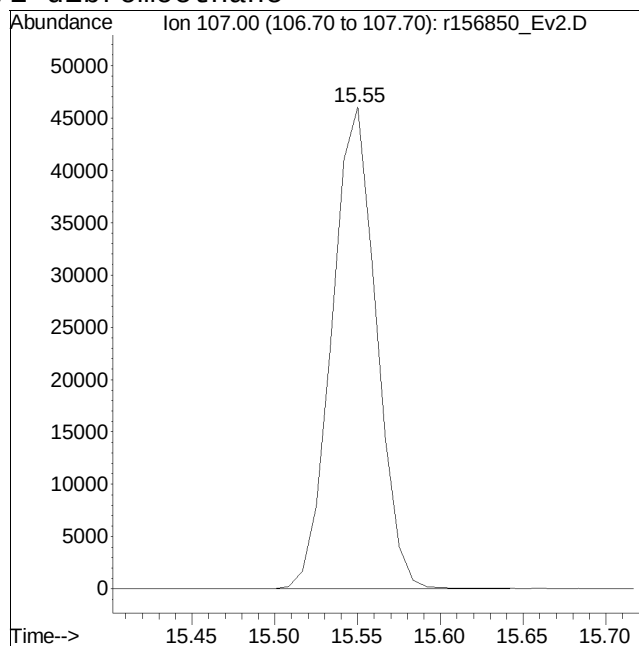
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #56: 1,2-dibromoethane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

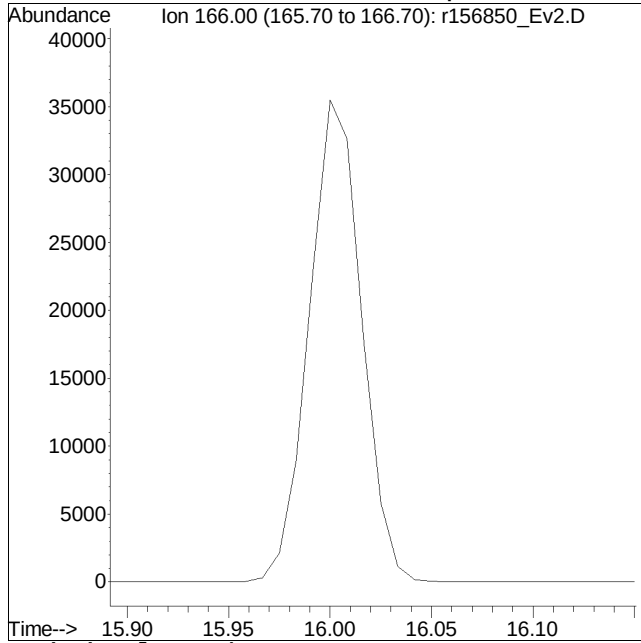


Manual Peak Response = 85826 M2

Manual Integration/Negative Proof Report

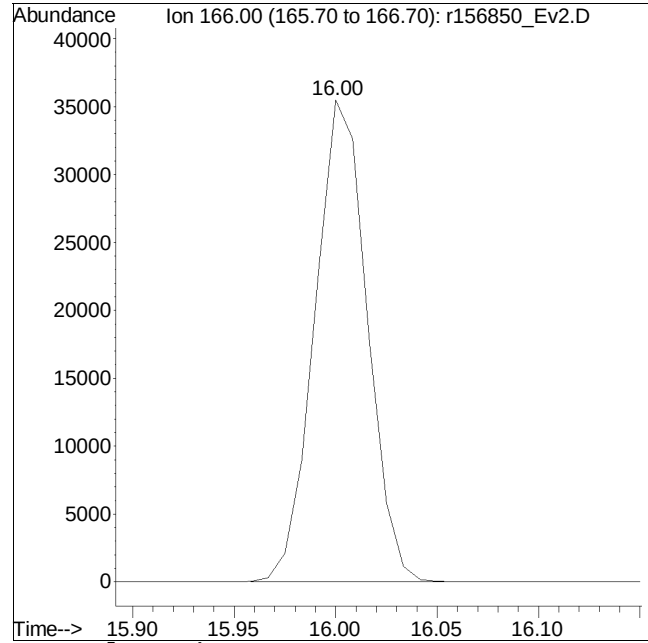
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #57: tetrachloroethene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

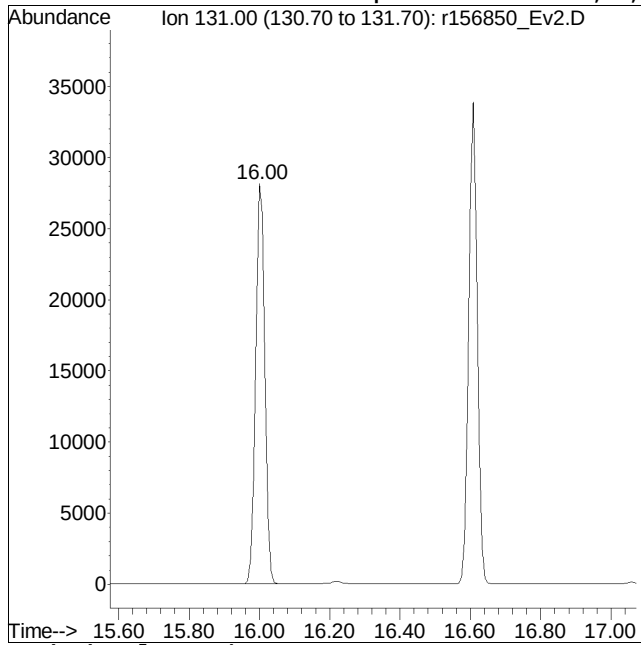


Manual Peak Response = 63801 M2

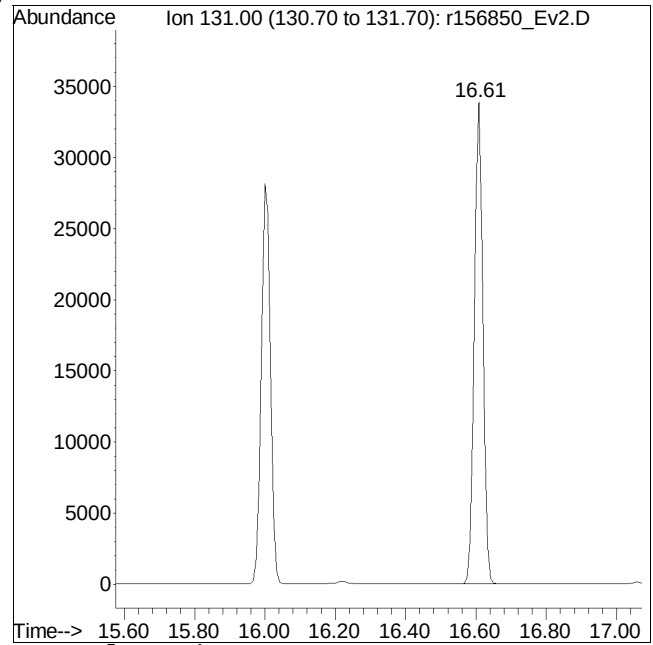
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #58: 1,1,1,2-tetrachloroethane



Original Peak Response = 50615



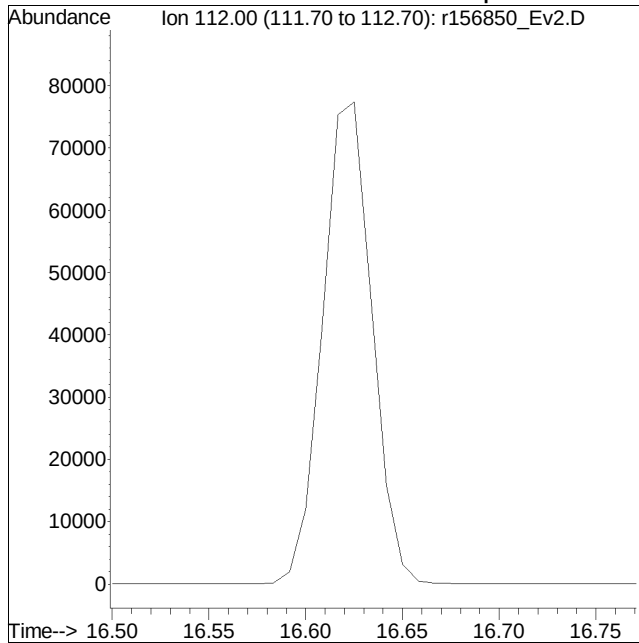
Manual Peak Response = 57459 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

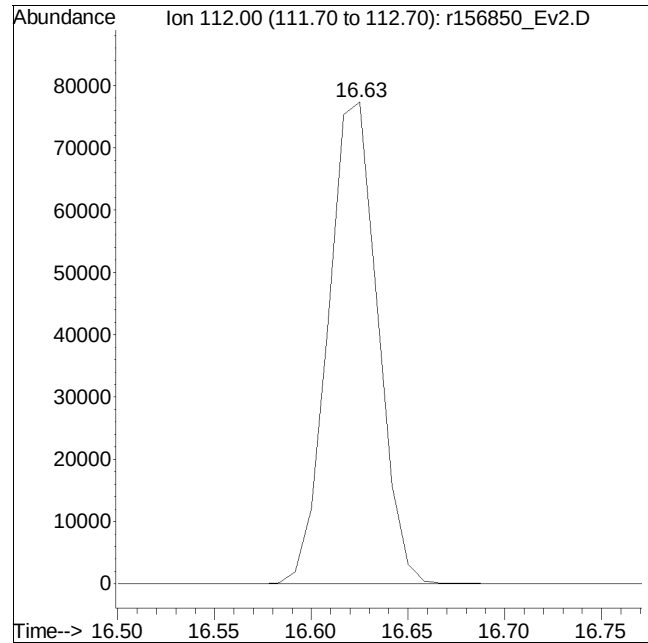
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #59: chlorobenzene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

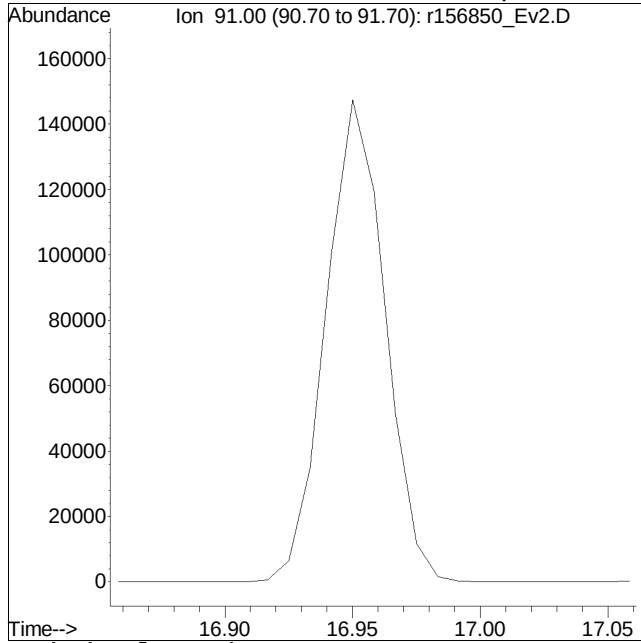


Manual Peak Response = 137447 M2

Manual Integration/Negative Proof Report

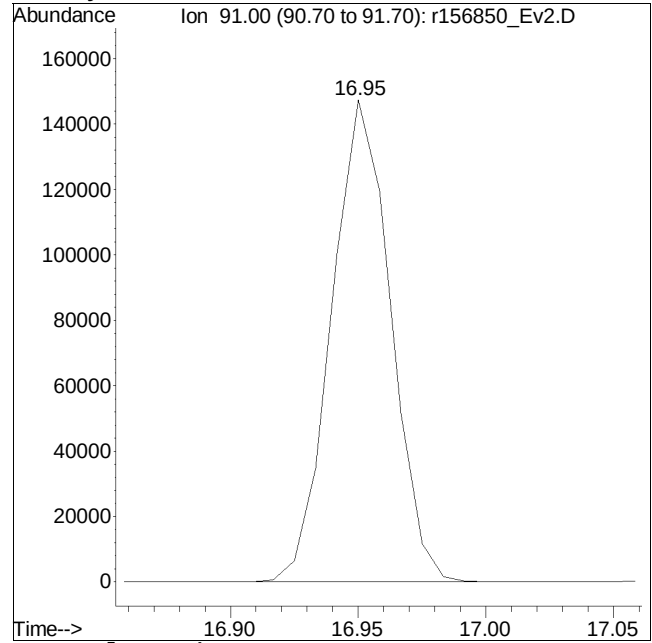
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #60: ethylbenzene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

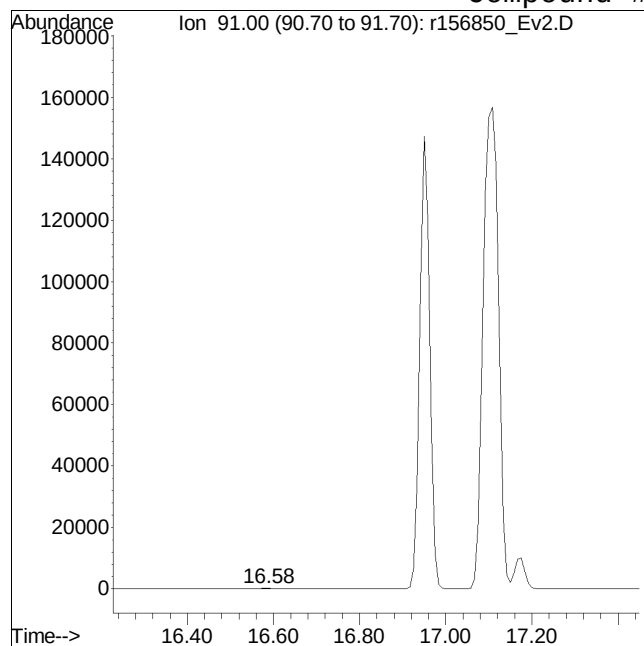


Manual Peak Response = 237382 M2

Manual Integration/Negative Proof Report

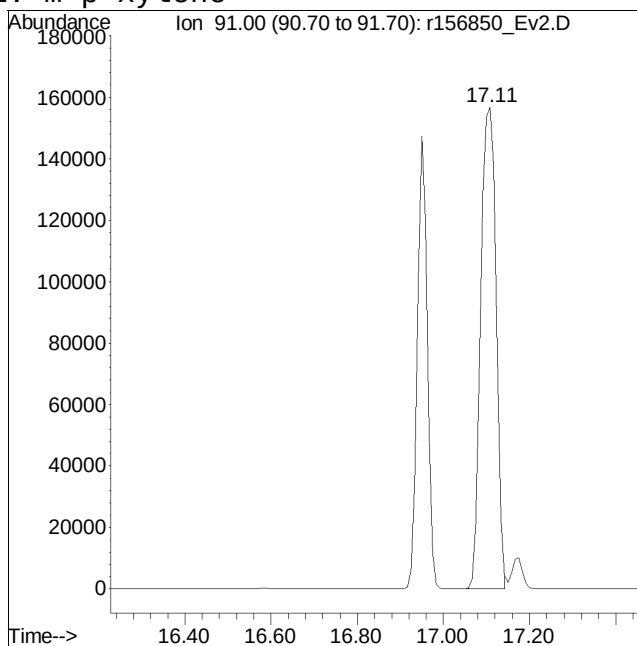
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #61: m+p-xylene



Original Peak Response = 485

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.

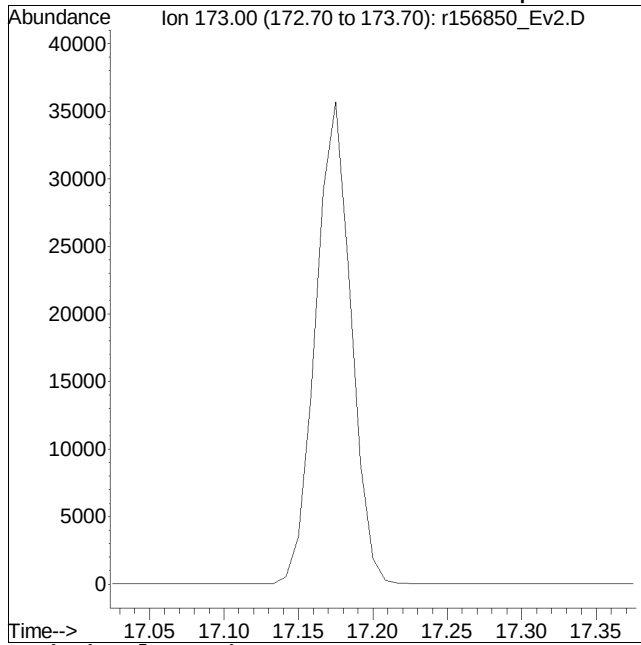


Manual Peak Response = 389114 M3

Manual Integration/Negative Proof Report

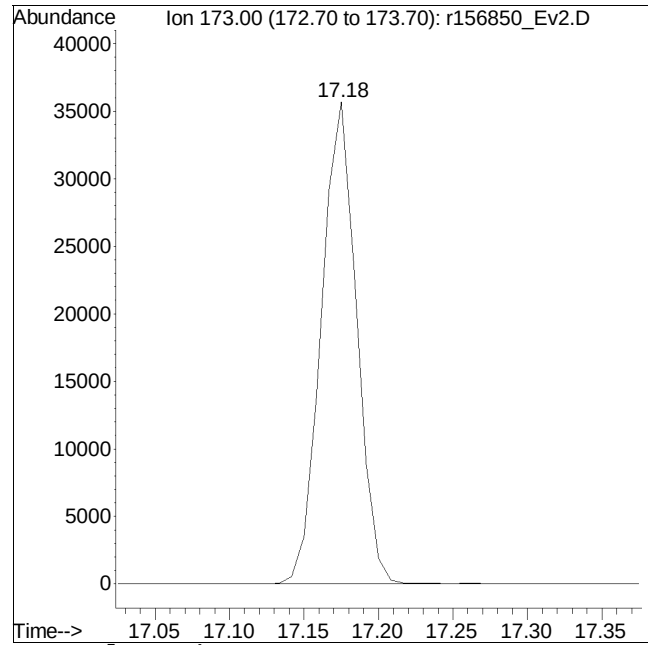
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #62: bromoform



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

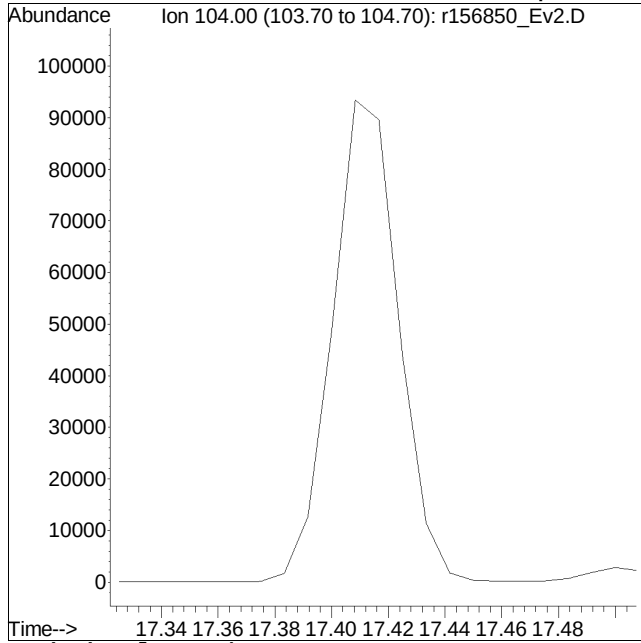


Manual Peak Response = 59026 M2

Manual Integration/Negative Proof Report

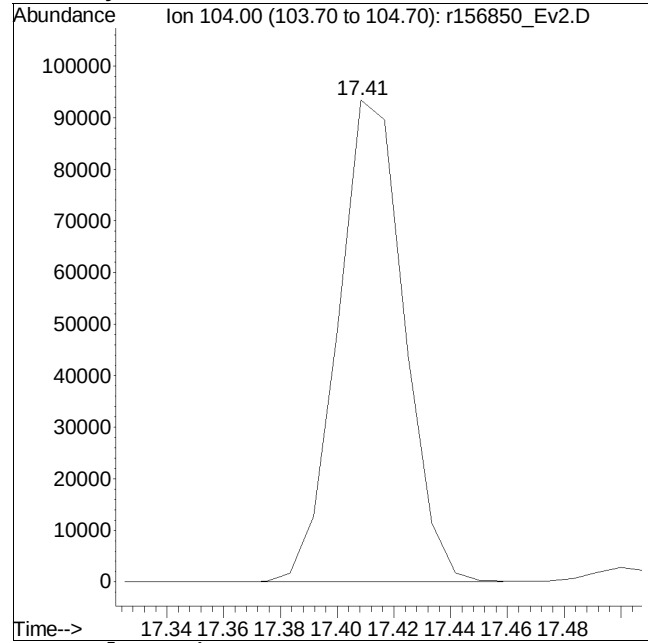
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #63: styrene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

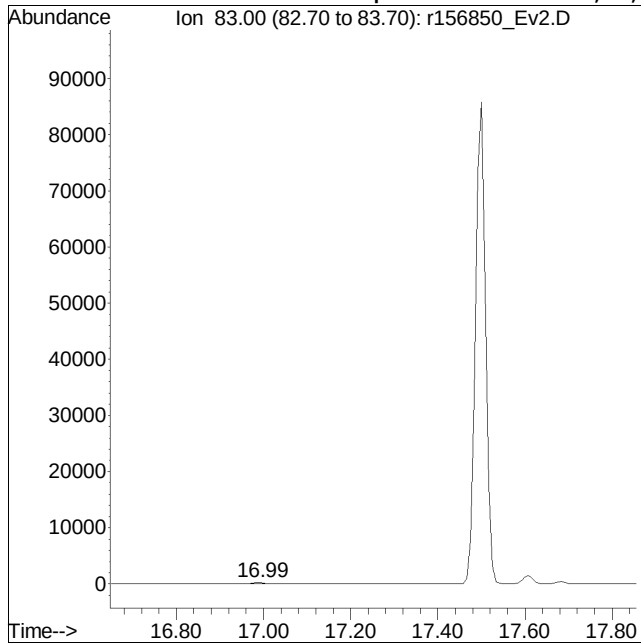


Manual Peak Response = 151817 M2

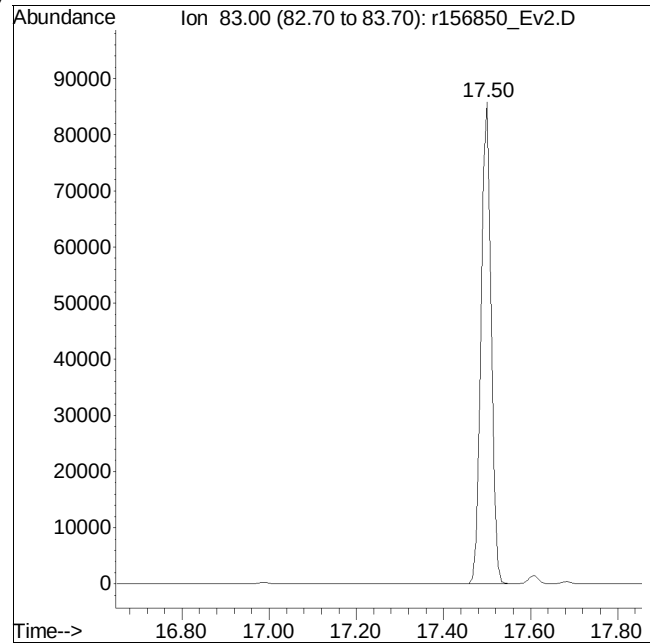
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #64: 1,1,2,2-tetrachloroethane



Original Peak Response = 480



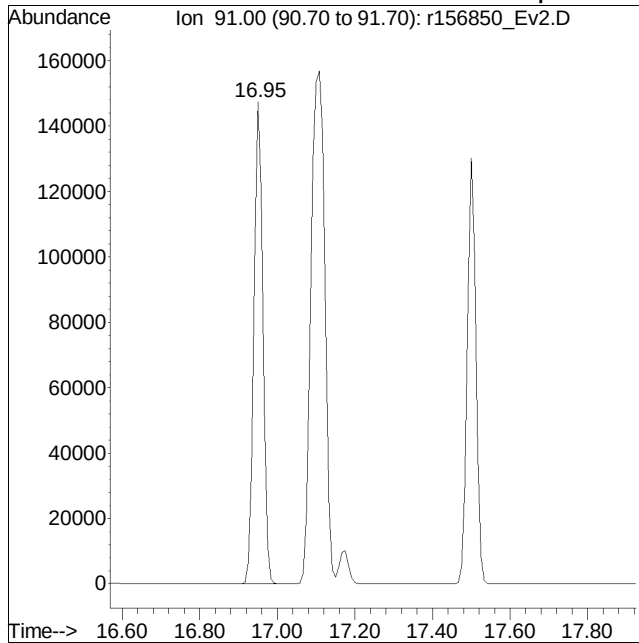
Manual Peak Response = 138332 M3

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.

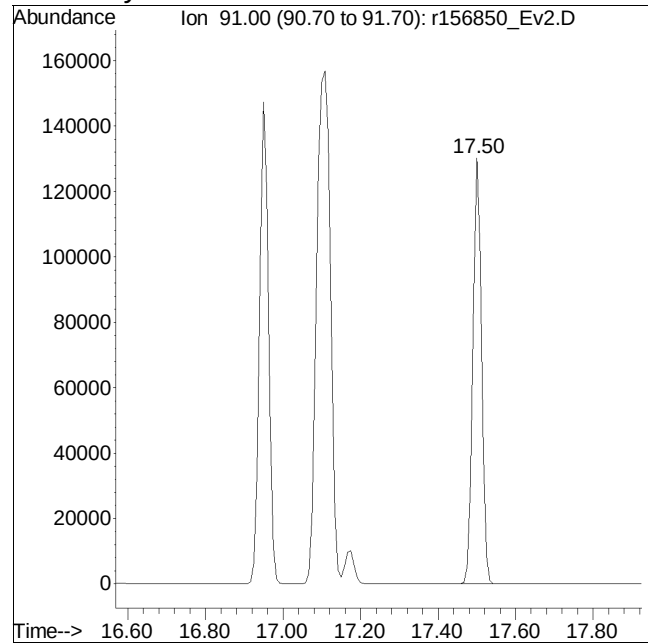
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #65: o-xylene



Original Peak Response = 237001



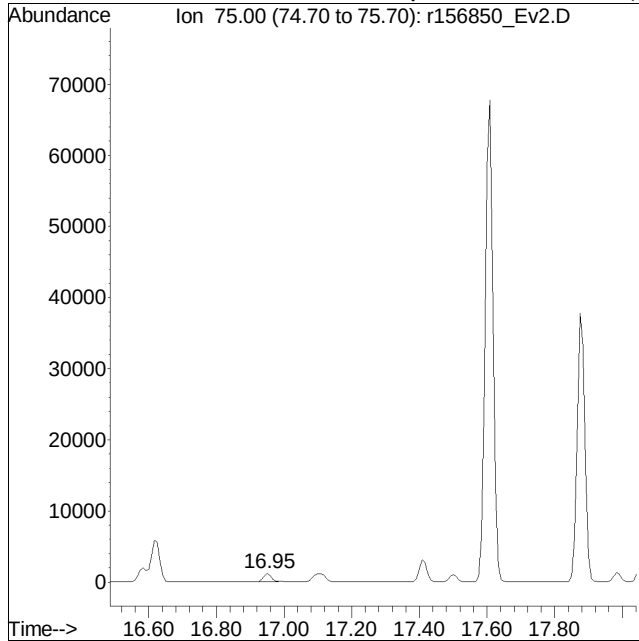
Manual Peak Response = 202744 M3

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.

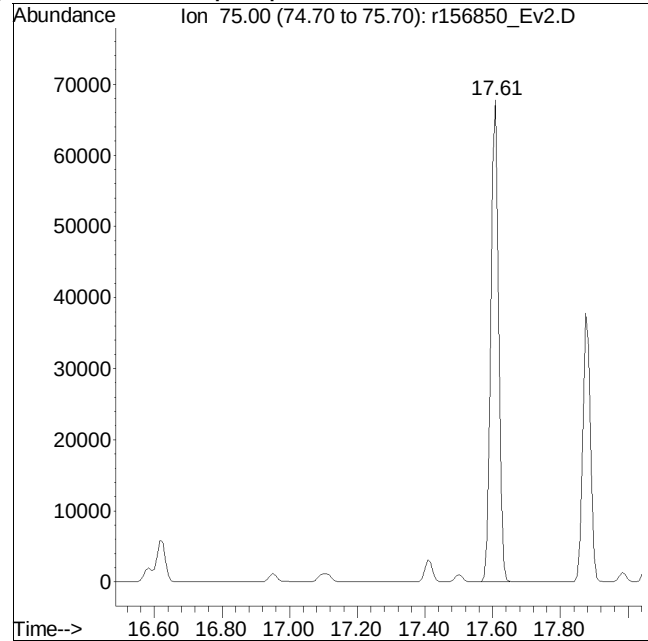
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #66: 1,2,3-Trichloropropane



Original Peak Response = 2086



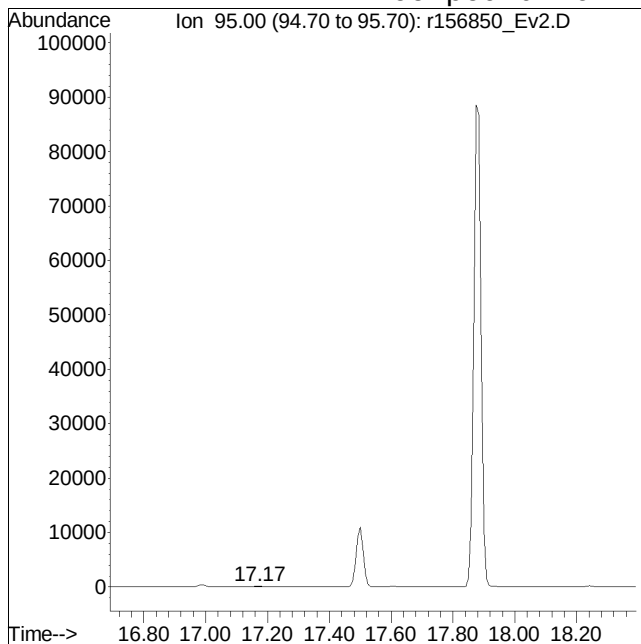
Manual Peak Response = 108271 M3

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.

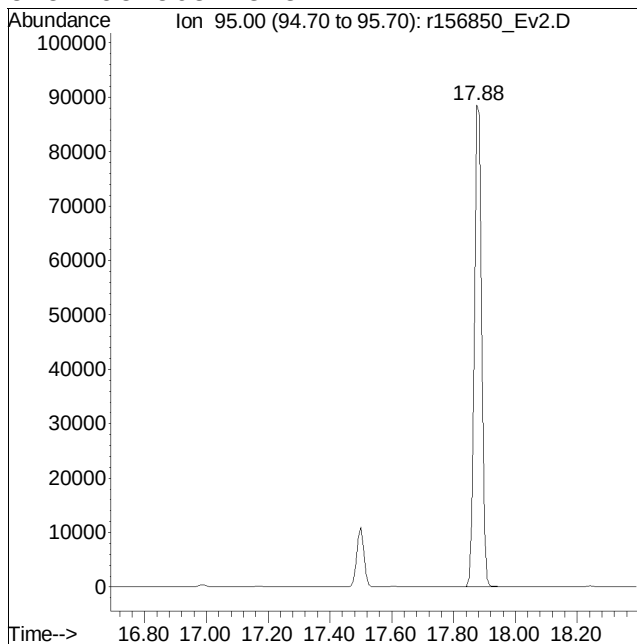
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #67: bromofluorobenzene



Original Peak Response = 333



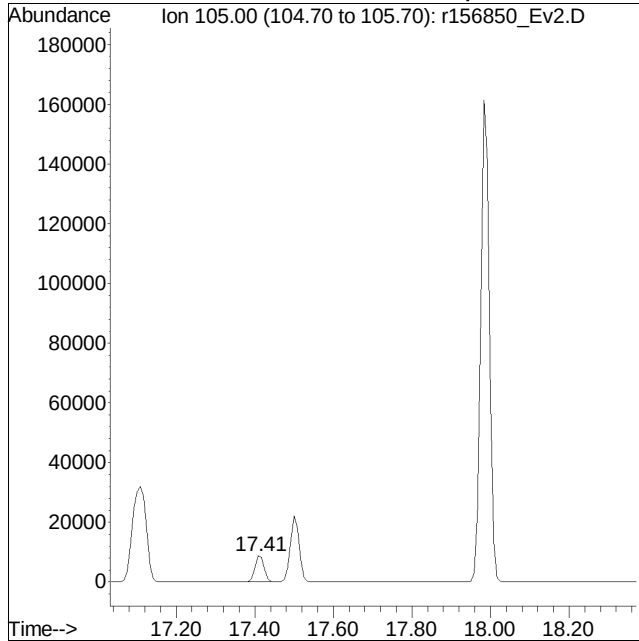
Manual Peak Response = 144742 M3

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.

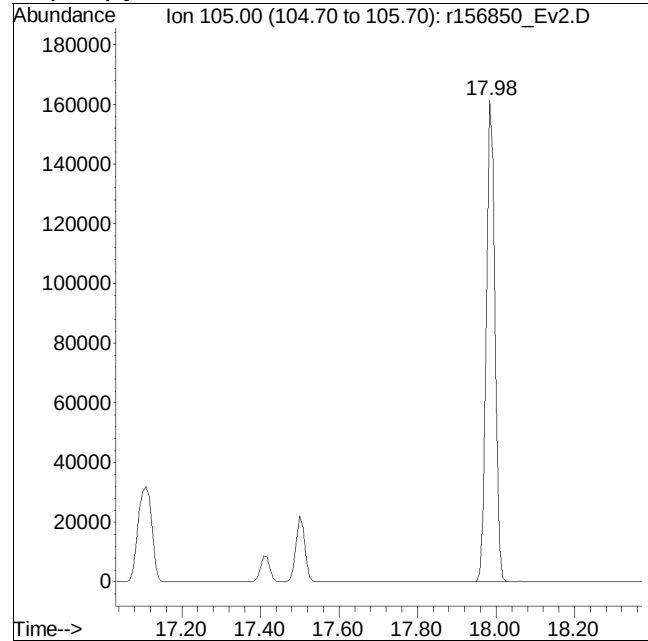
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #68: isopropylbenzene



Original Peak Response = 14259



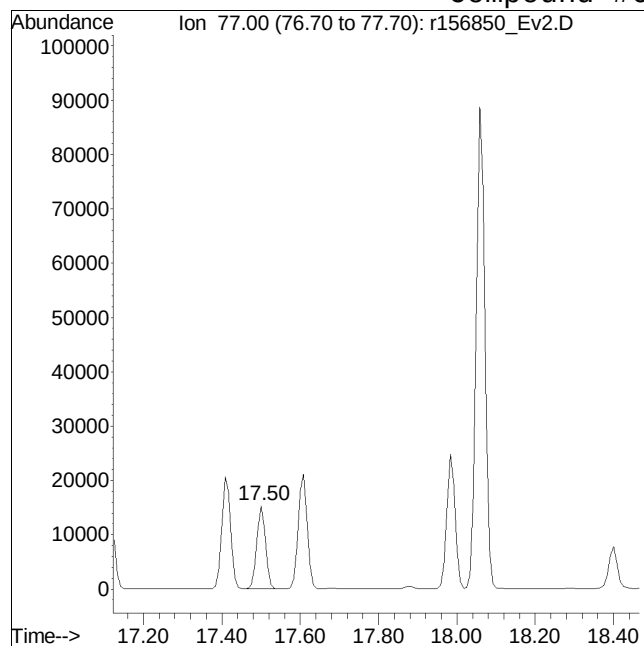
Manual Peak Response = 247428 M3

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.

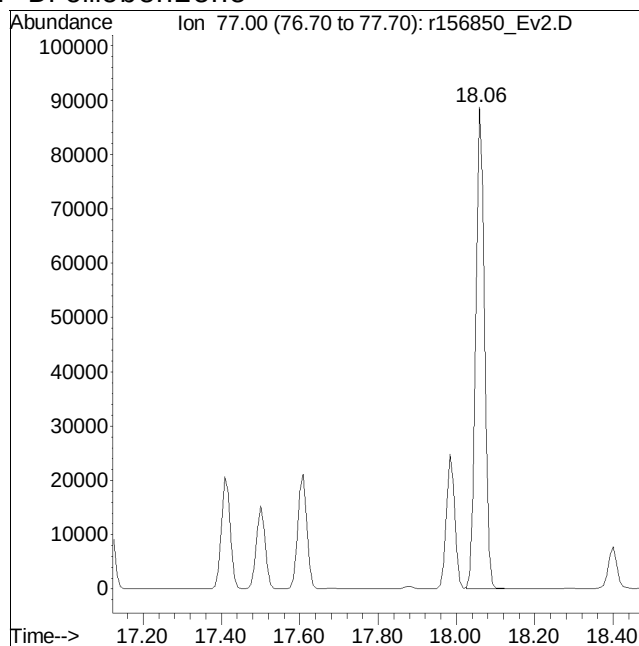
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #69: Bromobenzene



Original Peak Response = 23816



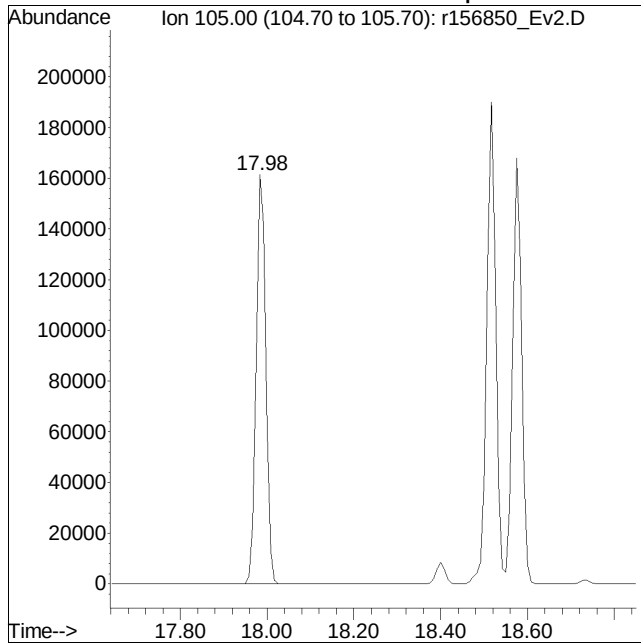
Manual Peak Response = 138280 M3

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.

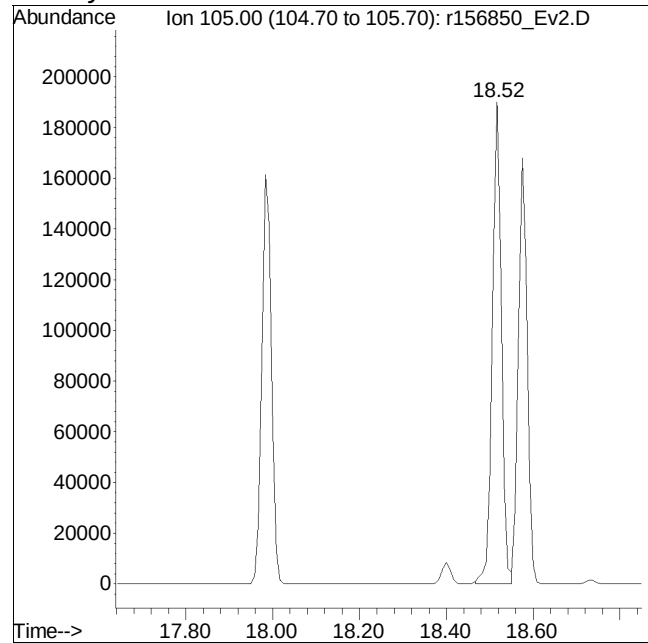
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #70: 4-ethyl toluene



Original Peak Response = 247195



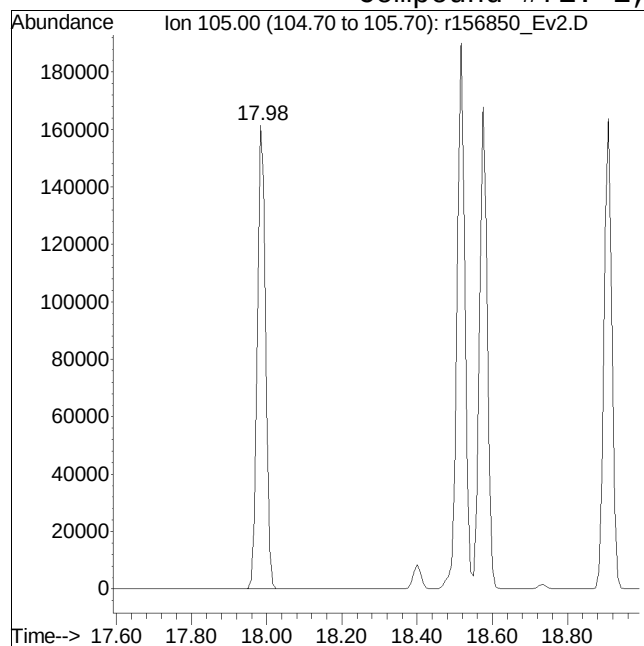
Manual Peak Response = 276882 M3

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.

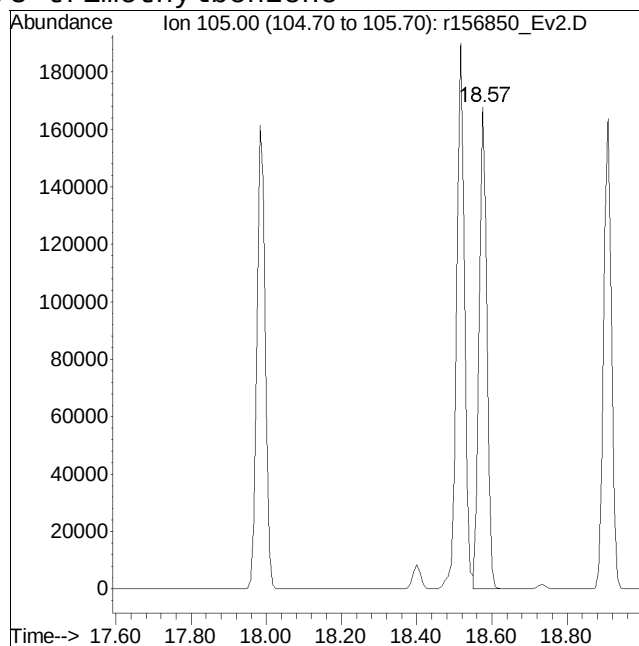
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 247195



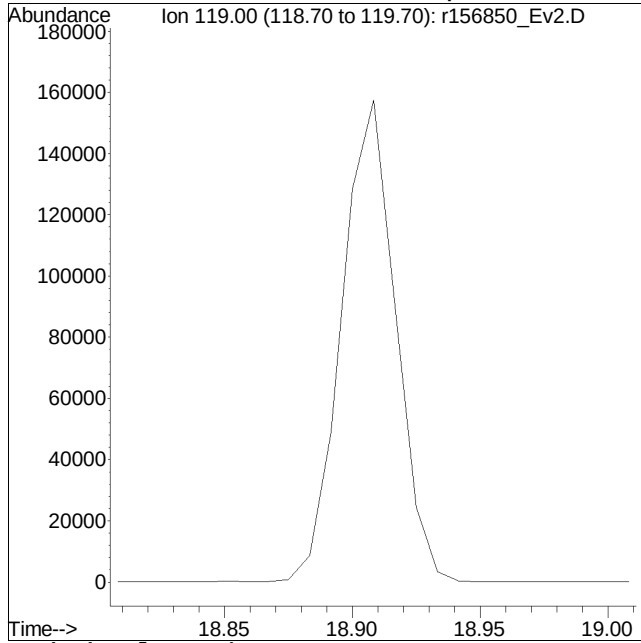
Manual Peak Response = 239914 M3

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

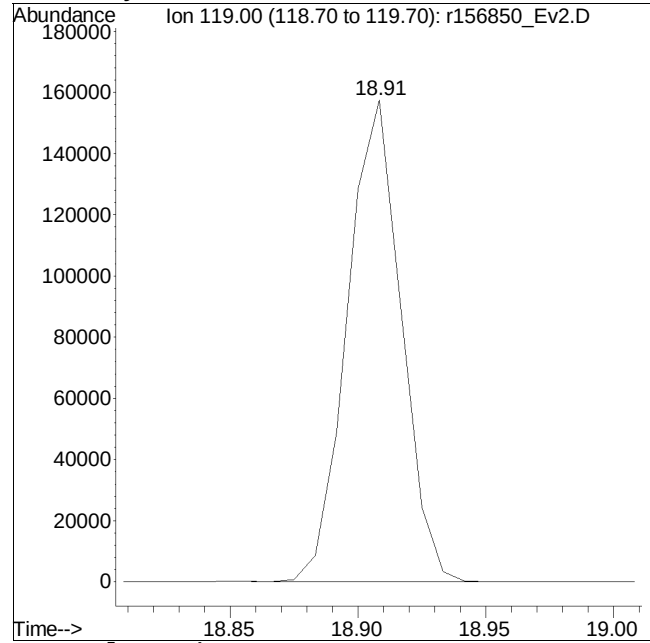
Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #72: tert-butylbenzene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

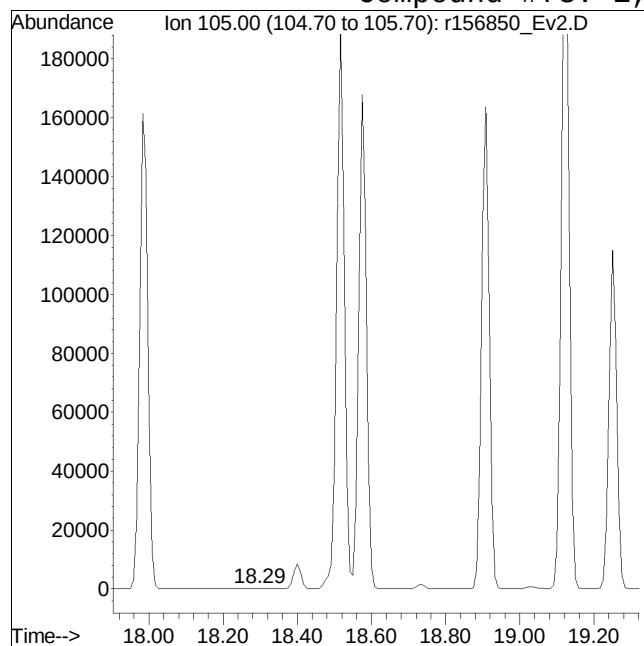


Manual Peak Response = 231523 M2

Manual Integration/Negative Proof Report

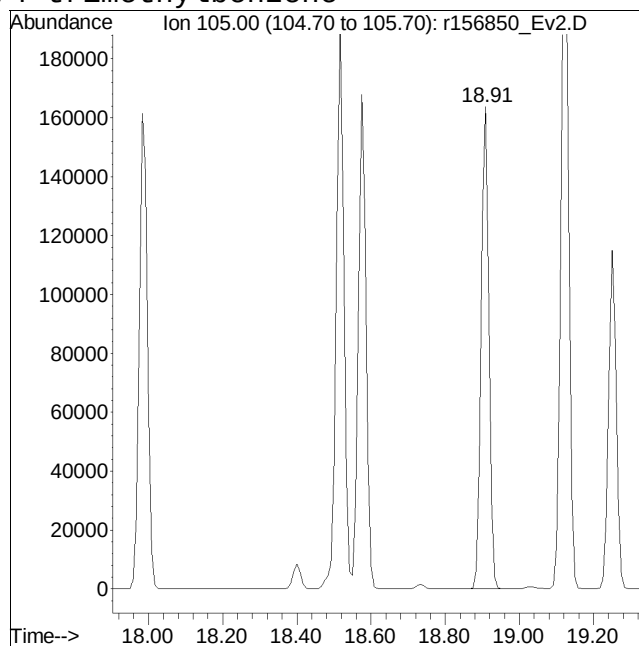
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #73: 1,2,4-trimethylbenzene



Original Peak Response = 223

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.

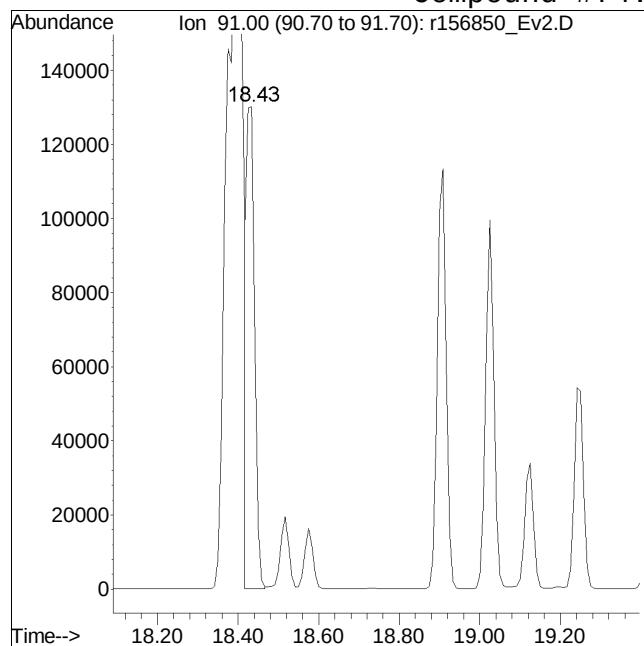


Manual Peak Response = 237383 M3

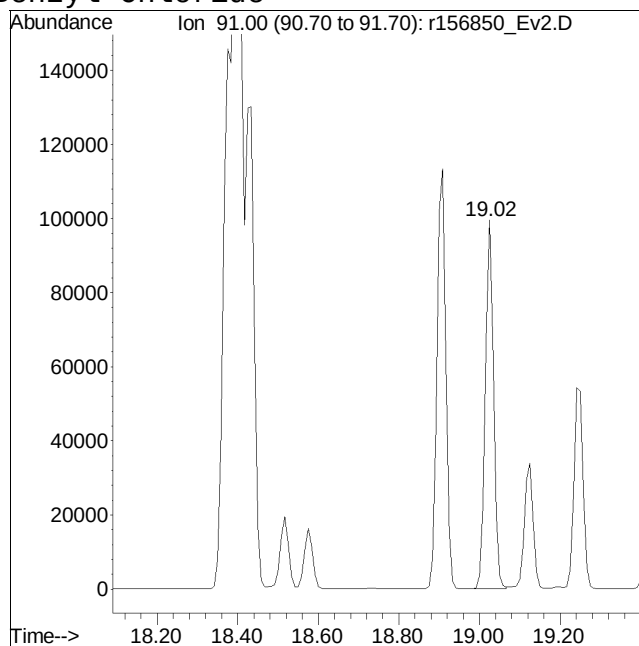
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #74: Benzyl Chloride



Original Peak Response = 172985



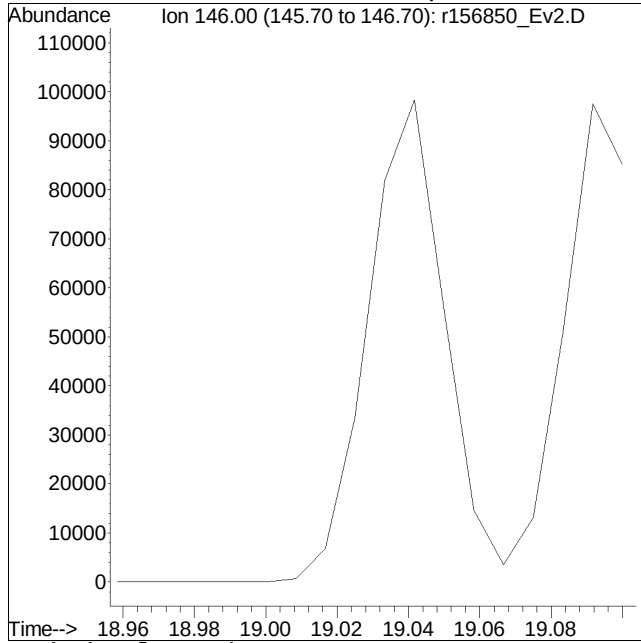
Manual Peak Response = 142316 M3

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

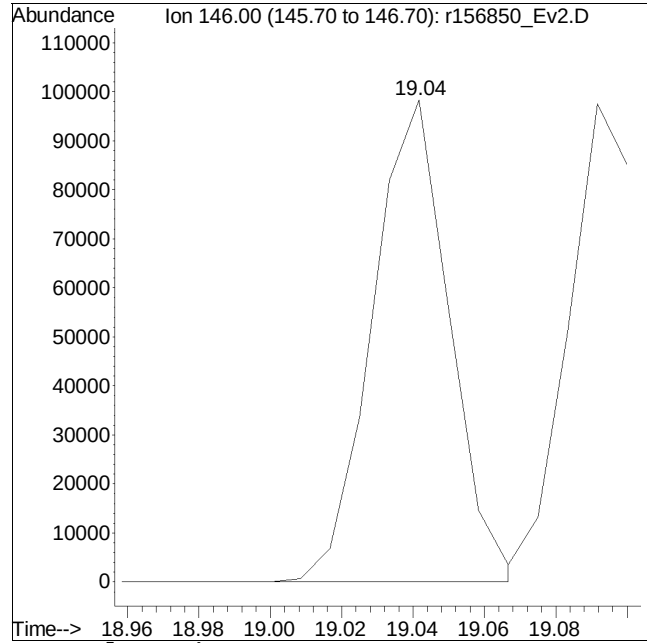
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

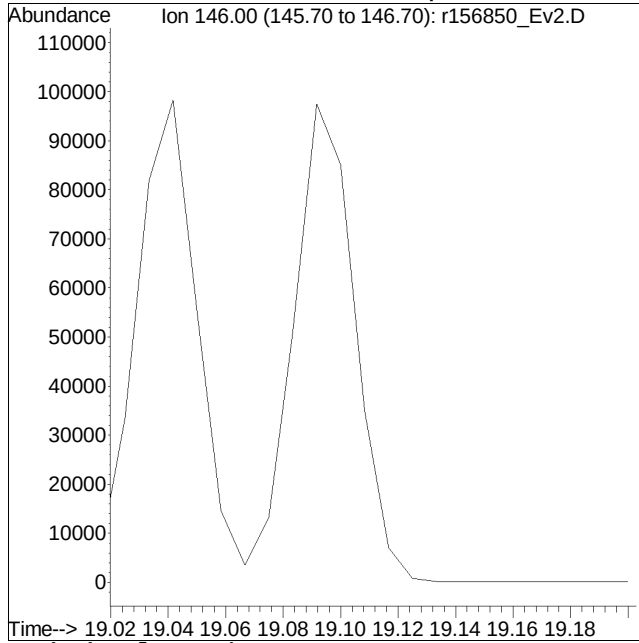


Manual Peak Response = 147418 M2

Manual Integration/Negative Proof Report

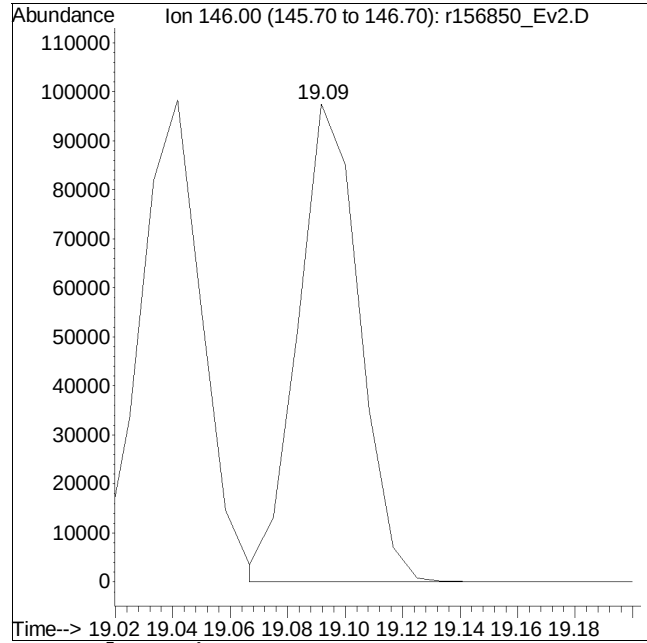
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

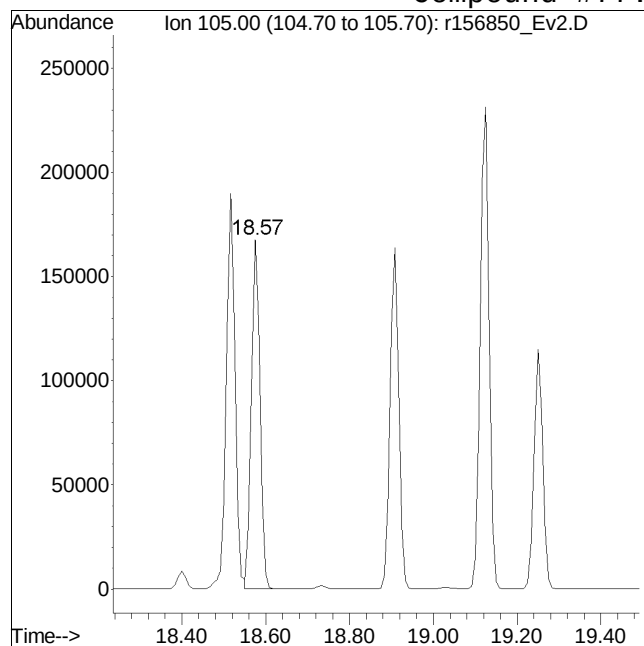


Manual Peak Response = 145114 M2

Manual Integration/Negative Proof Report

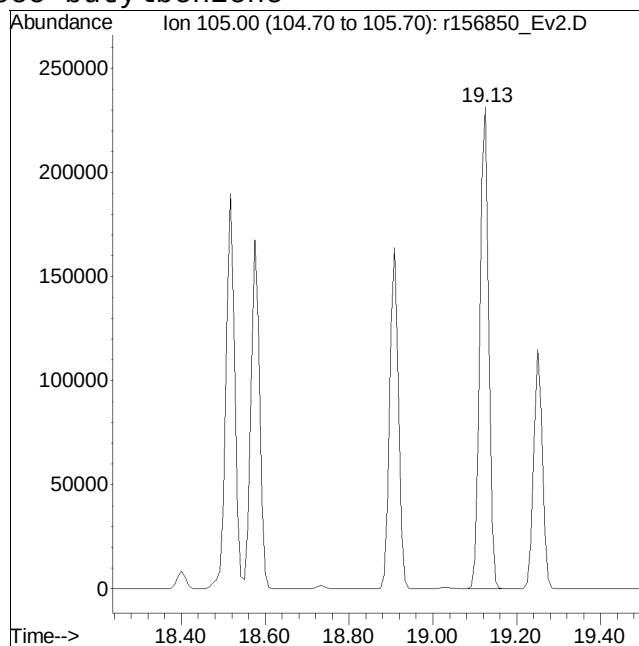
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #77: sec-butylbenzene



Original Peak Response = 238969

M2 = Peak not found by automatic integration algorithm.

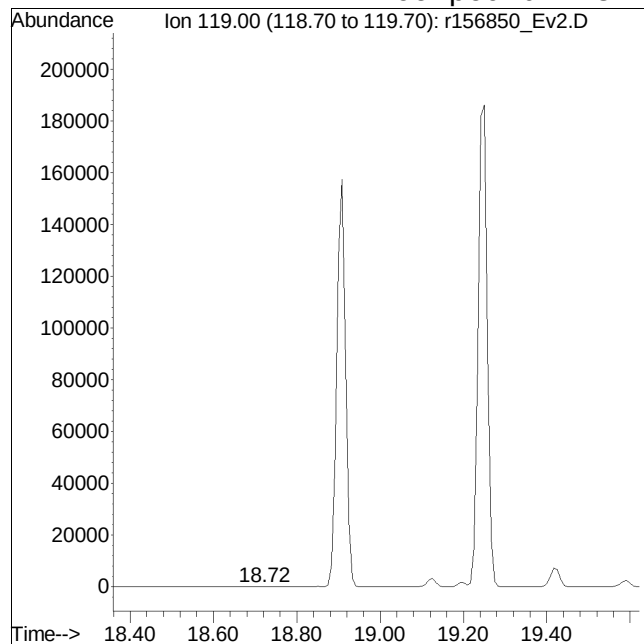


Manual Peak Response = 339940 M2

Manual Integration/Negative Proof Report

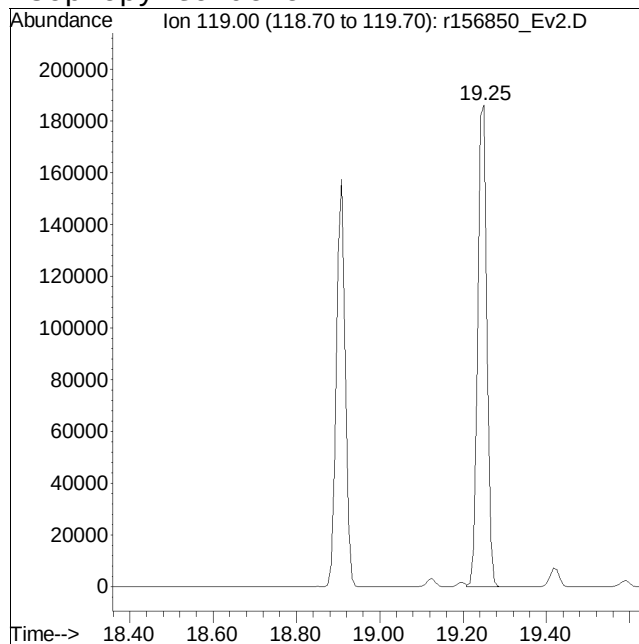
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #78: p-isopropyltoluene



Original Peak Response = 153

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.

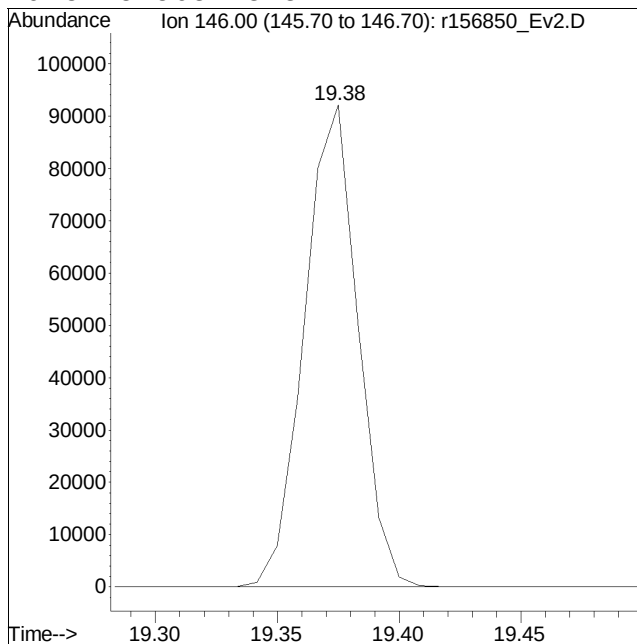
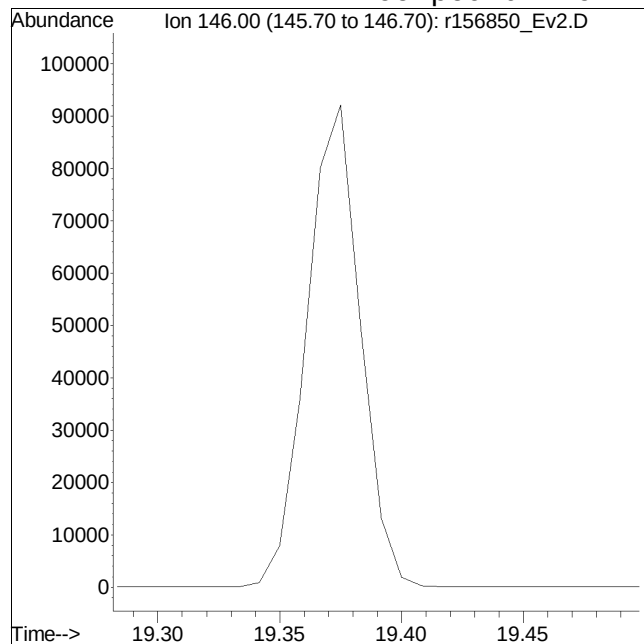


Manual Peak Response = 285463 M3

Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #79: 1,2-dichlorobenzene



Original Peak Response = 0

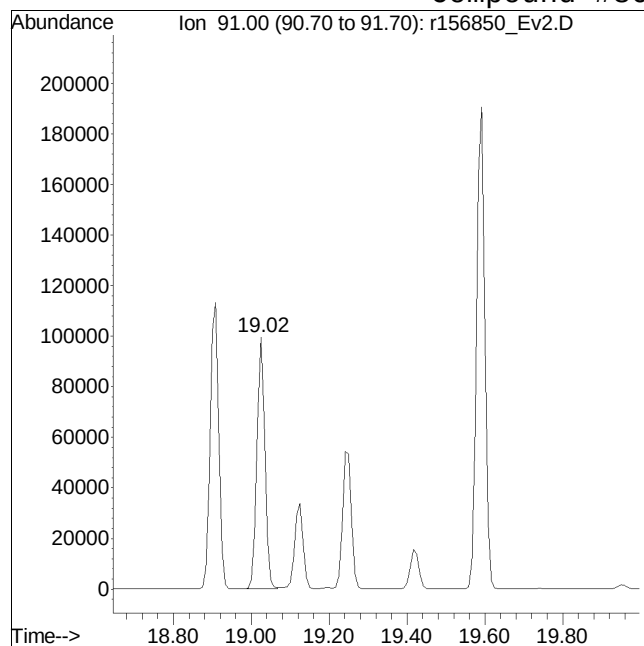
Manual Peak Response = 141060 M3

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.

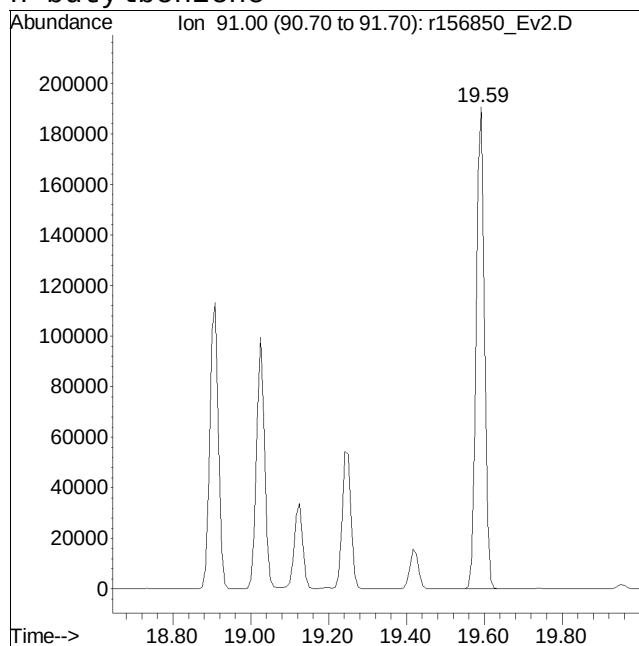
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #80: n-butylbenzene



Original Peak Response = 141931



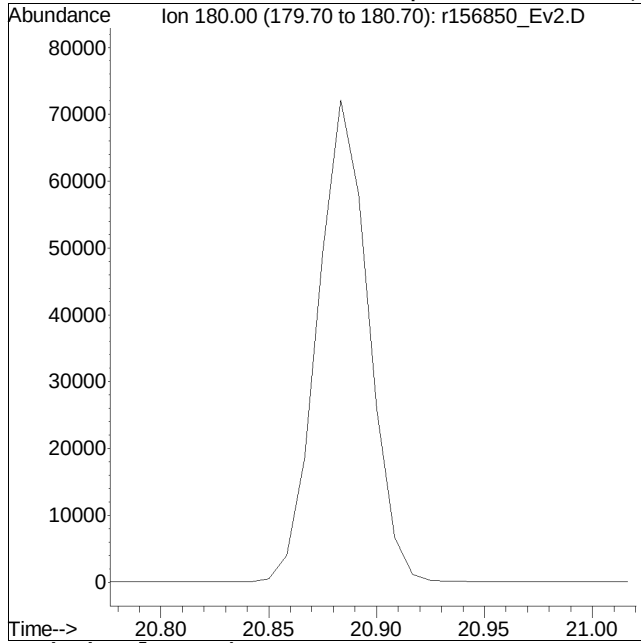
Manual Peak Response = 281688 M3

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

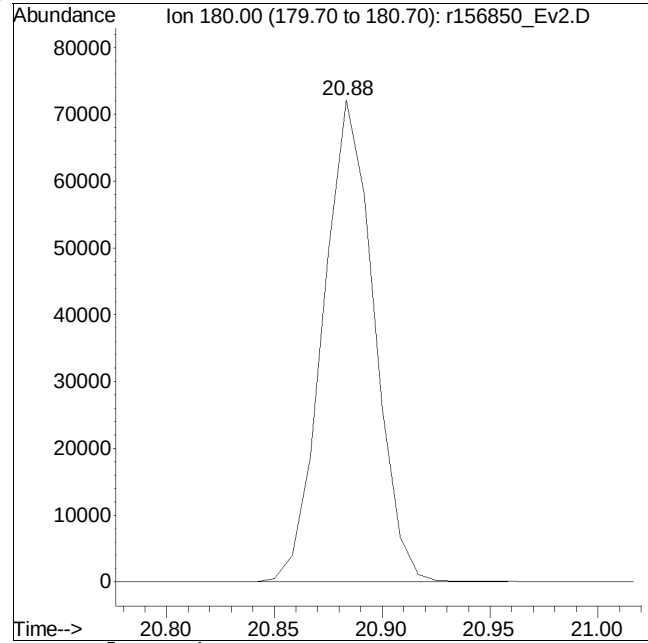
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #81: 1,2,4-trichlorobenzene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

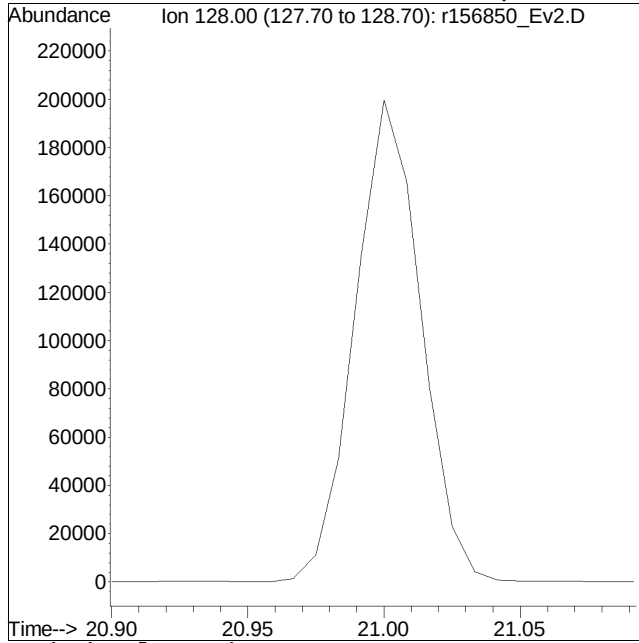


Manual Peak Response = 118608 M2

Manual Integration/Negative Proof Report

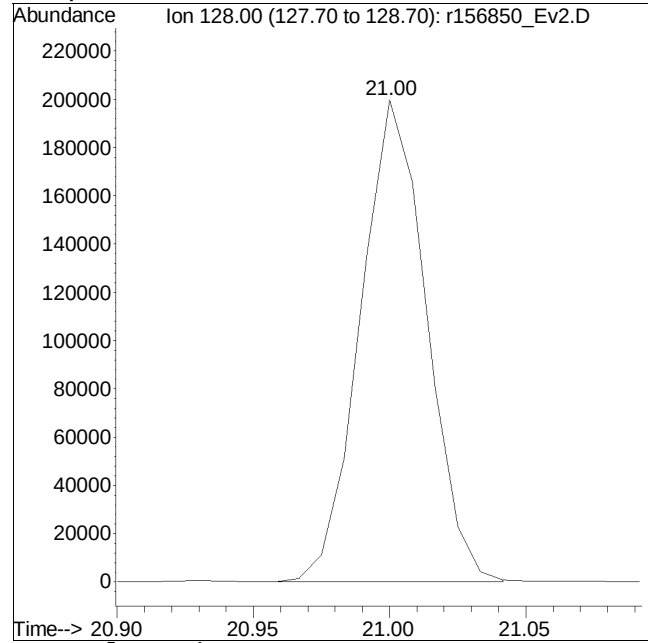
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #82: naphthalene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

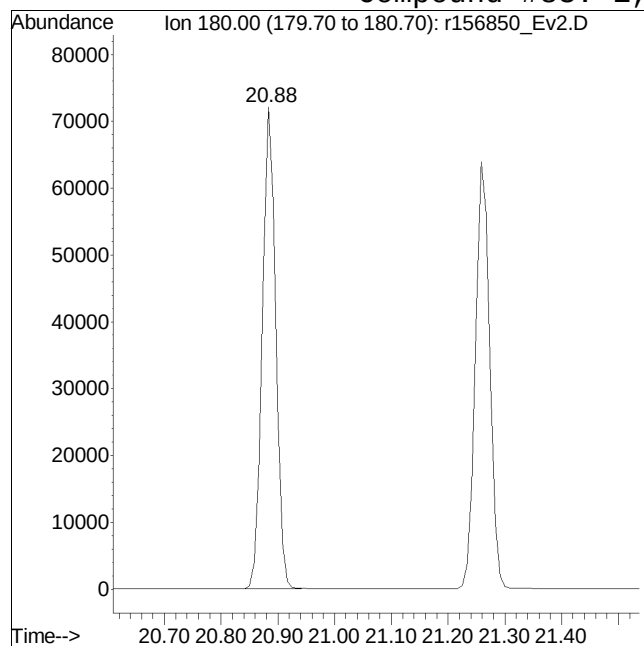


Manual Peak Response = 337209 M2

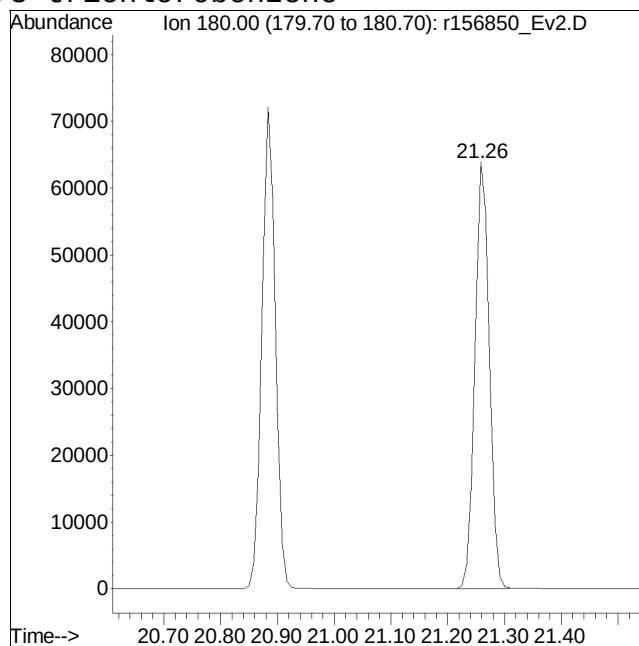
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
 Data File : r156850_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 9:48 PM Instrument :
 Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #83: 1,2,3-trichlorobenzene



Original Peak Response = 118172



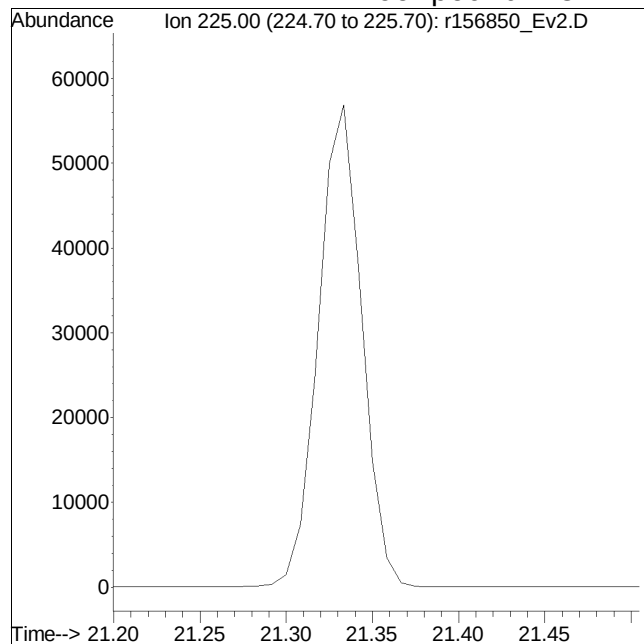
Manual Peak Response = 112491 M3

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.

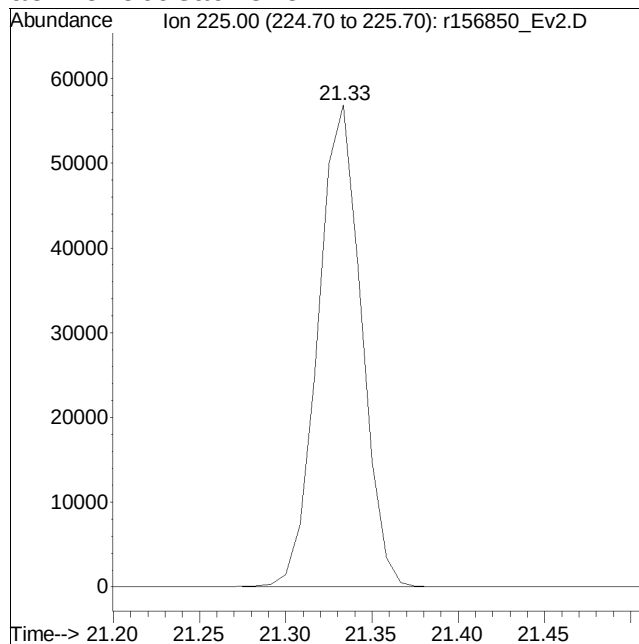
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r156850_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 9:48 PM Instrument :
Sample : IT015-SIMSTD5.0 Quant Date : 4/5/2018 9:28 am

Compound #84: hexachlorobutadiene



Original Peak Response = 0



Manual Peak Response = 99202 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156851_Ev2.D
 Acq On : 4 Apr 2018 10:25 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD010
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:58:58 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.65	49	137597	10.000	ppbV	# 0.00
Standard Area = 133810			Recovery =	102.83%		
33) 1,4-difluorobenzene	11.93	114	287999	10.000	ppbV	0.00
Standard Area = 280369			Recovery =	102.72%		
51) chlorobenzene-D5	16.57	54	60409	10.000	ppbV	0.00
Standard Area = 59059			Recovery =	102.29%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.54	65	76834	9.820	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.20%		
53) toluene-D8	14.75	98	264802	9.925	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.25%		
67) bromofluorobenzene	17.88	95	165672	11.190	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	111.90%		
Target Compounds						
						Qvalue
2) propylene	3.89	41	98430M6	9.875	ppbV	
3) dichlorodifluoromethane	3.98	85	178981	10.170	ppbV	99
4) chloromethane	4.17	50	117921	11.352	ppbV	100
5) Freon-114	4.30	85	229384	10.893	ppbV	96
6) vinyl chloride	4.43	62	107862	10.353	ppbV	96
7) 1,3-butadiene	4.61	54	91057	11.008	ppbV	84
8) bromomethane	4.93	94	85413	9.992	ppbV	99
9) chloroethane	5.16	64	55098	14.721	ppbV	97
10) ethanol	5.33	31	415575	49.231	ppbV	97
11) vinyl bromide	5.60	106	84299	10.064	ppbV	99
12) acrolein	5.76	56	44119	10.119	ppbV	# 100
13) acetone	5.91	43	588359	47.308	ppbV	98
14) trichlorofluoromethane	6.14	101	161816	9.504	ppbV	98
15) isopropyl alcohol	6.24	45	365286	23.217	ppbV	100
16) acrylonitrile	6.51	53	82297	10.051	ppbV	100
17) 1,1-dichloroethene	6.92	61	139449	9.600	ppbV	99
18) tertiary butyl alcohol	6.98	59	144966	9.241	ppbV	# 1
19) methylene chloride	7.09	49	134404	9.791	ppbV	100
20) 3-chloropropene	7.23	41	155544	8.209	ppbV	98
21) carbon disulfide	7.38	76	283716	10.072	ppbV	98
22) Freon 113	7.43	101	168212	9.717	ppbV	99
23) trans-1,2-dichloroethene	8.22	61	141336	9.614	ppbV	98
24) 1,1-dichloroethane	8.46	63	177343	9.725	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156851_Ev2.D
 Acq On : 4 Apr 2018 10:25 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD010
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:58:58 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.54	73	242810	9.778	ppbV	95
26) vinyl acetate	8.68	43	289733	11.540	ppbV	99
27) 2-butanone	8.94	43	261942	10.661	ppbV	96
28) cis-1,2-dichloroethene	9.47	61	139141	9.805	ppbV	96
29) Ethyl Acetate	9.76	61	35190	9.741	ppbV	90
30) chloroform	9.82	83	165367	9.680	ppbV	98
31) Tetrahydrofuran	10.27	42	163995	9.915	ppbV	97
32) 1,2-dichloroethane	10.67	62	117381	9.558	ppbV	99
34) hexane	9.73	57	175189	9.785	ppbV	84
36) 1,1,1-trichloroethane	10.96	97	157669	11.153	ppbV	98
37) benzene	11.49	78	319530	9.920	ppbV	99
38) carbon tetrachloride	11.67	117	131580	10.028	ppbV	97
39) cyclohexane	11.81	56	183879	9.814	ppbV	99
40) Dibromomethane	12.41	93	98754	9.779	ppbV #	100
41) 1,2-dichloropropane	12.44	63	126406	9.744	ppbV	99
42) bromodichloromethane	12.67	83	173772	10.078	ppbV	99
43) 1,4-dioxane	12.72	88	64870	9.687	ppbV	99
44) trichloroethene	12.72	130	121816	10.096	ppbV	97
45) 2,2,4-trimethylpentane	12.77	57	573308	9.840	ppbV	99
46) heptane	13.09	43	280088	9.895	ppbV	100
47) cis-1,3-dichloropropene	13.73	75	165169	10.329	ppbV	97
48) 4-methyl-2-pentanone	13.77	43	322254	10.162	ppbV	100
49) trans-1,3-dichloropropene	14.35	75	156593	10.399	ppbV	100
50) 1,1,2-trichloroethane	14.55	97	118489	9.930	ppbV	96
52) toluene	14.86	91	372779	9.924	ppbV	99
54) 2-hexanone	15.13	43	302554	9.661	ppbV	99
55) dibromochloromethane	15.30	129	157191	10.318	ppbV	99
56) 1,2-dibromoethane	15.54	107	180070	10.256	ppbV	98
57) tetrachloroethene	16.00	166	129084	9.890	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.61	131	120261	10.231	ppbV	97
59) chlorobenzene	16.62	112	284480	10.117	ppbV	97
60) ethylbenzene	16.95	91	485238	9.992	ppbV	96
61) m+p-xylene	17.10	91	806796	20.271	ppbV	99
62) bromoform	17.18	173	128300	10.625	ppbV	98
63) styrene	17.41	104	322865	10.396	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.49	83	285758	10.098	ppbV	100
65) o-xylene	17.50	91	410206	9.890	ppbV	96
66) 1,2,3-Trichloropropane	17.60	75	228397	10.312	ppbV #	79
68) isopropylbenzene	17.98	105	510863	10.093	ppbV	98
69) Bromobenzene	18.06	77	289342	10.228	ppbV #	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156851_Ev2.D
 Acq On : 4 Apr 2018 10:25 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD010
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 09:58:58 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.52	105	578098	10.206	ppbV	99
71) 1,3,5-trimethylbenzene	18.57	105	494682	10.079	ppbV	97
72) tert-butylbenzene	18.91	119	485425	10.249	ppbV	97
73) 1,2,4-trimethylbenzene	18.91	105	496721	10.229	ppbV	97
74) Benzyl Chloride	19.02	91	315259	10.828	ppbV	97
75) 1,3-dichlorobenzene	19.04	146	315755	10.470	ppbV	97
76) 1,4-dichlorobenzene	19.09	146	313561	10.563	ppbV	97
77) sec-butylbenzene	19.13	105	695327	9.999	ppbV	98
78) p-isopropyltoluene	19.24	119	592491	10.146	ppbV	98
79) 1,2-dichlorobenzene	19.37	146	300052	10.398	ppbV	92
80) n-butylbenzene	19.58	91	571847	9.924	ppbV	95
81) 1,2,4-trichlorobenzene	20.88	180	256850	10.586	ppbV	98
82) naphthalene	21.00	128	713523	10.343	ppbV	100
83) 1,2,3-trichlorobenzene	21.26	180	240017	10.430	ppbV	98
84) hexachlorobutadiene	21.33	225	205404	10.121	ppbV	98

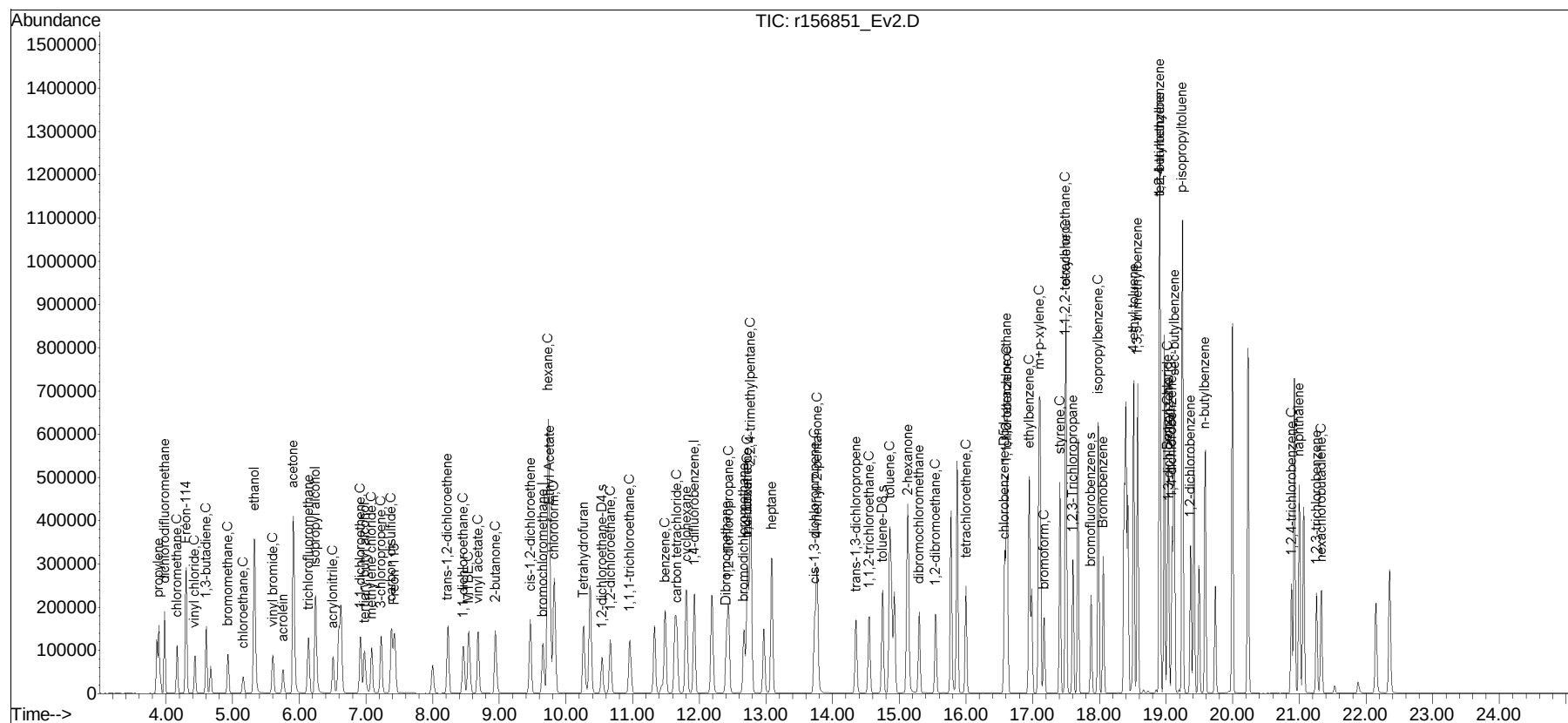
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path   : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\
Data File  : r156851_Ev2.D
Acq On     :  4 Apr 2018  10:25 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD010
Misc       : WG1103790
ALS Vial   : 0      Sample Multiplier: 1
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Quant Time: Apr 05 09:58:58 2018
Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 05 09:48:29 2018
Response via : Initial Calibration

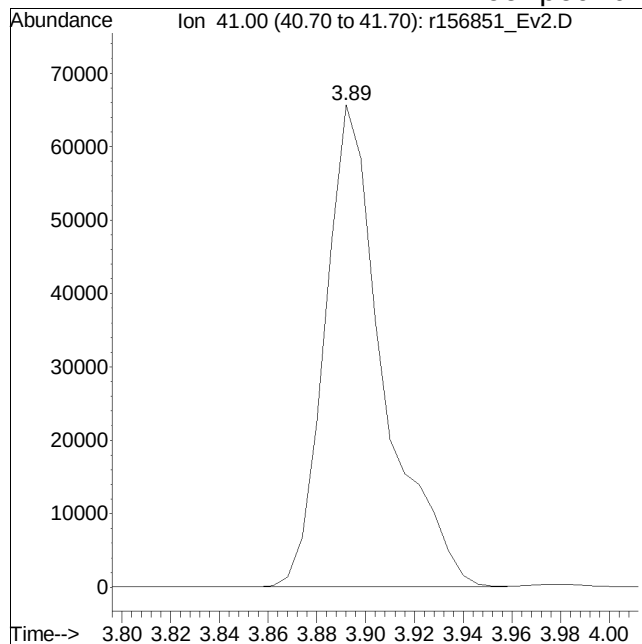
Sub List : Default - All compounds listed8\180404SIM_ICAL\r156850_Ev2.D



Manual Integration/Negative Proof Report

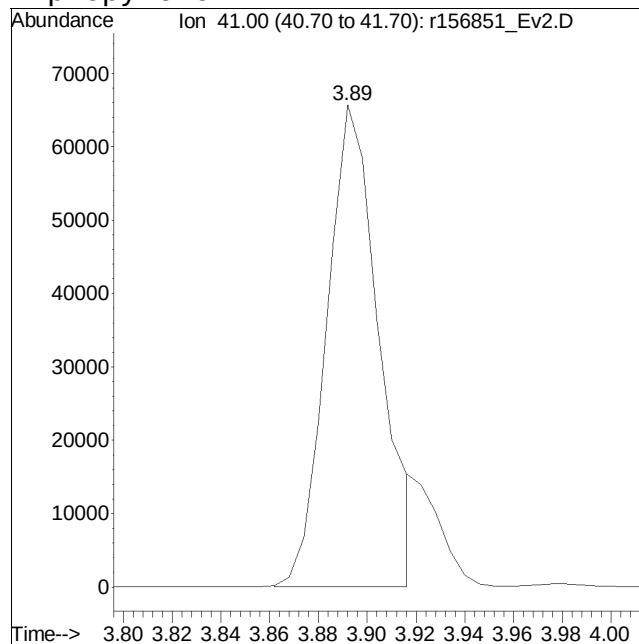
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM180404.M
Data File : r156851_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 10:25 PM Instrument :
Sample : IT015-SIMSTD010 Quant Date : 4/5/2018 9:49 am

Compound #2: propylene



Original Peak Response = 109724

M6 = Misassignment of peak valley by



Manual Peak Response = 98430 M6

(poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156852_Ev2.D
 Acq On : 4 Apr 2018 11:01 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD020
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 10:00:00 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.65	49	147866	10.000	ppbV	# 0.00
Standard Area = 133810			Recovery =	110.50%		
33) 1,4-difluorobenzene	11.93	114	305447	10.000	ppbV	0.00
Standard Area = 280369			Recovery =	108.94%		
51) chlorobenzene-D5	16.57	54	64359	10.000	ppbV	0.00
Standard Area = 59059			Recovery =	108.97%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.54	65	76022	9.161	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.61%		
53) toluene-D8	14.75	98	288050	10.134	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.34%		
67) bromofluorobenzene	17.88	95	157242	9.969	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.69%		
Target Compounds						
						Qvalue
2) propylene	3.89	41	206716M6	19.298	ppbV	
3) dichlorodifluoromethane	3.98	85	380898	20.140	ppbV	99
4) chloromethane	4.17	50	253274	22.689	ppbV	99
5) Freon-114	4.30	85	510854	22.575	ppbV	98
6) vinyl chloride	4.43	62	234821	20.974	ppbV	97
7) 1,3-butadiene	4.61	54	206609	23.243	ppbV	# 78
8) bromomethane	4.93	94	191521	20.849	ppbV	97
9) chloroethane	5.15	64	123869	30.797	ppbV	97
10) ethanol	5.32	31	951954	104.940	ppbV	92
11) vinyl bromide	5.60	106	188226	20.912	ppbV	99
12) acrolein	5.75	56	104242	22.247	ppbV	# 100
13) acetone	5.91	43	1245273	93.176	ppbV	# 87
14) trichlorofluoromethane	6.13	101	324903	17.757	ppbV	99
15) isopropyl alcohol	6.24	45	850392	50.295	ppbV	99
16) acrylonitrile	6.50	53	194027	22.052	ppbV	99
17) 1,1-dichloroethene	6.92	61	297386	19.051	ppbV	97
18) tertiary butyl alcohol	6.97	59	344300	20.424	ppbV	# 1
19) methylene chloride	7.09	49	300097	20.342	ppbV	97
20) 3-chloropropene	7.22	41	325809	16.001	ppbV	96
21) carbon disulfide	7.38	76	649077	21.443	ppbV	93
22) Freon 113	7.43	101	362533	19.488	ppbV	97
23) trans-1,2-dichloroethene	8.22	61	301810	19.104	ppbV	99
24) 1,1-dichloroethane	8.46	63	371430	18.954	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156852_Ev2.D
 Acq On : 4 Apr 2018 11:01 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD020
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 10:00:00 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.54	73	526592	19.733	ppbV	98
26) vinyl acetate	8.68	43	526351	19.509	ppbV	98
27) 2-butanone	8.93	43	578822	21.921	ppbV	96
28) cis-1,2-dichloroethene	9.47	61	300504	19.705	ppbV	92
29) Ethyl Acetate	9.76	61	78832	20.306	ppbV	91
30) chloroform	9.82	83	359984	19.609	ppbV	99
31) Tetrahydrofuran	10.26	42	361928	20.362	ppbV	95
32) 1,2-dichloroethane	10.67	62	245763	18.622	ppbV	97
34) hexane	9.73	57	380000	20.012	ppbV	80
36) 1,1,1-trichloroethane	10.96	97	338582	22.581	ppbV	99
37) benzene	11.49	78	717812	21.011	ppbV	99
38) carbon tetrachloride	11.66	117	287375	20.650	ppbV	97
39) cyclohexane	11.80	56	410528	20.659	ppbV	97
40) Dibromomethane	12.41	93	215923	20.161	ppbV #	100
41) 1,2-dichloropropane	12.43	63	276649	20.108	ppbV	99
42) bromodichloromethane	12.67	83	386074	21.112	ppbV	100
43) 1,4-dioxane	12.71	88	154582	21.766	ppbV	97
44) trichloroethene	12.72	130	271614	21.225	ppbV	99
45) 2,2,4-trimethylpentane	12.77	57	1265487	20.479	ppbV	97
46) heptane	13.09	43	610904	20.349	ppbV	97
47) cis-1,3-dichloropropene	13.73	75	382190	22.535	ppbV	95
48) 4-methyl-2-pentanone	13.76	43	714254	21.237	ppbV	99
49) trans-1,3-dichloropropene	14.35	75	361303	22.624	ppbV	96
50) 1,1,2-trichloroethane	14.55	97	266588	21.066	ppbV	95
52) toluene	14.86	91	815825	20.385	ppbV	100
54) 2-hexanone	15.13	43	652719	19.563	ppbV	98
55) dibromochloromethane	15.30	129	355470	21.902	ppbV	99
56) 1,2-dibromoethane	15.54	107	409550	21.894	ppbV	100
57) tetrachloroethene	16.00	166	293129	21.080	ppbV	97
58) 1,1,1,2-tetrachloroethane	16.61	131	270335	21.587	ppbV	97
59) chlorobenzene	16.62	112	650301	21.708	ppbV	98
60) ethylbenzene	16.95	91	1068422	20.651	ppbV	93
61) m+p-xylene	17.11	91	1738046	40.988	ppbV	95
62) bromoform	17.17	173	295322	22.956	ppbV	99
63) styrene	17.41	104	734910	22.211	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.49	83	645800	21.420	ppbV	98
65) o-xylene	17.50	91	893863	20.229	ppbV	93
66) 1,2,3-Trichloropropane	17.60	75	510021	21.613	ppbV #	83
68) isopropylbenzene	17.98	105	1127060	20.900	ppbV	96
69) Bromobenzene	18.06	77	652046	21.635	ppbV #	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156852_Ev2.D
 Acq On : 4 Apr 2018 11:01 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD020
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 10:00:00 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.52	105	1261385	20.903	ppbV	96
71) 1,3,5-trimethylbenzene	18.57	105	1079754	20.650	ppbV	95
72) tert-butylbenzene	18.91	119	1050425	20.817	ppbV	97
73) 1,2,4-trimethylbenzene	18.91	105	1077120	20.819	ppbV	96
74) Benzyl Chloride	19.02	91	769354	24.804	ppbV	94
75) 1,3-dichlorobenzene	19.03	146	710399	22.111	ppbV	94
76) 1,4-dichlorobenzene	19.09	146	693978	21.942	ppbV	96
77) sec-butylbenzene	19.12	105	1492789	20.149	ppbV	98
78) p-isopropyltoluene	19.24	119	1260951	20.267	ppbV	99
79) 1,2-dichlorobenzene	19.37	146	665249	21.639	ppbV	93
80) n-butylbenzene	19.58	91	1195936	19.480	ppbV	97
81) 1,2,4-trichlorobenzene	20.88	180	524014	20.271	ppbV	98
82) naphthalene	21.00	128	1412494	19.219	ppbV	99
83) 1,2,3-trichlorobenzene	21.26	180	468125	19.094	ppbV	97
84) hexachlorobutadiene	21.32	225	387366	17.916	ppbV	99

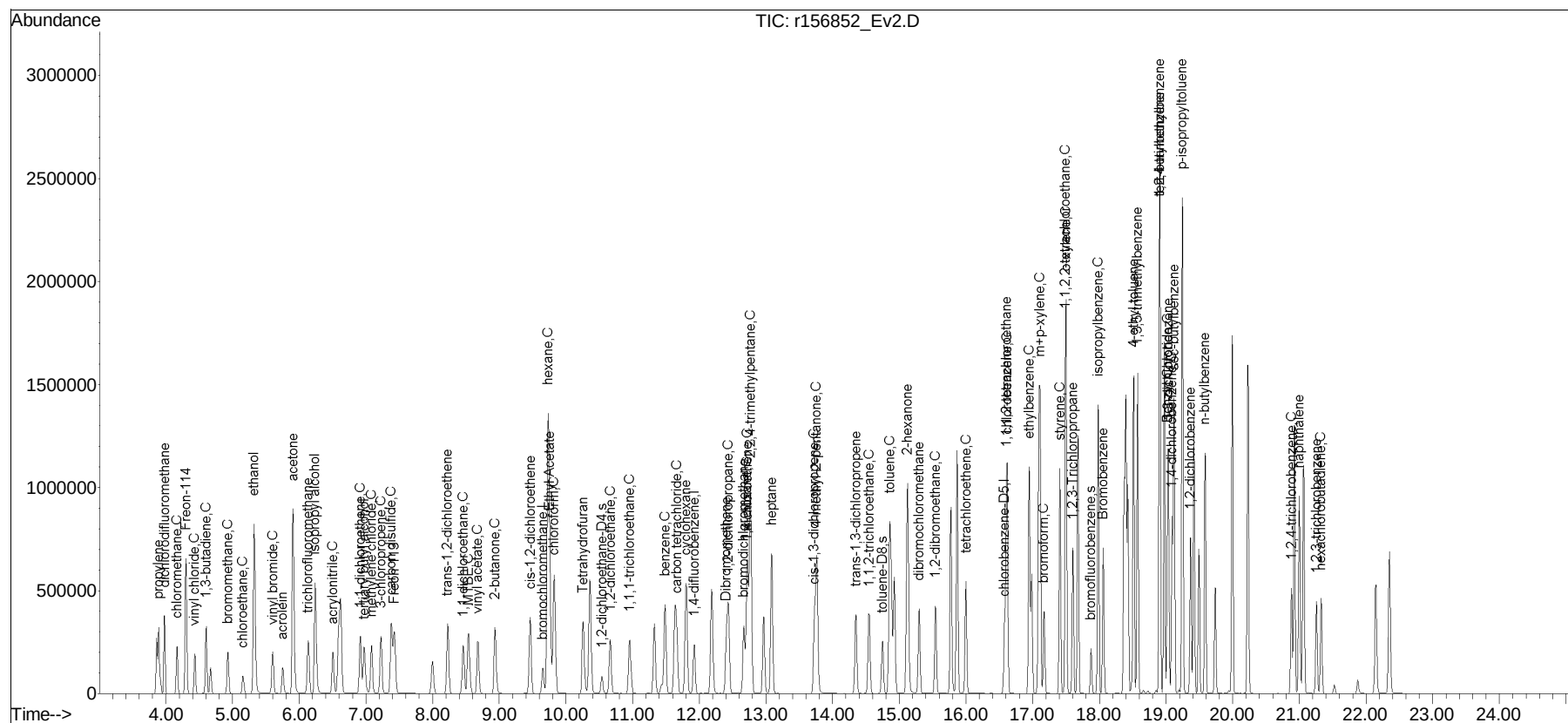
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\
Data File : r156852_Ev2.D
Acq On    : 4 Apr 2018 11:01 PM
Operator  : AIRLAB15:RY
Sample    : IT015-SIMSTD020
Misc      : WG1103790
ALS Vial  : 0 Sample Multiplier: 1
```

Quant Time: Apr 05 10:00:00 2018
Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 05 09:48:29 2018
Response via : Initial Calibration

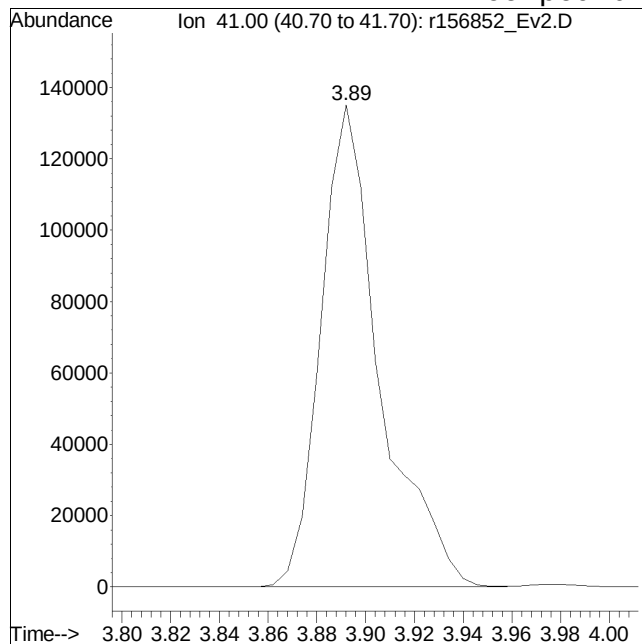
Sub List : Default - All compounds listed8\180404SIM_ICAL\r156850_Ev2.D



Manual Integration/Negative Proof Report

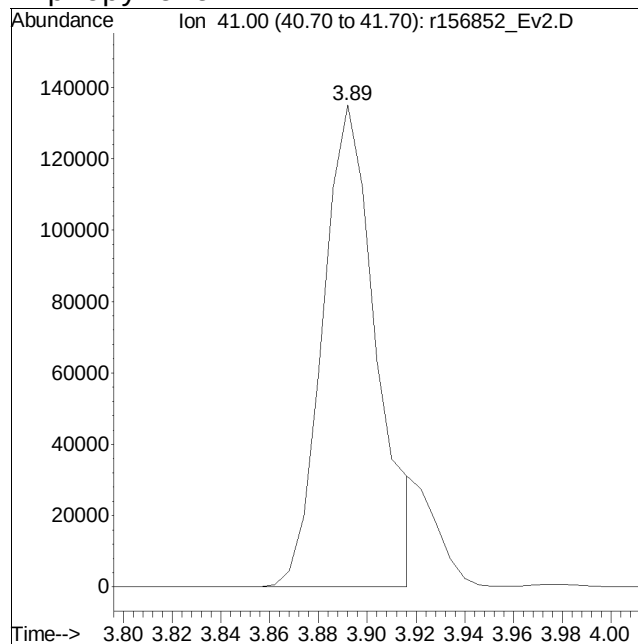
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM180404.M
Data File : r156852_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/4/2018 11:01 PM Instrument :
Sample : IT015-SIMSTD020 Quant Date : 4/5/2018 9:49 am

Compound #2: propylene



Original Peak Response = 227186

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 206716 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156853_Ev2.D
 Acq On : 4 Apr 2018 11:39 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD050
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 10:01:02 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.66	49	168135	10.000	ppbV	# 0.00
Standard Area = 133810			Recovery =	125.65%		
33) 1,4-difluorobenzene	11.92	114	352614	10.000	ppbV	0.00
Standard Area = 280369			Recovery =	125.77%		
51) chlorobenzene-D5	16.57	54	68260	10.000	ppbV	0.00
Standard Area = 59059			Recovery =	115.58%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.54	65	71823	7.497	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	74.97%		
53) toluene-D8	14.75	98	309981	10.282	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.82%		
67) bromofluorobenzene	17.88	95	172825	10.331	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.31%		
Target Compounds						
						Qvalue
2) propylene	3.89	41	445306M6	36.561	ppbV	
3) dichlorodifluoromethane	3.98	85	834830	38.821	ppbV	99
4) chloromethane	4.16	50	568345	44.777	ppbV	97
5) Freon-114	4.29	85	1159209	45.050	ppbV	97
6) vinyl chloride	4.43	62	555237	43.615	ppbV	97
7) 1,3-butadiene	4.60	54	480945	47.582	ppbV	80
8) bromomethane	4.93	94	457064	43.758	ppbV	95
9) chloroethane	5.16	64	291481	63.733	ppbV	98
10) ethanol	5.33	31	2159659	209.373	ppbV	88
11) vinyl bromide	5.60	106	433060	42.312	ppbV	98
12) acrolein	5.75	56	256641	48.169	ppbV	# 100
13) acetone	5.91	43	2517432	165.655	ppbV	# 75
14) trichlorofluoromethane	6.13	101	714205	34.328	ppbV	98
15) isopropyl alcohol	6.24	45	1816978	94.507	ppbV	# 97
16) acrylonitrile	6.51	53	475320	47.509	ppbV	98
17) 1,1-dichloroethene	6.92	61	697737	39.309	ppbV	94
18) tertiary butyl alcohol	6.98	59	836407	43.635	ppbV	# 1
19) methylene chloride	7.09	49	694830	41.422	ppbV	89
20) 3-chloropropene	7.22	41	730357	31.544	ppbV	# 93
21) carbon disulfide	7.38	76	1551556	45.078	ppbV	# 90
22) Freon 113	7.43	101	858593	40.590	ppbV	92
23) trans-1,2-dichloroethene	8.22	61	712190	39.645	ppbV	97
24) 1,1-dichloroethane	8.46	63	853478	38.303	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156853_Ev2.D
 Acq On : 4 Apr 2018 11:39 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD050
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 10:01:02 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.53	73	1177704	38.812	ppbV	95
26) vinyl acetate	8.68	43	1167096	38.044	ppbV #	92
27) 2-butanone	8.93	43	1045008	34.805	ppbV #	95
28) cis-1,2-dichloroethene	9.47	61	709804	40.933	ppbV	88
29) Ethyl Acetate	9.76	61	200743	45.475	ppbV	75
30) chloroform	9.82	83	867298	41.549	ppbV	99
31) Tetrahydrofuran	10.25	42	872139	43.151	ppbV	92
32) 1,2-dichloroethane	10.67	62	545863	36.376	ppbV #	93
34) hexane	9.73	57	941264	42.939	ppbV	98
36) 1,1,1-trichloroethane	10.96	97	763031	44.082	ppbV	97
37) benzene	11.49	78	1856395	47.070	ppbV	99
38) carbon tetrachloride	11.66	117	682439	42.478	ppbV	98
39) cyclohexane	11.80	56	1046405	45.615	ppbV	93
40) Dibromomethane	12.41	93	529768	42.849	ppbV #	100
41) 1,2-dichloropropane	12.44	63	675613	42.538	ppbV	96
42) bromodichloromethane	12.67	83	948254	44.919	ppbV	99
43) 1,4-dioxane	12.71	88	409515	49.948	ppbV	94
44) trichloroethene	12.72	130	706802	47.844	ppbV	98
45) 2,2,4-trimethylpentane	12.77	57	3176108	44.524	ppbV	93
46) heptane	13.09	43	1424396	41.100	ppbV	91
47) cis-1,3-dichloropropene	13.73	75	968281	49.456	ppbV #	89
48) 4-methyl-2-pentanone	13.76	43	1636417	42.147	ppbV	94
49) trans-1,3-dichloropropene	14.35	75	909797	49.348	ppbV	92
50) 1,1,2-trichloroethane	14.55	97	674071	46.141	ppbV	92
52) toluene	14.86	91	2026619	47.745	ppbV	99
54) 2-hexanone	15.13	43	1493782	42.213	ppbV #	88
55) dibromochloromethane	15.30	129	872279	50.672	ppbV	99
56) 1,2-dibromoethane	15.54	107	1023684	51.598	ppbV	100
57) tetrachloroethene	16.00	166	757398	51.355	ppbV #	93
58) 1,1,1,2-tetrachloroethane	16.61	131	669366	50.396	ppbV	96
59) chlorobenzene	16.62	112	1633982	51.428	ppbV	98
60) ethylbenzene	16.95	91	2563197	46.712	ppbV	90
61) m+p-xylene	17.10	91	4076963	90.652	ppbV	95
62) bromoform	17.18	173	748547	54.861	ppbV	98
63) styrene	17.41	104	1788039	50.950	ppbV	97
64) 1,1,2,2-tetrachloroethane	17.49	83	1532696	47.932	ppbV	98
65) o-xylene	17.50	91	2046378	43.664	ppbV	91
66) 1,2,3-Trichloropropane	17.60	75	1225787	48.977	ppbV #	88
68) isopropylbenzene	17.98	105	2636965	46.105	ppbV	92
69) Bromobenzene	18.06	77	1549326	48.470	ppbV #	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156853_Ev2.D
 Acq On : 4 Apr 2018 11:39 PM
 Operator : AIRLAB15:RY
 Sample : IT015-SIMSTD050
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 10:01:02 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 09:48:29 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.52	105	2932320	45.815	ppbV	95
71) 1,3,5-trimethylbenzene	18.57	105	2500541	45.089	ppbV	93
72) tert-butylbenzene	18.91	119	2303694	43.045	ppbV	93
73) 1,2,4-trimethylbenzene	18.91	105	2335520	42.562	ppbV	97
74) Benzyl Chloride	19.02	91	1923840	58.480	ppbV	91
75) 1,3-dichlorobenzene	19.04	146	1669921	49.004	ppbV	97
76) 1,4-dichlorobenzene	19.09	146	1654752	49.330	ppbV	97
77) sec-butylbenzene	19.12	105	3386283	43.093	ppbV	99
78) p-isopropyltoluene	19.24	119	2767227	41.936	ppbV	97
79) 1,2-dichlorobenzene	19.37	146	1578194	48.400	ppbV	93
80) n-butylbenzene	19.58	91	2732069	41.958	ppbV	100
81) 1,2,4-trichlorobenzene	20.88	180	1254234	45.746	ppbV	97
82) naphthalene	21.00	128	3290075	42.208	ppbV	99
83) 1,2,3-trichlorobenzene	21.26	180	1130279	43.467	ppbV	97
84) hexachlorobutadiene	21.32	225	920630	40.147	ppbV	97

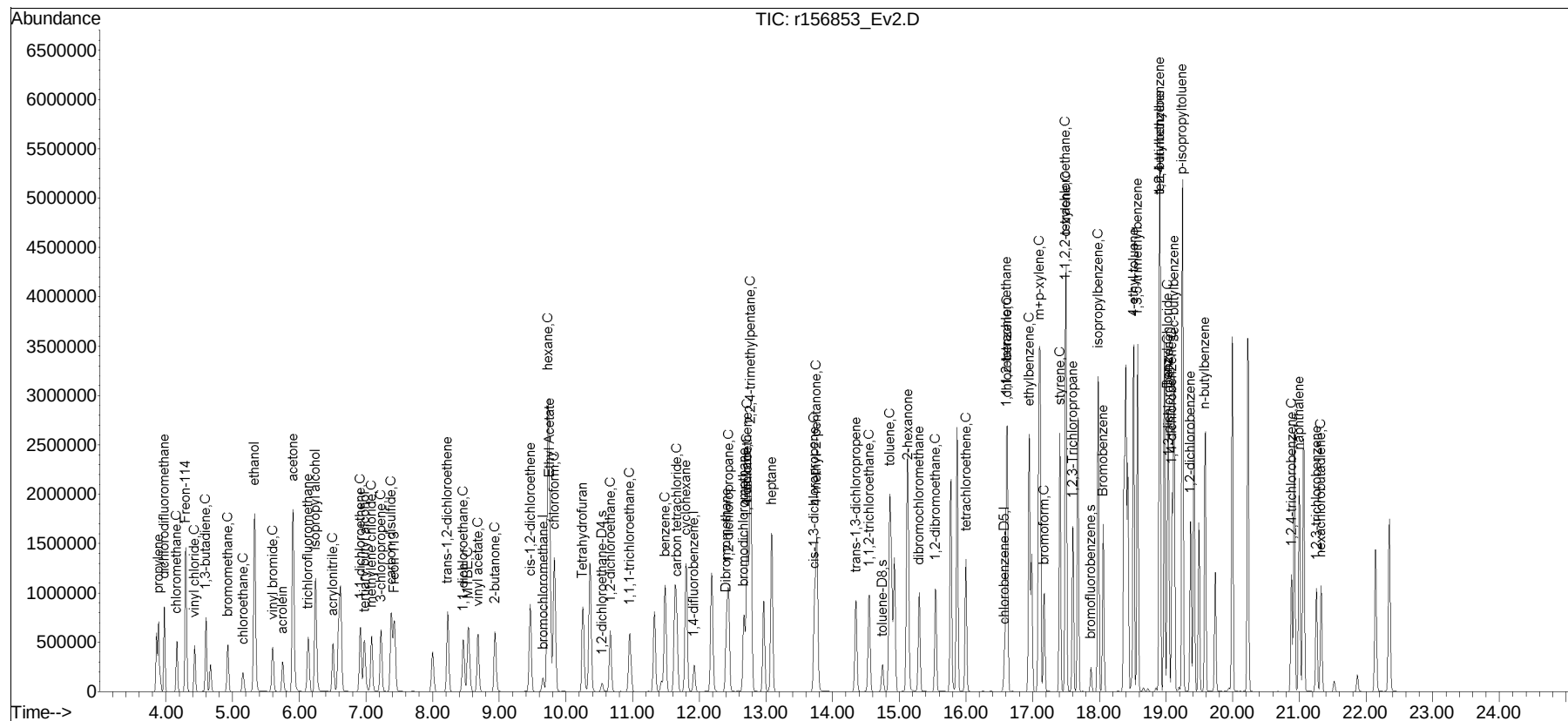
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path   : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\
Data File  : r156853_Ev2.D
Acq On     :  4 Apr 2018  11:39 PM
Operator   : AIRLAB15:RY
Sample     : IT015-SIMSTD050
Misc       : WG1103790
ALS Vial   : 0      Sample Multiplier: 1
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Quant Time: Apr 05 10:01:02 2018
Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 05 09:48:29 2018
Response via : Initial Calibration

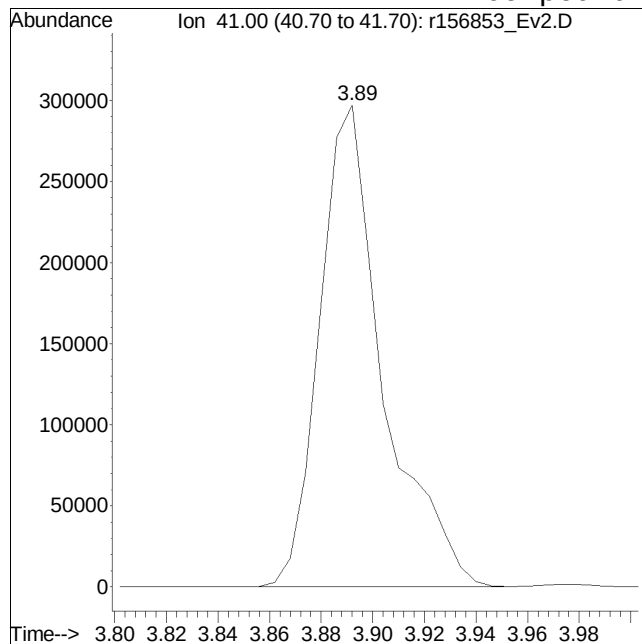
Sub List : Default - All compounds listed8\180404SIM_ICAL\r156850_Ev2.D



Manual Integration/Negative Proof Report

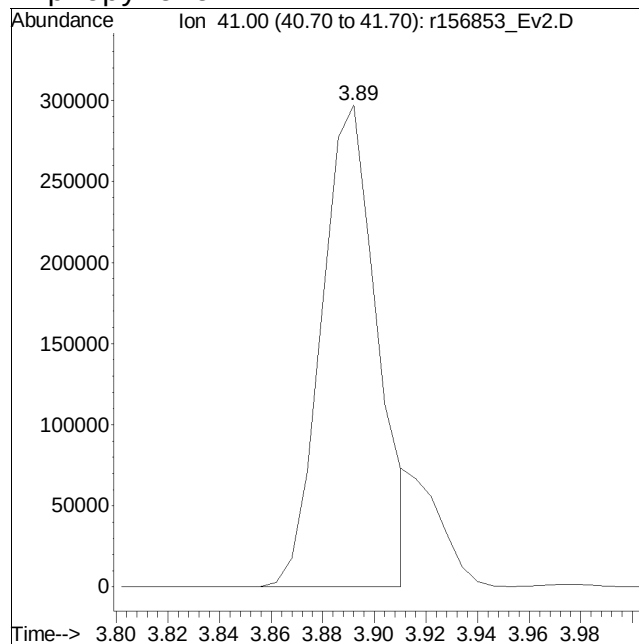
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM180404.M
 Data File : r156853_Ev2.D Operator : AIRLAB15:RY
 Date Inj'd : 4/4/2018 11:39 PM Instrument :
 Sample : IT015-SIMSTD050 Quant Date : 4/5/2018 9:49 am

Compound #2: propylene



Original Peak Response = 507196

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 445306 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156858_Ev2.D
 Acq On : 5 Apr 2018 10:22 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 11:05:29 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 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	117	-0.03
2	propylene	0.743	0.640	13.9	103	-0.02
3	dichlorodifluoromethane	1.343	1.083	19.4	99	-0.02
4 C	chloromethane	0.807	0.703	12.9	109	-0.02
5	Freon-114	1.627	1.503	7.6	115	-0.03
6 C	vinyl chloride	0.803	0.686	14.6	106	-0.03
7 C	1,3-butadiene	0.649	0.661	-1.8	128	-0.02
8 C	bromomethane	0.654	0.564	13.8	106	-0.03
9 C	chloroethane	0.410	0.388	5.4	166#	-0.04
10	ethanol	0.623	0.553	11.2	105	-0.04
11 C	vinyl bromide	0.654	0.567	13.3	109	-0.04
12	acrolein	0.377	0.288	23.6	106	-0.04
13	acetone	0.963	0.785	18.5	101	-0.04
14	trichlorofluoromethane	1.254	0.905	27.8	85	-0.03
15	isopropyl alcohol	1.304	1.061	18.6	108	-0.04
16 C	acrylonitrile	0.614	0.561	8.6	110	-0.04
17 C	1,1-dichloroethene	1.078	0.881	18.3	97	-0.04
18	tertiary butyl alcohol	1.215	1.011	16.8	104	-0.04
19 C	methylene chloride	1.000	0.867	13.3	102	-0.04
20 C	3-chloropropene	1.178	1.033	12.3	88	-0.04
21 C	carbon disulfide	2.075	1.900	8.4	108	-0.04
22	Freon 113	1.320	1.091	17.3	101	-0.04
23	trans-1,2-dichloroethene	1.077	0.920	14.6	101	-0.03
24 C	1,1-dichloroethane	1.372	1.077	21.5	95	-0.03
25 C	MTBE	1.806	1.567	13.2	101	-0.03
26 C	vinyl acetate	1.878	2.025	-7.8	130	-0.03
27 C	2-butanone	1.881	1.761	6.4	115	-0.03
28	cis-1,2-dichloroethene	1.041	0.893	14.2	101	-0.03
29	Ethyl Acetate	0.267	0.270	-1.1	120	-0.03
30 C	chloroform	1.265	1.115	11.9	105	-0.03
31	Tetrahydrofuran	1.188	1.075	9.5	104	-0.03
32 C	1,2-dichloroethane	0.916	0.650	29.0	85	-0.03
33 I	1,4-difluorobenzene	1.000	1.000	0.0	124	-0.03
34 C	hexane	0.615	0.593	3.6	118	-0.03
35 s	1,2-dichloroethane-D4	0.263	0.192	27.0	87	-0.03
36 C	1,1,1-trichloroethane	0.494	0.440	10.9	111	-0.04
37 C	benzene	1.149	1.048	8.8	116	-0.04
38 C	carbon tetrachloride	0.460	0.366	20.4	99	-0.04

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156858_Ev2.D
 Acq On : 5 Apr 2018 10:22 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 11:05:29 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 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)
39	cyclohexane	0.642	0.648	-0.9	123	-0.03
40	Dibromomethane	0.394	0.288	26.9	101	-0.04
41 C	1,2-dichloropropane	0.461	0.381	17.4	105	-0.03
42	bromodichloromethane	0.572	0.560	2.1	116	-0.03
43 C	1,4-dioxane	0.236	0.246	-4.2	131	-0.04
44 C	trichloroethene	0.443	0.393	11.3	116	-0.03
45 C	2,2,4-trimethylpentane	2.021	2.004	0.8	122	-0.03
46	heptane	0.972	0.855	12.0	107	-0.04
47 C	cis-1,3-dichloropropene	0.531	0.540	-1.7	120	-0.03
48 C	4-methyl-2-pentanone	1.041	0.971	6.7	109	-0.04
49	trans-1,3-dichloropropene	0.489	0.415	15.1	98	-0.04
50 C	1,1,2-trichloroethane	0.429	0.385	10.3	115	-0.03
51 I	chlorobenzene-D5	1.000	1.000	0.0	108	-0.02
52 C	toluene	6.484	6.265	3.4	109	-0.02
53 s	toluene-D8	4.477	4.536	-1.3	111	-0.03
54	2-hexanone	4.640	4.873	-5.0	102	-0.03
55	dibromochloromethane	2.405	2.797	-16.3	120	-0.03
56 C	1,2-dibromoethane	3.042	3.091	-1.6	115	-0.03
57 C	tetrachloroethene	2.234	2.295	-2.7	115	-0.03
58	1,1,1,2-tetrachloroethane	1.935	1.869	3.4	104	-0.03
59 C	chlorobenzene	4.868	5.044	-3.6	117	-0.02
60 C	ethylbenzene	7.788	8.077	-3.7	109	-0.02
61 C	m+p-xylene	6.430	6.435	-0.1	106	-0.03
62 C	bromoform	1.912	2.291	-19.8	124	-0.03
63 C	styrene	4.895	5.343	-9.2	113	-0.02
64 C	1,1,2,2-tetrachloroethane	4.554	4.949	-8.7	115	-0.02
65 C	o-xylene	6.514	6.671	-2.4	105	-0.02
66	1,2,3-Trichloropropane	3.737	3.474	7.0	103	-0.03
67 s	bromofluorobenzene	2.279	1.608	29.4	71	-0.02
68 C	isopropylbenzene	8.022	8.337	-3.9	108	-0.02
69	Bromobenzene	4.666	4.501	3.5	104	-0.02
70	4-ethyl toluene	8.577	9.584	-11.7	111	-0.02
71	1,3,5-trimethylbenzene	7.438	7.860	-5.7	105	-0.02
72	tert-butylbenzene	7.638	7.252	5.1	100	-0.03
73	1,2,4-trimethylbenzene	7.209	7.934	-10.1	107	-0.03
74 C	Benzyl Chloride	4.211	5.162	-22.6	116	-0.02
75	1,3-dichlorobenzene	4.702	5.070	-7.8	110	-0.03
76 C	1,4-dichlorobenzene	4.649	4.878	-4.9	108	-0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156858_Ev2.D
 Acq On : 5 Apr 2018 10:22 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 11:05:29 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 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)
77	sec-butylbenzene	10.225	10.432	-2.0	98	-0.02
78	p-isopropyltoluene	8.557	8.273	3.3	93	-0.02
79	1,2-dichlorobenzene	4.428	4.761	-7.5	108	-0.02
80	n-butylbenzene	8.085	8.485	-4.9	96	-0.02
81 C	1,2,4-trichlorobenzene	3.160	3.581	-13.3	97	-0.02
82	naphthalene	9.523	9.713	-2.0	92	-0.02
83	1,2,3-trichlorobenzene	3.063	3.224	-5.3	92	-0.02
84 C	hexachlorobutadiene	2.734	2.941	-7.6	95	-0.02

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156858_Ev2.D
 Acq On : 5 Apr 2018 10:22 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 11:05:29 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.63	49	156310	10.000	ppbV	#-0.03
Standard Area = 133810			Recovery =	116.81%		
33) 1,4-difluorobenzene	11.89	114	346313	10.000	ppbV	-0.03
Standard Area = 280369			Recovery =	123.52%		
51) chlorobenzene-D5	16.56	54	64033	10.000	ppbV	-0.02
Standard Area = 59059			Recovery =	108.42%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	10.51	65	66480	7.287	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery =	72.87%		
53) toluene-D8	14.72	98	290473	10.132	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.32%		
67) bromofluorobenzene	17.86	95	102958	7.055	ppbV	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	70.55%		
Target Compounds						
					Qvalue	
2) propylene	3.87	41	50043M6	4.309	ppbV	
3) dichlorodifluoromethane	3.96	85	84658	4.032	ppbV	99
4) chloromethane	4.14	50	54939	4.355	ppbV	96
5) Freon-114	4.28	85	117500	4.619	ppbV	96
6) vinyl chloride	4.41	62	53617	4.270	ppbV	97
7) 1,3-butadiene	4.58	54	51623	5.087	ppbV	# 75
8) bromomethane	4.91	94	44063	4.313	ppbV	97
9) chloroethane	5.13	64	30286	4.731	ppbV	99
10) ethanol	5.30	31	216004	22.194	ppbV	87
11) vinyl bromide	5.57	106	44343	4.336	ppbV	97
12) acrolein	5.73	56	22484	3.817	ppbV	# 100
13) acetone	5.88	43	306584	20.359	ppbV	# 82
14) trichlorofluoromethane	6.11	101	70708	3.608	ppbV	97
15) isopropyl alcohol	6.21	45	207398	10.176	ppbV	# 98
16) acrylonitrile	6.48	53	43853	4.569	ppbV	97
17) 1,1-dichloroethene	6.89	61	68840	4.084	ppbV	95
18) tertiary butyl alcohol	6.95	59	79049	4.164	ppbV	# 1
19) methylene chloride	7.06	49	67769	4.334	ppbV	90
20) 3-chloropropene	7.19	41	80727	4.385	ppbV	# 94
21) carbon disulfide	7.35	76	148524	4.578	ppbV	# 92
22) Freon 113	7.40	101	85274	4.133	ppbV	94
23) trans-1,2-dichloroethene	8.20	61	71912	4.271	ppbV	94
24) 1,1-dichloroethane	8.43	63	84166	3.923	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156858_Ev2.D
 Acq On : 5 Apr 2018 10:22 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 11:05:29 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	8.52	73	122439	4.338	ppbV	95
26) vinyl acetate	8.65	43	158260	5.392	ppbV	98
27) 2-butanone	8.92	43	137624	4.681	ppbV	98
28) cis-1,2-dichloroethene	9.43	61	69754	4.288	ppbV	91
29) Ethyl Acetate	9.73	61	21138	5.068	ppbV	61
30) chloroform	9.79	83	87117	4.407	ppbV	98
31) Tetrahydrofuran	10.24	42	83997	4.523	ppbV #	89
32) 1,2-dichloroethane	10.63	62	50821	3.550	ppbV #	93
34) hexane	9.70	57	102704	4.819	ppbV	81
36) 1,1,1-trichloroethane	10.93	97	76194	4.456	ppbV #	97
37) benzene	11.45	78	181538	4.562	ppbV	98
38) carbon tetrachloride	11.63	117	63458	3.985	ppbV	96
39) cyclohexane	11.77	56	112160	5.044	ppbV	91
40) Dibromomethane	12.37	93	49815	3.655	ppbV #	100
41) 1,2-dichloropropane	12.41	63	66001	4.134	ppbV	95
42) bromodichloromethane	12.64	83	97015	4.902	ppbV	100
43) 1,4-dioxane	12.69	88	42583	5.217	ppbV	96
44) trichloroethene	12.69	130	68047	4.438	ppbV	97
45) 2,2,4-trimethylpentane	12.74	57	346922	4.956	ppbV #	90
46) heptane	13.05	43	148080	4.400	ppbV	91
47) cis-1,3-dichloropropene	13.70	75	93444	5.077	ppbV #	87
48) 4-methyl-2-pentanone	13.73	43	168214	4.665	ppbV	94
49) trans-1,3-dichloropropene	14.32	75	71915	4.244	ppbV	94
50) 1,1,2-trichloroethane	14.52	97	66583	4.482	ppbV	93
52) toluene	14.83	91	200572	4.831	ppbV	99
54) 2-hexanone	15.11	43	156024	5.251	ppbV	92
55) dibromochloromethane	15.28	129	89561	5.815	ppbV	99
56) 1,2-dibromoethane	15.52	107	98969	5.081	ppbV	99
57) tetrachloroethene	15.98	166	73472	5.136	ppbV	93
58) 1,1,1,2-tetrachloroethane	16.58	131	59853	4.830	ppbV	97
59) chlorobenzene	16.60	112	161488	5.180	ppbV	97
60) ethylbenzene	16.93	91	258596	5.186	ppbV	96
61) m+p-xylene	17.08	91	412051	10.008	ppbV	95
62) bromoform	17.15	173	73360	5.993	ppbV	100
63) styrene	17.39	104	171053	5.457	ppbV	96
64) 1,1,2,2-tetrachloroethane	17.48	83	158450	5.434	ppbV	99
65) o-xylene	17.48	91	213576	5.121	ppbV	97
66) 1,2,3-Trichloropropane	17.58	75	111234	4.648	ppbV #	88
68) isopropylbenzene	17.97	105	266932	5.197	ppbV	97
69) Bromobenzene	18.04	77	144095	4.823	ppbV #	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\
 Data File : r156858_Ev2.D
 Acq On : 5 Apr 2018 10:22 AM
 Operator : AIRLAB15:RY
 Sample : CT015-SIMSTD5.0
 Misc : WG1103790
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Apr 05 11:05:29 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\r156850_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.49	105	306860	5.587	ppbV	99
71) 1,3,5-trimethylbenzene	18.56	105	251646	5.284	ppbV	96
72) tert-butylbenzene	18.88	119	232179	4.747	ppbV	98
73) 1,2,4-trimethylbenzene	18.88	105	254023	5.503	ppbV	96
74) Benzyl Chloride	19.01	91	165272	6.130	ppbV	96
75) 1,3-dichlorobenzene	19.02	146	162334	5.392	ppbV	98
76) 1,4-dichlorobenzene	19.07	146	156181	5.247	ppbV	92
77) sec-butylbenzene	19.10	105	333995	5.101	ppbV	96
78) p-isopropyltoluene	19.23	119	264864	4.834	ppbV	100
79) 1,2-dichlorobenzene	19.35	146	152433	5.376	ppbV	98
80) n-butylbenzene	19.57	91	271657	5.247	ppbV	96
81) 1,2,4-trichlorobenzene	20.87	180	114657	5.666	ppbV	96
82) naphthalene	20.98	128	310971	5.100	ppbV	98
83) 1,2,3-trichlorobenzene	21.24	180	103209	5.262	ppbV	96
84) hexachlorobutadiene	21.31	225	94148	5.378	ppbV	99

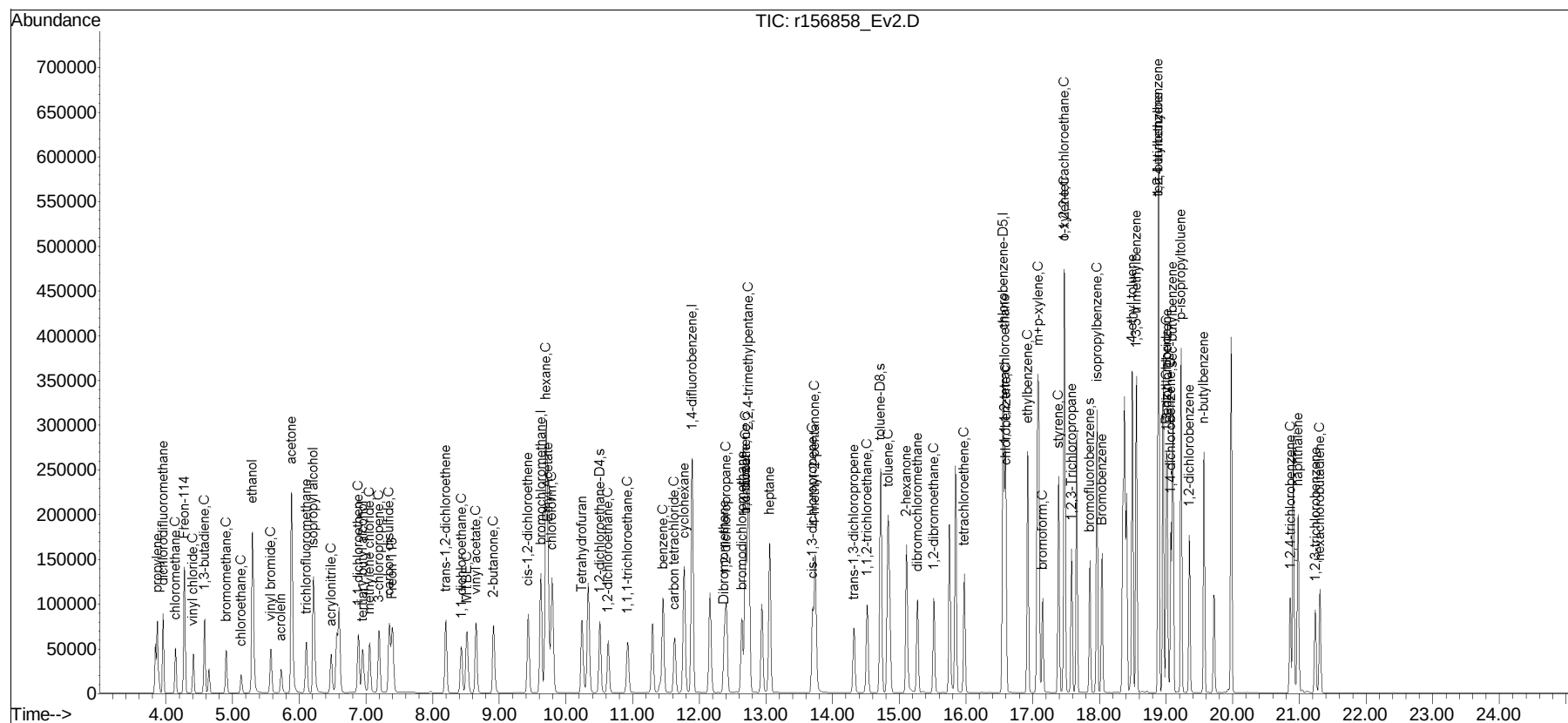
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path   : 0:\Forensics\Data\AirLab15\2018\180404SIM_ICAL\
Data File  : r156858_Ev2.D
Acq On     : 5 Apr 2018 10:22 AM
Operator   : AIRLAB15:RY
Sample     : CT015-SIMSTD5.0
Misc      : WG1103790
ALS Vial   : 0    Sample Multiplier: 1
```

Quant Time: Apr 05 11:05:29 2018
Quant Method : 0:\Forensics\Data\Airlab15\2018\180404SIM_ICAL\TSIM180404.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 05 10:02:48 2018
Response via : Initial Calibration

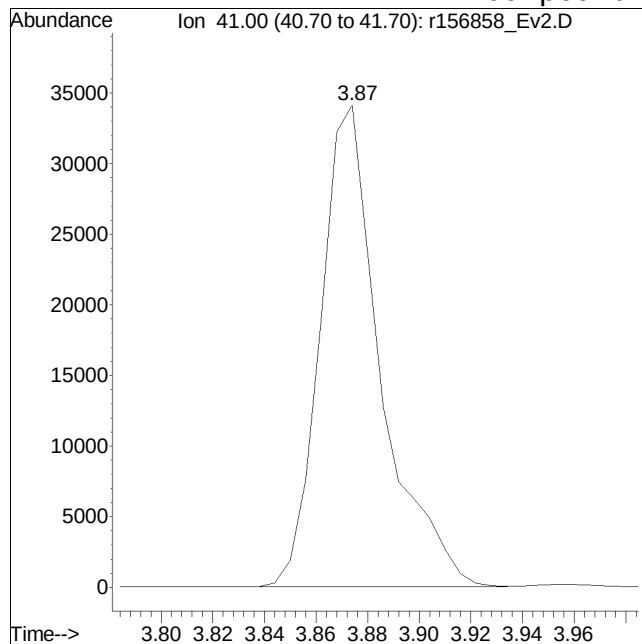
Sub List : Default - All compounds listed8\180404SIM_ICAL\r156850_Ev2.D



Manual Integration/Negative Proof Report

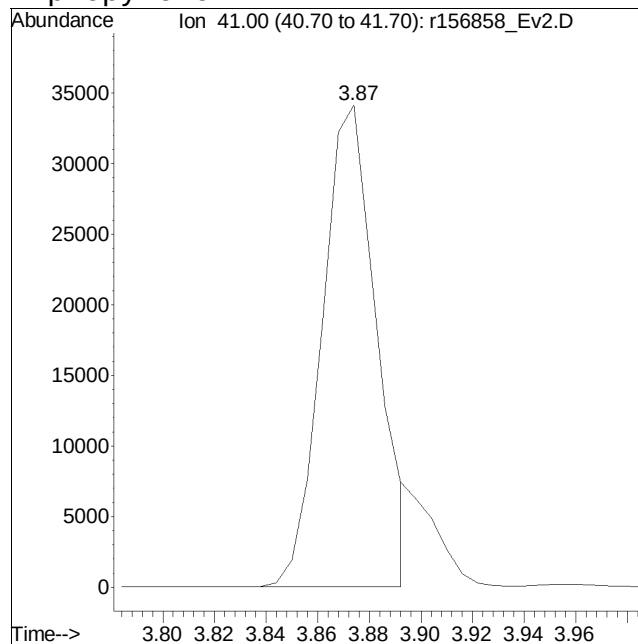
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM180404.M
Data File : r156858_Ev2.D Operator : AIRLAB15:RY
Date Inj'd : 4/5/2018 10:22 AM Instrument :
Sample : CT015-SIMSTD5.0 Quant Date : 4/5/2018 10:59 am

Compound #2: propylene



Original Peak Response = 55456

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 50043 M6

Continuing Calibration

Continuing Calibration Form 7

Client : Roux Envr. Engr. & Geology, DPC
Project Name : OCEANSIDE PLAZA
Instrument ID : AIRLAB15
Lab File ID : R157387_EV2
Sample No : WG1111464-2
Channel :

Lab Number : L1815200
Project Number : 1802.0001Y000
Calibration Date : 05/01/18 10:36
Init. Calib. Date(s) : 04/04/18 04/04/18
Init. Calib. Times : 18:10 23:39

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	100	-.04
propylene	0.743	0.606	-	18.4	30	84	-.03
dichlorodifluoromethane	1.343	1.101	-	18	30	86	-.04
chloromethane	0.807	0.669	-	17.1	30	89	-.04
Freon-114	1.627	1.488	-	8.5	30	97	-.04
vinyl chloride	0.803	0.655	-	18.4	30	87	-.04
1,3-butadiene	0.649	0.613	-	5.5	30	102	-.04
bromomethane	0.654	0.536	-	18	30	86	-.05
chloroethane	0.41	0.344	-	16.1	30	127	-.04
ethanol	0.623	0.461	-	26	30	75	-.04
vinyl bromide	0.654	0.527	-	19.4	30	87	-.05
acrolein	0.377	0.255	-	32.4*	30	80	-.04
acetone	0.963	0.727	-	24.5	30	80	-.05
trichlorofluoromethane	1.254	0.914	-	27.1	30	74	-.05
isopropyl alcohol	1.304	0.898	-	31.1*	30	79	-.05
acrylonitrile	0.614	0.489	-	20.4	30	82	-.04
1,1-dichloroethene	1.078	0.832	-	22.8	30	79	-.05
tertiary butyl alcohol	1.215	0.84	-	30.9*	30	74	-.04
methylene chloride	1	0.797	-	20.3	30	80	-.05
3-chloropropene	1.178	0.904	-	23.3	30	66	-.04
carbon disulfide	2.075	1.716	-	17.3	30	84	-.05
Freon 113	1.32	1.051	-	20.4	30	84	-.05
trans-1,2-dichloroethene	1.077	0.935	-	13.2	30	88	-.04
1,1-dichloroethane	1.372	1.142	-	16.8	30	86	-.04
MTBE	1.806	1.501	-	16.9	30	83	-.04
vinyl acetate	1.878	1.826	-	2.8	30	100	-.03
2-butanone	1.881	1.548	-	17.7	30	87	-.04
cis-1,2-dichloroethene	1.041	0.859	-	17.5	30	83	-.04
Ethyl Acetate	0.267	0.234	-	12.4	30	89	-.03
chloroform	1.265	1.143	-	9.6	30	92	-.04
Tetrahydrofuran	1.188	0.94	-	20.9	30	78	-.04
1,2-dichloroethane	0.916	0.673	-	26.5	30	75	-.03
1,4-difluorobenzene	1	1	-	0	30	107	-.04
hexane	0.615	0.552	-	10.2	30	95	-.03
1,1,1-trichloroethane	0.494	0.445	-	9.9	30	97	-.04
benzene	1.149	1.007	-	12.4	30	97	-.04
carbon tetrachloride	0.46	0.388	-	15.7	30	91	-.04
cyclohexane	0.642	0.599	-	6.7	30	99	-.03
Dibromomethane	0.394	0.279	-	29.2	30	85	-.05
1,2-dichloropropane	0.461	0.355	-	23	30	84	-.04
bromodichloromethane	0.572	0.558	-	2.4	30	100	-.04
1,4-dioxane	0.236	0.223	-	5.5	30	103	-.05
trichloroethene	0.443	0.382	-	13.8	30	98	-.04
2,2,4-trimethylpentane	2.021	1.886	-	6.7	30	100	-.04
heptane	0.972	0.804	-	17.3	30	88	-.04

* Value outside of QC limits.



Continuing Calibration Form 7

Client : Roux Envr. Engr. & Geology, DPC
Project Name : OCEANSIDE PLAZA
Instrument ID : AIRLAB15
Lab File ID : R157387_EV2
Sample No : WG1111464-2
Channel :

Lab Number : L1815200
Project Number : 1802.0001Y000
Calibration Date : 05/01/18 10:36
Init. Calib. Date(s) : 04/04/18 04/04/18
Init. Calib. Times : 18:10 23:39

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
cis-1,3-dichloropropene	0.531	0.488	-	8.1	30	94	-.04
4-methyl-2-pentanone	1.041	0.906	-	13	30	88	-.04
trans-1,3-dichloropropene	0.489	0.373	-	23.7	30	77	-.04
1,1,2-trichloroethane	0.429	0.368	-	14.2	30	95	-.03
chlorobenzene-D5	1	1	-	0	30	90	-.03
toluene	6.484	6.337	-	2.3	30	91	-.03
2-hexanone	4.64	4.574	-	1.4	30	79	-.04
dibromochloromethane	2.405	2.95	-	-22.7	30	105	-.03
1,2-dibromoethane	3.042	3.14	-	-3.2	30	97	-.03
tetrachloroethene	2.234	2.329	-	-4.3	30	97	-.03
1,1,1,2-tetrachloroethane	1.935	1.949	-	-0.7	30	90	-.03
chlorobenzene	4.868	5.081	-	-4.4	30	98	-.03
ethylbenzene	7.788	7.97	-	-2.3	30	89	-.02
m+p-xylene	6.43	6.602	-	-2.7	30	90	-.03
bromoform	1.912	2.385	-	-24.7	30	107	-.03
styrene	4.895	5.238	-	-7	30	91	-.03
1,1,2,2-tetrachloroethane	4.554	4.972	-	-9.2	30	95	-.02
o-xylene	6.514	6.742	-	-3.5	30	88	-.02
1,2,3-Trichloropropane	3.737	3.521	-	5.8	30	86	-.03
isopropylbenzene	8.022	8.342	-	-4	30	89	-.02
Bromobenzene	4.666	4.433	-	5	30	85	-.02
4-ethyl toluene	8.577	9.655	-	-12.6	30	92	-.02
1,3,5-trimethylbenzene	7.438	8.016	-	-7.8	30	88	-.02
tert-butylbenzene	7.638	7.348	-	3.8	30	84	-.03
1,2,4-trimethylbenzene	7.209	8.025	-	-11.3	30	89	-.03
Benzyl Chloride	4.211	4.839	-	-14.9	30	90	-.02
1,3-dichlorobenzene	4.702	4.951	-	-5.3	30	89	-.03
1,4-dichlorobenzene	4.649	4.837	-	-4	30	88	-.02
sec-butylbenzene	10.225	10.71	-	-4.7	30	83	-.02
p-isopropyltoluene	8.557	8.309	-	2.9	30	77	-.02
1,2-dichlorobenzene	4.428	4.732	-	-6.9	30	89	-.02
n-butylbenzene	8.085	8.28	-	-2.4	30	78	-.02
1,2,4-trichlorobenzene	3.16	2.981	-	5.7	30	67	-.02
naphthalene	9.523	8.739	-	8.2	30	69	-.02
1,2,3-trichlorobenzene	3.063	2.958	-	3.4	30	70	-.02
hexachlorobutadiene	2.734	3.091	-	-13.1	30	82	-.02

* Value outside of QC limits.



Continuing Calibration Form 7

Client : Roux Envr. Engr. & Geology, DPC
 Project Name : OCEANSIDE PLAZA
 Instrument ID : AIRPIANO1
 Lab File ID : R159114
 Sample No : WG1111916-2
 Channel :

Lab Number : L1815200
 Project Number : 1802.0001Y000
 Calibration Date : 05/02/18 13:48
 Init. Calib. Date(s) : 02/26/18 02/27/18
 Init. Calib. Times : 22:00 02:50

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	78	0
propylene	0.524	0.318	-	39.3*	30	52	0
dichlorodifluoromethane	1.122	1.086	-	3.2	30	74	0
chloromethane	0.577	0.404	-	30	30	55	0
Freon-114	1.434	1.397	-	2.6	30	75	-.01
vinyl chloride	0.593	0.506	-	14.7	30	66	0
1,3-butadiene	0.405	0.365	-	9.9	30	70	0
bromomethane	0.499	0.51	-	-2.2	30	77	0
chloroethane	0.279	0.238	-	14.7	30	67	0
ethanol	0.461	0.349	-	24.3	30	64	0
vinyl bromide	0.449	0.483	-	-7.6	30	84	0
acrolein	0.251	0.185	-	26.3	30	62	0
acetone	0.755	0.788	-	-4.4	30	88	0
trichlorofluoromethane	1.261	1.406	-	-11.5	30	86	0
isopropyl alcohol	1.029	0.896	-	12.9	30	83	0
acrylonitrile	0.428	0.358	-	16.4	30	67	0
1,1-dichloroethene	0.969	0.949	-	2.1	30	76	0
tertiary butyl alcohol	1.13	0.984	-	12.9	30	70	0
methylene chloride	0.776	0.768	-	1	30	76	0
3-chloropropene	0.802	0.813	-	-1.4	30	80	0
carbon disulfide	1.57	1.525	-	2.9	30	75	0
Freon 113	0.986	1.036	-	-5.1	30	81	0
trans-1,2-dichloroethene	0.895	0.805	-	10.1	30	71	0
1,1-dichloroethane	1.119	1.014	-	9.4	30	71	0
MTBE	1.324	1.147	-	13.4	30	69	0
vinyl acetate	1.279	1.185	-	7.3	30	76	0
2-butanone	1.349	1.177	-	12.8	30	70	0
cis-1,2-dichloroethene	0.972	0.836	-	14	30	67	0
Ethyl Acetate	0.222	0.22	-	0.9	30	78	0
chloroform	1.37	1.399	-	-2.1	30	80	0
Tetrahydrofuran	0.746	0.607	-	18.6	30	64	0
1,2-dichloroethane	0.843	0.804	-	4.6	30	76	-.01
1,4-difluorobenzene	1	1	-	0	30	79	0
hexane	0.787	0.648	-	17.7	30	68	0
1,1,1-trichloroethane	0.75	0.733	-	2.3	30	79	0
benzene	1.14	0.938	-	17.7	30	67	-.01
carbon tetrachloride	0.713	0.734	-	-2.9	30	83	0
cyclohexane	0.637	0.514	-	19.3	30	65	0
dibromomethane	0.501	0.411	-	18	30	72	0
1,2-dichloropropane	0.513	0.437	-	14.8	30	68	0
bromodichloromethane	0.874	0.904	-	-3.4	30	82	0
1,4-dioxane	0.221	0.21	-	5	30	74	0
trichloroethene	0.41	0.396	-	3.4	30	76	0
2,2,4-trimethylpentane	2.06	1.883	-	8.6	30	74	0
heptane	0.869	0.694	-	20.1	30	65	0

* Value outside of QC limits.



Continuing Calibration Form 7

Client : Roux Envr. Engr. & Geology, DPC
Project Name : OCEANSIDE PLAZA
Instrument ID : AIRPIANO1
Lab File ID : R159114
Sample No : WG1111916-2
Channel :

Lab Number : L1815200
Project Number : 1802.0001Y000
Calibration Date : 05/02/18 13:48
Init. Calib. Date(s) : 02/26/18 02/27/18
Init. Calib. Times : 22:00 02:50

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
cis-1,3-dichloropropene	2.5	2.184	-	12.6	30	67	0
4-methyl-2-pentanone	1.066	1.061	-	0.5	30	72	0
trans-1,3-dichloropropene	0.594	0.47	-	20.9	30	57	0
1,1,2-trichloroethane	0.438	0.422	-	3.7	30	75	0
chlorobenzene-D5	1	1	-	0	30	75	0
toluene	4.464	4.226	-	5.3	30	69	0
2-hexanone	3.635	3.803	-	-4.6	30	70	0
dibromochloromethane	2.524	3.236	-	-28.2	30	90	0
1,2-dibromoethane	2.464	2.612	-	-6	30	74	0
tetrachloroethene	1.718	1.926	-	-12.1	30	81	0
1,1,1,2-tetrachloroethane	1.688	1.731	-	-2.5	30	73	0
chlorobenzene	3.337	3.366	-	-0.9	30	72	0
ethylbenzene	5.755	5.344	-	7.1	30	67	0
m+p-xylene	4.457	4.39	-	1.5	30	69	0
bromoform	2.296	2.952	-	-28.6	30	92	0
styrene	2.982	2.972	-	0.3	30	67	0
1,1,2,2-tetrachloroethane	4.04	4.457	-	-10.3	30	77	0
o-xylene	4.681	4.834	-	-3.3	30	73	0
1,2,3-trichloropropane	3.063	2.996	-	2.2	30	69	0
isopropylbenzene	5.408	5.485	-	-1.4	30	75	0
bromobenzene	3.471	3.227	-	7	30	67	0
4-ethyl toluene	5.556	6.375	-	-14.7	30	77	0
1,3,5-trimethylbenzene	4.819	5.047	-	-4.7	30	72	0
tert-butylbenzene	4.566	4.689	-	-2.7	30	69	0
1,2,4-trimethylbenzene	4.712	5.226	-	-10.9	30	73	0
Benzyl Chloride	4.36	4.793	-	-9.9	30	76	0
1,3-dichlorobenzene	3.123	3.755	-	-20.2	30	80	0
1,4-dichlorobenzene	3.214	3.938	-	-22.5	30	83	0
sec-butylbenzene	6.748	7.157	-	-6.1	30	71	0
p-isopropyltoluene	5.392	4.956	-	8.1	30	62	0
1,2-dichlorobenzene	2.96	3.704	-	-25.1	30	85	0
n-butylbenzene	5.865	6.437	-	-9.8	30	70	0
1,2,4-trichlorobenzene	2.156	3.34	-	-54.9*	30	89	0
naphthalene	5.58	6.559	-	-17.5	30	70	.01
1,2,3-trichlorobenzene	1.986	2.918	-	-46.9*	30	81	0
hexachlorobutadiene	1.861	2.961	-	-59.1*	30	96	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157387_Ev2.D
 Acq On : 1 May 2018 10:36 AM
 Operator : AIRLAB15:MB
 Sample : WG1111464-2,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 01 11:26:34 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 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	100	-0.04
2	propylene	0.743	0.606	18.4	84	-0.03
3	dichlorodifluoromethane	1.343	1.101	18.0	86	-0.04
4 C	chloromethane	0.807	0.669	17.1	89	-0.04
5	Freon-114	1.627	1.488	8.5	97	-0.04
6 C	vinyl chloride	0.803	0.655	18.4	87	-0.04
7 C	1,3-butadiene	0.649	0.613	5.5	102	-0.04
8 C	bromomethane	0.654	0.536	18.0	86	-0.05
9 C	chloroethane	0.410	0.344	16.1	127	-0.04
10	ethanol	0.623	0.461	26.0	75	-0.04
11 C	vinyl bromide	0.654	0.527	19.4	87	-0.05
12	acrolein	0.377	0.255	32.4#	80	-0.04
13	acetone	0.963	0.727	24.5	80	-0.05
14	trichlorofluoromethane	1.254	0.914	27.1	74	-0.05
15	isopropyl alcohol	1.304	0.898	31.1#	79	-0.05
16 C	acrylonitrile	0.614	0.489	20.4	82	-0.04
17 C	1,1-dichloroethene	1.078	0.832	22.8	79	-0.05
18	tertiary butyl alcohol	1.215	0.840	30.9#	74	-0.04
19 C	methylene chloride	1.000	0.797	20.3	80	-0.05
20 C	3-chloropropene	1.178	0.904	23.3	66	-0.04
21 C	carbon disulfide	2.075	1.716	17.3	84	-0.05
22	Freon 113	1.320	1.051	20.4	84	-0.05
23	trans-1,2-dichloroethene	1.077	0.935	13.2	88	-0.04
24 C	1,1-dichloroethane	1.372	1.142	16.8	86	-0.04
25 C	MTBE	1.806	1.501	16.9	83	-0.04
26 C	vinyl acetate	1.878	1.826	2.8	100	-0.03
27 C	2-butanone	1.881	1.548	17.7	87	-0.04
28	cis-1,2-dichloroethene	1.041	0.859	17.5	83	-0.04
29	Ethyl Acetate	0.267	0.234	12.4	89	-0.03
30 C	chloroform	1.265	1.143	9.6	92	-0.04
31	Tetrahydrofuran	1.188	0.940	20.9	78	-0.04
32 C	1,2-dichloroethane	0.916	0.673	26.5	75	-0.03
33 I	1,4-difluorobenzene	1.000	1.000	0.0	107	-0.04
34 C	hexane	0.615	0.552	10.2	95	-0.03
36 C	1,1,1-trichloroethane	0.494	0.445	9.9	97	-0.04
37 C	benzene	1.149	1.007	12.4	97	-0.04
38 C	carbon tetrachloride	0.460	0.388	15.7	91	-0.04
39	cyclohexane	0.642	0.599	6.7	99	-0.03

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157387_Ev2.D
 Acq On : 1 May 2018 10:36 AM
 Operator : AIRLAB15:MB
 Sample : WG1111464-2,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 01 11:26:34 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 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)
40	Dibromomethane	0.394	0.279	29.2	85	-0.05
41 C	1,2-dichloropropane	0.461	0.355	23.0	84	-0.04
42	bromodichloromethane	0.572	0.558	2.4	100	-0.04
43 C	1,4-dioxane	0.236	0.223	5.5	103	-0.05
44 C	trichloroethene	0.443	0.382	13.8	98	-0.04
45 C	2,2,4-trimethylpentane	2.021	1.886	6.7	100	-0.04
46	heptane	0.972	0.804	17.3	88	-0.04
47 C	cis-1,3-dichloropropene	0.531	0.488	8.1	94	-0.04
48 C	4-methyl-2-pentanone	1.041	0.906	13.0	88	-0.04
49	trans-1,3-dichloropropene	0.489	0.373	23.7	77	-0.04
50 C	1,1,2-trichloroethane	0.429	0.368	14.2	95	-0.03
51 I	chlorobenzene-D5	1.000	1.000	0.0	90	-0.03
52 C	toluene	6.484	6.337	2.3	91	-0.03
54	2-hexanone	4.640	4.574	1.4	79	-0.04
55	dibromochloromethane	2.405	2.950	-22.7	105	-0.03
56 C	1,2-dibromoethane	3.042	3.140	-3.2	97	-0.03
57 C	tetrachloroethene	2.234	2.329	-4.3	97	-0.03
58	1,1,1,2-tetrachloroethane	1.935	1.949	-0.7	90	-0.03
59 C	chlorobenzene	4.868	5.081	-4.4	98	-0.03
60 C	ethylbenzene	7.788	7.970	-2.3	89	-0.02
61 C	m+p-xylene	6.430	6.602	-2.7	90	-0.03
62 C	bromofom	1.912	2.385	-24.7	107	-0.03
63 C	styrene	4.895	5.238	-7.0	91	-0.03
64 C	1,1,2,2-tetrachloroethane	4.554	4.972	-9.2	95	-0.02
65 C	o-xylene	6.514	6.742	-3.5	88	-0.02
66	1,2,3-Trichloropropane	3.737	3.521	5.8	86	-0.03
68 C	isopropylbenzene	8.022	8.342	-4.0	89	-0.02
69	Bromobenzene	4.666	4.433	5.0	85	-0.02
70	4-ethyl toluene	8.577	9.655	-12.6	92	-0.02
71	1,3,5-trimethylbenzene	7.438	8.016	-7.8	88	-0.02
72	tert-butylbenzene	7.638	7.348	3.8	84	-0.03
73	1,2,4-trimethylbenzene	7.209	8.025	-11.3	89	-0.03
74 C	Benzyl Chloride	4.211	4.839	-14.9	90	-0.02
75	1,3-dichlorobenzene	4.702	4.951	-5.3	89	-0.03
76 C	1,4-dichlorobenzene	4.649	4.837	-4.0	88	-0.02
77	sec-butylbenzene	10.225	10.710	-4.7	83	-0.02
78	p-isopropyltoluene	8.557	8.309	2.9	77	-0.02
79	1,2-dichlorobenzene	4.428	4.732	-6.9	89	-0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157387_Ev2.D
 Acq On : 1 May 2018 10:36 AM
 Operator : AIRLAB15:MB
 Sample : WG1111464-2,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 01 11:26:34 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 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)
80	n-butylbenzene	8.085	8.280	-2.4	78	-0.02
81 C	1,2,4-trichlorobenzene	3.160	2.981	5.7	67	-0.02
82	naphthalene	9.523	8.739	8.2	69	-0.02
83	1,2,3-trichlorobenzene	3.063	2.958	3.4	70	-0.02
84 C	hexachlorobutadiene	2.734	3.091	-13.1	82	-0.02

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157387_Ev2.D
 Acq On : 1 May 2018 10:36 AM
 Operator : AIRLAB15:MB
 Sample : WG1111464-2,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 01 11:26:34 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180501SIM\r157387_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.617	49	133881	10.000	ppbV	#-0.04
Standard Area = 133881			Recovery =	100.00%		
33) 1,4-difluorobenzene	11.887	114	300815	10.000	ppbV	-0.04
Standard Area = 300815			Recovery =	100.00%		
51) chlorobenzene-D5	16.550	54	52930	10.000	ppbV	-0.03
Standard Area = 52930			Recovery =	100.00%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) propylene	3.862	41	40563M6	4.078	ppbV	
3) dichlorodifluoromethane	3.946	85	73692	4.097	ppbV	99
4) chloromethane	4.132	50	44795	4.146	ppbV	96
5) Freon-114	4.264	85	99579	4.570	ppbV	95
6) vinyl chloride	4.402	62	43854	4.078	ppbV	97
7) 1,3-butadiene	4.570	54	41046	4.722	ppbV #	76
8) bromomethane	4.888	94	35910	4.103	ppbV	97
9) chloroethane	5.122	64	23053	4.204	ppbV	97
10) ethanol	5.290	31	154389	18.521	ppbV	90
11) vinyl bromide	5.563	106	35257	4.025	ppbV	96
12) acrolein	5.720	56	17062	3.382	ppbV #	100
13) acetone	5.873	43	243363	18.868	ppbV #	83
14) trichlorofluoromethane	6.093	101	61153	3.644	ppbV	98
15) isopropyl alcohol	6.203	45	150295	8.610	ppbV #	97
16) acrylonitrile	6.470	53	32747	3.983	ppbV	98
17) 1,1-dichloroethene	6.876	61	55719	3.860	ppbV	96
18) tertiary butyl alcohol	6.942	59	56214	3.457	ppbV #	1
19) methylene chloride	7.044	49	53355	3.984	ppbV	88
20) 3-chloropropene	7.188	41	60539	3.840	ppbV #	95
21) carbon disulfide	7.338	76	114861	4.134	ppbV #	92
22) Freon 113	7.386	101	70344	3.981	ppbV	91
23) trans-1,2-dichloroethene	8.192	61	62577	4.339	ppbV	97
24) 1,1-dichloroethane	8.425	63	76476	4.162	ppbV	99
25) MTBE	8.508	73	100498	4.157	ppbV	98
26) vinyl acetate	8.650	43	122226	4.862	ppbV	97
27) 2-butanone	8.908	43	103631	4.115	ppbV	99
28) cis-1,2-dichloroethene	9.425	61	57489	4.126	ppbV	93
29) Ethyl Acetate	9.733	61	15665	4.385	ppbV #	53
30) chloroform	9.783	83	76511M4	4.519	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157387_Ev2.D
 Acq On : 1 May 2018 10:36 AM
 Operator : AIRLAB15:MB
 Sample : WG1111464-2,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 01 11:26:34 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180501SIM\r157387_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Tetrahydrofuran	10.233	42	62953	3.958	ppbV	91
32) 1,2-dichloroethane	10.633	62	45053	3.674	ppbV	96
34) hexane	9.700	57	83078	4.488	ppbV	84
36) 1,1,1-trichloroethane	10.925	97	67002	4.511	ppbV	95
37) benzene	11.453	78	151532	4.384	ppbV	98
38) carbon tetrachloride	11.627	117	58286	4.214	ppbV	97
39) cyclohexane	11.773	56	90139	4.667	ppbV	91
40) Dibromomethane	12.367	93	42022	3.550	ppbV #	100
41) 1,2-dichloropropane	12.400	63	53339	3.846	ppbV	97
42) bromodichloromethane	12.633	83	83891	4.880	ppbV	100
43) 1,4-dioxane	12.687	88	33548	4.732	ppbV	97
44) trichloroethene	12.687	130	57478	4.316	ppbV	96
45) 2,2,4-trimethylpentane	12.733	57	283670	4.666	ppbV	92
46) heptane	13.053	43	120878	4.135	ppbV	91
47) cis-1,3-dichloropropene	13.692	75	73345	4.588	ppbV #	88
48) 4-methyl-2-pentanone	13.733	43	136328	4.353	ppbV	93
49) trans-1,3-dichloropropene	14.317	75	56177	3.817	ppbV	91
50) 1,1,2-trichloroethane	14.517	97	55376	4.292	ppbV	94
52) toluene	14.825	91	167699	4.886	ppbV	98
54) 2-hexanone	15.100	43	121045	4.928	ppbV	93
55) dibromochloromethane	15.267	129	78066	6.132	ppbV	99
56) 1,2-dibromoethane	15.517	107	83090	5.161	ppbV	99
57) tetrachloroethene	15.975	166	61631	5.212	ppbV	94
58) 1,1,1,2-tetrachloroethane	16.583	131	51576	5.035	ppbV	97
59) chlorobenzene	16.592	112	134477	5.219	ppbV	98
60) ethylbenzene	16.925	91	210926	5.117	ppbV	95
61) m+p-xylene	17.083	91	349440	10.267	ppbV	97
62) bromoform	17.150	173	63117	6.238	ppbV	98
63) styrene	17.383	104	138632	5.350	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.475	83	131590	5.460	ppbV	99
65) o-xylene	17.475	91	178416	5.175	ppbV	95
66) 1,2,3-Trichloropropane	17.583	75	93182	4.711	ppbV #	88
68) isopropylbenzene	17.967	105	220767	5.200	ppbV	97
69) Bromobenzene	18.033	77	117320	4.750	ppbV #	100
70) 4-ethyl toluene	18.492	105	255522	5.628	ppbV	99
71) 1,3,5-trimethylbenzene	18.550	105	212150	5.389	ppbV	98
72) tert-butylbenzene	18.883	119	194457	4.810	ppbV	99
73) 1,2,4-trimethylbenzene	18.883	105	212377	5.566	ppbV	95
74) Benzyl Chloride	19.000	91	128052	5.746	ppbV	98
75) 1,3-dichlorobenzene	19.017	146	131037	5.266	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157387_Ev2.D
 Acq On : 1 May 2018 10:36 AM
 Operator : AIRLAB15:MB
 Sample : WG1111464-2,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 01 11:26:34 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180501SIM\r157387_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

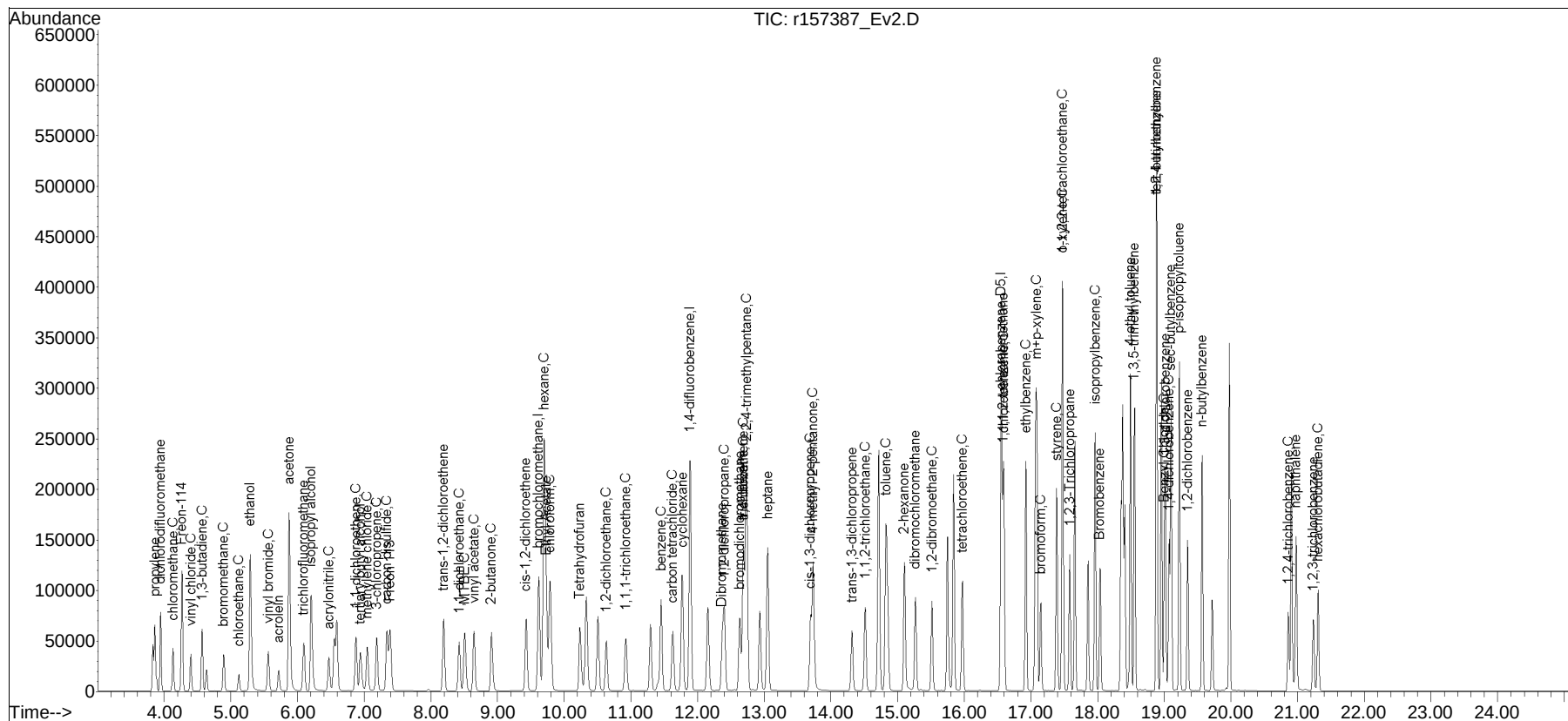
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-dichlorobenzene	19.075	146	128023M4	5.203	ppbV	
77) sec-butylbenzene	19.100	105	283437M4	5.237	ppbV	
78) p-isopropyltoluene	19.225	119	219896M4	4.855	ppbV	
79) 1,2-dichlorobenzene	19.350	146	125230	5.343	ppbV	97
80) n-butylbenzene	19.567	91	219126	5.120	ppbV	97
81) 1,2,4-trichlorobenzene	20.858	180	78886	4.716	ppbV	99
82) naphthalene	20.975	128	231290	4.589	ppbV	100
83) 1,2,3-trichlorobenzene	21.233	180	78277	4.828	ppbV	99
84) hexachlorobutadiene	21.308	225	81796	5.653	ppbV	98

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

Sub List : Default-LCS-AP2 - All compounds listedSIM\r157387_Ev2.D

Data Path : 0:\Forensics\Data\AirLab15\2018\180501SIM\
Data File : r157387_Ev2.D
Acq On : 1 May 2018 10:36 AM
Operator : AIRLAB15:MB
Sample : WG1111464-2,3,250,250
Misc : WG1111464,ICAL14605
ALS Vial : 0 Sample Multiplier: 1

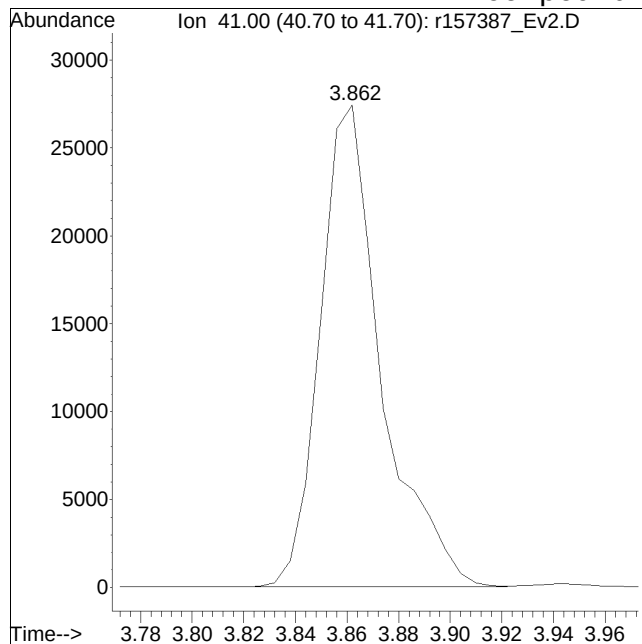
Quant Time: May 01 11:26:34 2018
Quant Method : 0:\Forensics\Data\AirLab15\2018\180501SIM\TSIM180404.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 05 10:02:48 2018
Response via : Initial Calibration



Manual Integration/Negative Proof Report

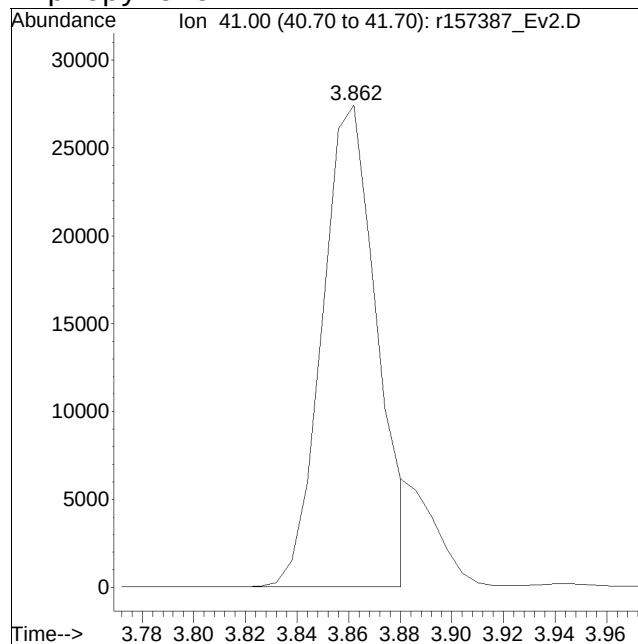
Data Path : 0:\Forensics\Data\AirLab15\QMethod : TSIM180404.M
Data File : r157387_Ev2.D Operator : AIRLAB15:MB
Date Inj'd : 5/1/2018 10:36 AM Instrument :
Sample : WG1111464-2,3,250,250 Quant Date : 5/1/2018 11:24 am

Compound #2: propylene



Original Peak Response = 45118

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

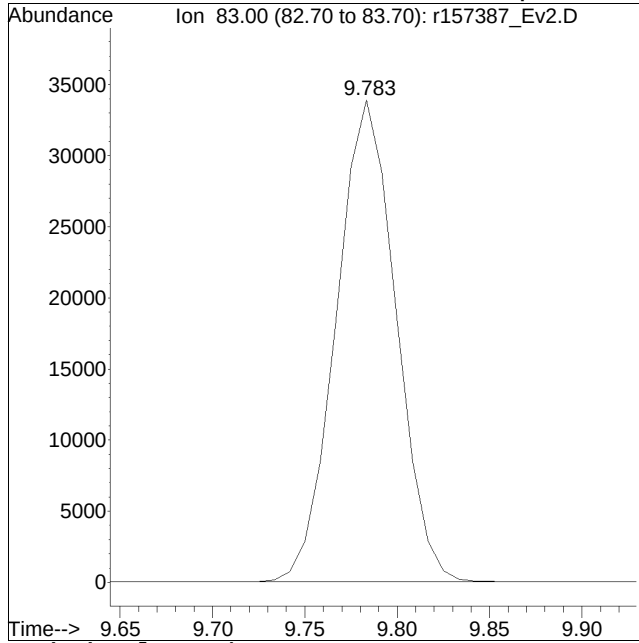


Manual Peak Response = 40563 M6

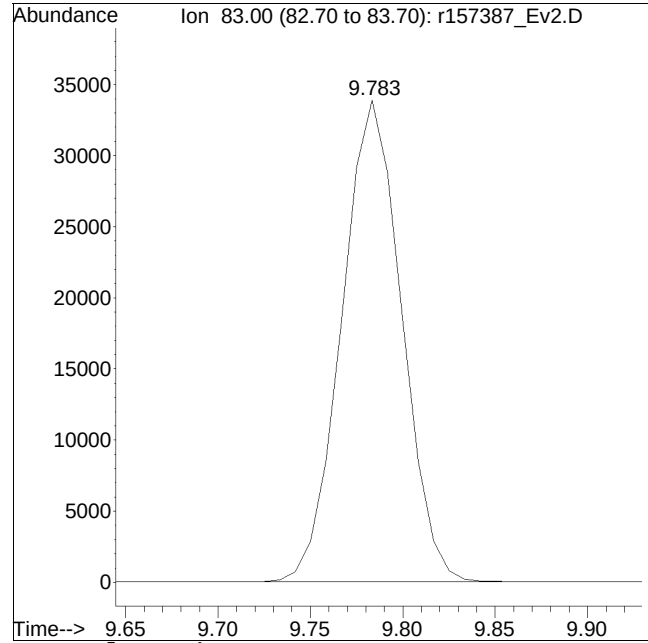
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r157387_Ev2.D Operator : AIRLAB15:MB
Date Inj'd : 5/1/2018 10:36 AM Instrument :
Sample : WG1111464-2,3,250,250 Quant Date : 5/1/2018 11:24 am

Compound #30: chloroform



Original Peak Response = 76392



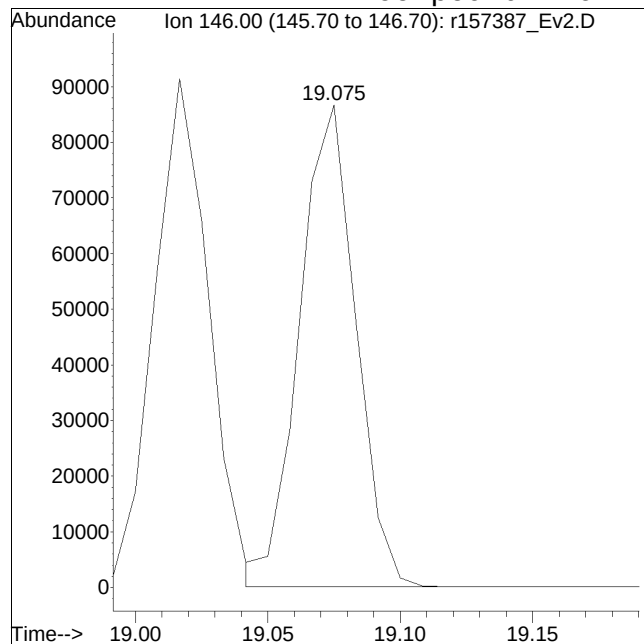
Manual Peak Response = 76511 M4

M4 = Poor automated baseline construction.

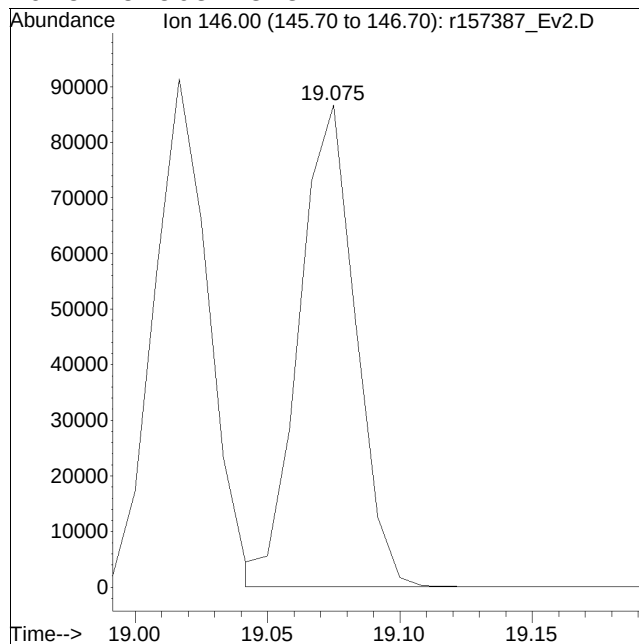
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r157387_Ev2.D Operator : AIRLAB15:MB
Date Inj'd : 5/1/2018 10:36 AM Instrument :
Sample : WG1111464-2,3,250,250 Quant Date : 5/1/2018 11:24 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 127478



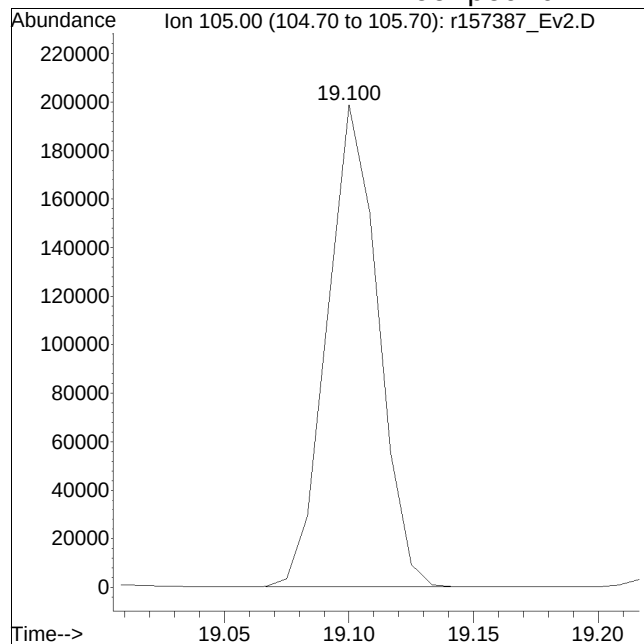
Manual Peak Response = 128023 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

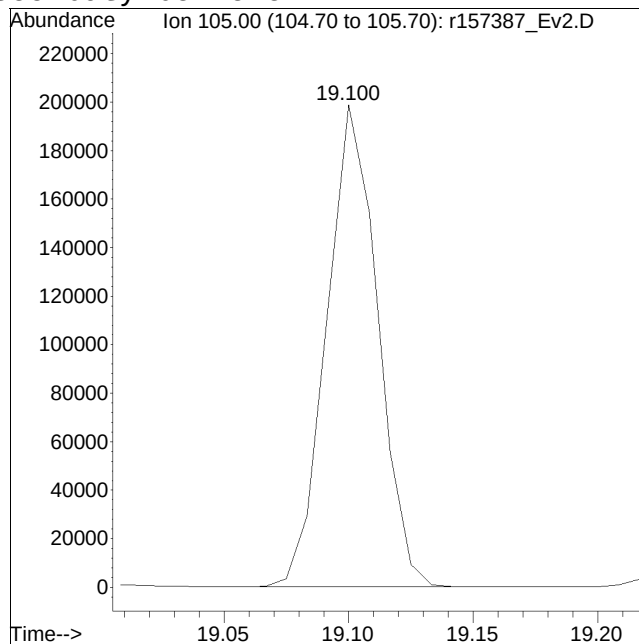
Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r157387_Ev2.D Operator : AIRLAB15:MB
Date Inj'd : 5/1/2018 10:36 AM Instrument :
Sample : WG1111464-2,3,250,250 Quant Date : 5/1/2018 11:24 am

Compound #77: sec-butylbenzene



Original Peak Response = 282603

M4 = Poor automated baseline construction.

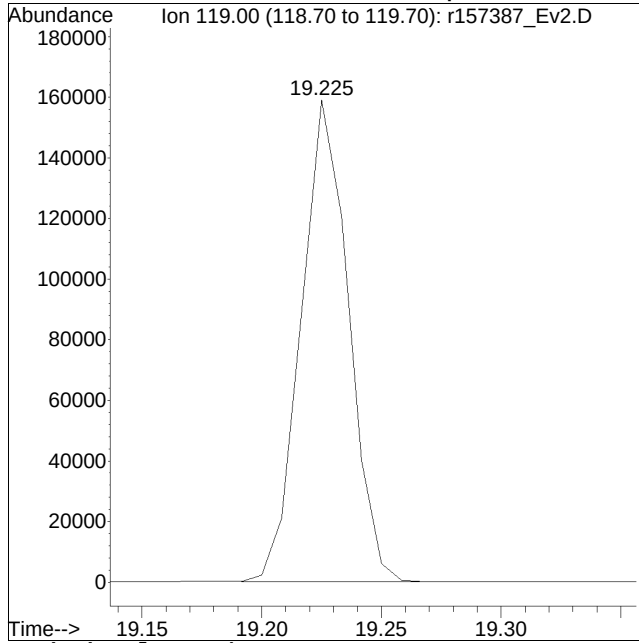


Manual Peak Response = 283437 M4

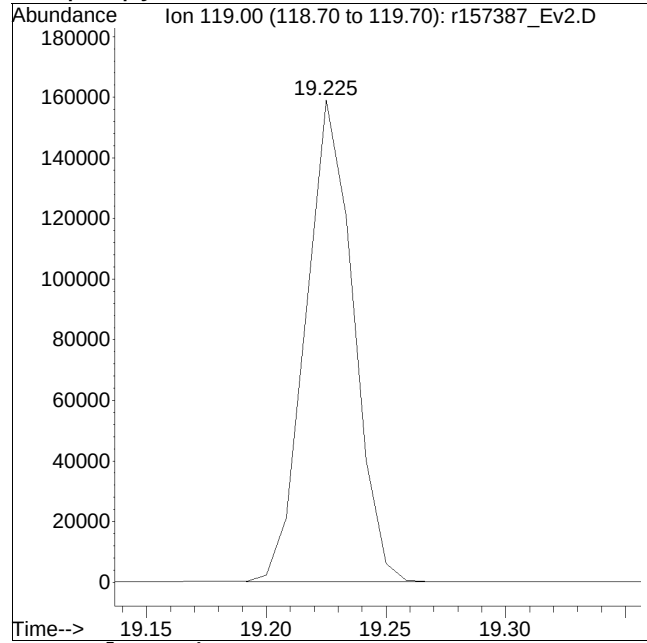
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab15\QMethod : TSIM180404.M
Data File : r157387_Ev2.D Operator : AIRLAB15:MB
Date Inj'd : 5/1/2018 10:36 AM Instrument :
Sample : WG1111464-2,3,250,250 Quant Date : 5/1/2018 11:24 am

Compound #78: p-isopropyltoluene



Original Peak Response = 219145



Manual Peak Response = 219896 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159114.D
 Acq On : 2 May 2018 1:48 pm
 Operator : AIRPIAN01:MB
 Sample : WG1111916-2,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:24:59 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 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	78	0.00
2	propylene	0.524	0.318	39.3#	52#	0.00
3	dichlorodifluoromethane	1.122	1.086	3.2	74	0.00
4 C	chloromethane	0.577	0.404	30.0	55#	0.00
5	Freon-114	1.434	1.397	2.6	75	-0.01
6 C	vinyl chloride	0.593	0.506	14.7	66	0.00
7 C	1,3-butadiene	0.405	0.365	9.9	70	0.00
8 C	bromomethane	0.499	0.510	-2.2	77	0.00
9 C	chloroethane	0.279	0.238	14.7	67	0.00
10	ethanol	0.461	0.349	24.3	64	0.00
11 C	vinyl bromide	0.449	0.483	-7.6	84	0.00
12 C	acrolein	0.251	0.185	26.3	62	0.00
13	acetone	0.755	0.788	-4.4	88	0.00
14	trichlorofluoromethane	1.261	1.406	-11.5	86	0.00
15	isopropyl alcohol	1.029	0.896	12.9	83	0.00
16 C	acrylonitrile	0.428	0.358	16.4	67	0.00
17 C	1,1-dichloroethene	0.969	0.949	2.1	76	0.00
18	tertiary butyl alcohol	1.130	0.984	12.9	70	0.00
19 C	methylene chloride	0.776	0.768	1.0	76	0.00
20 C	3-chloropropene	0.802	0.813	-1.4	80	0.00
21 C	carbon disulfide	1.570	1.525	2.9	75	0.00
22	Freon 113	0.986	1.036	-5.1	81	0.00
23	trans-1,2-dichloroethene	0.895	0.805	10.1	71	0.00
24 C	1,1-dichloroethane	1.119	1.014	9.4	71	0.00
25 C	MTBE	1.324	1.147	13.4	69	0.00
26 C	vinyl acetate	1.279	1.185	7.3	76	0.00
27 C	2-butanone	1.349	1.177	12.8	70	0.00
28	cis-1,2-dichloroethene	0.972	0.836	14.0	67	0.00
29	Ethyl Acetate	0.222	0.220	0.9	78	0.00
30 C	chloroform	1.370	1.399	-2.1	80	0.00
31	Tetrahydrofuran	0.746	0.607	18.6	64	0.00
32 C	1,2-dichloroethane	0.843	0.804	4.6	76	-0.01
33 I	1,4-difluorobenzene	1.000	1.000	0.0	79	0.00
34 C	hexane	0.787	0.648	17.7	68	0.00
36 C	1,1,1-trichloroethane	0.750	0.733	2.3	79	0.00
37 C	benzene	1.140	0.938	17.7	67	-0.01
38 C	carbon tetrachloride	0.713	0.734	-2.9	83	0.00
39	cyclohexane	0.637	0.514	19.3	65	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159114.D
 Acq On : 2 May 2018 1:48 pm
 Operator : AIRPIAN01:MB
 Sample : WG1111916-2,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:24:59 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 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)
40	dibromomethane	0.501	0.411	18.0	72	0.00
41 C	1,2-dichloropropane	0.513	0.437	14.8	68	0.00
42	bromodichloromethane	0.874	0.904	-3.4	82	0.00
43 C	1,4-dioxane	0.221	0.210	5.0	74	0.00
44 C	trichloroethene	0.410	0.396	3.4	76	0.00
45 C	2,2,4-trimethylpentane	2.060	1.883	8.6	74	0.00
46	heptane	0.869	0.694	20.1	65	0.00
47 C	cis-1,3-dichloropropene	2.500	2.184	12.6	67	0.00
48 C	4-methyl-2-pentanone	1.066	1.061	0.5	72	0.00
49	trans-1,3-dichloropropene	0.594	0.470	20.9	57#	0.00
50 C	1,1,2-trichloroethane	0.438	0.422	3.7	75	0.00
51 I	chlorobenzene-D5	1.000	1.000	0.0	75	0.00
52 C	toluene	4.464	4.226	5.3	69	0.00
54	2-hexanone	3.635	3.803	-4.6	70	0.00
55	dibromochloromethane	2.524	3.236	-28.2	90	0.00
56 C	1,2-dibromoethane	2.464	2.612	-6.0	74	0.00
57 C	tetrachloroethene	1.718	1.926	-12.1	81	0.00
58	1,1,1,2-tetrachloroethane	1.688	1.731	-2.5	73	0.00
59 C	chlorobenzene	3.337	3.366	-0.9	72	0.00
60 C	ethylbenzene	5.755	5.344	7.1	67	0.00
61 C	m+p-xylene	4.457	4.390	1.5	69	0.00
62 C	bromoforn	2.296	2.952	-28.6	92	0.00
63 C	styrene	2.982	2.972	0.3	67	0.00
64 C	1,1,2,2-tetrachloroethane	4.040	4.457	-10.3	77	0.00
65 C	o-xylene	4.681	4.834	-3.3	73	0.00
66	1,2,3-trichloropropane	3.063	2.996	2.2	69	0.00
68 C	isopropylbenzene	5.408	5.485	-1.4	75	0.00
69	bromobenzene	3.471	3.227	7.0	67	0.00
70	4-ethyl toluene	5.556	6.375	-14.7	77	0.00
71	1,3,5-trimethylbenzene	4.819	5.047	-4.7	72	0.00
72	tert-butylbenzene	4.566	4.689	-2.7	69	0.00
73	1,2,4-trimethylbenzene	4.712	5.226	-10.9	73	0.00
74 C	Benzyl Chloride	4.360	4.793	-9.9	76	0.00
75	1,3-dichlorobenzene	3.123	3.755	-20.2	80	0.00
76 C	1,4-dichlorobenzene	3.214	3.938	-22.5	83	0.00
77	sec-butylbenzene	6.748	7.157	-6.1	71	0.00
78	p-isopropyltoluene	5.392	4.956	8.1	62	0.00
79	1,2-dichlorobenzene	2.960	3.704	-25.1	85	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159114.D
 Acq On : 2 May 2018 1:48 pm
 Operator : AIRPIAN01:MB
 Sample : WG1111916-2,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:24:59 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 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)
80	n-butylbenzene	5.865	6.437	-9.8	70	0.00
81 C	1,2,4-trichlorobenzene	2.156	3.340	-54.9#	89	0.00
82	naphthalene	5.580	6.559	-17.5	70	0.01
83	1,2,3-trichlorobenzene	1.986	2.918	-46.9#	81	0.00
84 C	hexachlorobutadiene	1.861	2.961	-59.1#	96	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 2

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159114.D
 Acq On : 2 May 2018 1:48 pm
 Operator : AIRPIAN01:MB
 Sample : WG1111916-2,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:24:59 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	171514	10.000	ppbV	0.00
Standard Area = 171514			Recovery	=	100.00%	
33) 1,4-difluorobenzene	12.401	114	248964	10.000	ppbV	0.00
Standard Area = 248964			Recovery	=	100.00%	
51) chlorobenzene-D5	16.822	54	64233	10.000	ppbV	0.00
Standard Area = 64233			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) propylene	4.051	41	27254M6	3.033	ppbV	
3) dichlorodifluoromethane	4.152	85	93163	4.840	ppbV	98
4) chloromethane	4.364	50	34630	3.496	ppbV	96
5) Freon-114	4.509	85	119769	4.869	ppbV	98
6) vinyl chloride	4.677	62	43364	4.267	ppbV	98
7) 1,3-butadiene	4.867	54	31320	4.510	ppbV	88
8) bromomethane	5.245	94	43711	5.108	ppbV	99
9) chloroethane	5.496	64	20431	4.269	ppbV	90
10) ethanol	5.691	31	149701M4	18.942	ppbV	
11) vinyl bromide	5.989	106	41450	5.385	ppbV	99
12) acrolein	6.166	56	15831	3.677	ppbV	97
13) acetone	6.343	43	337861	26.106	ppbV	99
14) trichlorofluoromethane	6.557	101	120554	5.575	ppbV	99
15) isopropyl alcohol	6.697	45	192162	10.889	ppbV	99
16) acrylonitrile	6.976	53	30685M6	4.175	ppbV	
17) 1,1-dichloroethene	7.395	61	81369	4.895	ppbV	96
18) tertiary butyl alcohol	7.488	59	84354	4.352	ppbV #	91
19) methylene chloride	7.572	49	65820	4.945	ppbV	92
20) 3-chloropropene	7.721	41	69749	5.070	ppbV	92
21) carbon disulfide	7.897	76	130755	4.854	ppbV	100
22) Freon 113	7.916	101	88828	5.250	ppbV	98
23) trans-1,2-dichloroethene	8.745	61	69037	4.495	ppbV	94
24) 1,1-dichloroethane	8.991	63	86920	4.529	ppbV	100
25) MTBE	9.081	73	98391	4.332	ppbV	98
26) vinyl acetate	9.195	43	101595	4.633	ppbV	100
27) 2-butanone	9.489	43	100943	4.362	ppbV	99
28) cis-1,2-dichloroethene	9.988	61	71656	4.299	ppbV	94
29) Ethyl Acetate	10.277	61	18862	4.951	ppbV	91
30) chloroform	10.341	83	119988	5.105	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159114.D
 Acq On : 2 May 2018 1:48 pm
 Operator : AIRPIAN01:MB
 Sample : WG1111916-2,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:24:59 2018
 Quant Method : O:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Tetrahydrofuran	10.811	42	52057M6	4.070	ppbV	
32) 1,2-dichloroethane	11.177	62	68962	4.769	ppbV	96
34) hexane	10.234	57	80683	4.118	ppbV	98
36) 1,1,1-trichloroethane	11.466	97	91277	4.891	ppbV	97
37) benzene	11.982	78	116736	4.112	ppbV	95
38) carbon tetrachloride	12.157	117	91383	5.148	ppbV	98
39) cyclohexane	12.297	56	64021	4.035	ppbV	94
40) dibromomethane	12.890	93	51202	4.106	ppbV	89
41) 1,2-dichloropropane	12.914	63	54437	4.261	ppbV	98
42) bromodichloromethane	13.146	83	112565	5.171	ppbV	98
43) 1,4-dioxane	13.193	88	26139	4.757	ppbV	95
44) trichloroethene	13.193	130	49241	4.819	ppbV	97
45) 2,2,4-trimethylpentane	13.216	57	234380	4.570	ppbV	97
46) heptane	13.507	43	86440	3.996	ppbV	100
47) cis-1,3-dichloropropene	14.170	75	271845	4.367	ppbV	100
48) 4-methyl-2-pentanone	14.187	43	132115	4.979	ppbV	97
49) trans-1,3-dichloropropene	14.756	75	58547	3.956	ppbV	99
50) 1,1,2-trichloroethane	14.942	97	52553	4.814	ppbV	98
52) toluene	15.221	91	135731	4.734	ppbV	100
54) 2-hexanone	15.468	43	122148	5.231	ppbV #	92
55) dibromochloromethane	15.644	129	103940	6.411	ppbV	99
56) 1,2-dibromoethane	15.871	107	83889	5.301	ppbV	100
57) tetrachloroethene	16.283	166	61844	5.603	ppbV	96
58) 1,1,1,2-tetrachloroethane	16.842	131	55590	5.127	ppbV	99
59) chlorobenzene	16.857	112	108107	5.043	ppbV	95
60) ethylbenzene	17.156	91	171638	4.643	ppbV	99
61) m+p-xylene	17.300	91	282003	9.851	ppbV	98
62) bromoform	17.375	173	94795	6.427	ppbV	100
63) styrene	17.579	104	95453	4.983	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.658	83	143148	5.516	ppbV	100
65) o-xylene	17.663	91	155261	5.163	ppbV	97
66) 1,2,3-trichloropropane	17.763	75	96208	4.891	ppbV	99
68) isopropylbenzene	18.101	105	176167	5.072	ppbV	99
69) bromobenzene	18.186	77	103651	4.650	ppbV	90
70) 4-ethyl toluene	18.589	105	204742	5.737	ppbV	99
71) 1,3,5-trimethylbenzene	18.639	105	162088	5.236	ppbV	99
72) tert-butylbenzene	18.951	119	150596	5.134	ppbV	98
73) 1,2,4-trimethylbenzene	18.951	105	167838	5.546	ppbV	98
74) Benzyl Chloride	19.066	91	153920	5.496	ppbV	95
75) 1,3-dichlorobenzene	19.084	146	120599	6.011	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159114.D
 Acq On : 2 May 2018 1:48 pm
 Operator : AIRPIAN01:MB
 Sample : WG1111916-2,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:24:59 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : Default-LCS-AP2 - All compounds listed

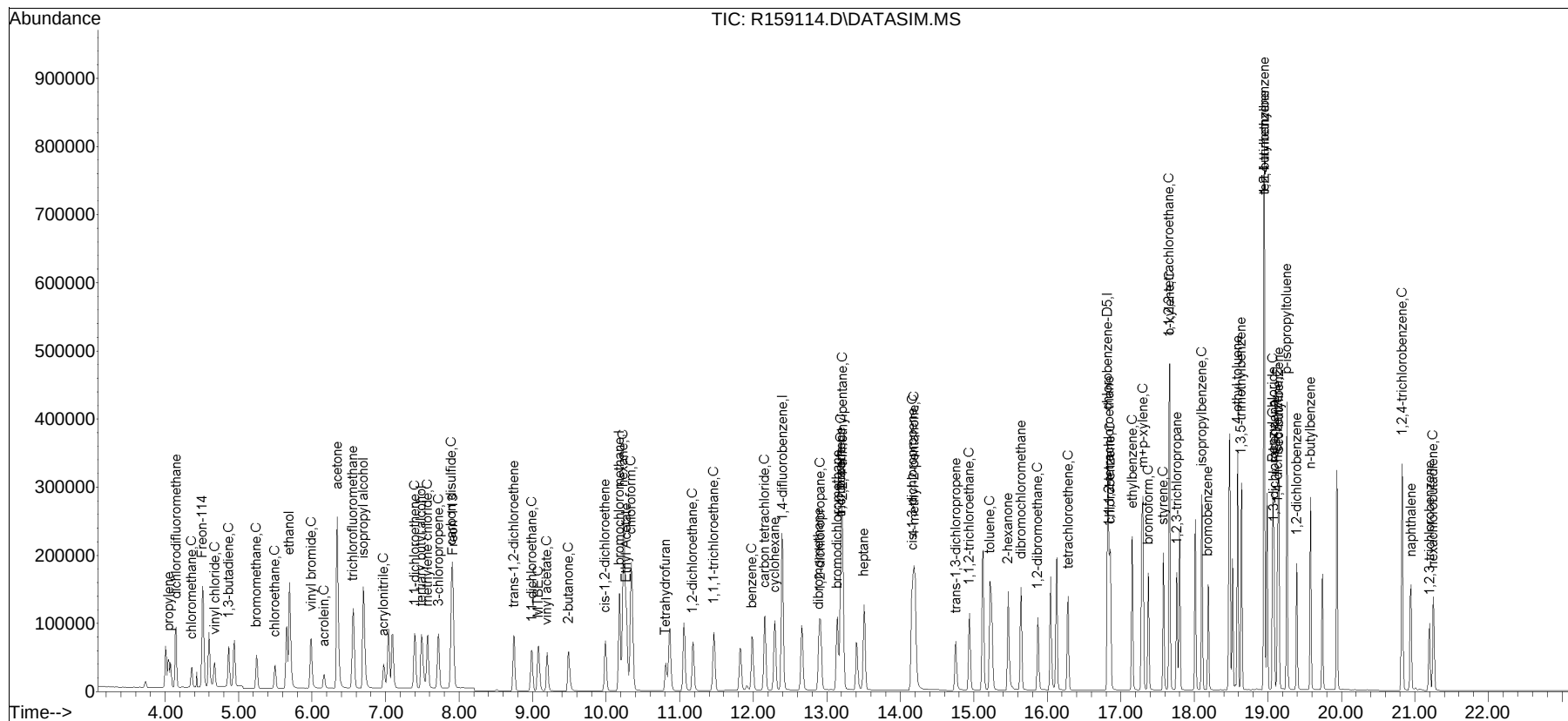
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-dichlorobenzene	19.132	146	126467	6.126	ppbV	94
77) sec-butylbenzene	19.150	105	229865	5.303	ppbV	94
78) p-isopropyltoluene	19.259	119	159175	4.596	ppbV	100
79) 1,2-dichlorobenzene	19.392	146	118955	6.256	ppbV	94
80) n-butylbenzene	19.579	91	206733	5.488	ppbV	98
81) 1,2,4-trichlorobenzene	20.828	180	107277	7.746	ppbV	98
82) naphthalene	20.948	128	210651	5.878	ppbV #	93
83) 1,2,3-trichlorobenzene	21.200	180	93710	7.344	ppbV	99
84) hexachlorobutadiene	21.248	225	95104	7.956	ppbV	97

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

Sub List : Default-LCS-AP2 - All compounds listedR159114.D

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
Data File : R159114.D
Acq On : 2 May 2018 1:48 pm
Operator : AIRPIAN01:MB
Sample : WG1111916-2,3,250,250
Misc : WG1111916,ICAL14483
ALS Vial : 3 Sample Multiplier: 1

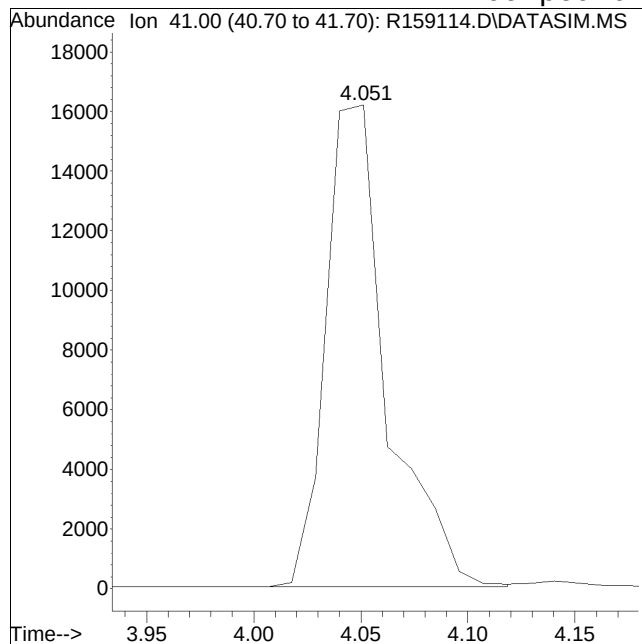
Quant Time: May 02 14:24:59 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



Manual Integration/Negative Proof Report

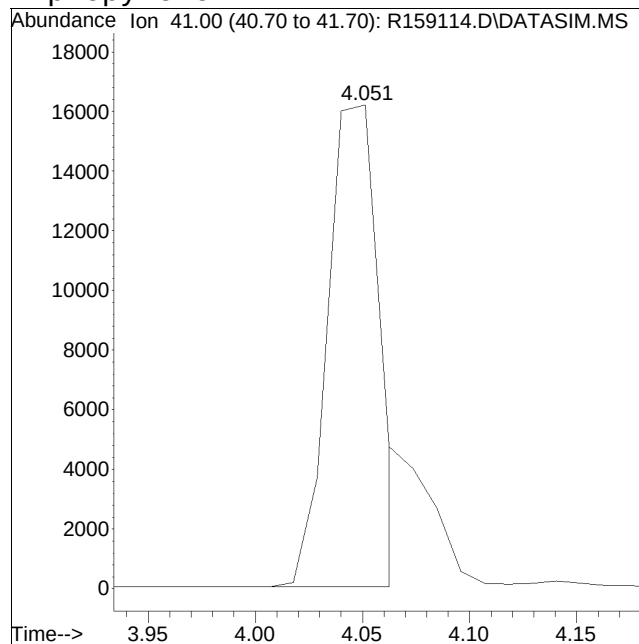
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159114.D Operator : AIRPIAN01:MB
Date Inj'd : 5/2/2018 1:48 pm Instrument : Air Piano 1
Sample : WG1111916-2,3,250,250 Quant Date : 5/2/2018 2:24 pm

Compound #2: propylene



Original Peak Response = 32162

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

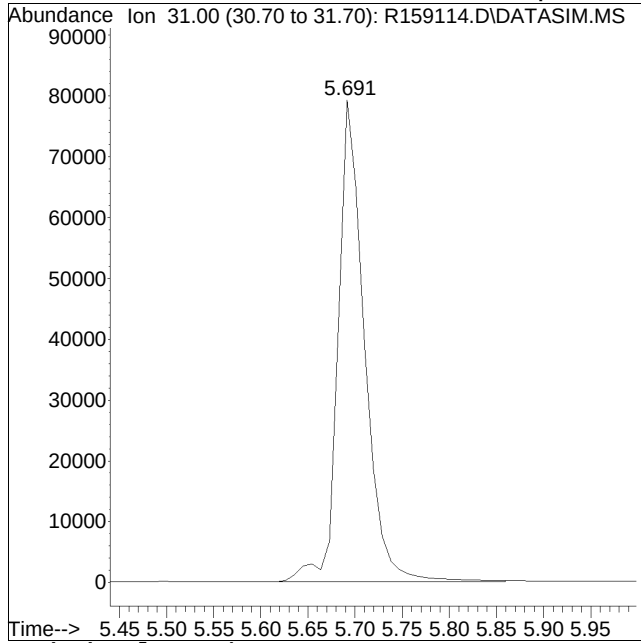


Manual Peak Response = 27254 M6

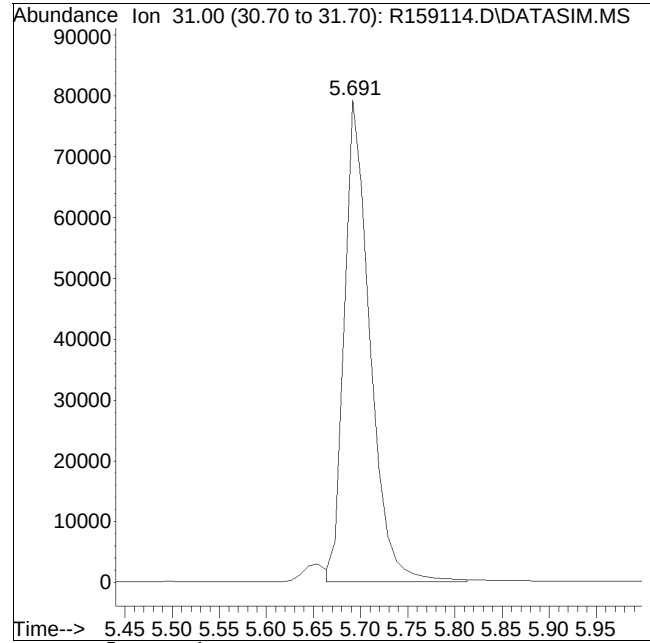
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159114.D Operator : AIRPIAN01:MB
Date Inj'd : 5/2/2018 1:48 pm Instrument : Air Piano 1
Sample : WG1111916-2,3,250,250 Quant Date : 5/2/2018 2:24 pm

Compound #10: ethanol



Original Peak Response = 155584



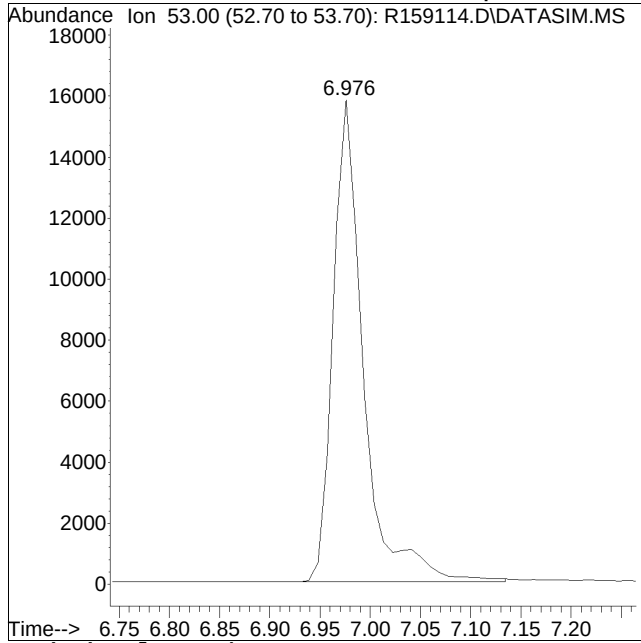
Manual Peak Response = 149701 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

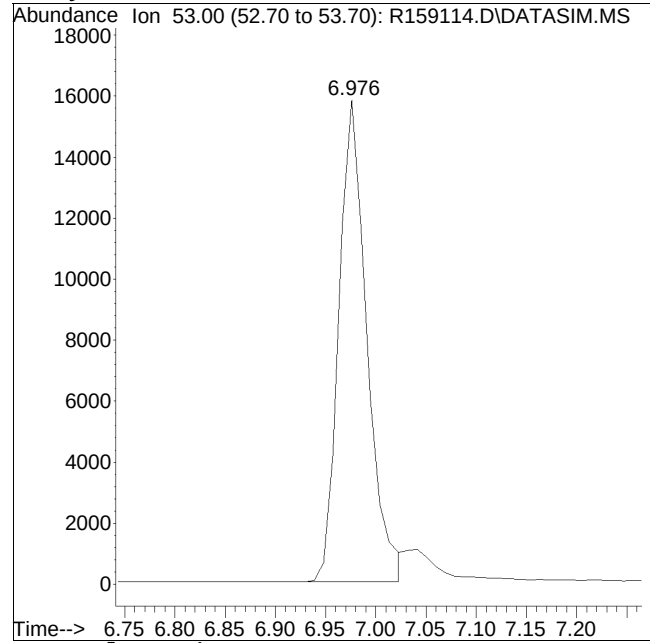
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159114.D Operator : AIRPIAN01:MB
Date Inj'd : 5/2/2018 1:48 pm Instrument : Air Piano 1
Sample : WG1111916-2,3,250,250 Quant Date : 5/2/2018 2:24 pm

Compound #16: acrylonitrile



Original Peak Response = 33304

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

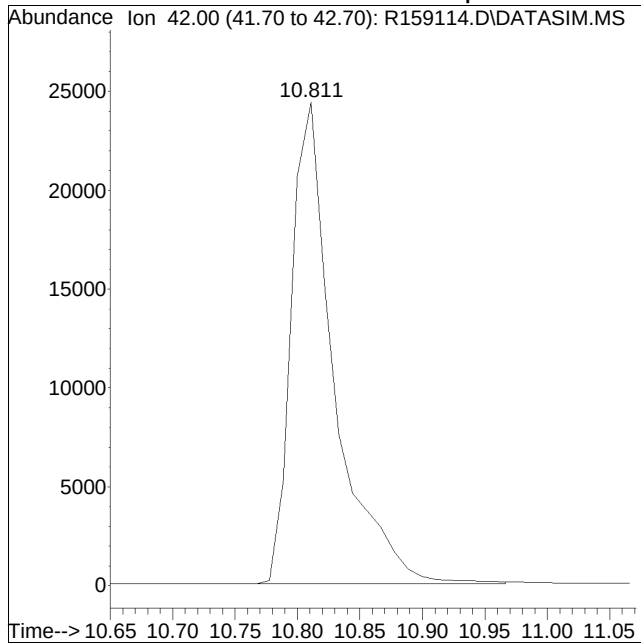


Manual Peak Response = 30685 M6

Manual Integration/Negative Proof Report

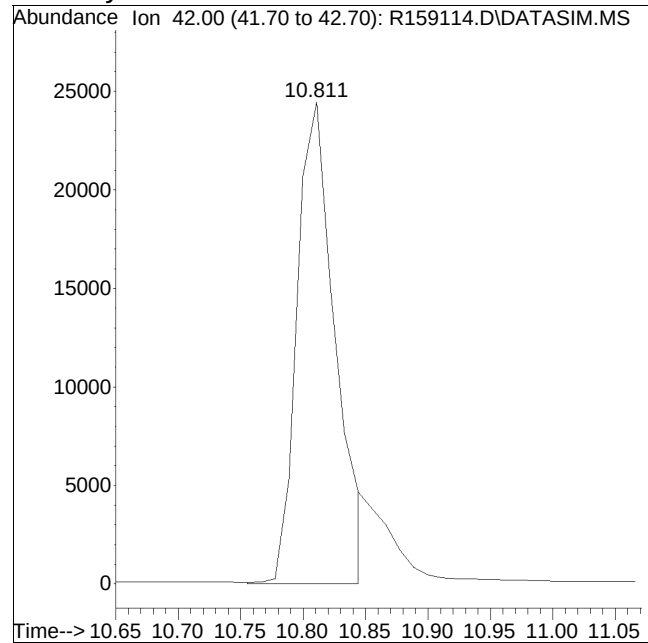
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159114.D Operator : AIRPIAN01:MB
Date Inj'd : 5/2/2018 1:48 pm Instrument : Air Piano 1
Sample : WG1111916-2,3,250,250 Quant Date : 5/2/2018 2:24 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 58503

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



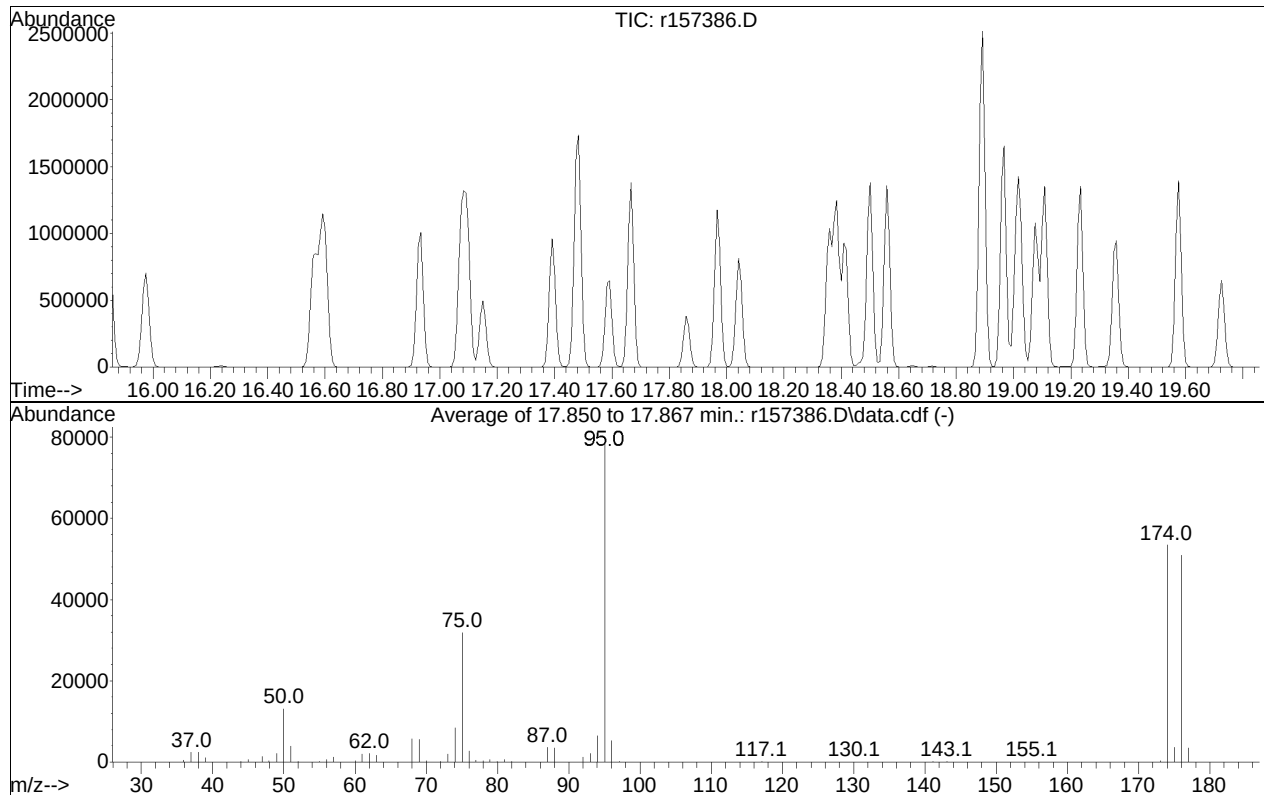
Manual Peak Response = 52057 M6

BFB

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
Data File : r157386.D
Acq On : 1 May 2018 10:00 AM
Operator : AIRLAB15:MB
Sample : WG1111464-1,3,250,250
Misc : WG1111464,ICAL14605
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Thu Apr 05 10:02:48 2018



Spectrum Information: Average of 17.850 to 17.867 min.

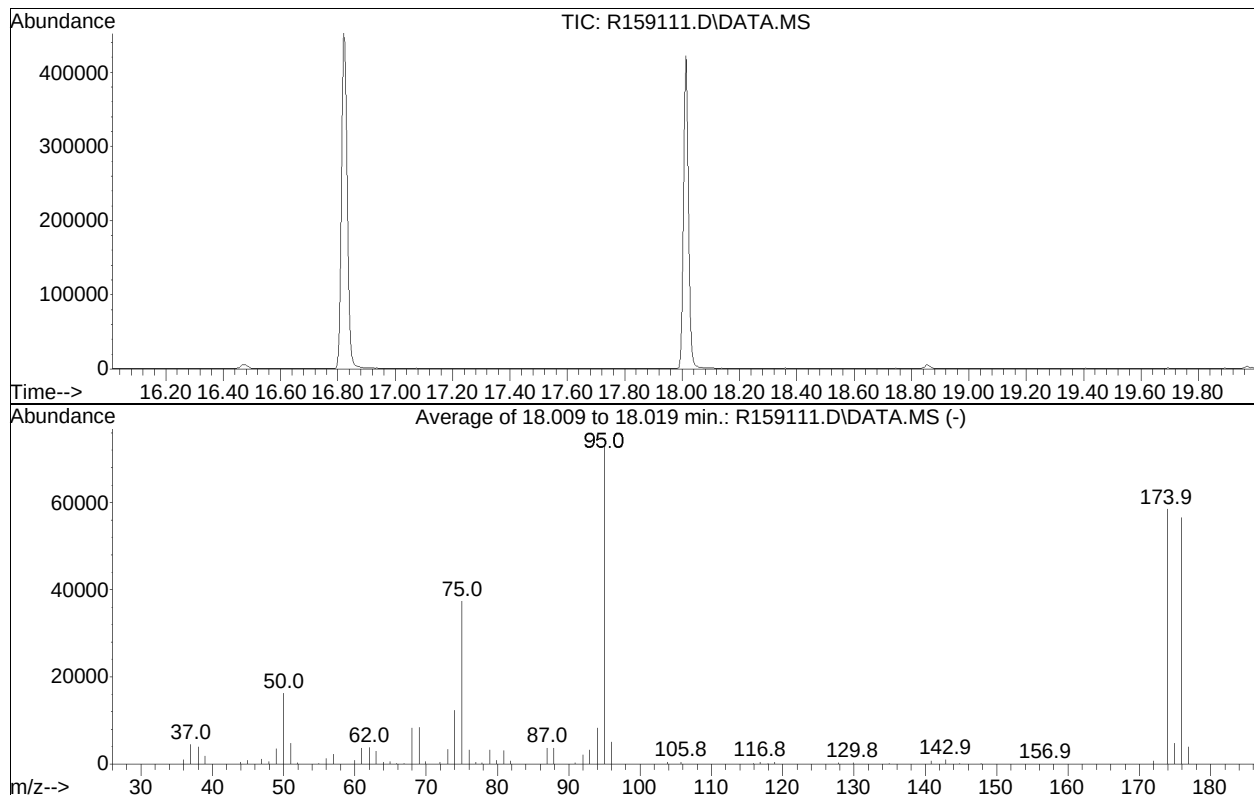
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	13093	PASS
75	95	30	66	40.6	31952	PASS
95	95	100	100	100.0	78647	PASS
96	95	5	9	6.7	5272	PASS
173	174	0.00	2	0.6	331	PASS
174	95	50	120	68.0	53449	PASS
175	174	4	9	6.8	3656	PASS
176	174	93	101	95.3	50917	PASS
177	176	5	9	6.7	3422	PASS

BFB

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
Data File : R159111.D
Acq On : 2 May 2018 12:10 pm
Operator : AIRPIAN01:MB
Sample : WG1111916-1,3,250,250
Misc : WG1111916,ICAL14483
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Tue Feb 27 08:55:14 2018



AutoFind: Scans 1575, 1576, 1577; Background Corrected with Scan 1568

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.1	16192	PASS
75	95	30	66	51.0	37368	PASS
95	95	100	100	100.0	73291	PASS
96	95	5	9	7.0	5111	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	79.9	58557	PASS
175	174	4	9	8.0	4707	PASS
176	174	93	101	96.5	56491	PASS
177	176	5	9	6.9	3914	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157390_Ev2.D
 Acq On : 1 May 2018 12:53 PM
 Operator : AIRLAB15:MB
 Sample : WG1111464-4,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 01 13:31:09 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180501SIM\r157387_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.625	49	129365	10.000	ppbV	#-0.03
Standard Area = 133881			Recovery =		96.63%	
33) 1,4-difluorobenzene	11.893	114	288501	10.000	ppbV	-0.03
Standard Area = 300815			Recovery =		95.91%	
51) chlorobenzene-D5	16.550	54	51550	10.000	ppbV	-0.03
Standard Area = 52930			Recovery =		97.39%	

System Monitoring Compounds

Target Compounds				Qvalue
6) vinyl chloride	0.000	0	N.D.	
17) 1,1-dichloroethene	0.000	0	N.D.	
23) trans-1,2-dichloroethene	0.000	0	N.D.	
28) cis-1,2-dichloroethene	0.000	0	N.D.	
44) trichloroethene	12.833	0	N.D.	
57) tetrachloroethene	0.000	0	N.D.	

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

Sub List : Default-LCS-AP2 - All compounds listedSIM\r157387_Ev2.D

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\

Data File : r157390_Ev2.D

Acq On : 1 May 2018 12:53 PM

Operator : AIRLAB15:MB

Sample : WG1111464-4,3,250,250

Misc : WG1111464,ICAL14605

ALS Vial : 0 Sample Multiplier: 1

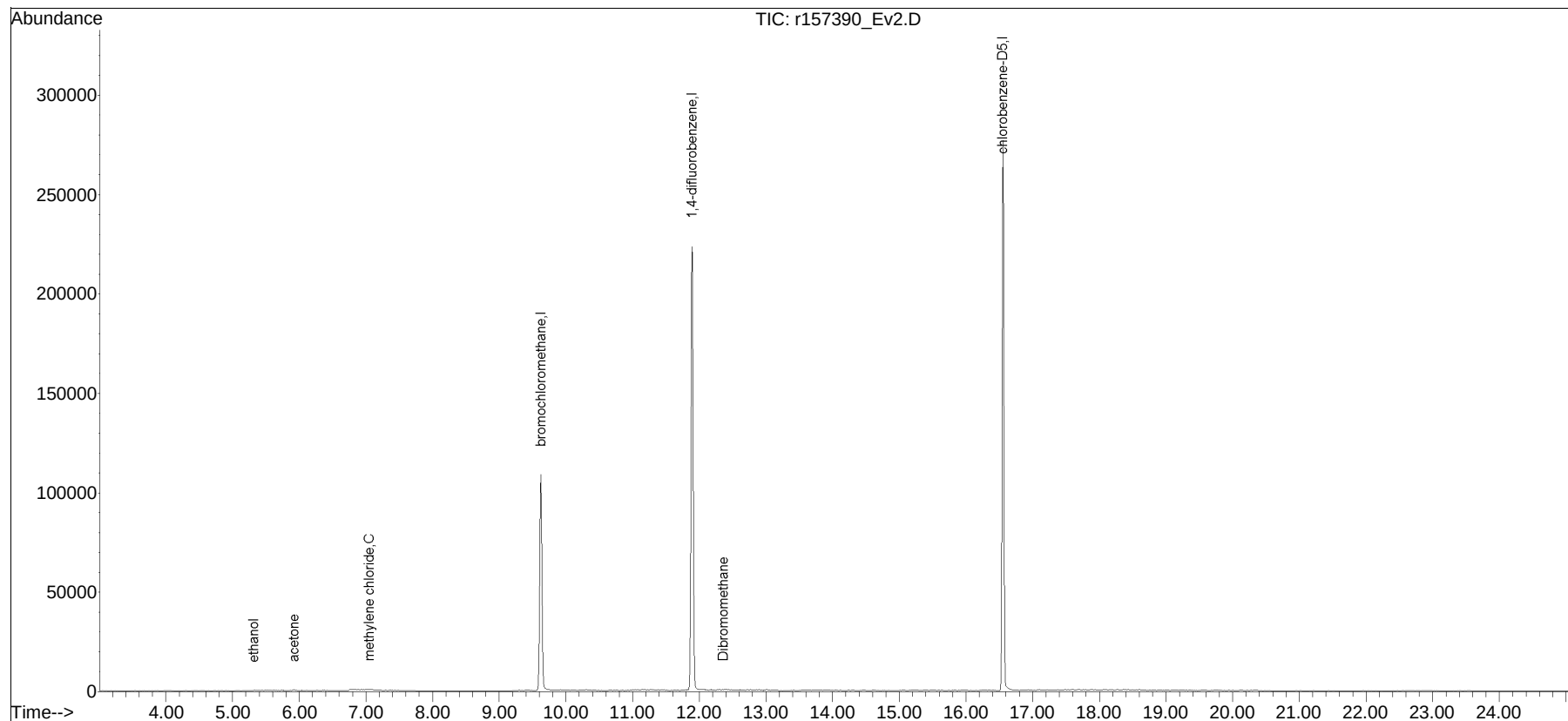
Quant Time: May 01 13:31:09 2018

Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Thu Apr 05 10:02:48 2018

Response via : Initial Calibration



TSIM180404.M Wed May 02 14:00:36 2018

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Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159115.D
 Acq On : 2 May 2018 3:08 pm
 Operator : AIRPIAN01:MB
 Sample : WG1111916-4,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 15:36:16 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	162332	10.000	ppbV	0.00
Standard Area = 171514			Recovery =		94.65%	
33) 1,4-difluorobenzene	12.401	114	221901	10.000	ppbV	0.00
Standard Area = 248964			Recovery =		89.13%	
51) chlorobenzene-D5	16.823	54	57267	10.000	ppbV	0.00
Standard Area = 64233			Recovery =		89.16%	

System Monitoring Compounds

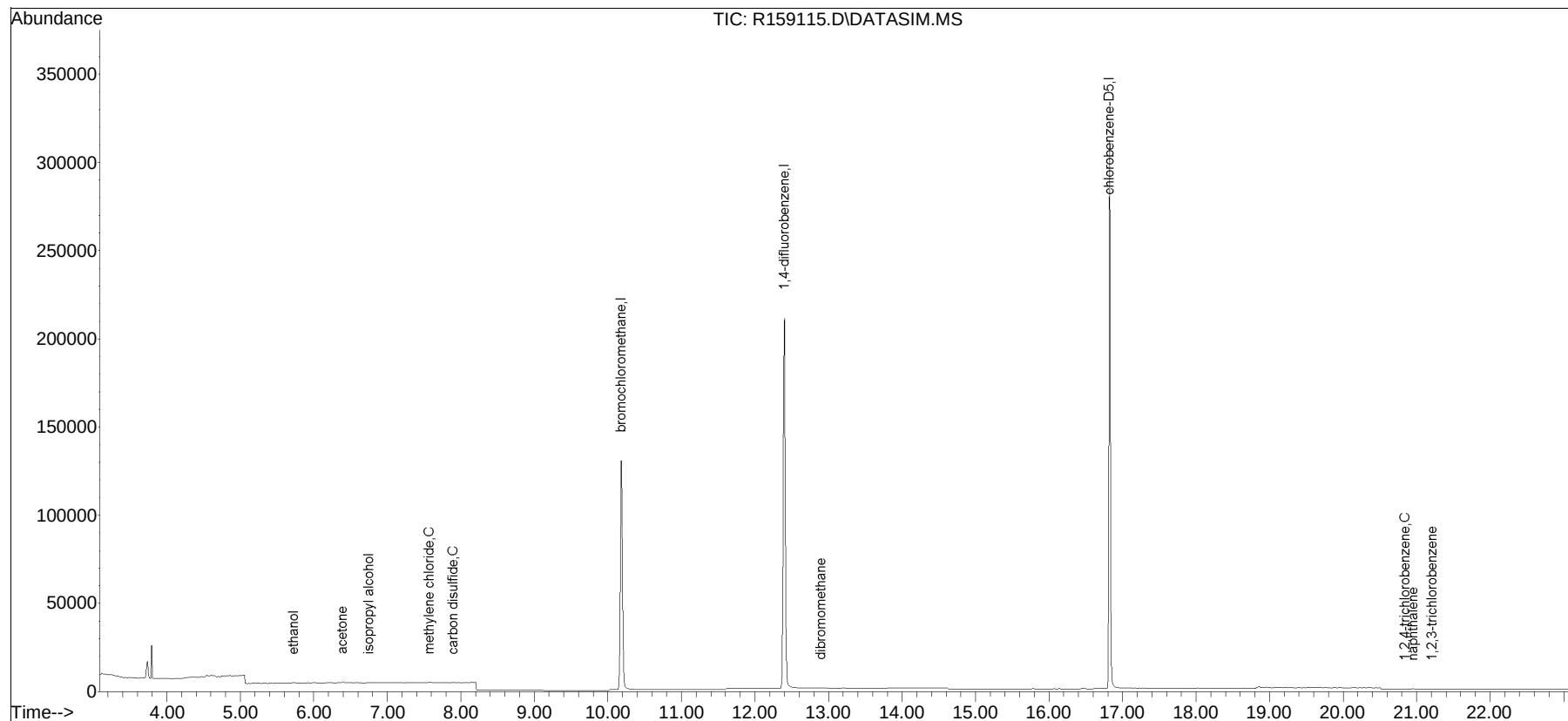
Target Compounds			Qvalue
6) vinyl chloride	4.655	0	N.D.
17) 1,1-dichloroethene	7.395	0	N.D.
23) trans-1,2-dichloroethene	8.737	0	N.D.
28) cis-1,2-dichloroethene	9.988	0	N.D.
44) trichloroethene	13.205	0	N.D.
57) tetrachloroethene	16.283	0	N.D.

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

Sub List : Default-LCS-AP2 - All compounds listedR159114.D

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
Data File : R159115.D
Acq On : 2 May 2018 3:08 pm
Operator : AIRPIAN01:MB
Sample : WG1111916-4,3,250,250
Misc : WG1111916,ICAL14483
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 15:36:16 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



TSIM180226.M Thu May 03 08:19:59 2018

Page 2

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157387_Ev2.D
 Acq On : 1 May 2018 10:36 AM
 Operator : AIRLAB15:MB
 Sample : WG1111464-3,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 01 11:26:34 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 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	100	-0.04
2	propylene	5.000	4.078	18.4	84	-0.03
3	dichlorodifluoromethane	5.000	4.097	18.1	86	-0.04
4 C	chloromethane	5.000	4.146	17.1	89	-0.04
5	Freon-114	5.000	4.570	8.6	97	-0.04
6 C	vinyl chloride	5.000	4.078	18.4	87	-0.04
7 C	1,3-butadiene	5.000	4.722	5.6	102	-0.04
8 C	bromomethane	5.000	4.103	17.9	86	-0.05
9 C	chloroethane	5.000	4.204	15.9	127	-0.04
10	ethanol	25.000	18.521	25.9	75	-0.04
11 C	vinyl bromide	5.000	4.025	19.5	87	-0.05
12	acrolein	5.000	3.382	32.4#	80	-0.04
13	acetone	25.000	18.868	24.5	80	-0.05
14	trichlorofluoromethane	5.000	3.644	27.1	74	-0.05
15	isopropyl alcohol	12.500	8.610	31.1#	79	-0.05
16 C	acrylonitrile	5.000	3.983	20.3	82	-0.04
17 C	1,1-dichloroethene	5.000	3.860	22.8	79	-0.05
18	tertiary butyl alcohol	5.000	3.457	30.9#	74	-0.04
19 C	methylene chloride	5.000	3.984	20.3	80	-0.05
20 C	3-chloropropene	5.000	3.840	23.2	66	-0.04
21 C	carbon disulfide	5.000	4.134	17.3	84	-0.05
22	Freon 113	5.000	3.981	20.4	84	-0.05
23	trans-1,2-dichloroethene	5.000	4.339	13.2	88	-0.04
24 C	1,1-dichloroethane	5.000	4.162	16.8	86	-0.04
25 C	MTBE	5.000	4.157	16.9	83	-0.04
26 C	vinyl acetate	5.000	4.862	2.8	100	-0.03
27 C	2-butanone	5.000	4.115	17.7	87	-0.04
28	cis-1,2-dichloroethene	5.000	4.126	17.5	83	-0.04
29	Ethyl Acetate	5.000	4.385	12.3	89	-0.03
30 C	chloroform	5.000	4.519	9.6	92	-0.04
31	Tetrahydrofuran	5.000	3.958	20.8	78	-0.04
32 C	1,2-dichloroethane	5.000	3.674	26.5	75	-0.03
33 I	1,4-difluorobenzene	10.000	10.000	0.0	107	-0.04
34 C	hexane	5.000	4.488	10.2	95	-0.03
36 C	1,1,1-trichloroethane	5.000	4.511	9.8	97	-0.04
37 C	benzene	5.000	4.384	12.3	97	-0.04
38 C	carbon tetrachloride	5.000	4.214	15.7	91	-0.04
39	cyclohexane	5.000	4.667	6.7	99	-0.03

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157387_Ev2.D
 Acq On : 1 May 2018 10:36 AM
 Operator : AIRLAB15:MB
 Sample : WG1111464-3,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 01 11:26:34 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 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)
40	Dibromomethane	5.000	3.550	29.0	85	-0.05
41 C	1,2-dichloropropane	5.000	3.846	23.1	84	-0.04
42	bromodichloromethane	5.000	4.880	2.4	100	-0.04
43 C	1,4-dioxane	5.000	4.732	5.4	103	-0.05
44 C	trichloroethene	5.000	4.316	13.7	98	-0.04
45 C	2,2,4-trimethylpentane	5.000	4.666	6.7	100	-0.04
46	heptane	5.000	4.135	17.3	88	-0.04
47 C	cis-1,3-dichloropropene	5.000	4.588	8.2	94	-0.04
48 C	4-methyl-2-pentanone	5.000	4.353	12.9	88	-0.04
49	trans-1,3-dichloropropene	5.000	3.817	23.7	77	-0.04
50 C	1,1,2-trichloroethane	5.000	4.292	14.2	95	-0.03
51 I	chlorobenzene-D5	10.000	10.000	0.0	90	-0.03
52 C	toluene	5.000	4.886	2.3	91	-0.03
54	2-hexanone	5.000	4.928	1.4	79	-0.04
55	dibromochloromethane	5.000	6.132	-22.6	105	-0.03
56 C	1,2-dibromoethane	5.000	5.161	-3.2	97	-0.03
57 C	tetrachloroethene	5.000	5.212	-4.2	97	-0.03
58	1,1,1,2-tetrachloroethane	5.000	5.035	-0.7	90	-0.03
59 C	chlorobenzene	5.000	5.219	-4.4	98	-0.03
60 C	ethylbenzene	5.000	5.117	-2.3	89	-0.02
61 C	m+p-xylene	10.000	10.267	-2.7	90	-0.03
62 C	bromofom	5.000	6.238	-24.8	107	-0.03
63 C	styrene	5.000	5.350	-7.0	91	-0.03
64 C	1,1,2,2-tetrachloroethane	5.000	5.460	-9.2	95	-0.02
65 C	o-xylene	5.000	5.175	-3.5	88	-0.02
66	1,2,3-Trichloropropane	5.000	4.711	5.8	86	-0.03
68 C	isopropylbenzene	5.000	5.200	-4.0	89	-0.02
69	Bromobenzene	5.000	4.750	5.0	85	-0.02
70	4-ethyl toluene	5.000	5.628	-12.6	92	-0.02
71	1,3,5-trimethylbenzene	5.000	5.389	-7.8	88	-0.02
72	tert-butylbenzene	5.000	4.810	3.8	84	-0.03
73	1,2,4-trimethylbenzene	5.000	5.566	-11.3	89	-0.03
74 C	Benzyl Chloride	5.000	5.746	-14.9	90	-0.02
75	1,3-dichlorobenzene	5.000	5.266	-5.3	89	-0.03
76 C	1,4-dichlorobenzene	5.000	5.203	-4.1	88	-0.02
77	sec-butylbenzene	5.000	5.237	-4.7	83	-0.02
78	p-isopropyltoluene	5.000	4.855	2.9	77	-0.02
79	1,2-dichlorobenzene	5.000	5.343	-6.9	89	-0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157387_Ev2.D
 Acq On : 1 May 2018 10:36 AM
 Operator : AIRLAB15:MB
 Sample : WG1111464-3,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 01 11:26:34 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 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)
80	n-butylbenzene	5.000	5.120	-2.4	78	-0.02
81 C	1,2,4-trichlorobenzene	5.000	4.716	5.7	67	-0.02
82	naphthalene	5.000	4.589	8.2	69	-0.02
83	1,2,3-trichlorobenzene	5.000	4.828	3.4	70	-0.02
84 C	hexachlorobutadiene	5.000	5.653	-13.1	82	-0.02

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159114.D
 Acq On : 2 May 2018 1:48 pm
 Operator : AIRPIAN01:MB
 Sample : WG1111916-3,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:24:59 2018
 Quant Method : O:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 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	78	0.00
2	propylene	5.000	3.033	39.3#	52	0.00
3	dichlorodifluoromethane	5.000	4.840	3.2	74	0.00
4 C	chloromethane	5.000	3.496	30.1#	55	0.00
5	Freon-114	5.000	4.869	2.6	75	-0.01
6 C	vinyl chloride	5.000	4.267	14.7	66	0.00
7 C	1,3-butadiene	5.000	4.510	9.8	70	0.00
8 C	bromomethane	5.000	5.108	-2.2	77	0.00
9 C	chloroethane	5.000	4.269	14.6	67	0.00
10	ethanol	25.000	18.942	24.2	64	0.00
11 C	vinyl bromide	5.000	5.385	-7.7	84	0.00
12 C	acrolein	5.000	3.677	26.5	62	0.00
13	acetone	25.000	26.106	-4.4	88	0.00
14	trichlorofluoromethane	5.000	5.575	-11.5	86	0.00
15	isopropyl alcohol	12.500	10.889	12.9	83	0.00
16 C	acrylonitrile	5.000	4.175	16.5	67	0.00
17 C	1,1-dichloroethene	5.000	4.895	2.1	76	0.00
18	tertiary butyl alcohol	5.000	4.352	13.0	70	0.00
19 C	methylene chloride	5.000	4.945	1.1	76	0.00
20 C	3-chloropropene	5.000	5.070	-1.4	80	0.00
21 C	carbon disulfide	5.000	4.854	2.9	75	0.00
22	Freon 113	5.000	5.250	-5.0	81	0.00
23	trans-1,2-dichloroethene	5.000	4.495	10.1	71	0.00
24 C	1,1-dichloroethane	5.000	4.529	9.4	71	0.00
25 C	MTBE	5.000	4.332	13.4	69	0.00
26 C	vinyl acetate	5.000	4.633	7.3	76	0.00
27 C	2-butanone	5.000	4.362	12.8	70	0.00
28	cis-1,2-dichloroethene	5.000	4.299	14.0	67	0.00
29	Ethyl Acetate	5.000	4.951	1.0	78	0.00
30 C	chloroform	5.000	5.105	-2.1	80	0.00
31	Tetrahydrofuran	5.000	4.070	18.6	64	0.00
32 C	1,2-dichloroethane	5.000	4.769	4.6	76	-0.01
33 I	1,4-difluorobenzene	10.000	10.000	0.0	79	0.00
34 C	hexane	5.000	4.118	17.6	68	0.00
36 C	1,1,1-trichloroethane	5.000	4.891	2.2	79	0.00
37 C	benzene	5.000	4.112	17.8	67	-0.01
38 C	carbon tetrachloride	5.000	5.148	-3.0	83	0.00
39	cyclohexane	5.000	4.035	19.3	65	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159114.D
 Acq On : 2 May 2018 1:48 pm
 Operator : AIRPIAN01:MB
 Sample : WG1111916-3,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:24:59 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 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)
40	dibromomethane	5.000	4.106	17.9	72	0.00
41 C	1,2-dichloropropane	5.000	4.261	14.8	68	0.00
42	bromodichloromethane	5.000	5.171	-3.4	82	0.00
43 C	1,4-dioxane	5.000	4.757	4.9	74	0.00
44 C	trichloroethene	5.000	4.819	3.6	76	0.00
45 C	2,2,4-trimethylpentane	5.000	4.570	8.6	74	0.00
46	heptane	5.000	3.996	20.1	65	0.00
47 C	cis-1,3-dichloropropene	5.000	4.367	12.7	67	0.00
48 C	4-methyl-2-pentanone	5.000	4.979	0.4	72	0.00
49	trans-1,3-dichloropropene	5.000	3.956	20.9	57	0.00
50 C	1,1,2-trichloroethane	5.000	4.814	3.7	75	0.00
51 I	chlorobenzene-D5	10.000	10.000	0.0	75	0.00
52 C	toluene	5.000	4.734	5.3	69	0.00
54	2-hexanone	5.000	5.231	-4.6	70	0.00
55	dibromochloromethane	5.000	6.411	-28.2	90	0.00
56 C	1,2-dibromoethane	5.000	5.301	-6.0	74	0.00
57 C	tetrachloroethene	5.000	5.603	-12.1	81	0.00
58	1,1,1,2-tetrachloroethane	5.000	5.127	-2.5	73	0.00
59 C	chlorobenzene	5.000	5.043	-0.9	72	0.00
60 C	ethylbenzene	5.000	4.643	7.1	67	0.00
61 C	m+p-xylene	10.000	9.851	1.5	69	0.00
62 C	bromoform	5.000	6.427	-28.5	92	0.00
63 C	styrene	5.000	4.983	0.3	67	0.00
64 C	1,1,2,2-tetrachloroethane	5.000	5.516	-10.3	77	0.00
65 C	o-xylene	5.000	5.163	-3.3	73	0.00
66	1,2,3-trichloropropane	5.000	4.891	2.2	69	0.00
68 C	isopropylbenzene	5.000	5.072	-1.4	75	0.00
69	bromobenzene	5.000	4.650	7.0	67	0.00
70	4-ethyl toluene	5.000	5.737	-14.7	77	0.00
71	1,3,5-trimethylbenzene	5.000	5.236	-4.7	72	0.00
72	tert-butylbenzene	5.000	5.134	-2.7	69	0.00
73	1,2,4-trimethylbenzene	5.000	5.546	-10.9	73	0.00
74 C	Benzyl Chloride	5.000	5.496	-9.9	76	0.00
75	1,3-dichlorobenzene	5.000	6.011	-20.2	80	0.00
76 C	1,4-dichlorobenzene	5.000	6.126	-22.5	83	0.00
77	sec-butylbenzene	5.000	5.303	-6.1	71	0.00
78	p-isopropyltoluene	5.000	4.596	8.1	62	0.00
79	1,2-dichlorobenzene	5.000	6.256	-25.1	85	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159114.D
 Acq On : 2 May 2018 1:48 pm
 Operator : AIRPIAN01:MB
 Sample : WG1111916-3,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:24:59 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 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)
80	n-butylbenzene	5.000	5.488	-9.8	70	0.00
81 C	1,2,4-trichlorobenzene	5.000	7.746	-54.9#	89	0.00
82	naphthalene	5.000	5.878	-17.6	70	0.01
83	1,2,3-trichlorobenzene	5.000	7.344	-46.9#	81	0.00
84 C	hexachlorobutadiene	5.000	7.956	-59.1#	96	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 3

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157387_Ev2.D
 Acq On : 1 May 2018 10:36 AM
 Operator : AIRLAB15:MB
 Sample : WG1111464-3,3,250,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 01 11:26:34 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180501SIM\r157387_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	9.617	49	133881	10.000	ppbV	#-0.04
Standard Area = 133881			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.887	114	300815	10.000	ppbV	-0.04
Standard Area = 300815			Recovery = 100.00%			
51) chlorobenzene-D5	16.550	54	52930	10.000	ppbV	-0.03
Standard Area = 52930			Recovery = 100.00%			

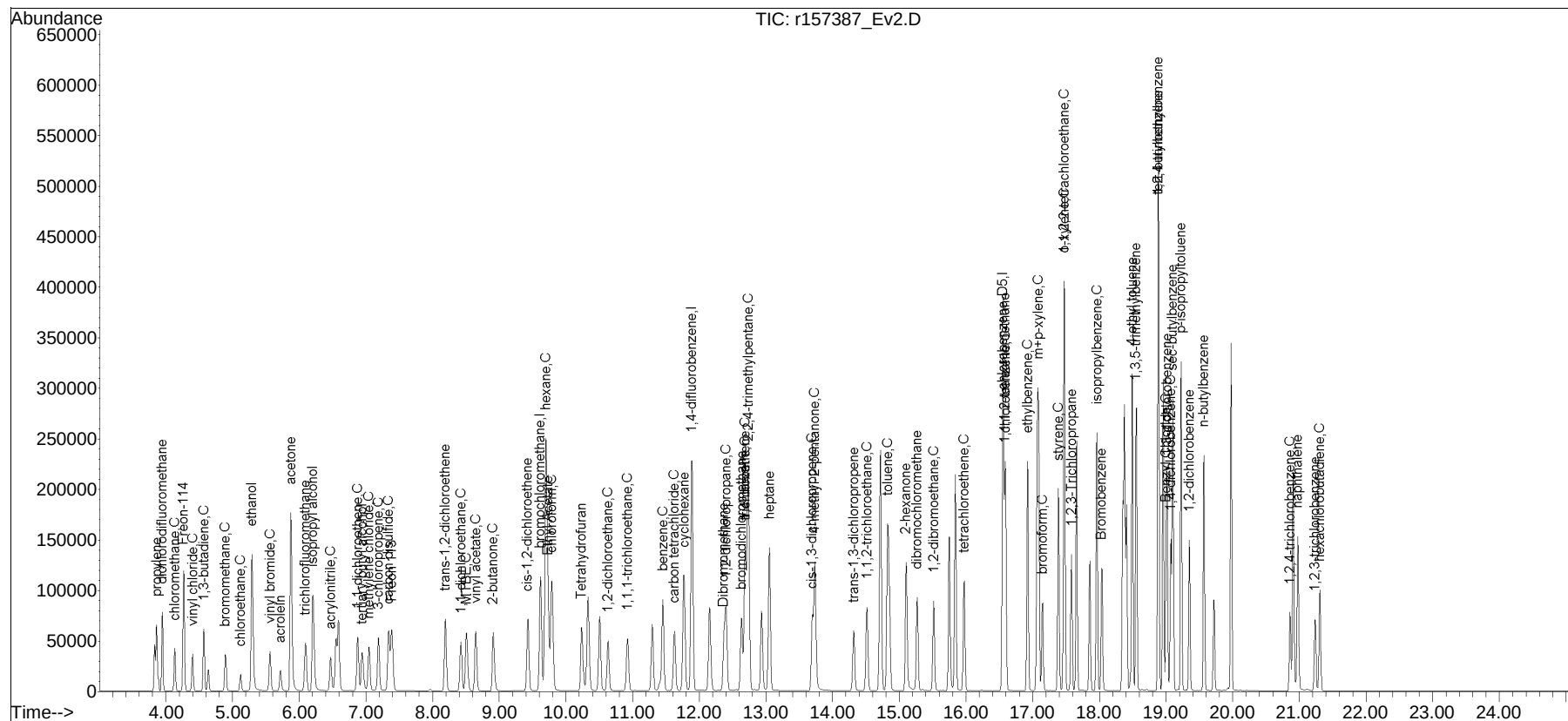
System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.402	62	43854	4.078	ppbV	97
17) 1,1-dichloroethene	6.876	61	55719	3.860	ppbV	96
23) trans-1,2-dichloroethene	8.192	61	62577	4.339	ppbV	97
28) cis-1,2-dichloroethene	9.425	61	57489	4.126	ppbV	93
44) trichloroethene	12.687	130	57478	4.316	ppbV	96
57) tetrachloroethene	15.975	166	61631	5.212	ppbV	94

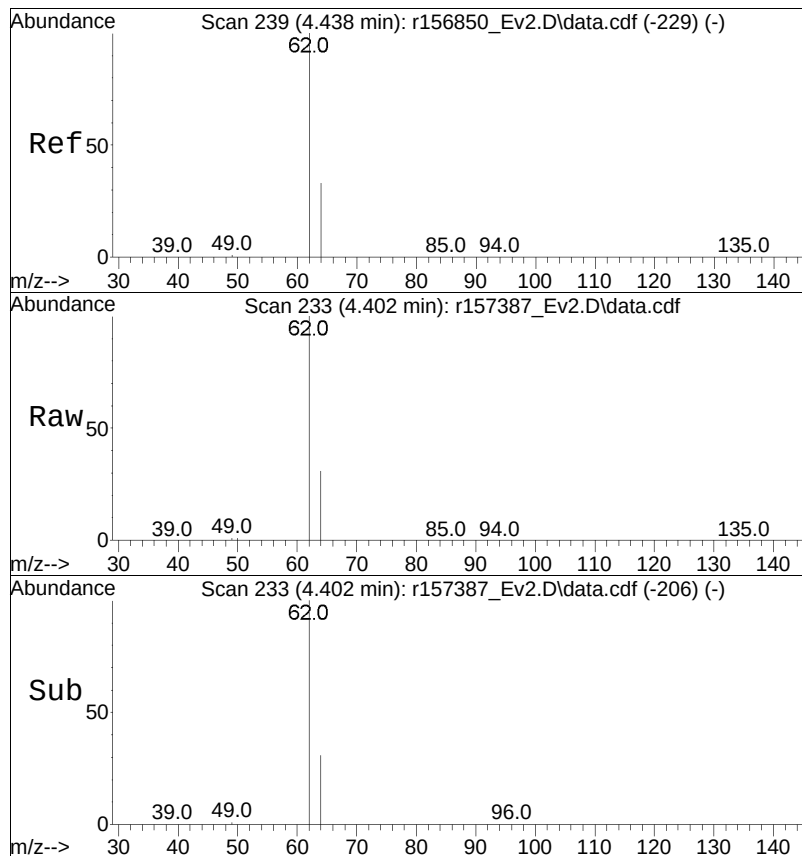
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : O:\Forensics\Data\AirLab15\2018\180501SIM\
Data File : r157387_Ev2.D
Acq On    : 1 May 2018 10:36 AM
Operator  : AIRLAB15:MB
Sample    : WG1111464-3,3,250,250
Misc      : WG1111464,ICAL14605
ALS Vial  : 0 Sample Multiplier: 1
```

Quant Time: May 01 11:26:34 2018
Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 05 10:02:48 2018
Response via : Initial Calibration

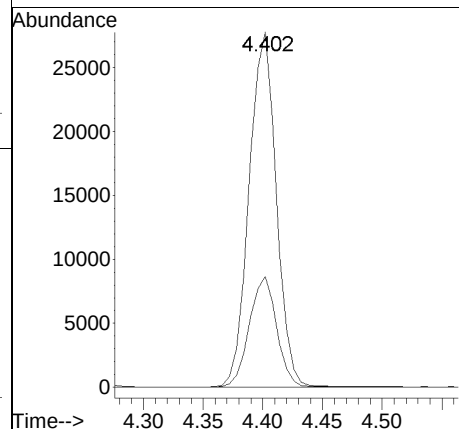


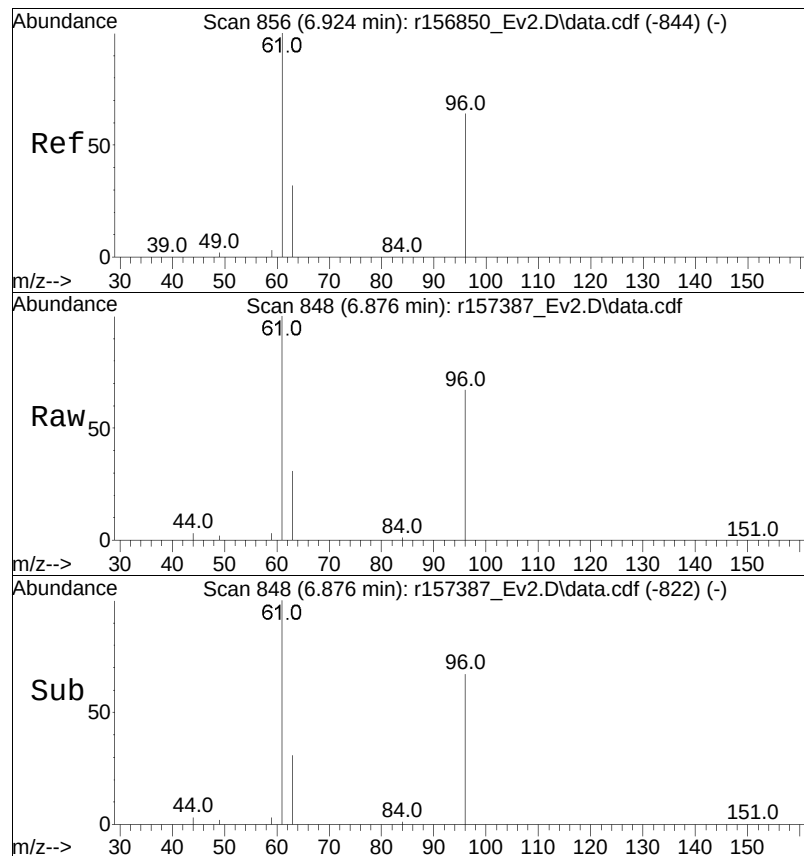
Page 2



#6
 vinyl chloride
 Concen: 4.08 ppbV
 RT: 4.402 min Scan# 233
 Delta R.T. -0.036 min
 Lab File: r157387_Ev2.D
 Acq: 1 May 2018 10:36 AM

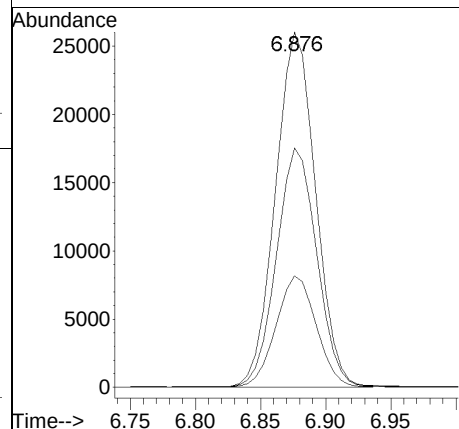
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.3	26.3	39.5

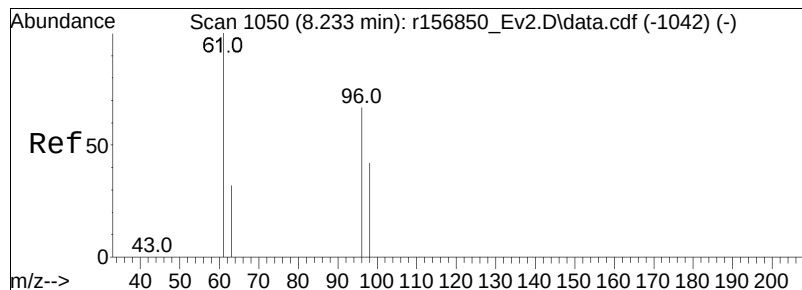




#17
 1,1-dichloroethene
 Concen: 3.86 ppbV
 RT: 6.876 min Scan# 848
 Delta R.T. -0.048 min
 Lab File: r157387_Ev2.D
 Acq: 1 May 2018 10:36 AM

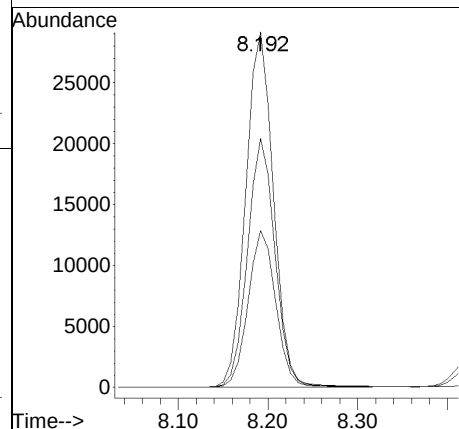
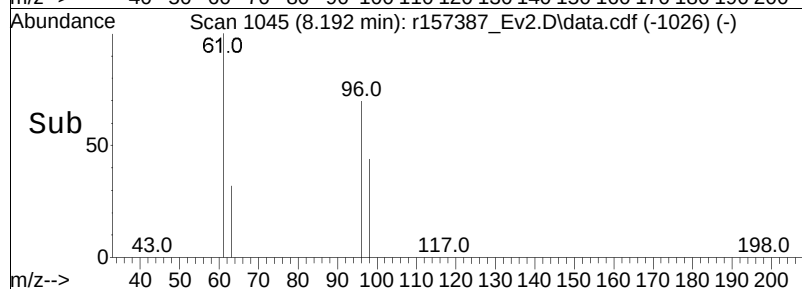
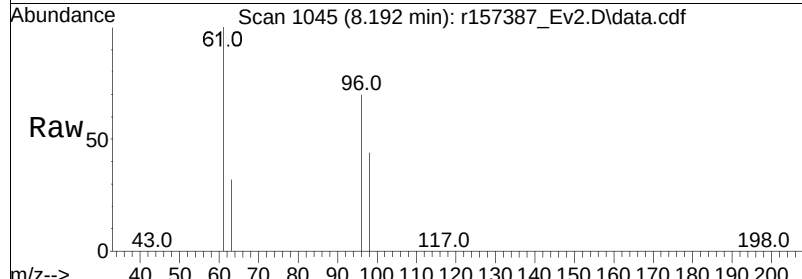
Tgt Ion:	61	Resp:	55719
Ion Ratio	Lower	Upper	
61	100		
96	67.4	51.1	76.7
63	31.4	25.9	38.9

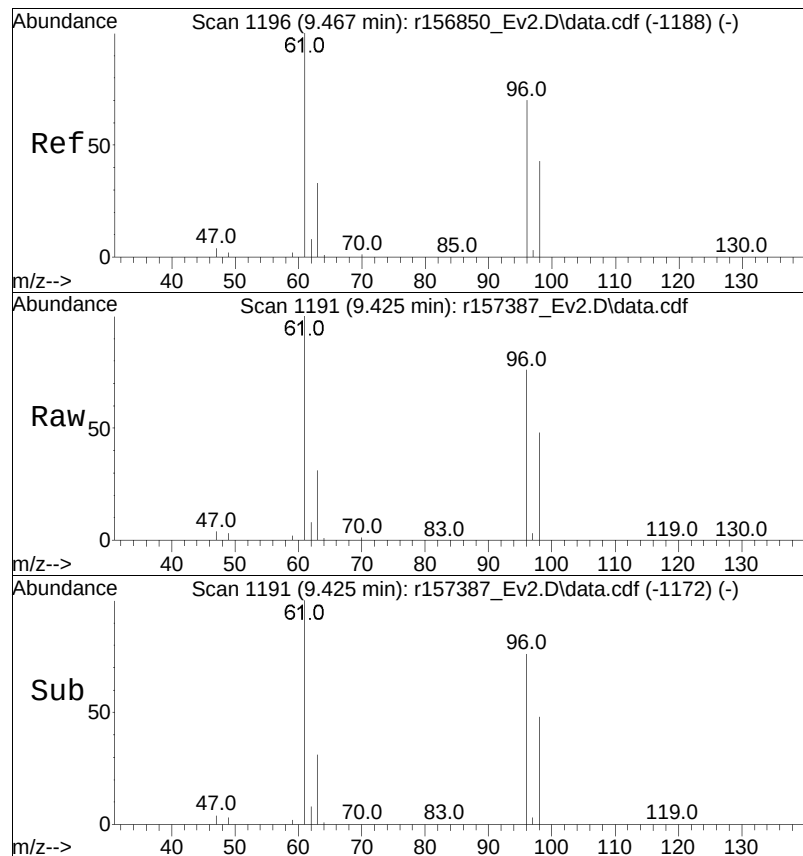




#23
 trans-1,2-dichloroethene
 Concen: 4.34 ppbV
 RT: 8.192 min Scan# 1045
 Delta R.T. -0.042 min
 Lab File: r157387_Ev2.D
 Acq: 1 May 2018 10:36 AM

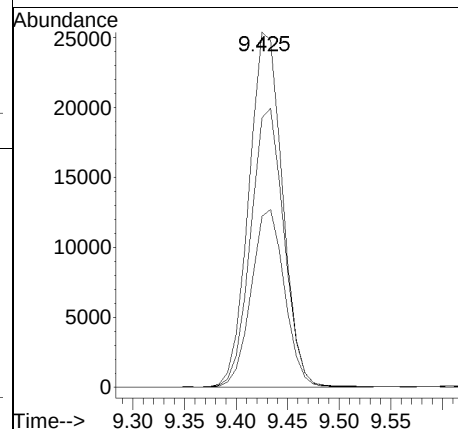
Tgt Ion	Ratio	Lower	Upper
61	100		
96	70.0	54.0	81.0
98	44.1	33.8	50.8

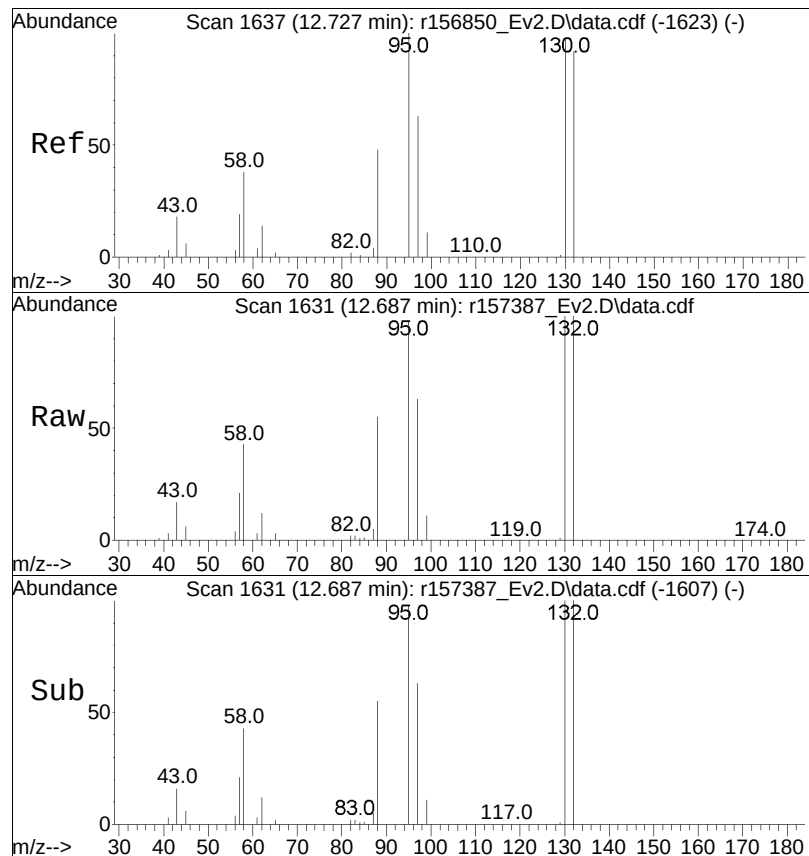




#28
 cis-1,2-dichloroethene
 Concen: 4.13 ppbV
 RT: 9.425 min Scan# 1191
 Delta R.T. -0.042 min
 Lab File: r157387_Ev2.D
 Acq: 1 May 2018 10:36 AM

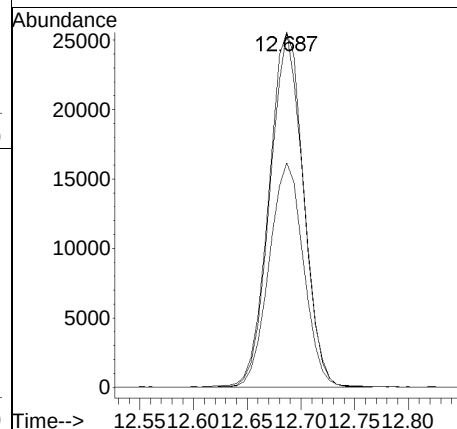
Tgt Ion:	61	Resp:	57489
Ion Ratio	Lower	Upper	
61	100		
96	75.9	56.1	84.1
98	48.1	34.6	52.0

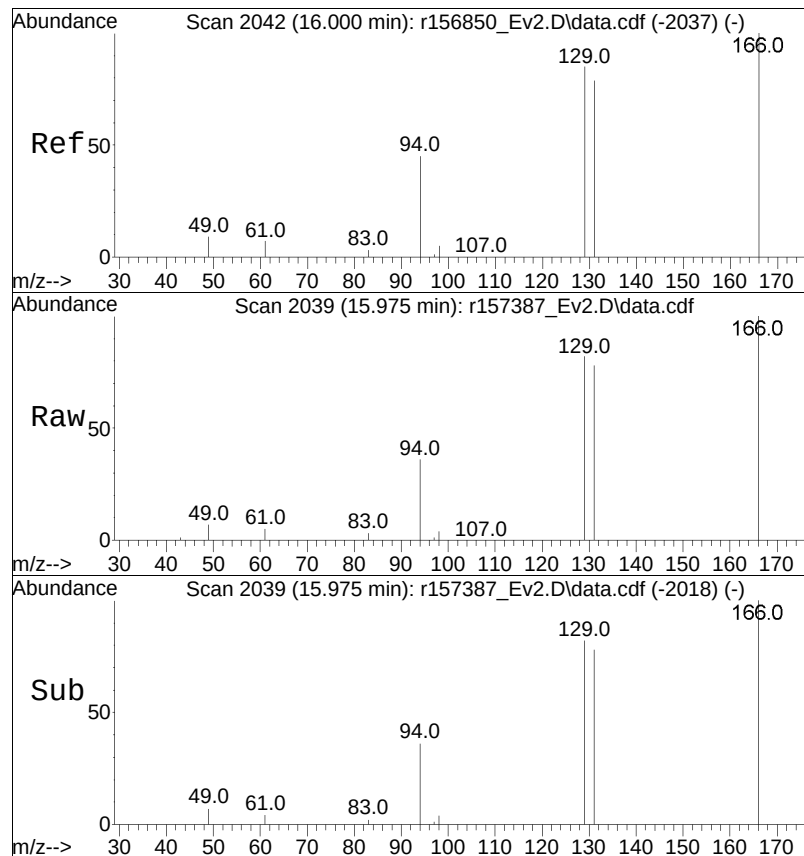




#44
trichloroethene
Concen: 4.32 ppbV
RT: 12.687 min Scan# 1631
Delta R.T. -0.040 min
Lab File: r157387_Ev2.D
Acq: 1 May 2018 10:36 AM

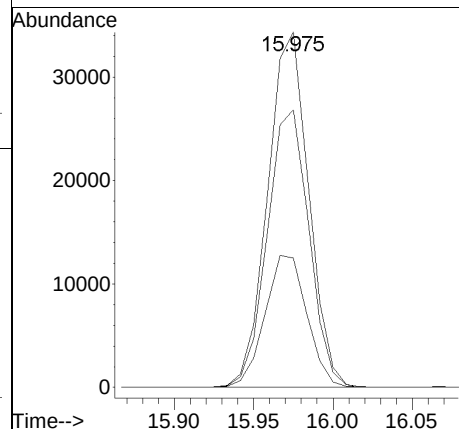
Tgt Ion:	130	Resp:	57478
Ion Ratio	Lower	Upper	
130	100		
132	100.1	75.5	113.3
97	63.3	51.9	77.9





#57
 tetrachloroethene
 Concen: 5.21 ppbV
 RT: 15.975 min Scan# 2039
 Delta R.T. -0.025 min
 Lab File: r157387_Ev2.D
 Acq: 1 May 2018 10:36 AM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	78.2	63.5	95.3
94	36.4	36.1	54.1



Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159114.D
 Acq On : 2 May 2018 1:48 pm
 Operator : AIRPIAN01:MB
 Sample : WG1111916-3,3,250,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:24:59 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : Default-LCS-AP2 - All compounds listed

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

Internal Standards						
1) bromochloromethane	10.181	49	171514	10.000	ppbV	0.00
Standard Area = 171514			Recovery	=	100.00%	
33) 1,4-difluorobenzene	12.401	114	248964	10.000	ppbV	0.00
Standard Area = 248964			Recovery	=	100.00%	
51) chlorobenzene-D5	16.822	54	64233	10.000	ppbV	0.00
Standard Area = 64233			Recovery	=	100.00%	

System Monitoring Compounds

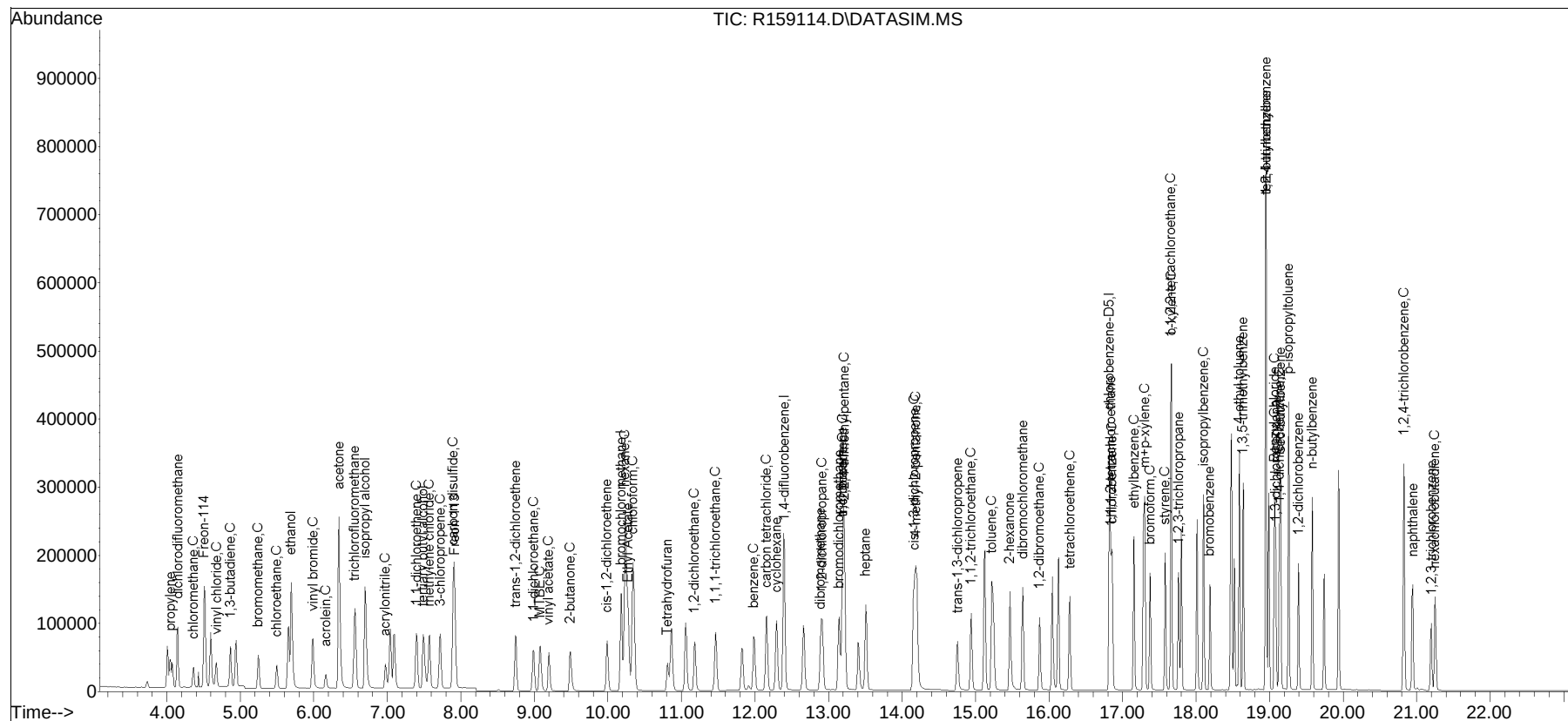
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.677	62	43364	4.267	ppbV	98
17) 1,1-dichloroethene	7.395	61	81369	4.895	ppbV	96
23) trans-1,2-dichloroethene	8.745	61	69037	4.495	ppbV	94
28) cis-1,2-dichloroethene	9.988	61	71656	4.299	ppbV	94
44) trichloroethene	13.193	130	49241	4.819	ppbV	97
57) tetrachloroethene	16.283	166	61844	5.603	ppbV	96

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

Sub List : Default-LCS-AP2 - All compounds listedR159114.D

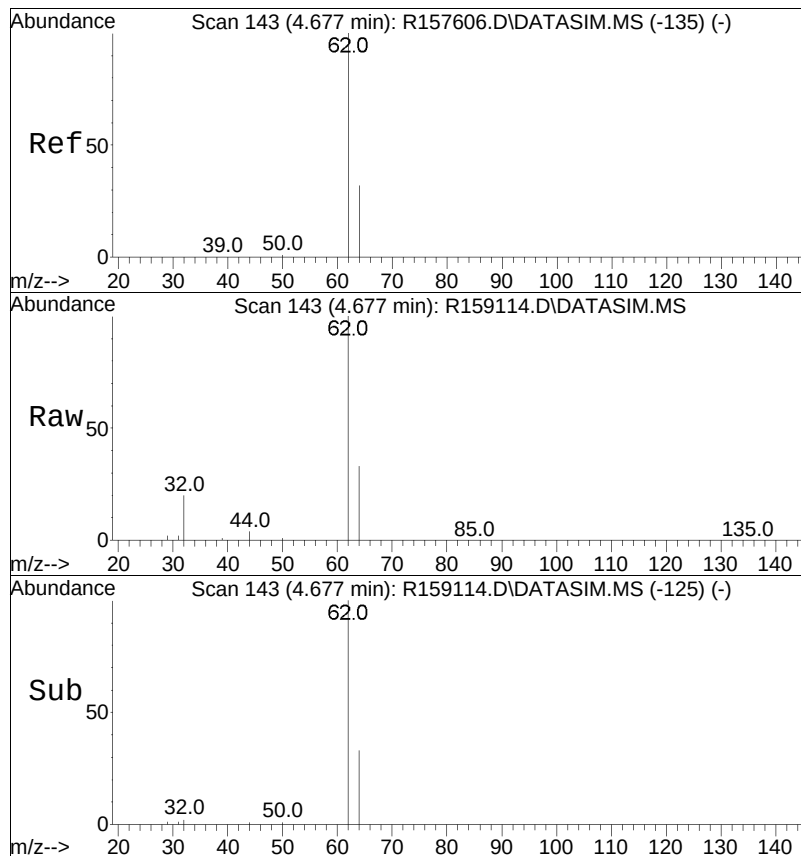
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Data File : R159114.D
Acq On : 2 May 2018 1:48 pm
Operator : AIRPIAN01:MB
Sample : WG1111916-3,3,250,250
Misc : WG1111916,ICAL14483
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 14:24:59 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



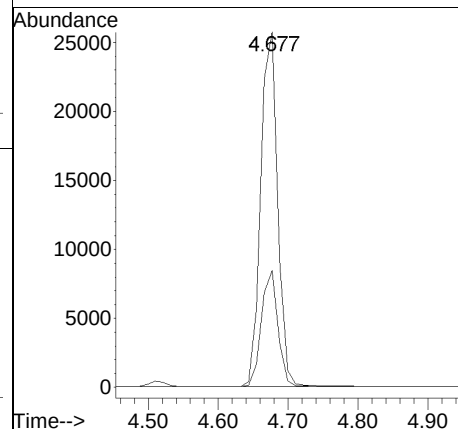
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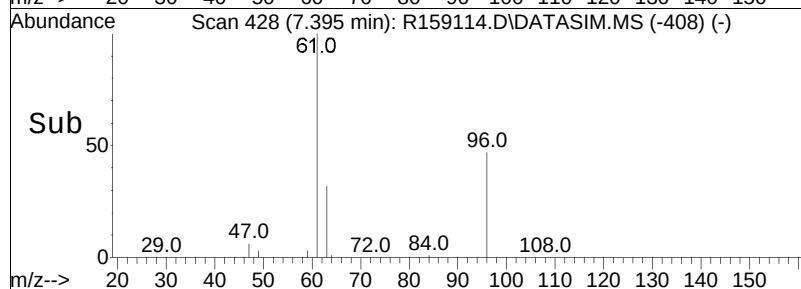
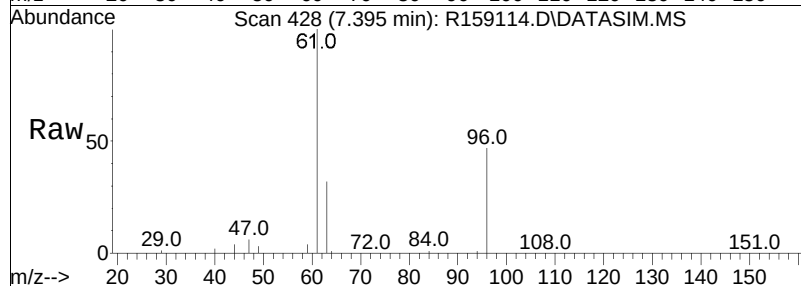
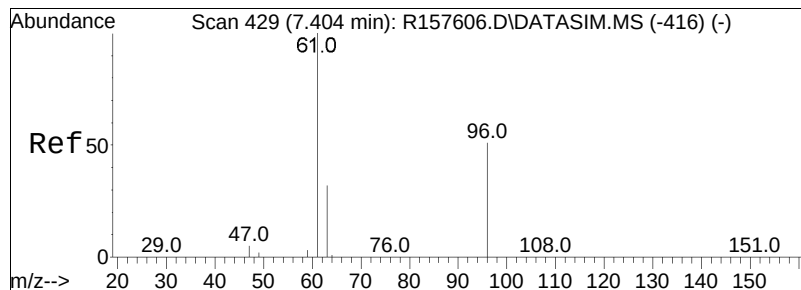
Page 2



#6
 vinyl chloride
 Concen: 4.27 ppbV
 RT: 4.677 min Scan# 143
 Delta R.T. 0.000 min
 Lab File: R159114.D
 Acq: 2 May 2018 1:48 pm

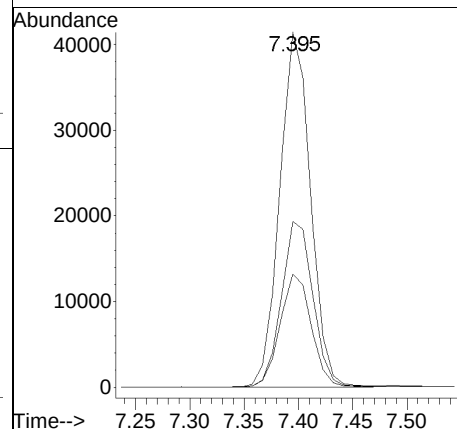
Tgt	Ion	Ratio	Lower	Upper
62	100			
64	32.9	25.5	38.3	

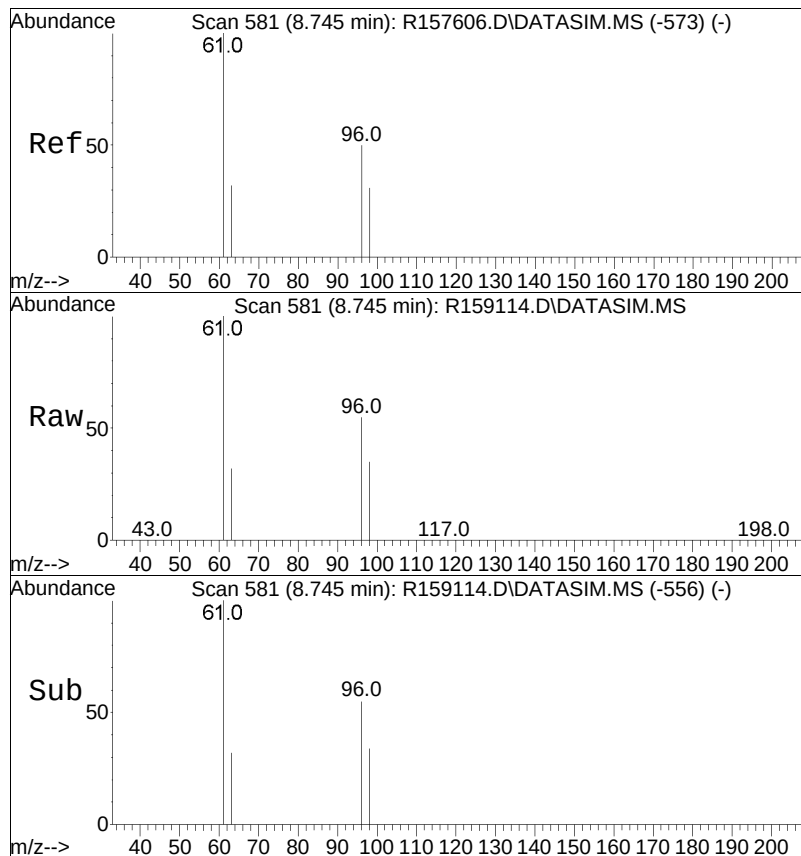




#17
 1,1-dichloroethene
 Concen: 4.90 ppbV
 RT: 7.395 min Scan# 428
 Delta R.T. -0.009 min
 Lab File: R159114.D
 Acq: 2 May 2018 1:48 pm

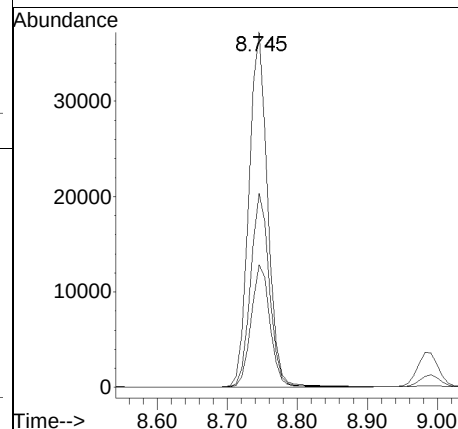
Tgt Ion:	61	Resp:	81369
Ion Ratio	Lower	Upper	
61	100		
96	46.7	40.5	60.7
63	32.0	26.0	39.0

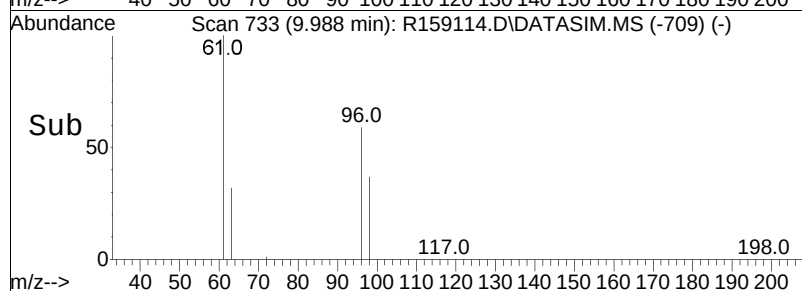
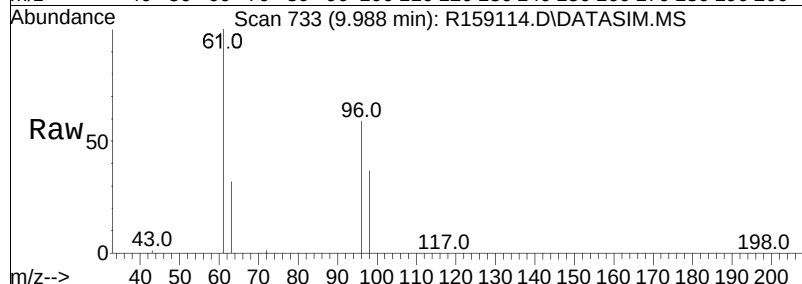
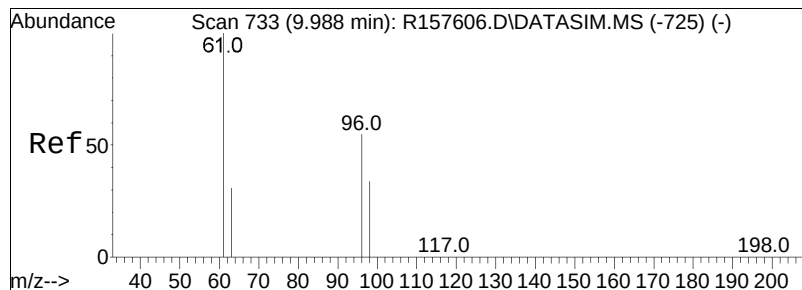




#23
 trans-1,2-dichloroethene
 Concen: 4.50 ppbV
 RT: 8.745 min Scan# 581
 Delta R.T. 0.000 min
 Lab File: R159114.D
 Acq: 2 May 2018 1:48 pm

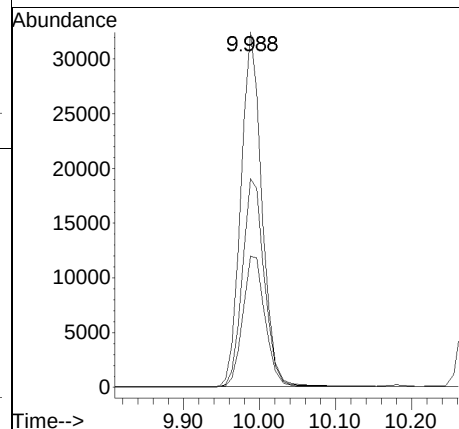
Tgt Ion	Ratio	Lower	Upper
61	100		
96	54.6	40.4	60.6
98	34.5	25.0	37.4

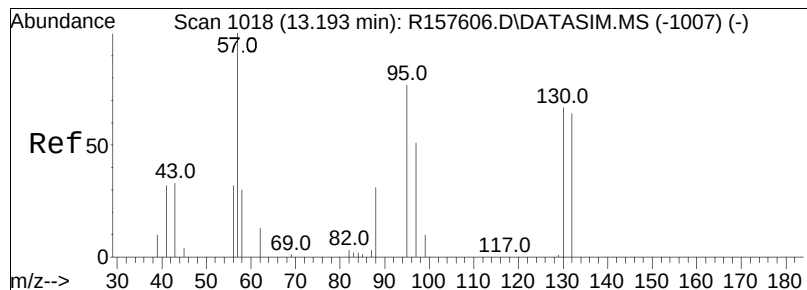




#28
 cis-1,2-dichloroethene
 Concen: 4.30 ppbV
 RT: 9.988 min Scan# 733
 Delta R.T. 0.000 min
 Lab File: R159114.D
 Acq: 2 May 2018 1:48 pm

Tgt Ion:	61	Resp:	71656
Ion Ratio	Lower	Upper	
61	100		
96	58.7	43.8	65.6
98	36.9	27.0	40.4





#44

trichloroethene

Concen: 4.82 ppbV

RT: 13.193 min Scan# 1018

Delta R.T. 0.000 min

Lab File: R159114.D

Acq: 2 May 2018 1:48 pm

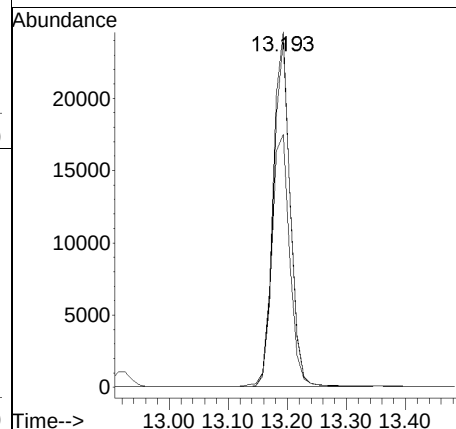
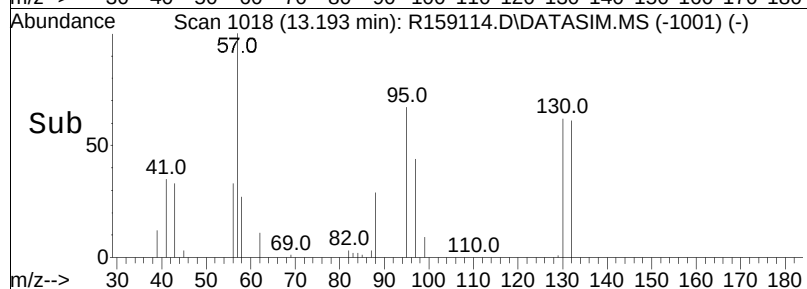
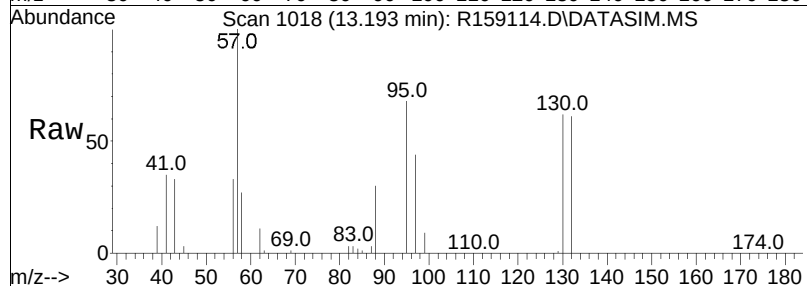
Tgt Ion:130 Resp: 49241

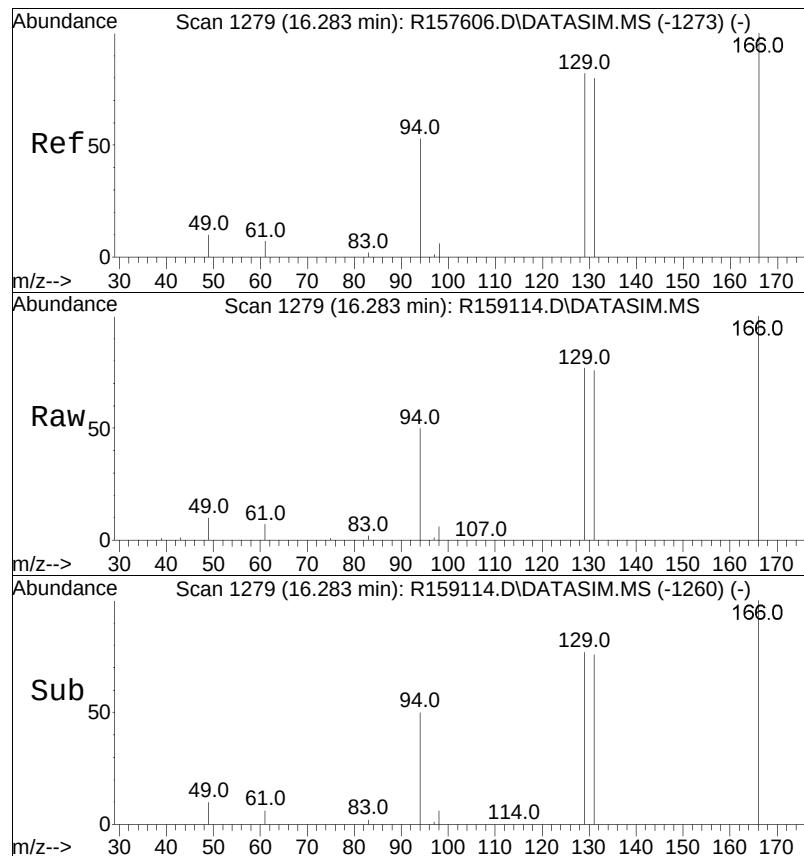
Ion Ratio Lower Upper

130 100

132 97.8 77.4 116.0

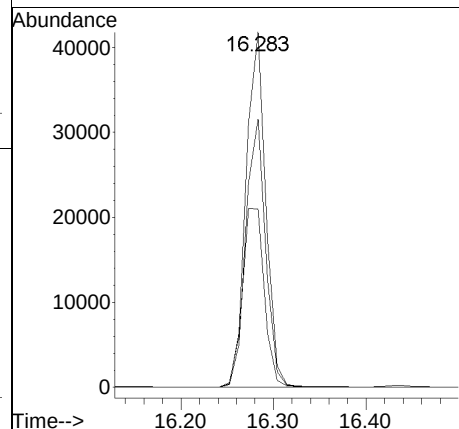
97 71.3 60.9 91.3





#57
 tetrachloroethene
 Concen: 5.60 ppbV
 RT: 16.283 min Scan# 1279
 Delta R.T. 0.000 min
 Lab File: R159114.D
 Acq: 2 May 2018 1:48 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	75.6	63.7	95.5
94	50.2	42.1	63.1



Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\
 Data File : r157400_Ev2.D
 Acq On : 1 May 2018 7:45 PM
 Operator : AIRLAB15:MB
 Sample : WG1111464-5D,3,25,250
 Misc : WG1111464,ICAL14605
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 02 14:05:17 2018
 Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Apr 05 10:02:48 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab15\2018\180501SIM\r157387_Ev2.D
 Sub List : SCA26 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.617	49	85143	10.000	ppbV	#-0.04
Standard Area = 133881			Recovery =		63.60%	
33) 1,4-difluorobenzene	11.893	114	216103	10.000	ppbV	-0.03
Standard Area = 300815			Recovery =		71.84%	
51) chlorobenzene-D5	16.558	54	46218	10.000	ppbV	-0.02
Standard Area = 52930			Recovery =		87.32%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue	
4) chloromethane	4.132	50	708	0.103	ppbV #	82	
6) vinyl chloride	0.000		0	N.D.			
9) chloroethane	0.000		0	N.D.			
17) 1,1-dichloroethene	0.000		0	N.D.			
19) methylene chloride	7.050	49	258	0.030	ppbV	89	
23) trans-1,2-dichloroethene	8.067		0	N.D.			
24) 1,1-dichloroethane	0.000		0	N.D.			
25) MTBE	0.000		0	N.D.			
28) cis-1,2-dichloroethene	0.000		0	N.D.			
32) 1,2-dichloroethane	0.000		0	N.D.			
36) 1,1,1-trichloroethane	10.917	97	145	0.014	ppbV #	54	
37) benzene	11.453	78	3705	0.149	ppbV	97	
38) carbon tetrachloride	11.633		0	N.D.			
41) 1,2-dichloropropane	0.000		0	N.D.	d		
44) trichloroethene	12.680	130	272	0.028	ppbV	98	
52) toluene	14.825	91	1493	0.050	ppbV	96	
57) tetrachloroethene	15.975	166	206	0.020	ppbV #	84	
59) chlorobenzene	0.000		0	N.D.	d		
60) ethylbenzene	16.925	91	670	0.019	ppbV #	86	
61) m+p-xylene	17.075	91	1841	0.062	ppbV	97	
65) o-xylene	17.475	91	817	0.027	ppbV	90	
71) 1,3,5-trimethylbenzene	18.558		0	N.D.			
73) 1,2,4-trimethylbenzene	18.883	105	454	0.014	ppbV #	64	
75) 1,3-dichlorobenzene	19.025	146	3635	0.167	ppbV	98	
79) 1,2-dichlorobenzene	0.000		0	N.D.			
82) naphthalene	0.000		0	N.D.			

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

Sub List : SCA26 - .ics\Data\Airlab15\2018\180501SIM\r157387_Ev2.D

Data Path : 0:\Forensics\Data\Airlab15\2018\180501SIM\

Data File : r157400_Ev2.D

Acq On : 1 May 2018 7:45 PM

Operator : AIRLAB15:MB

Sample : WG1111464-5D,3,25,250

Misc : WG1111464,ICAL14605

ALS Vial : 0 Sample Multiplier: 1

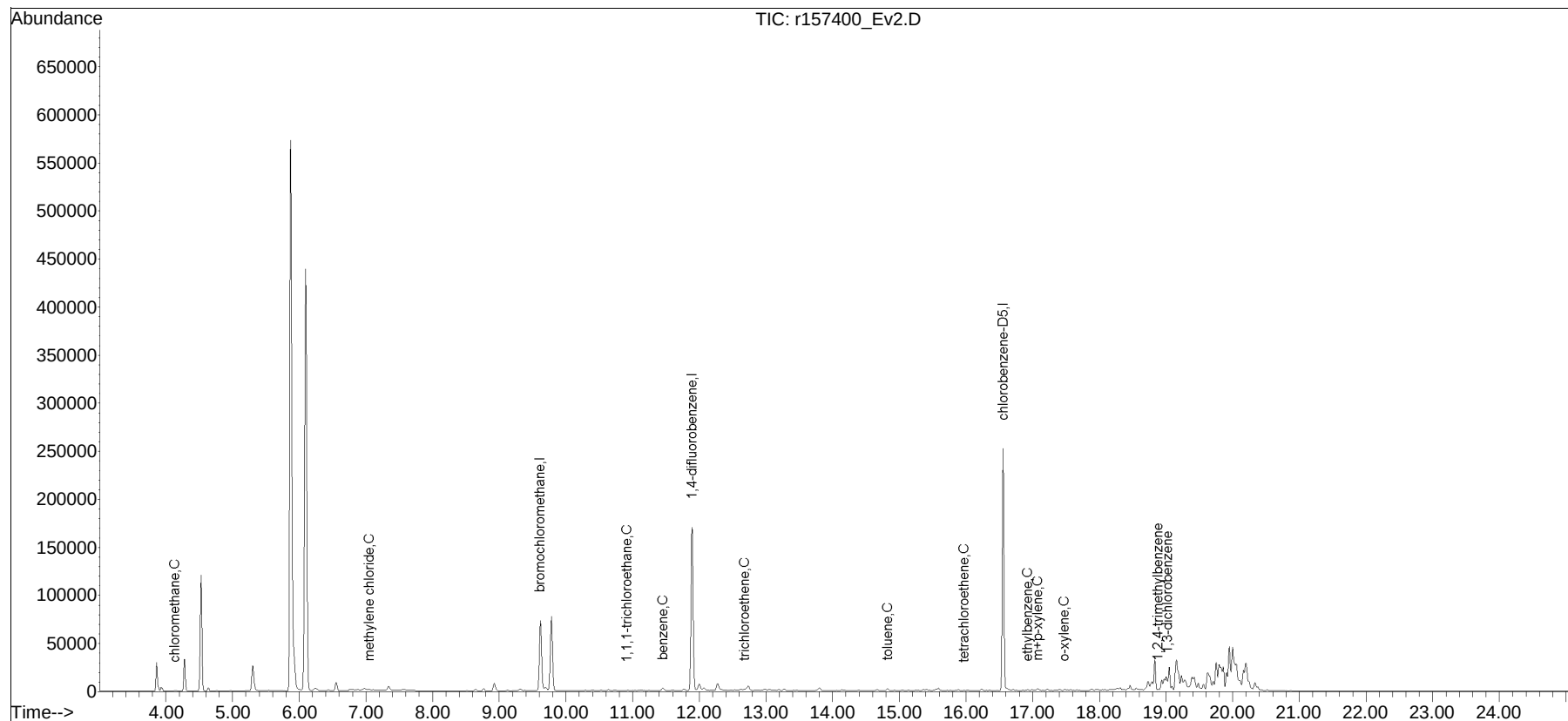
Quant Time: May 02 14:05:17 2018

Quant Method : 0:\Forensics\Data\Airlab15\2018\180501SIM\TSIM180404.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

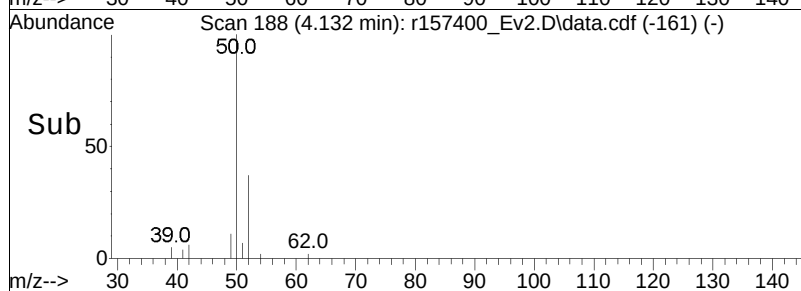
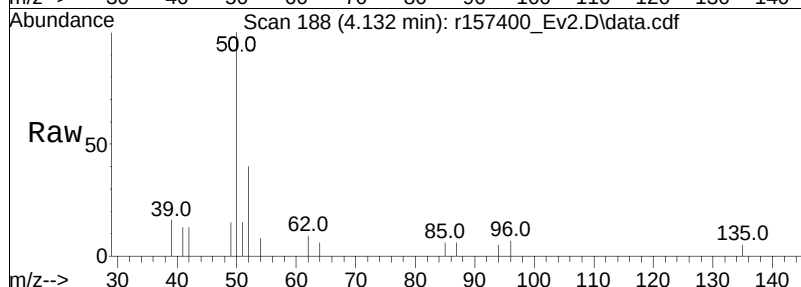
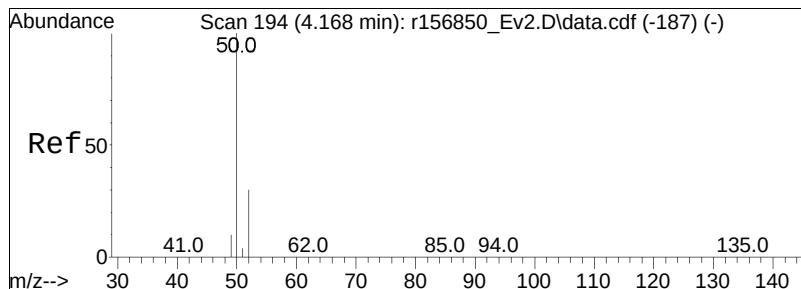
QLast Update : Thu Apr 05 10:02:48 2018

Response via : Initial Calibration



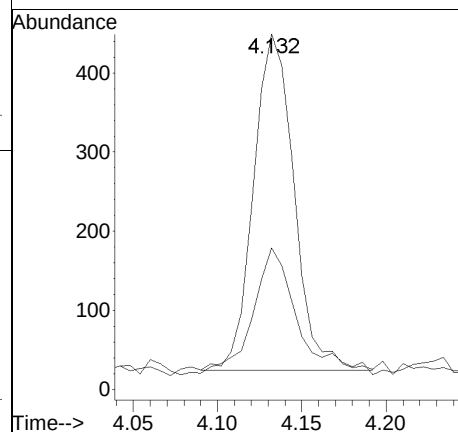
TSIM180404.M Wed May 02 14:18:23 2018

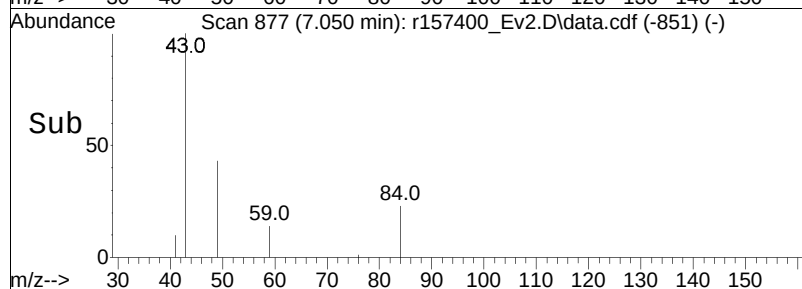
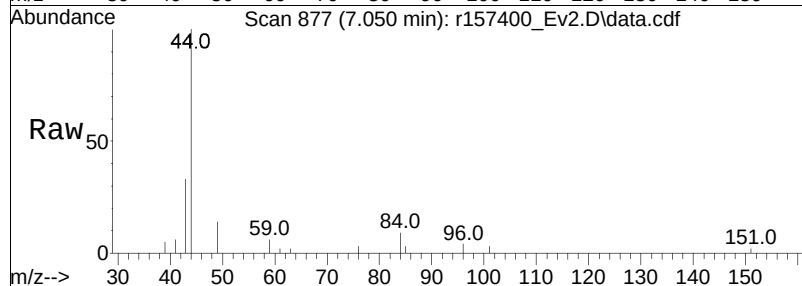
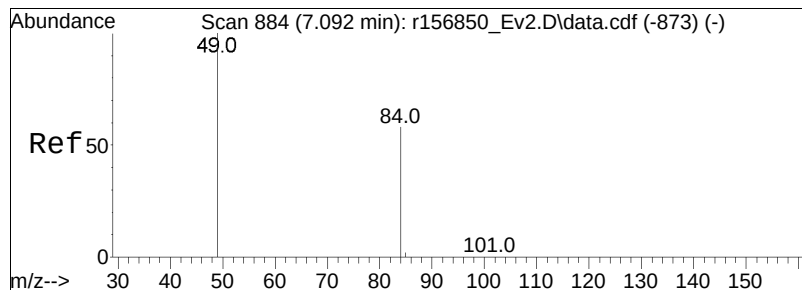
Page: 2



#4
chloromethane
Concen: 0.10 ppbV
RT: 4.132 min Scan# 188
Delta R.T. -0.036 min
Lab File: r157400_Ev2.D
Acq: 1 May 2018 7:45 PM

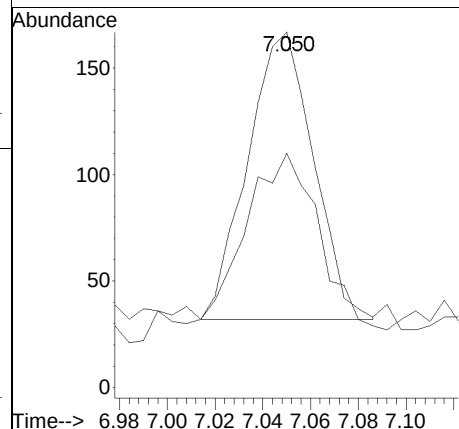
Tgt Ion: 50 Resp: 708
Ion Ratio Lower Upper
50 100
52 39.9 24.2 36.2#

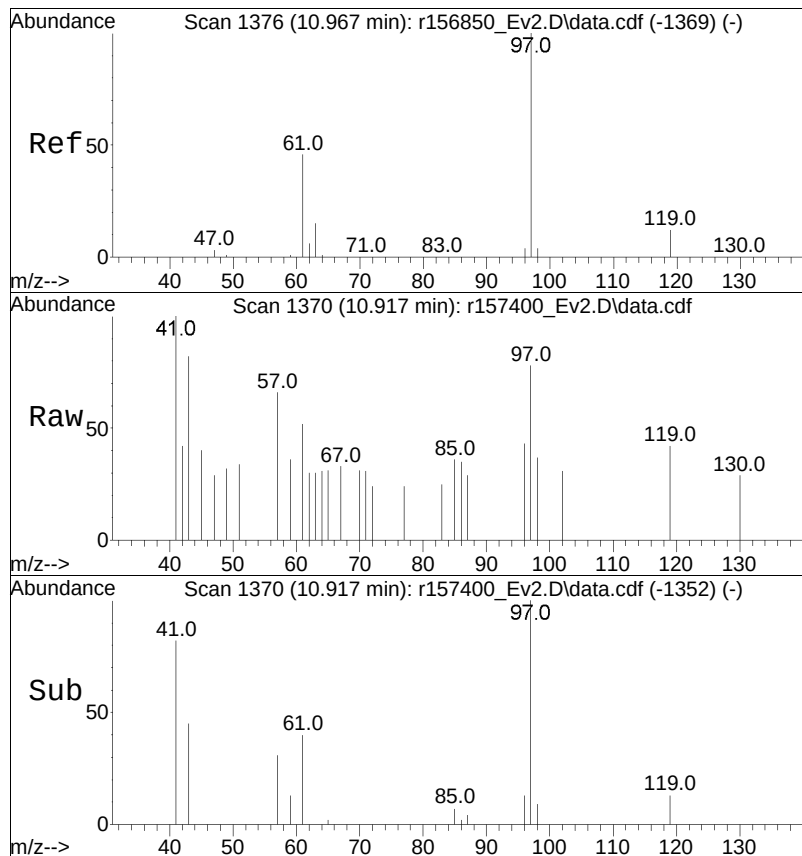




#19
methylene chloride
Concen: 0.03 ppbV
RT: 7.050 min Scan# 877
Delta R.T. -0.042 min
Lab File: r157400_Ev2.D
Acq: 1 May 2018 7:45 PM

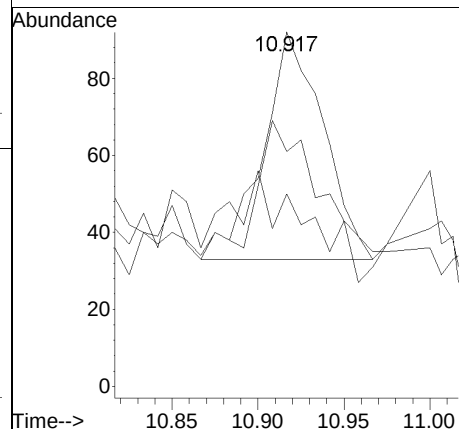
Tgt	Ion	Resp	Lower	Upper
49	100			
84	65.9	46.3	69.5	

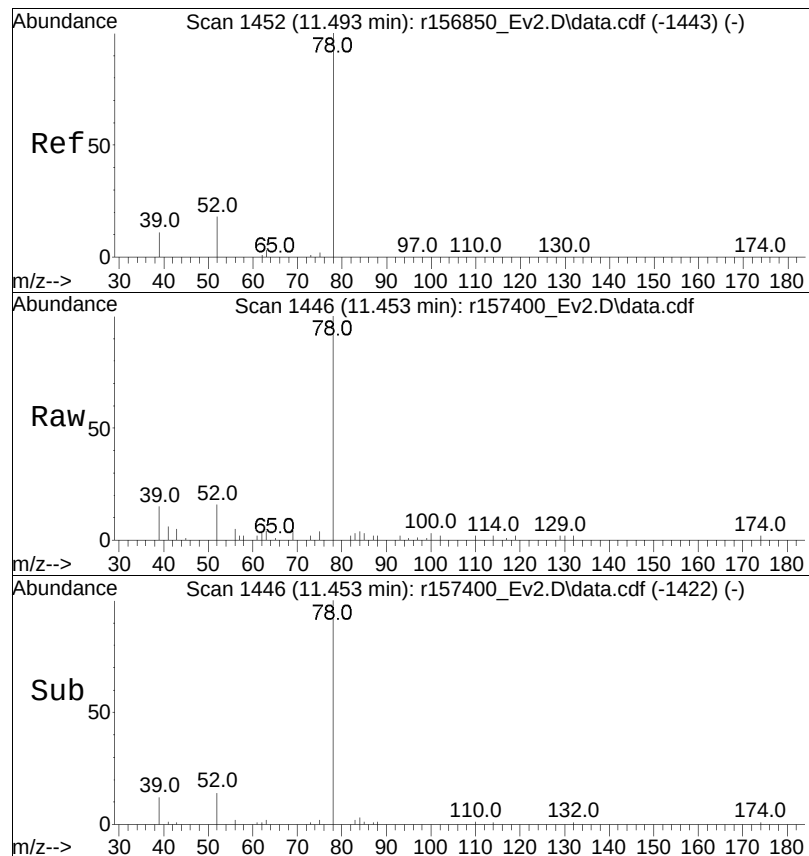




#36
 1,1,1-trichloroethane
 Concen: 0.01 ppbV
 RT: 10.917 min Scan# 1370
 Delta R.T. -0.050 min
 Lab File: r157400_Ev2.D
 Acq: 1 May 2018 7:45 PM

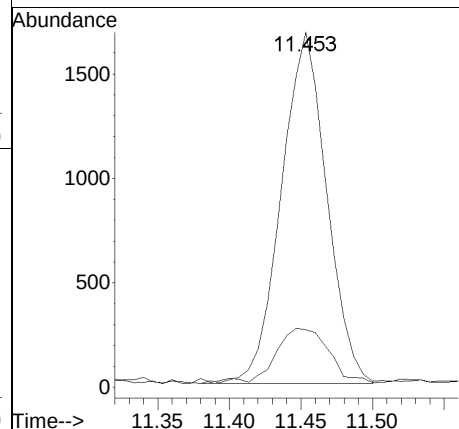
Tgt Ion	Ratio	Resp	Lower	Upper
97	100	145		
61	66.3		37.1	55.7#
119	54.3		10.0	15.0#

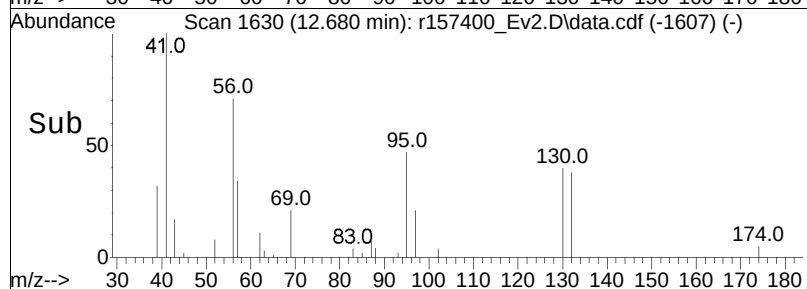
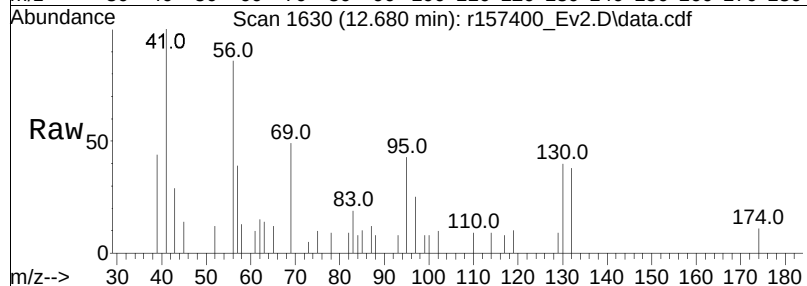
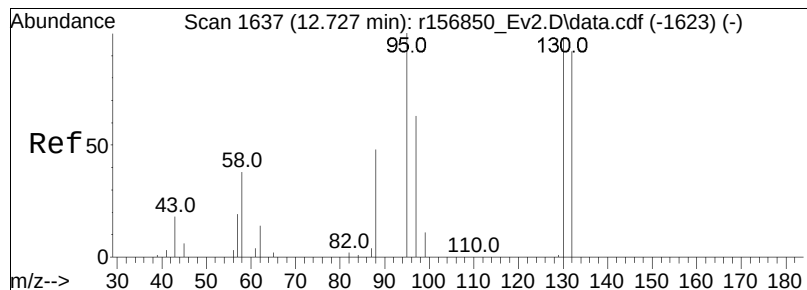




#37
benzene
Concen: 0.15 ppbV
RT: 11.453 min Scan# 1446
Delta R.T. -0.040 min
Lab File: r157400_Ev2.D
Acq: 1 May 2018 7:45 PM

Tgt	Ion	Resp	Lower	Upper
78	100	3705		
52	16.2		14.2	21.2





#44

trichloroethene

Concen: 0.03 ppbV

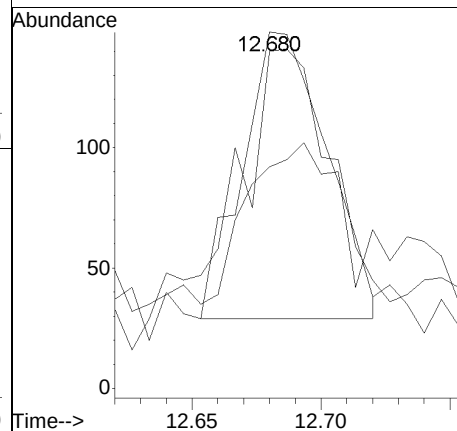
RT: 12.680 min Scan# 1630

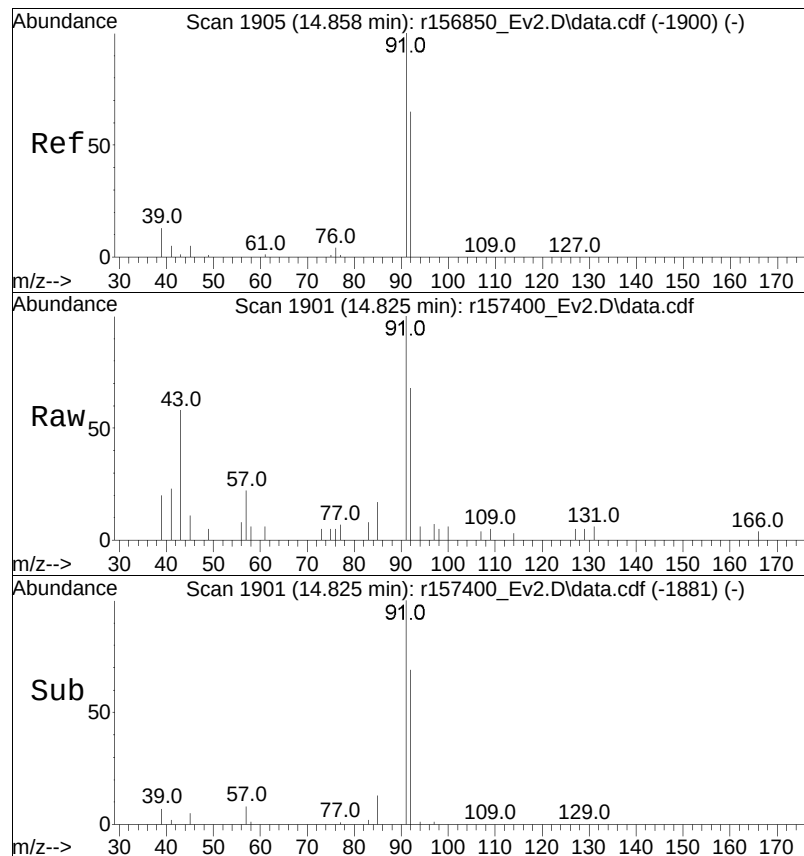
Delta R.T. -0.047 min

Lab File: r157400_Ev2.D

Acq: 1 May 2018 7:45 PM

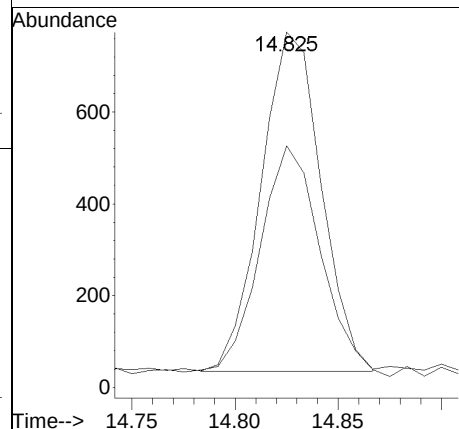
Tgt Ion:	130	Resp:	272
Ion Ratio	Lower	Upper	
130	100		
132	94.6	75.5	113.3
97	62.2	51.9	77.9

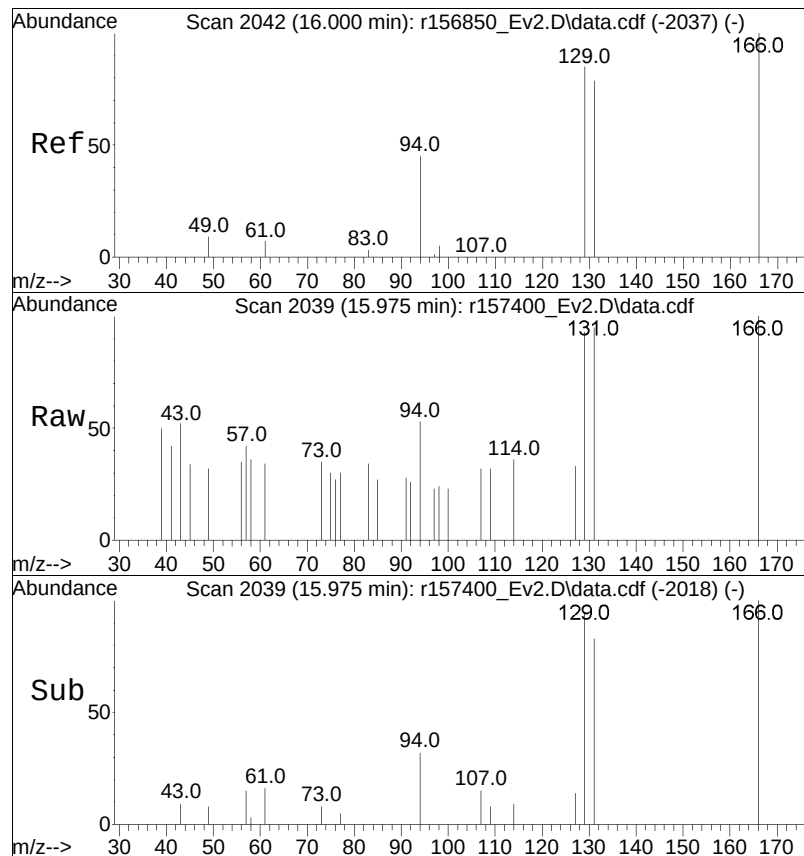




#52
 toluene
 Concen: 0.05 ppbV
 RT: 14.825 min Scan# 1901
 Delta R.T. -0.033 min
 Lab File: r157400_Ev2.D
 Acq: 1 May 2018 7:45 PM

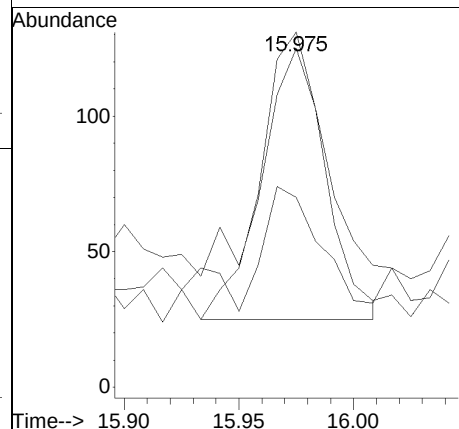
Tgt	Ion	Ratio	Lower	Upper
91	100			
92	68.0	51.6	77.4	

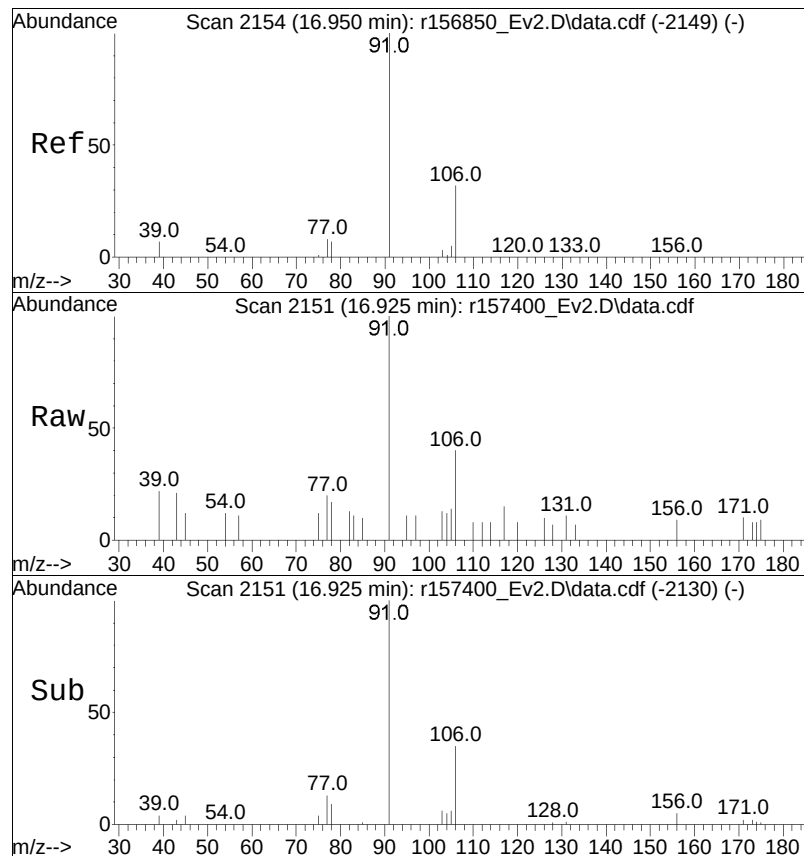




#57
 tetrachloroethene
 Concen: 0.02 ppbV
 RT: 15.975 min Scan# 2039
 Delta R.T. -0.025 min
 Lab File: r157400_Ev2.D
 Acq: 1 May 2018 7:45 PM

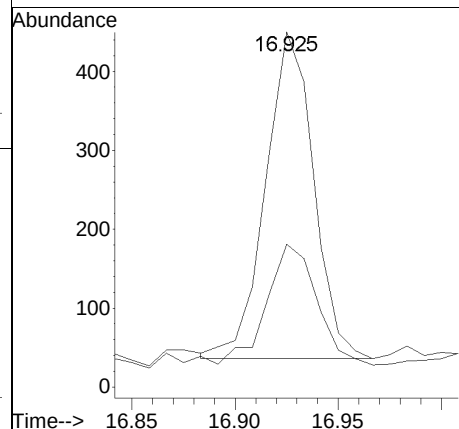
Tgt	Ion:166	Resp:	206
Ion	Ratio	Lower	Upper
166	100		
131	95.4	63.5	95.3#
94	53.4	36.1	54.1

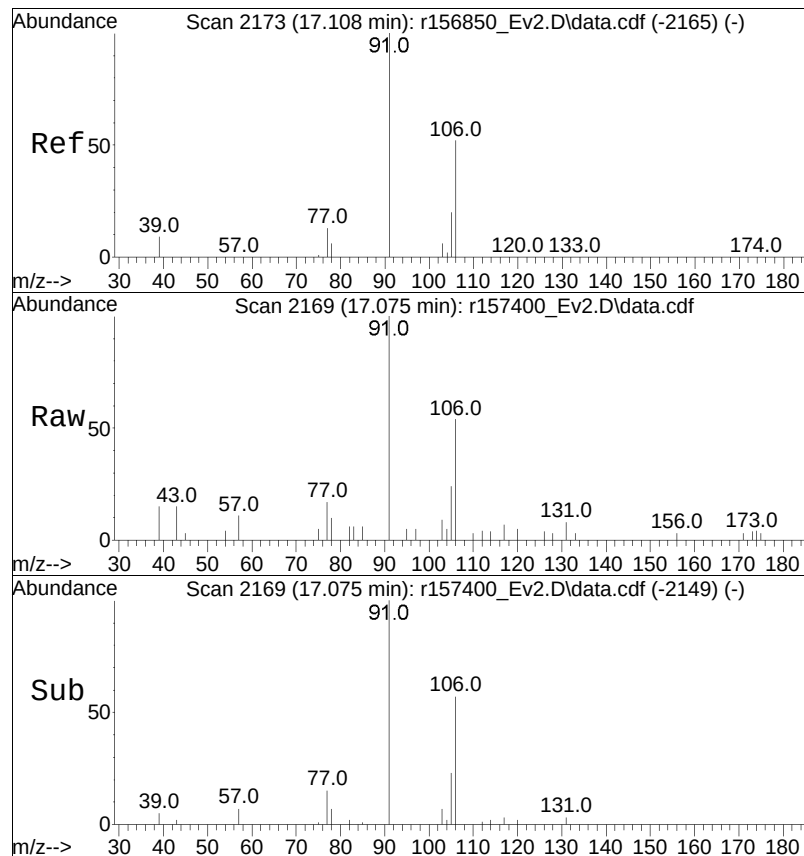




#60
ethylbenzene
Concen: 0.02 ppbV
RT: 16.925 min Scan# 2151
Delta R.T. -0.025 min
Lab File: r157400_Ev2.D
Acq: 1 May 2018 7:45 PM

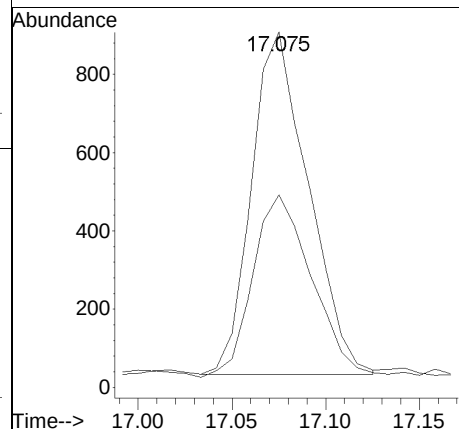
Tgt	Ion	Ratio	Lower	Upper
91	100			
106	40.2	26.0	39.0#	

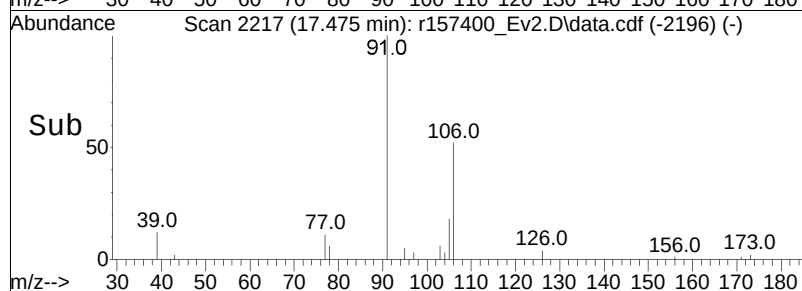
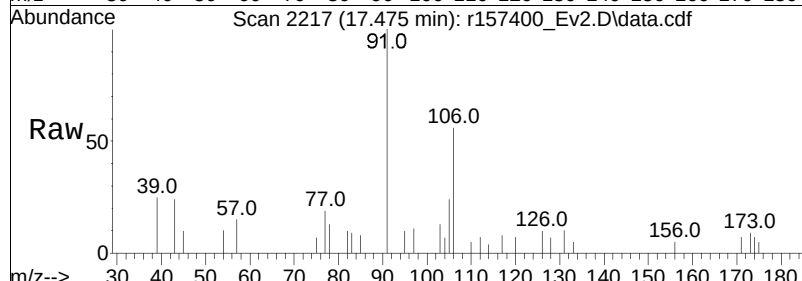
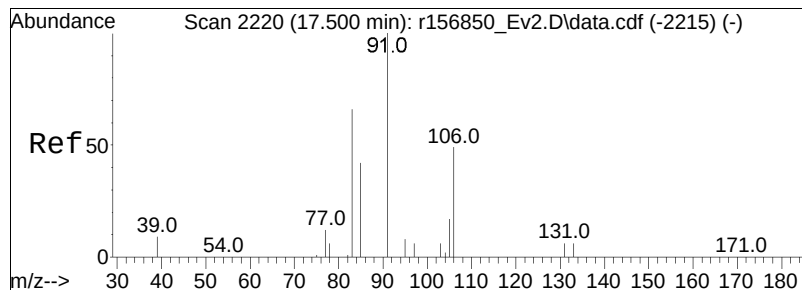




#61
 m+p-xylene
 Concen: 0.06 ppbV
 RT: 17.075 min Scan# 2169
 Delta R.T. -0.033 min
 Lab File: r157400_Ev2.D
 Acq: 1 May 2018 7:45 PM

Tgt Ion:	91	106	Ratio	Lower	Upper
91	100				
106	54.2		41.4	62.2	





#65

o-xylene

Concen: 0.03 ppbV

RT: 17.475 min Scan# 2217

Delta R.T. -0.025 min

Lab File: r157400_Ev2.D

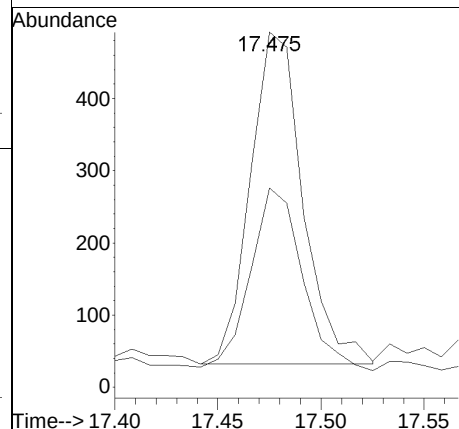
Acq: 1 May 2018 7:45 PM

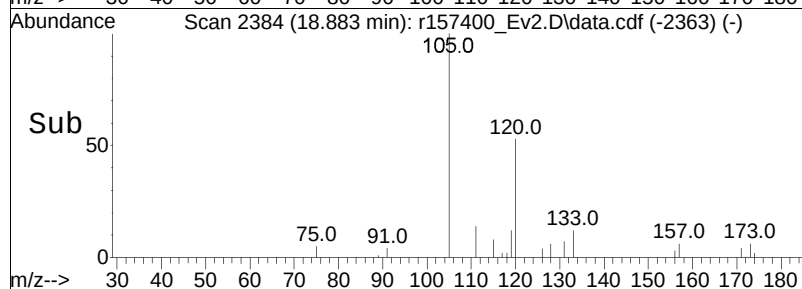
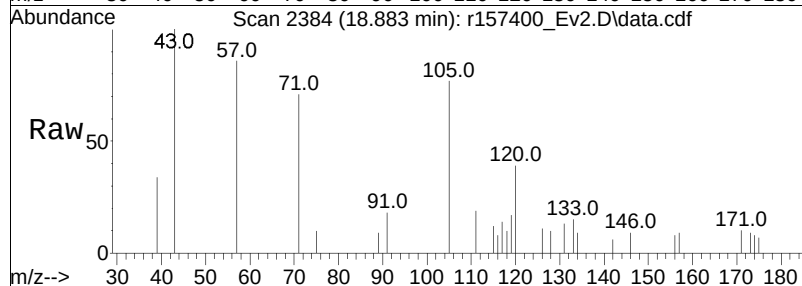
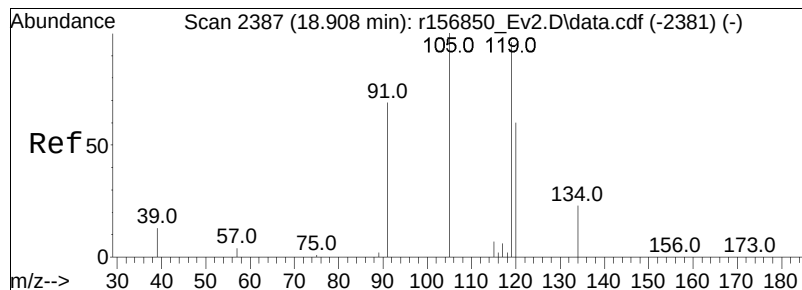
Tgt Ion: 91 Resp: 817

Ion Ratio Lower Upper

91 100

106 56.1 39.5 59.3





#73

1,2,4-trimethylbenzene

Concen: 0.01 ppbV

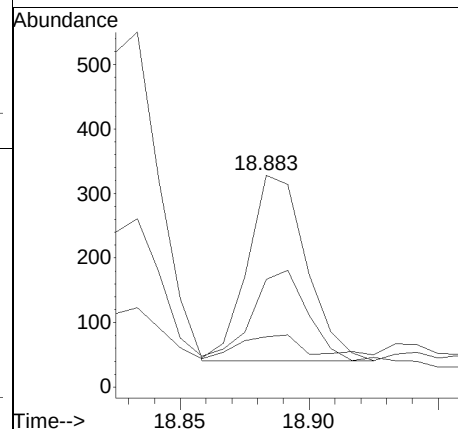
RT: 18.883 min Scan# 2384

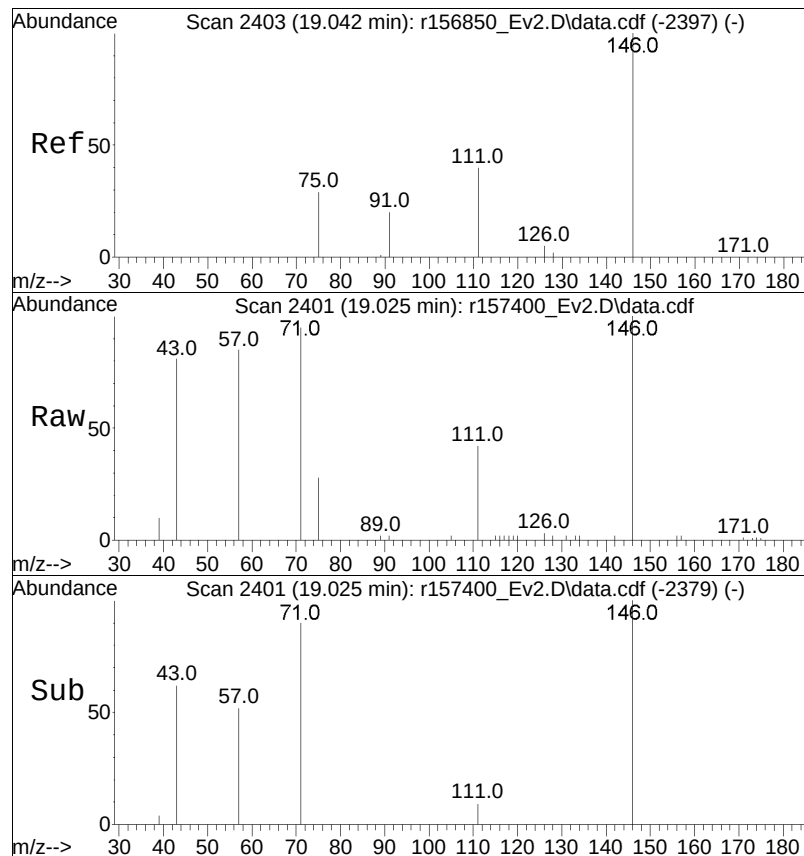
Delta R.T. -0.025 min

Lab File: r157400_Ev2.D

Acq: 1 May 2018 7:45 PM

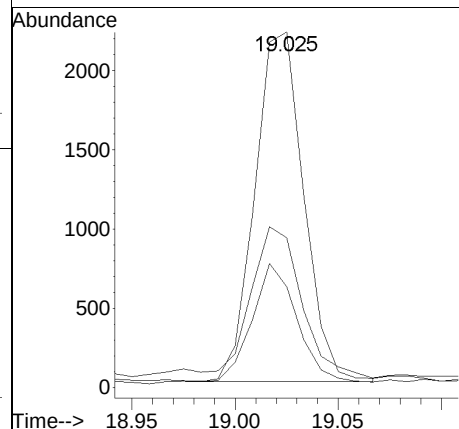
Tgt	Ion:105	Resp:	454
Ion	Ratio	Lower	Upper
105	100		
120	50.9	48.4	72.6
91	23.8	55.4	83.0#





#75
 1,3-dichlorobenzene
 Concen: 0.17 ppbV
 RT: 19.025 min Scan# 2401
 Delta R.T. -0.017 min
 Lab File: r157400_Ev2.D
 Acq: 1 May 2018 7:45 PM

Tgt	Ion:146	Resp:	3635
Ion	Ratio	Lower	Upper
146	100		
111	42.1	32.3	48.5
75	28.3	23.4	35.2



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab15\QMethod	: TSIM180404.M
Data File	: r157400_Ev2.D	Operator : AIRLAB15:MB
Date Inj'd	: 5/1/2018 7:45 PM	Instrument :
Sample	: WG1111464-5D,3,25,250	Quant Date : 5/2/2018 6:06 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
 Data File : R159132.D
 Acq On : 3 May 2018 1:04 am
 Operator : AIRPIAN01:MB
 Sample : WG1111916-5,3,125,250
 Misc : WG1111916,ICAL14483
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 03 08:25:12 2018
 Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 27 12:44:53 2018
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR1\2018\180502SIM\R159114.D
 Sub List : SCA26 - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.181	49	142503	10.000	ppbV	# 0.00
Standard Area = 171514			Recovery =		83.09%	
33) 1,4-difluorobenzene	12.401	114	210019	10.000	ppbV	0.00
Standard Area = 248964			Recovery =		84.36%	
51) chlorobenzene-D5	16.822	54	51264	10.000	ppbV	0.00
Standard Area = 64233			Recovery =		79.81%	

System Monitoring Compounds

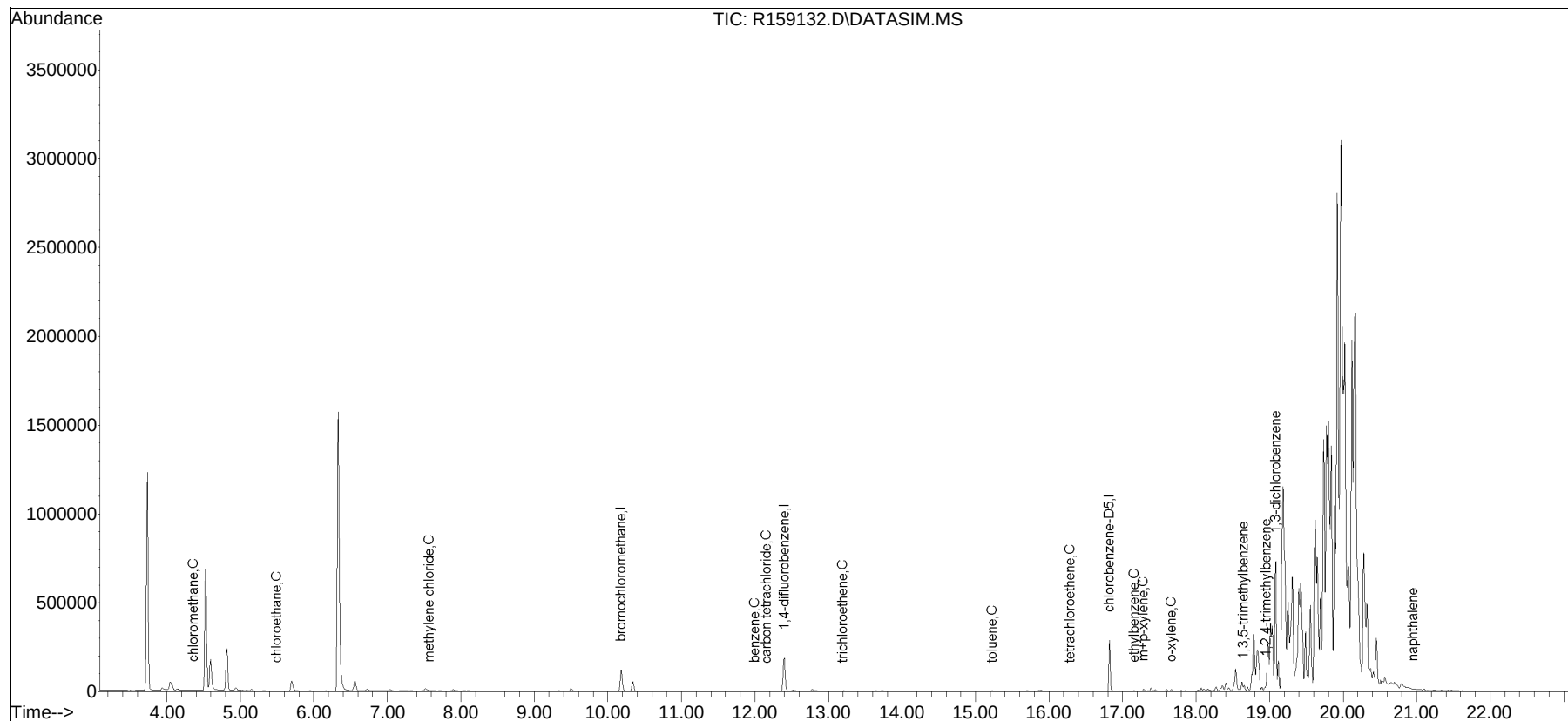
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) chloromethane	4.364	50	2173M4	0.264	ppbV	
6) vinyl chloride	4.677		0	N.D.		
9) chloroethane	5.496	64	71	0.018	ppbV #	1
17) 1,1-dichloroethene	7.404		0	N.D.		
19) methylene chloride	7.572	49	731M3	0.066	ppbV	
23) trans-1,2-dichloroethene	8.737		0	N.D.		
24) 1,1-dichloroethane	8.990		0	N.D.		
25) MTBE	9.072		0	N.D.		
28) cis-1,2-dichloroethene	9.988		0	N.D.		
32) 1,2-dichloroethane	11.199		0	N.D.		
36) 1,1,1-trichloroethane	11.466		0	N.D.		
37) benzene	11.994	78	3085	0.129	ppbV	93
38) carbon tetrachloride	12.157	117	621	0.041	ppbV #	93
41) 1,2-dichloropropane	12.913		0	N.D.		
44) trichloroethene	13.193	130	291	0.034	ppbV	95
52) toluene	15.231	91	2717	0.119	ppbV	98
57) tetrachloroethene	16.283	166	427	0.048	ppbV	92
59) chlorobenzene	16.857		0	N.D.		
60) ethylbenzene	17.156	91	2886	0.098	ppbV	97
61) m+p-xylene	17.285	91	9441	0.413	ppbV	98
65) o-xylene	17.663	91	3994	0.166	ppbV	92
71) 1,3,5-trimethylbenzene	18.643	105	1350	0.055	ppbV #	86
73) 1,2,4-trimethylbenzene	18.951	105	4634	0.192	ppbV #	71
75) 1,3-dichlorobenzene	19.084	146	3635	0.227	ppbV #	71
79) 1,2-dichlorobenzene	19.392		0	N.D.		
82) naphthalene	20.948	128	1954M6	0.068	ppbV	

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

Sub List : SCA26 - .ics\Data\AIR1\2018\180502SIM\R159114.D

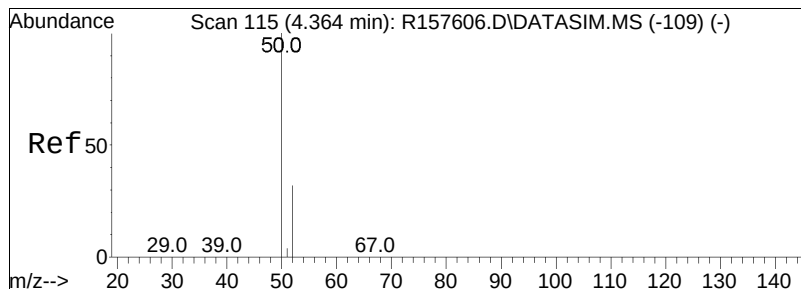
Data Path : 0:\Forensics\Data\AIR1\2018\180502SIM\
Data File : R159132.D
Acq On : 3 May 2018 1:04 am
Operator : AIRPIAN01:MB
Sample : WG1111916-5,3,125,250
Misc : WG1111916,ICAL14483
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 03 08:25:12 2018
Quant Method : 0:\Forensics\Data\AIR1\2018\180502SIM\TSIM180226.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 27 12:44:53 2018
Response via : Initial Calibration



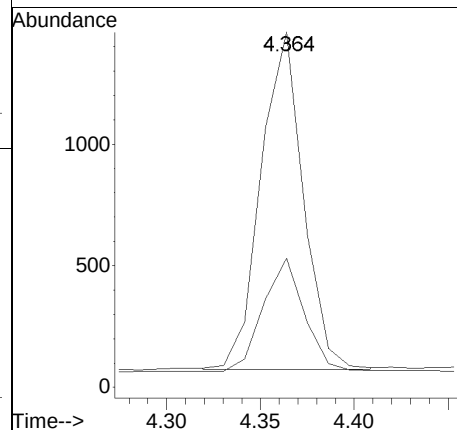
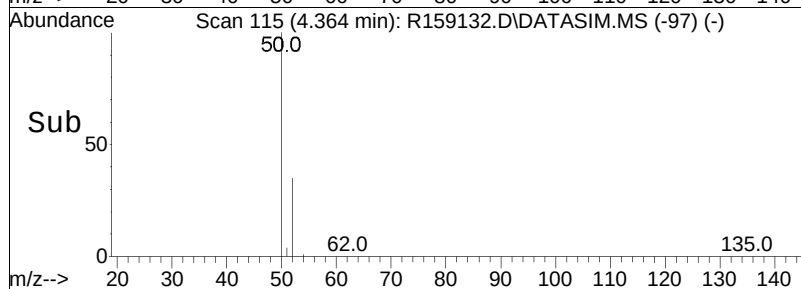
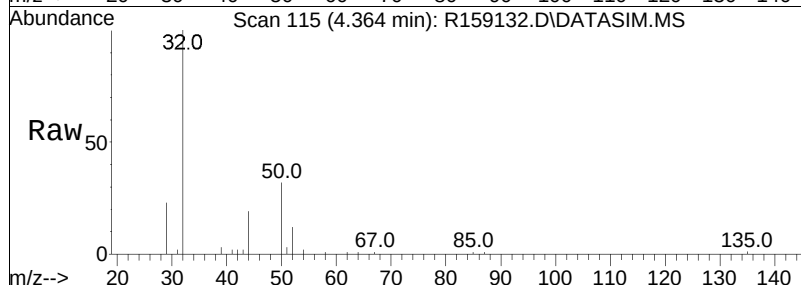
TSIM180226.M Thu May 03 08:28:12 2018

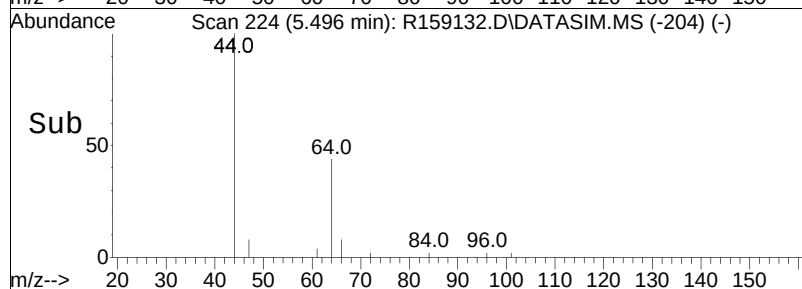
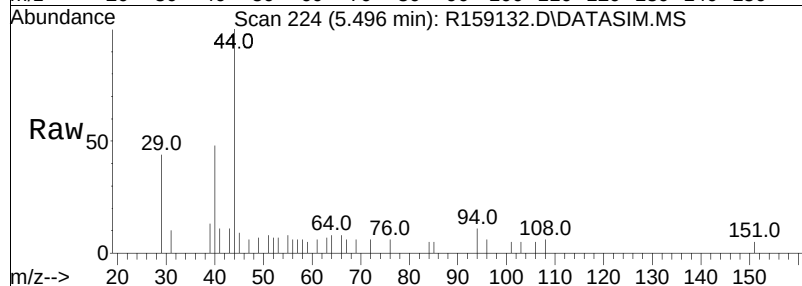
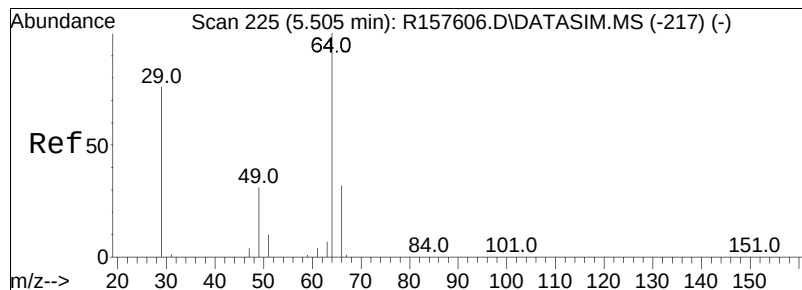
Page: 2



#4
 chloromethane
 Concen: 0.26 ppbV m
 RT: 4.364 min Scan# 115
 Delta R.T. -0.000 min
 Lab File: R159132.D
 Acq: 3 May 2018 1:04 am

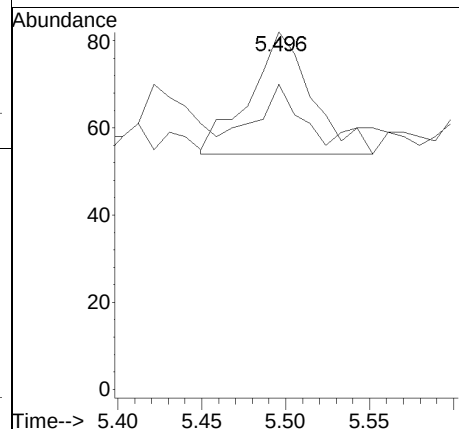
Tgt Ion: 50 Resp: 2173
 Ion Ratio Lower Upper
 50 100
 52 36.3 25.5 38.3

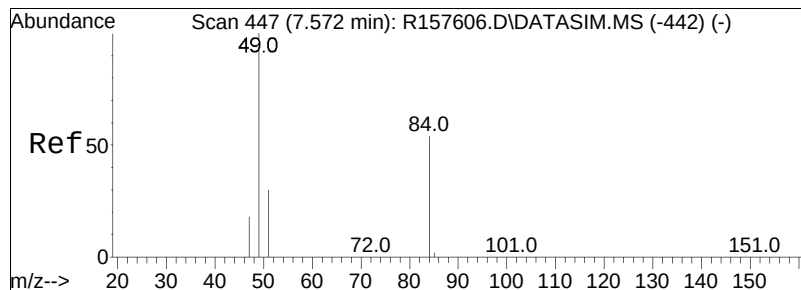




#9
chloroethane
Concen: 0.02 ppbV
RT: 5.496 min Scan# 224
Delta R.T. -0.009 min
Lab File: R159132.D
Acq: 3 May 2018 1:04 am

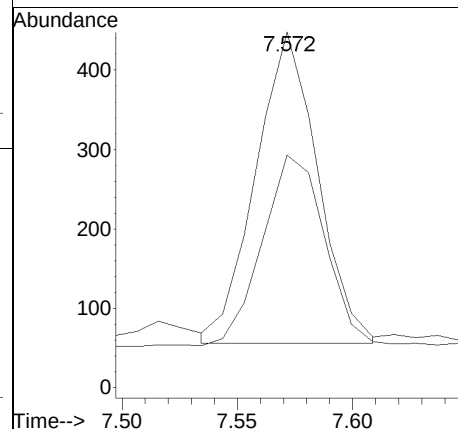
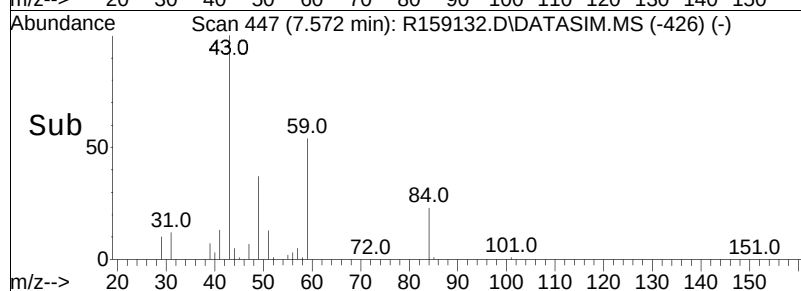
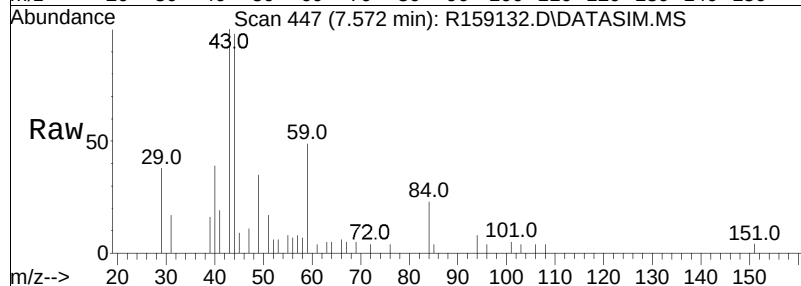
Tgt Ion	Ratio	Lower	Upper
64	100		
49	85.4	24.8	37.2#

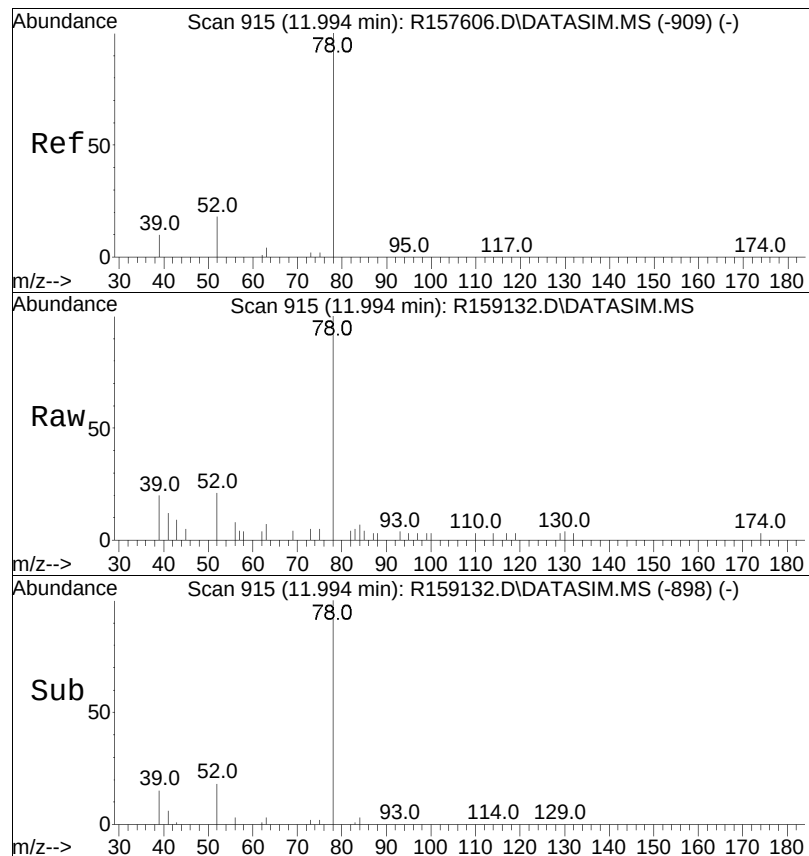




#19
 methylene chloride
 Concen: 0.07 ppbV m
 RT: 7.572 min Scan# 447
 Delta R.T. -0.000 min
 Lab File: R159132.D
 Acq: 3 May 2018 1:04 am

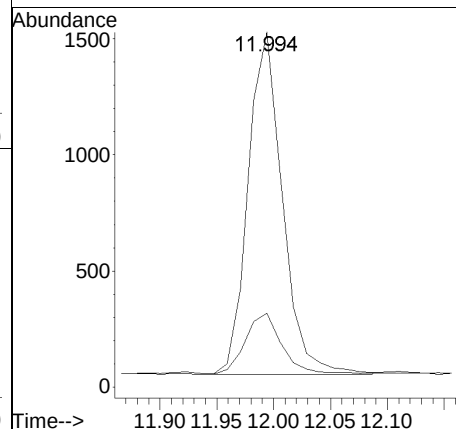
Tgt Ion	Ratio	Lower	Upper
49	100		
84	65.4	42.9	64.3#

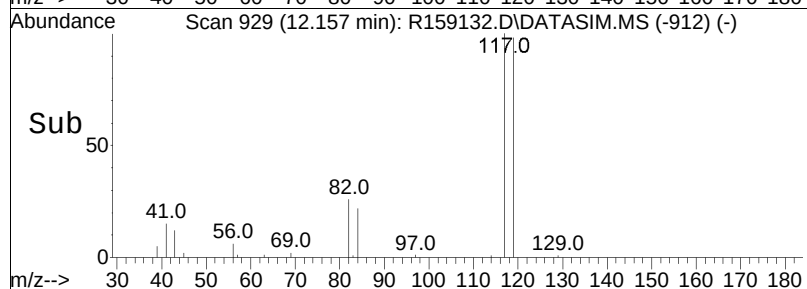
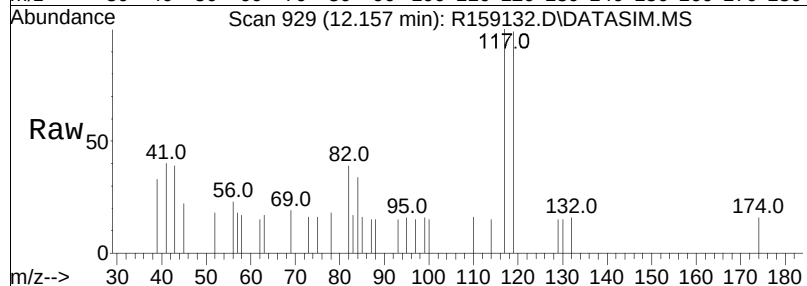
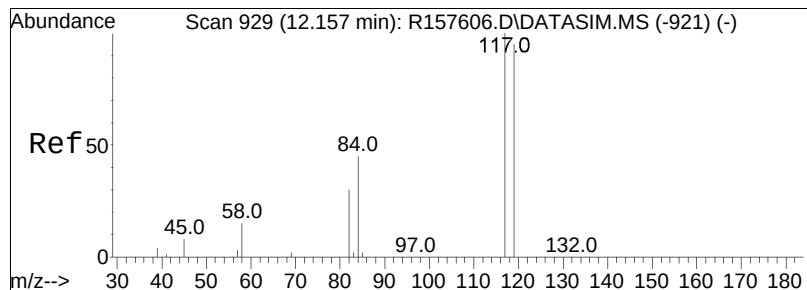




#37
benzene
Concen: 0.13 ppbV
RT: 11.994 min Scan# 915
Delta R.T. -0.000 min
Lab File: R159132.D
Acq: 3 May 2018 1:04 am

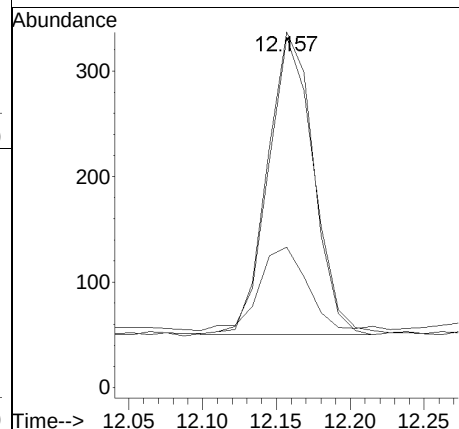
Tgt	Ion	Resp	Lower	Upper
78	100	3085		
52	20.9	14.3	21.5	

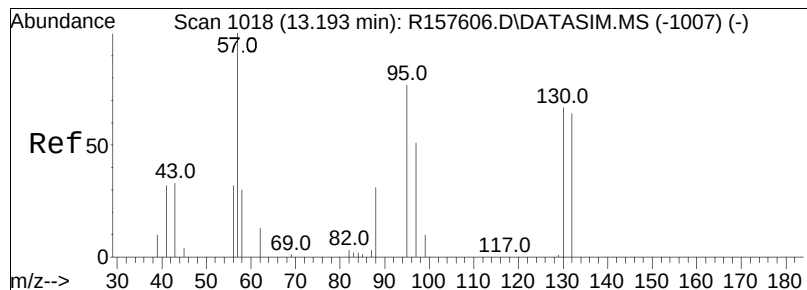




#38
carbon tetrachloride
Concen: 0.04 ppbV
RT: 12.157 min Scan# 929
Delta R.T. -0.000 min
Lab File: R159132.D
Acq: 3 May 2018 1:04 am

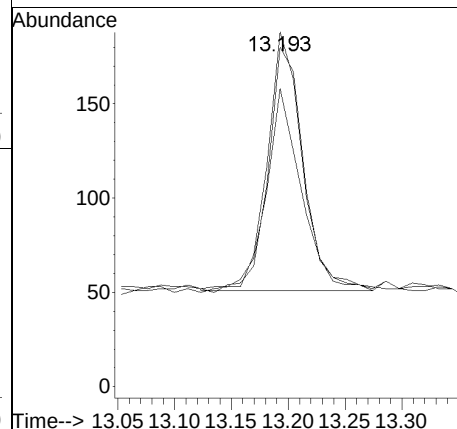
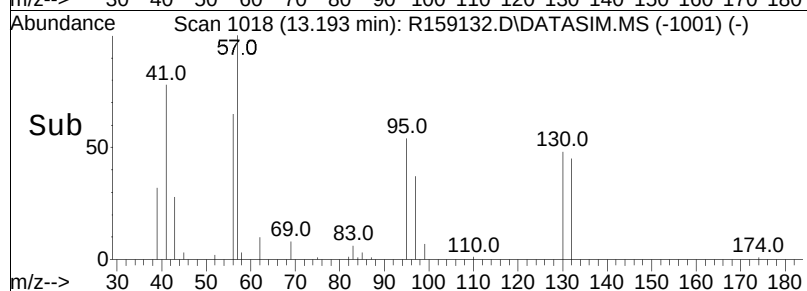
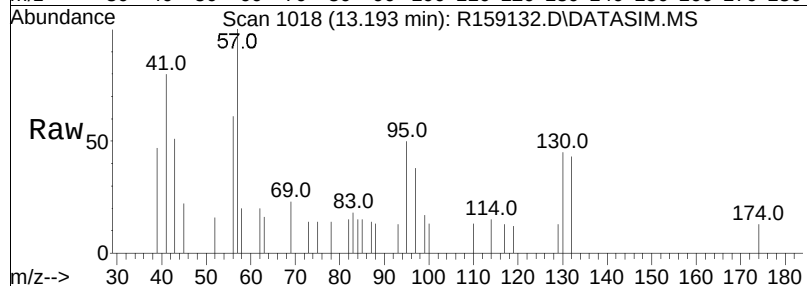
Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.5	75.8	113.8
82	39.5	23.9	35.9

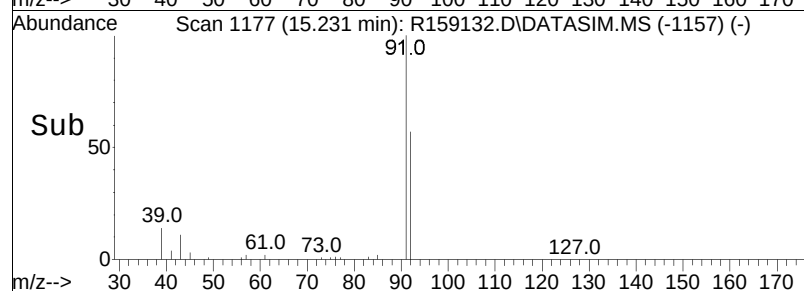
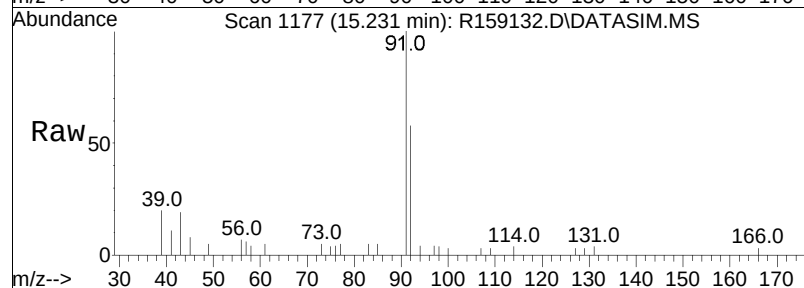
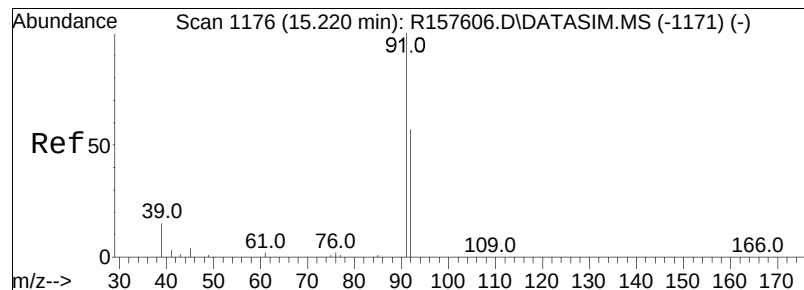




#44
trichloroethene
Concen: 0.03 ppbV
RT: 13.193 min Scan# 1018
Delta R.T. -0.000 min
Lab File: R159132.D
Acq: 3 May 2018 1:04 am

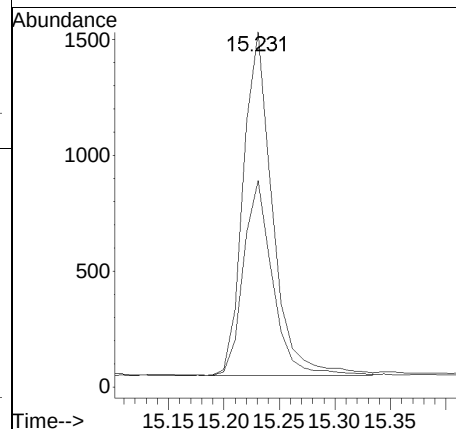
Tgt Ion	Ratio	Lower	Upper
130	100		
132	95.7	77.4	116.0
97	84.0	60.9	91.3

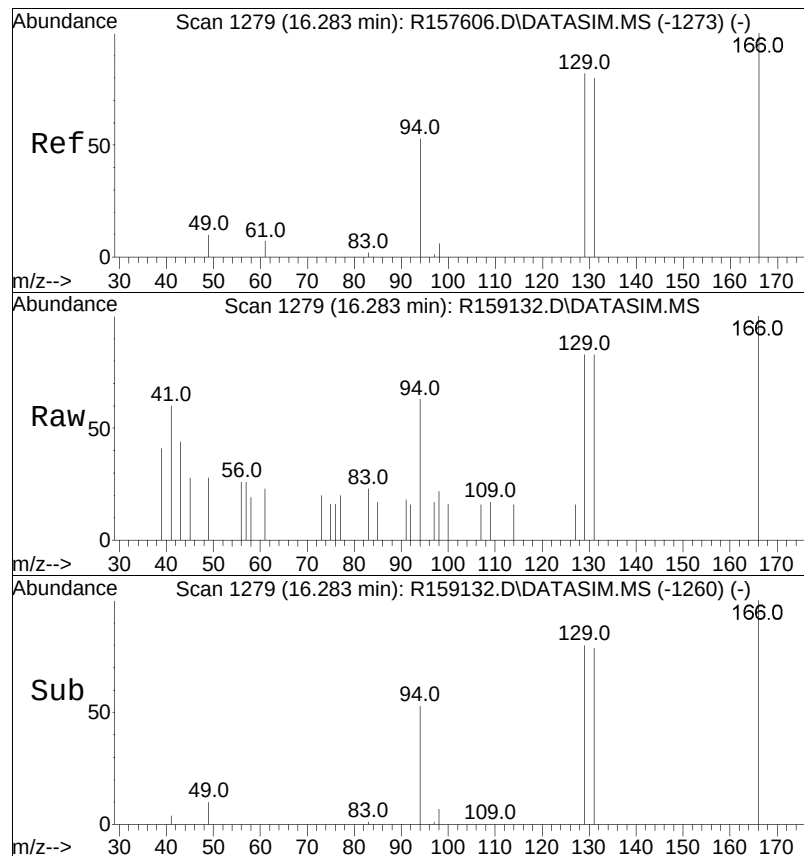




#52
toluene
Concen: 0.12 ppbV
RT: 15.231 min Scan# 1177
Delta R.T. 0.010 min
Lab File: R159132.D
Acq: 3 May 2018 1:04 am

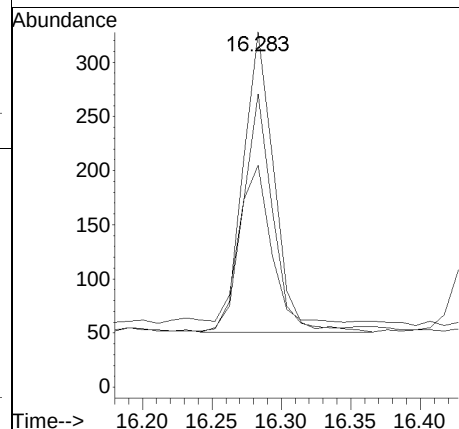
Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.2	45.7	68.5

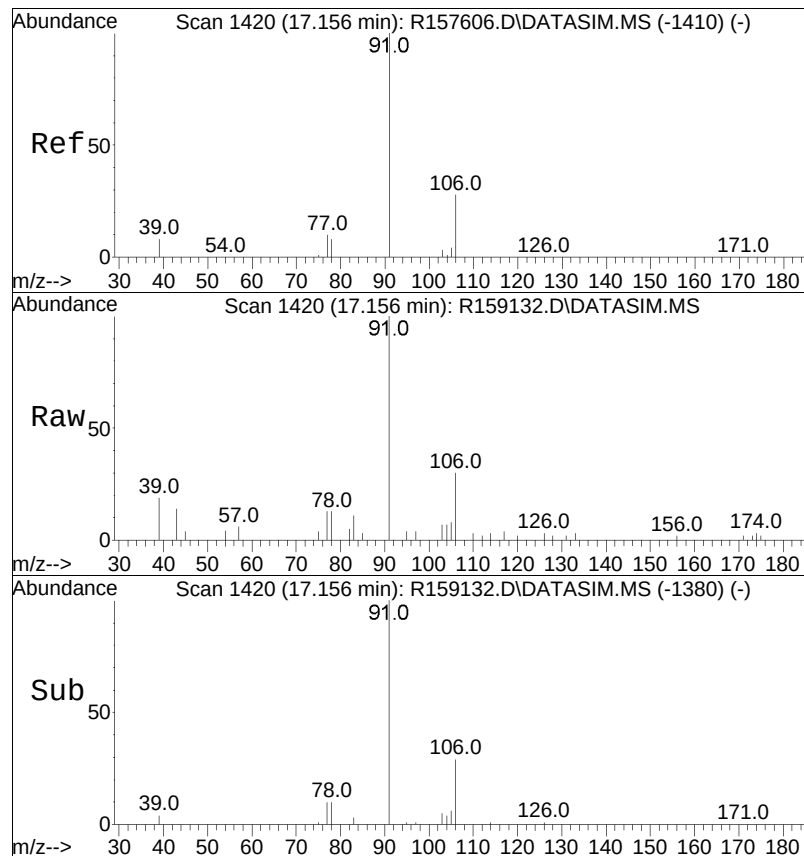




#57
 tetrachloroethene
 Concen: 0.05 ppbV
 RT: 16.283 min Scan# 1279
 Delta R.T. -0.000 min
 Lab File: R159132.D
 Acq: 3 May 2018 1:04 am

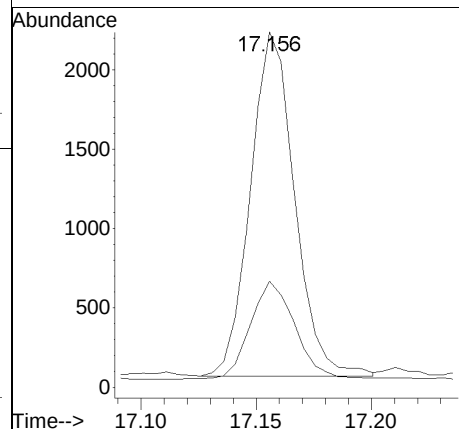
Tgt Ion	Ratio	Lower	Upper
166	100		
131	82.6	63.7	95.5
94	62.5	42.1	63.1

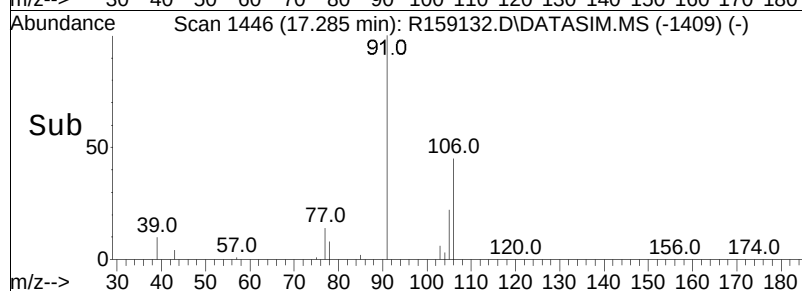
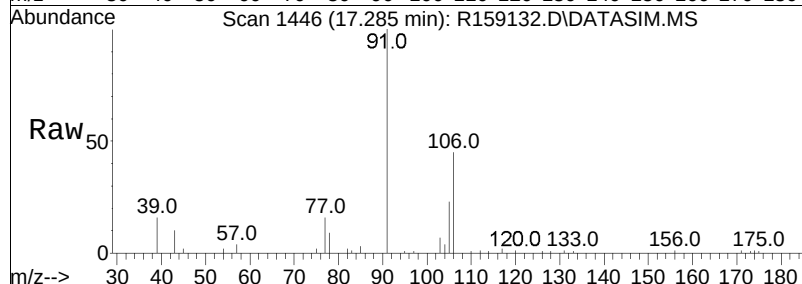
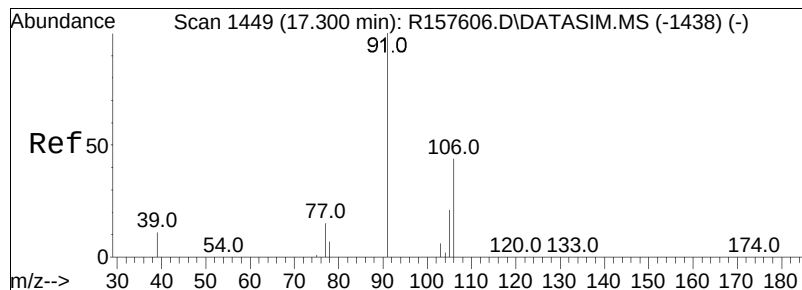




#60
ethylbenzene
Concen: 0.10 ppbV
RT: 17.156 min Scan# 1420
Delta R.T. -0.000 min
Lab File: R159132.D
Acq: 3 May 2018 1:04 am

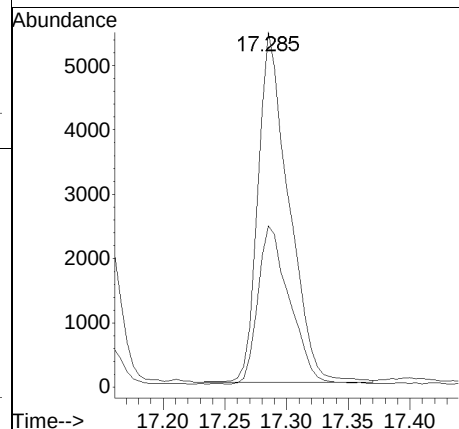
Tgt	Ion	Resp	Lower	Upper
91	100	2886		
106	29.9	22.6	34.0	

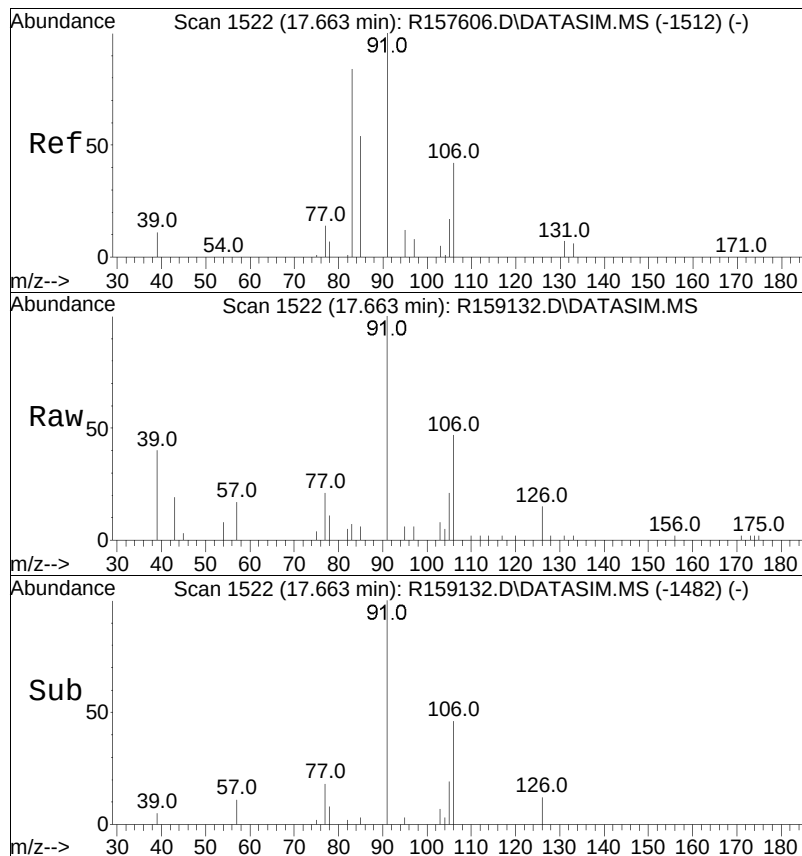




#61
 m+p-xylene
 Concen: 0.41 ppbV
 RT: 17.285 min Scan# 1446
 Delta R.T. -0.015 min
 Lab File: R159132.D
 Acq: 3 May 2018 1:04 am

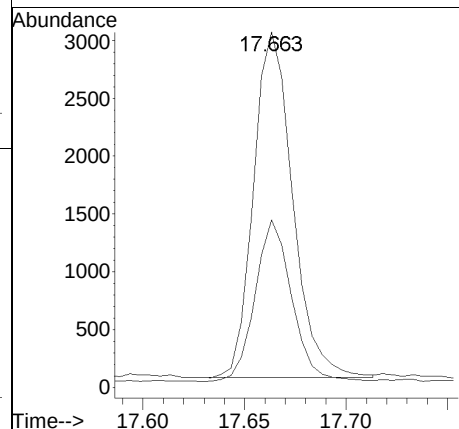
Tgt Ion	Ratio	Lower	Upper
91	100		
106	45.5	35.4	53.2

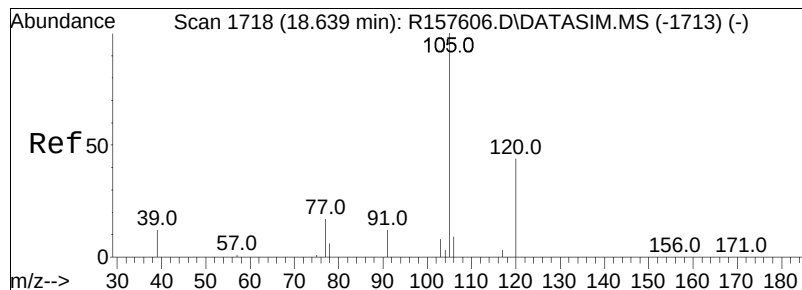




#65
o-xylene
Concen: 0.17 ppbV
RT: 17.663 min Scan# 1522
Delta R.T. -0.000 min
Lab File: R159132.D
Acq: 3 May 2018 1:04 am

Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.2	33.7	50.5





#71

1,3,5-trimethylbenzene

Concen: 0.05 ppbV

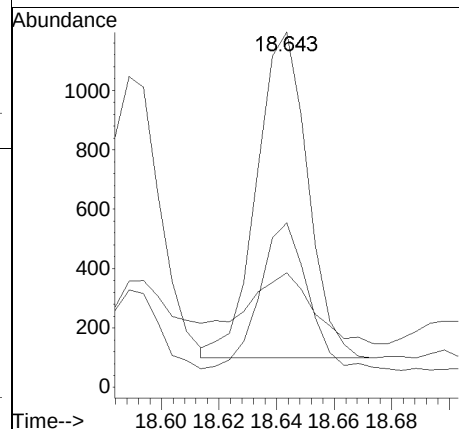
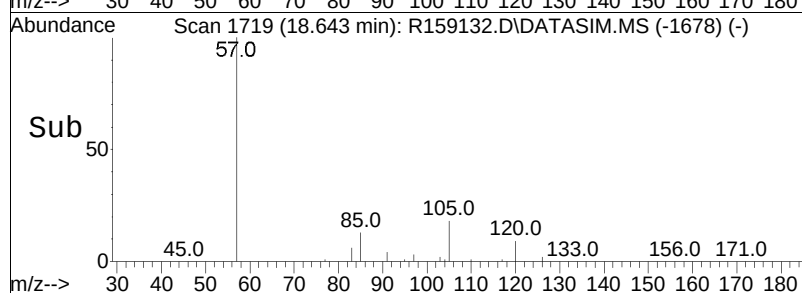
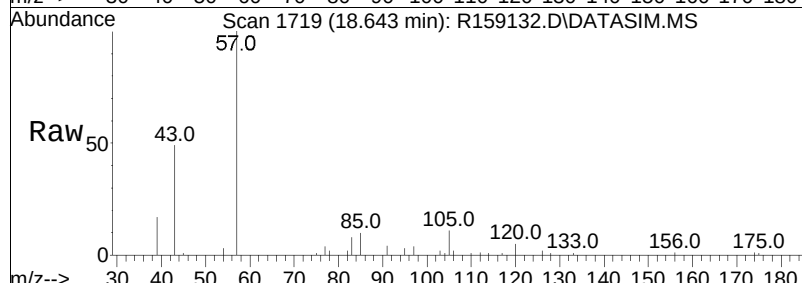
RT: 18.643 min Scan# 1719

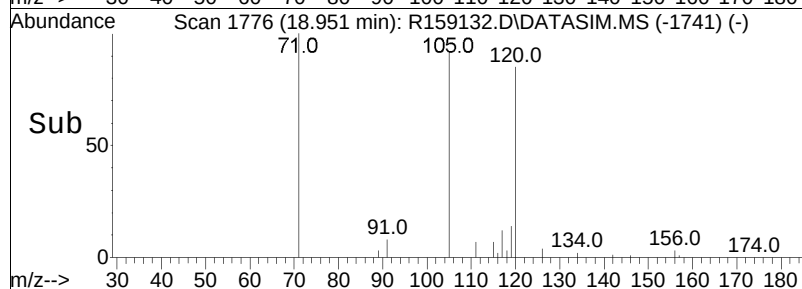
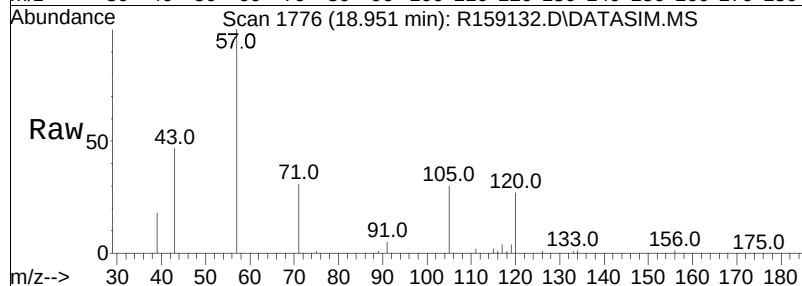
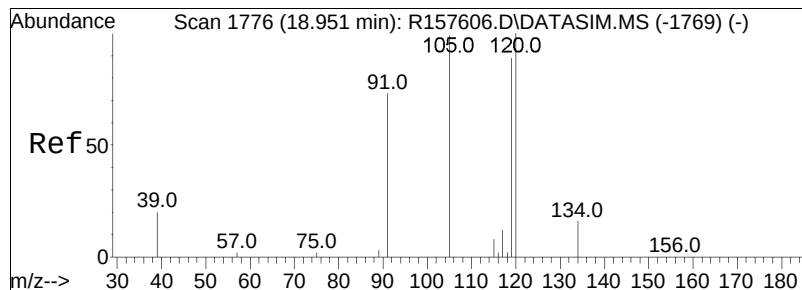
Delta R.T. 0.005 min

Lab File: R159132.D

Acq: 3 May 2018 1:04 am

Tgt Ion:	105	Resp:	1350
Ion Ratio	Lower	Upper	
105	100		
120	46.3	35.0	52.4
91	32.2	9.4	14.0#





#73

1,2,4-trimethylbenzene

Concen: 0.19 ppbV

RT: 18.951 min Scan# 1776

Delta R.T. -0.000 min

Lab File: R159132.D

Acq: 3 May 2018 1:04 am

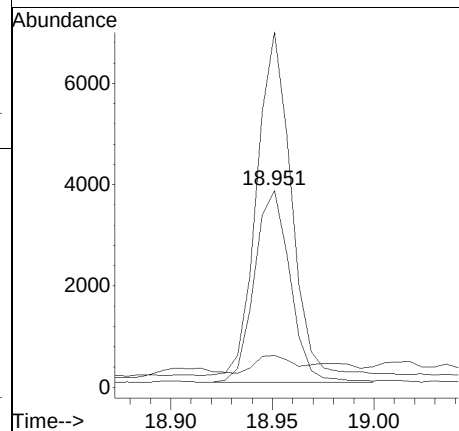
Tgt Ion:105 Resp: 4634

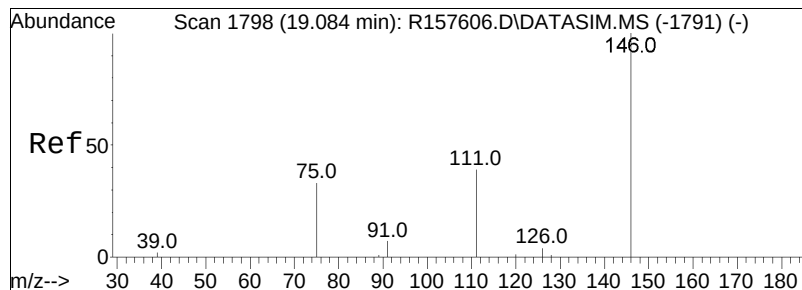
Ion Ratio Lower Upper

105 100

120 180.3 161.6 242.4

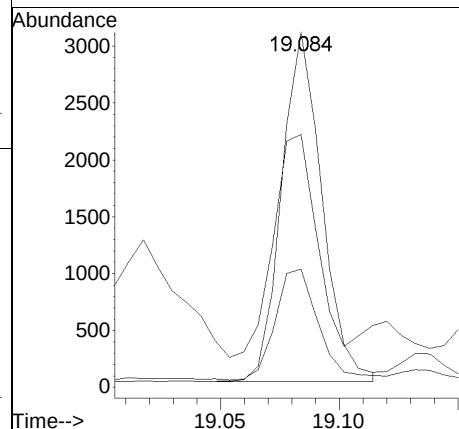
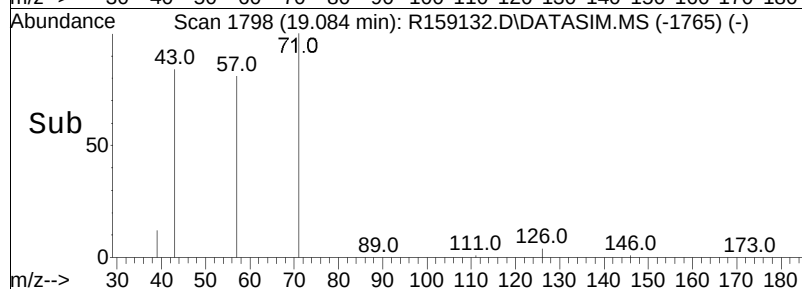
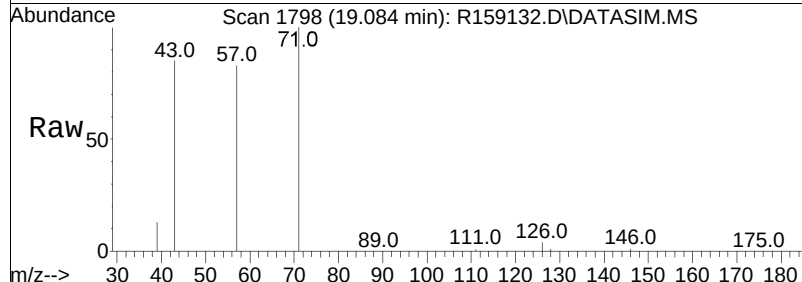
91 16.3 59.2 88.8#

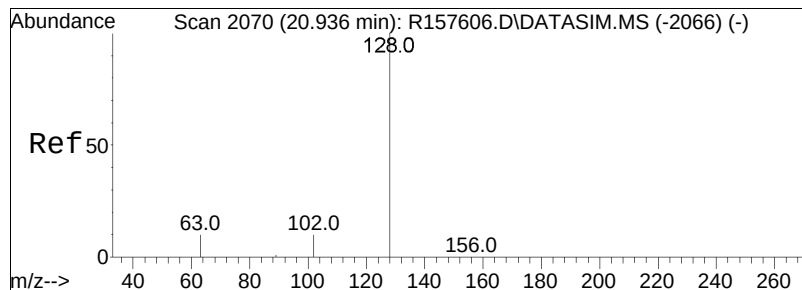




#75
 1,3-dichlorobenzene
 Concen: 0.23 ppbV
 RT: 19.084 min Scan# 1798
 Delta R.T. -0.000 min
 Lab File: R159132.D
 Acq: 3 May 2018 1:04 am

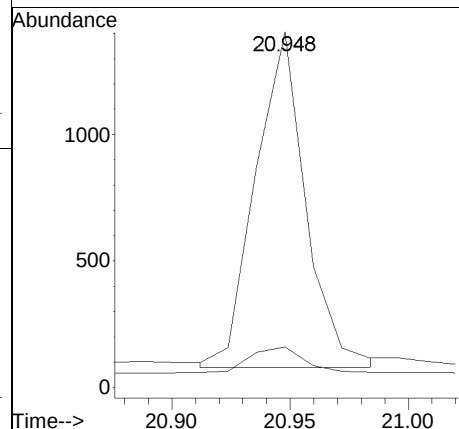
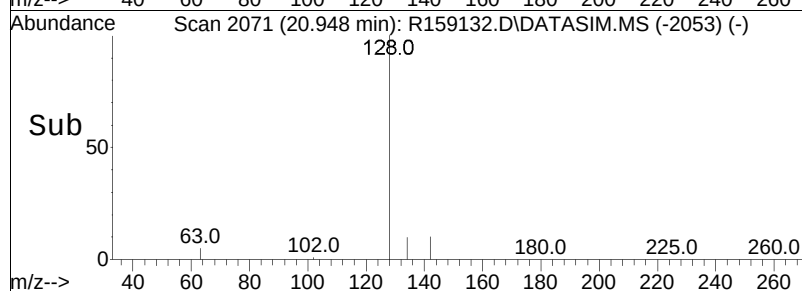
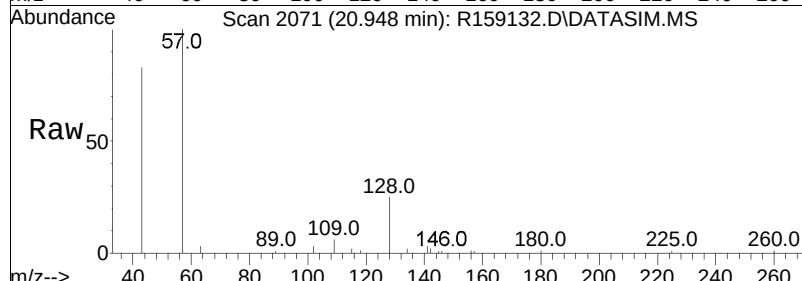
Tgt Ion	Ratio	Lower	Upper
146	100		
111	71.2	31.5	47.3#
75	33.3	26.2	39.4





#82
naphthalene
Concen: 0.07 ppbV m
RT: 20.948 min Scan# 2071
Delta R.T. 0.012 min
Lab File: R159132.D
Acq: 3 May 2018 1:04 am

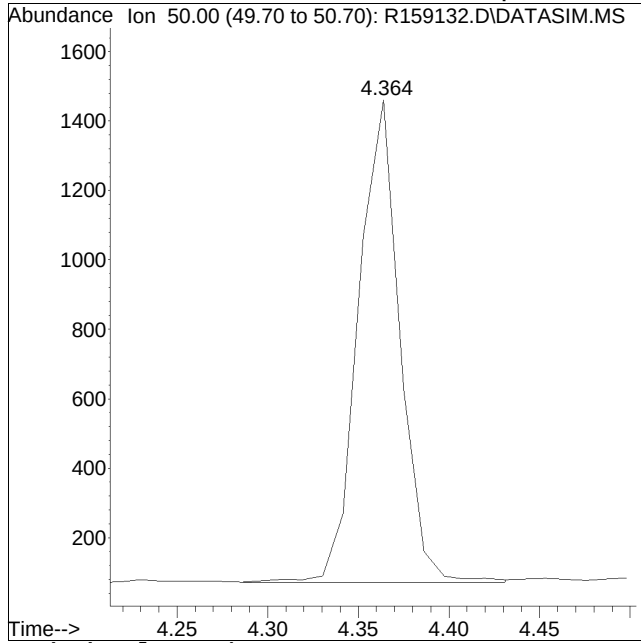
Tgt Ion	Ratio	Lower	Upper
128	100		
102	11.4	8.3	12.5



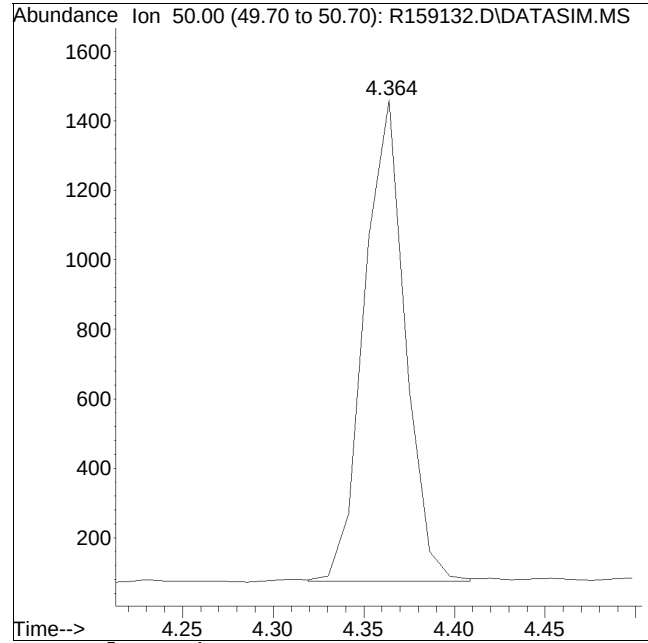
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159132.D Operator : AIRPIAN01:MB
Date Inj'd : 5/3/2018 1:04 am Instrument : Air Piano 1
Sample : WG1111916-5,3,125,250 Quant Date : 5/3/2018 6:46 am

Compound #4: chloromethane



Original Peak Response = 2214



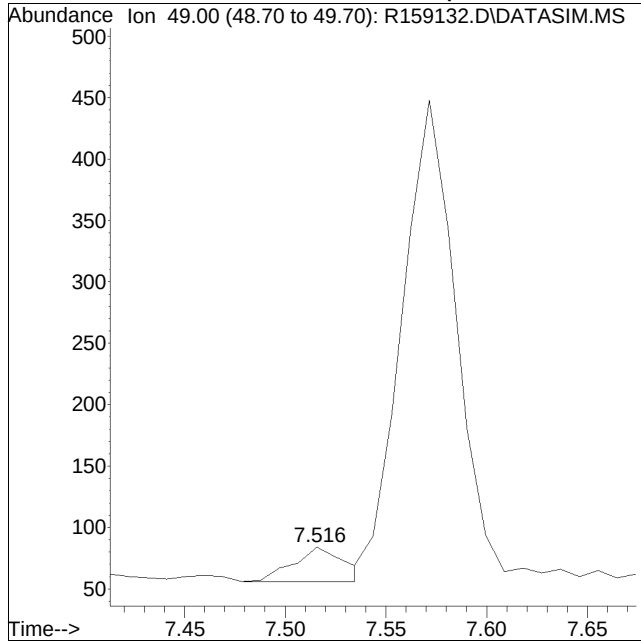
Manual Peak Response = 2173 M4

M4 = Poor automated baseline construction.

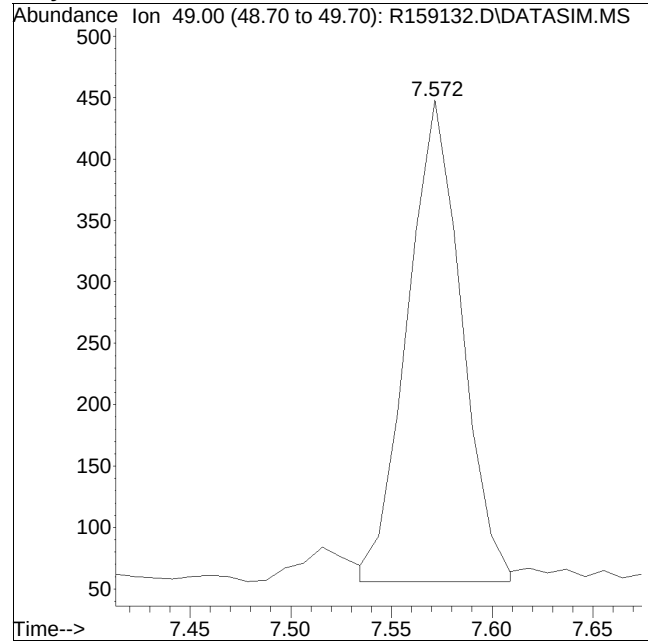
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159132.D Operator : AIRPIAN01:MB
Date Inj'd : 5/3/2018 1:04 am Instrument : Air Piano 1
Sample : WG1111916-5,3,125,250 Quant Date : 5/3/2018 6:46 am

Compound #19: methylene chloride



Original Peak Response = 49



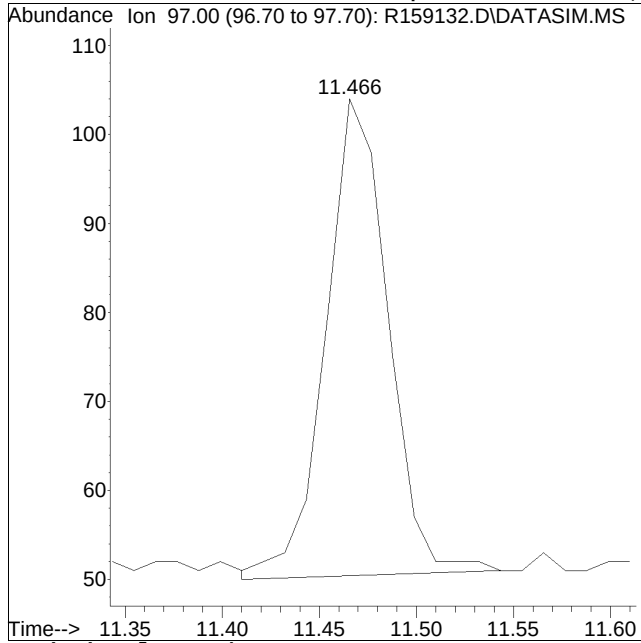
Manual Peak Response = 731 M3

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.

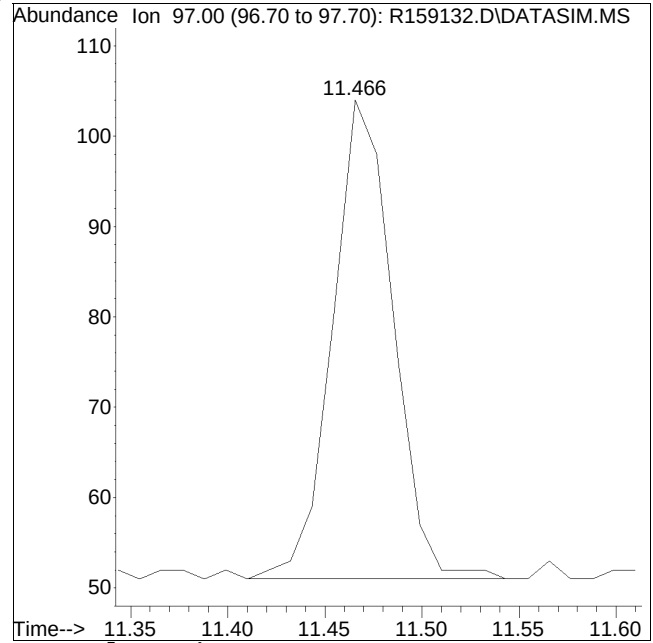
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159132.D Operator : AIRPIAN01:MB
Date Inj'd : 5/3/2018 1:04 am Instrument : Air Piano 1
Sample : WG1111916-5,3,125,250 Quant Date : 5/3/2018 6:46 am

Compound #36: 1,1,1-trichloroethane



Original Peak Response = 119



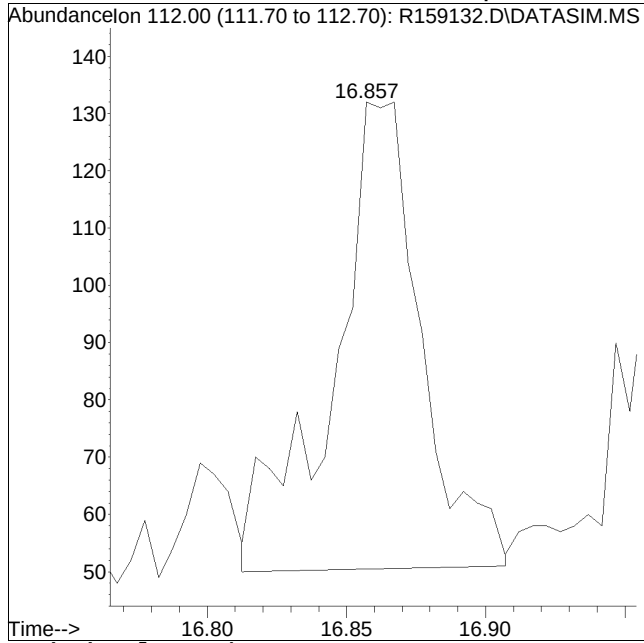
Manual Peak Response = 115 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

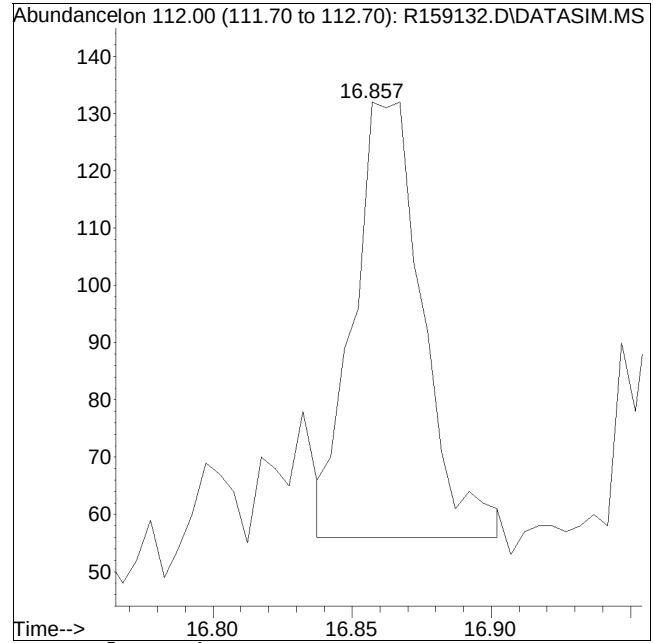
Data Path : 0:\Forensics\Data\AIR1\2018QMethod : TSIM180226.M
Data File : R159132.D Operator : AIRPIAN01:MB
Date Inj'd : 5/3/2018 1:04 am Instrument : Air Piano 1
Sample : WG1111916-5,3,125,250 Quant Date : 5/3/2018 6:46 am

Compound #59: chlorobenzene



Original Peak Response = 181

M4 = Poor automated baseline construction.

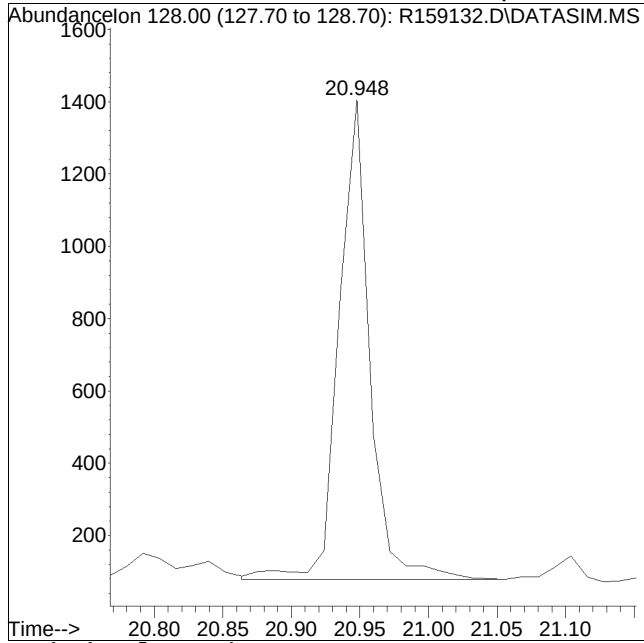


Manual Peak Response = 130 M4

Manual Integration/Negative Proof Report

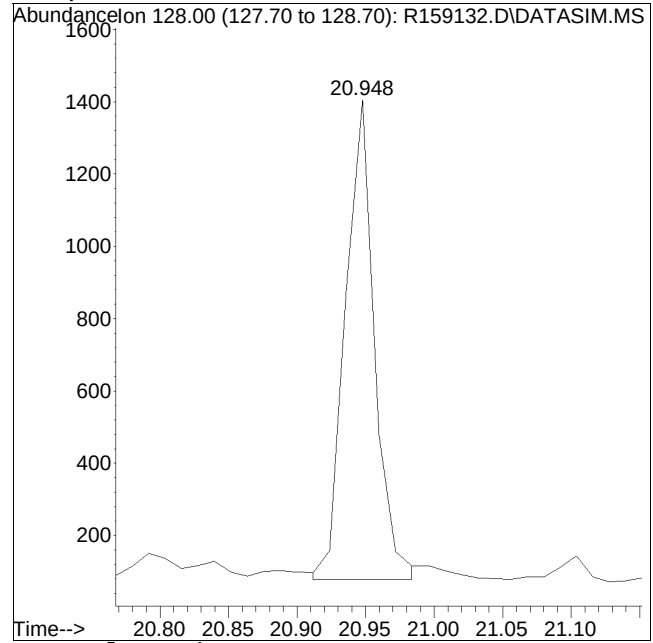
Data Path : 0:\Forensics\Data\AIR1\201806 Method : TSIM180226.M
Data File : R159132.D Operator : AIRPIAN01:MB
Date Inj'd : 5/3/2018 1:04 am Instrument : Air Piano 1
Sample : WG1111916-5,3,125,250 Quant Date : 5/3/2018 6:46 am

Compound #82: naphthalene



Original Peak Response = 2073

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1954 M6

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

May 03 2018, 01:49 pm

Work Group: WG1111464 for Department: 3 GC/MS

Created: 01-MAY-18 Due: Operator: MB

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1814893-01	SV-1-20180426	S T015-SIM	SOIL_VAPOR	DONE	U	0526	0503	S0	Can-6
L1814893-02	SV-2-20180426	S T015-SIM	SOIL_VAPOR	DONE	U	0526	0503	S0	Can-6
L1814893-03	SV-3-20180426	S T015-SIM	SOIL_VAPOR	DONE	U	0526	0503	S0	Can-6
L1814893-04	AA-1-20180426	S T015-SIM	AIR	DONE	U	0526	0503	S0	Can-6
L1815125-01	IA-1	S T015-SIM	AIR	DONE	U	0526	0504	S0	Can-2.7
L1815200-02	IA-DCF	S T015-SIM	AIR	DONE	U	0527	0503	S0	Can-2.7
L1815200-04	IA-DCR	S T015-SIM	AIR	DONE	U	0527	0503	S0	Can-2.7
L1815200-10	IA-YOGURT	S T015-SIM	AIR	DONE	U	0527	0503	S0	Can-2.7
L1815200-11	AMBIENT	S T015-SIM	AIR	DONE	U	0527	0503	S0	Can-2.7
WG1111464-1	MS BFB Tune Standard	S T015-SIM	SOIL_VAPOR	DONE	U				
WG1111464-1	MS BFB Tune Standard	S T015-SIM	AIR	DONE	U				
WG1111464-2	Continuing Calibrati	S T015-SIM	SOIL_VAPOR	DONE	U				
WG1111464-2	Continuing Calibrati	S T015-SIM	AIR	DONE	U				
WG1111464-3	Laboratory Control S	S T015-SIM	SOIL_VAPOR	DONE	U				
WG1111464-3	Laboratory Control S	S T015-SIM	AIR	DONE	U				
WG1111464-4	Laboratory Method Bl	S T015-SIM	SOIL_VAPOR	DONE	U				
WG1111464-4	Laboratory Method Bl	S T015-SIM	AIR	DONE	U				
WG1111464-5	Duplicate Sample	S T015-SIM	AIR	DONE	U				
WG1111464-5	Duplicate Sample	S T015-SIM	SOIL_VAPOR	DONE	U				
Comments:									
WG1111464-5	L1814893-01								

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

May 03 2018, 01:49 pm

Work Group: WG1111916 for Department: 3 GC/MS

Created: 02-MAY-18 Due: Operator: ry

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1815122-01	SV-7-20180426	S T015-SIM	SOIL_VAPOR	DONE	U	0526	0504	S0	Can-6
L1815122-02	SV-8-20180426	S T015-SIM	SOIL_VAPOR	DONE	U	0526	0504	S0	Can-6
L1815200-01	VS-DCF	S T015-SIM	SOIL_VAPOR	DONE	U	0527	0503	S0	Can-2.7
L1815200-03	VS-MRE	S T015-SIM	SOIL_VAPOR	DONE	U	0527	0503	S0	Can-2.7
L1815200-05	VS-DCR	S T015-SIM	SOIL_VAPOR	DONE	U	0527	0503	S0	Can-2.7
L1815200-06	VS-FENCE	S T015-SIM	SOIL_VAPOR	DONE	U	0527	0503	S0	Can-2.7
L1815200-07	IA-WINE	S T015-SIM	AIR	DONE	U	0527	0503	S0	Can-2.7
L1815200-08	VS-VAC	S T015-SIM	SOIL_VAPOR	DONE	U	0527	0503	S0	Can-2.7
L1815200-09	VS-BOOK	S T015-SIM	SOIL_VAPOR	DONE	U	0527	0503	S0	Can-2.7
WG1111916-1	MS BFB Tune Standard	S T015-SIM	AIR	DONE	U				
WG1111916-1	MS BFB Tune Standard	S T015-SIM	SOIL_VAPOR	DONE	U				
WG1111916-2	Continuing Calibrati	S T015-SIM	SOIL_VAPOR	DONE	U				
WG1111916-2	Continuing Calibrati	S T015-SIM	AIR	DONE	U				
WG1111916-3	Laboratory Control S	S T015-SIM	SOIL_VAPOR	DONE	U				
WG1111916-3	Laboratory Control S	S T015-SIM	AIR	DONE	U				
WG1111916-4	Laboratory Method Bl	S T015-SIM	AIR	DONE	U				
WG1111916-4	Laboratory Method Bl	S T015-SIM	SOIL_VAPOR	DONE	U				
WG1111916-5	Duplicate Sample	S T015-SIM	AIR	DONE	U				
WG1111916-5	Duplicate Sample	S T015-SIM	SOIL_VAPOR	DONE	U				
Comments:									
WG1111916-5	L1815122-01								

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airpiano 1

Internal Standard/Surrogate IDs: SS17-030 / SS17-031

Date: 02/26/18

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: AR / MB

Sequence File Name: 180226.S

SIM ICAL#	PIANO ICAL #	Full Scan ICAL#		TO12 ICAL# 11601	APH ICAL#14476		
AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/s ublist	Leak Check Pass ?
4	LABAIR-01	TO15_SFS	R157596	250ml			N/A
4	LABAIR-02	TO15_SFS	R157597	250ml			N/A
4	LABAIR-03	TO15_SFS	R157598	250ml			N/A
1	TA1022601	TO15_SFS	R157599	250ml	TUNE		N/A
5	ITO15-SIMSTD0.02	TO15_SFS	R157600	SS18-001D 50ML 0.02	SIM ONLY		N/A
5	ITO15-SIMSTD0.04	TO15_SFS	R157601	SS18-001D 100ML 0.04	SIM ONLY		N/A
5	ITO15-SIMSTD0.1	TO15_SFS	R157602	SS18-001D 250ML 0.1	SIM ONLY		N/A
6	ITO15-SIMSTD0.2	TO15_SFS	R157603	SS18-001C 50ML 0.2			N/A
6	ITO15-SIMSTD0.5	TO15_SFS	R157604	SS18-001C 125ML 0.5			N/A
6	ITO15-SIMSTD1.0	TO15_SFS	R157605	SS18-001C 250ML 1.0			N/A
7	ITO15-SIMSTD5.0	TO15_SFS	R157606	SS18-0017B1 125ML 5.0			N/A
7	ITO15-SIMSTD10.0	TO15_SFS	R157607	SS18-001B1 250ML 10.0			N/A
8	ITO15-SIMSTD20.0	TO15_SFS	R157608	SS18-001A 50ML 20.0			N/A
8	ITO15-SIMSTD50.0	TO15_SFS	R157609	SS18-001A 125ML 50.0			N/A
8	ITO15-LLSTD100.0	TO15_SFS	R157610	SS18-001A 250ML 100.0	FULL SCAN ONLY		N/A
1	BA1022601	TO15_SFS	R157611	250ml			N/A
		Pause					
1	BA1022602	TO15_SFS	R157612	250ml			N/A
2	CTO15-LLSTD10.0	TO15_SFS	R157613	SS18-002B 250ML 10.0	FULL SCAN ICV		N/A
2	CTO15-SIMSTD5.0	TO15_SFS	R157614	SS18-002B 125ML 5.0	SIM ICV		N/A

Alpha Analytical Air Lab Instrument Run Log

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,2 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airlab15

Internal Standard/Surrogate IDs: SS17-030 / SS17-031

Date: 04/04/18

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: RY

Sequence File Name: 180404.S

SIM ICAL#		Full Scan ICAL#		NJ ICAL#		APH ICAL#	
AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Leak Check Pass ? Y/N
1	TA15040301	TO15_SFS.qgm	R156843.qgd	WG1102798	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R156844.qgd	WG1102798	SIM ONLY	SS18-008A	NA
5	ITO15-SIMSTD0.04	TO15_SFS.qgm	R156845.qgd	WG1102798	SIM ONLY	SS18-008A	NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R156846.qgd	WG1102798	SIM ONLY	SS18-008A	NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R156847.qgd	WG1102798		SS18-008C	NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R156848.qgd	WG1102798		SS18-008C	NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R156849.qgd	WG1102798		SS18-008C	Y
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R156850.qgd	WG1102798		SS18-008B	Y
7	ITO15-SIMSTD010	TO15_SFS.qgm	R156851.qgd	WG1102798		SS18-008B	Y
8	ITO15-SIMSTD020	TO15_SFS.qgm	R156852.qgd	WG1102798		SS18-008A	Y
8	ITO15-SIMSTD050	TO15_SFS.qgm	R156853.qgd	WG1102798		SS18-008A	Y
8	ITO15-LLSTD100	TO15_SFS.qgm	R156854.qgd	WG1102798	NOT USED FOR SIM	SS18-008A	Y
1	BLANK	TO15_SFS.qgm	R156855.qgd	WG1102798			Y
1	BLANK	TO15_SFS.qgm	R156856.qgd	WG1102798			Y
2	CTO15-LLSTD010	TO15_SFS.qgm	R156857.qgd	WG1102798	FULL SCAN ICV		Y
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R156858.qgd	WG1102798	SIM ICV		Y

Alpha Analytical Air Lab Instrument Run Log

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab Instrument Run Log

Instrument
ID: Airlab15

Internal Standard/Surrogate IDs: SS17-030 / SS17-031

Date: 05/01/18

Internal Standard/Surrogate Volume: 100 ml

Analyst
Initials: MB

Sequence File Name: 180501.S

APH

SIM ICAL#14605

Full Scan ICAL#14604

NJ ICAL#

ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Leak Check Pass ? Y/N
1	WG1111330-1,3,250,250	TO15_SFS.qgm	R157385.qgd	WG1111330,ICAL14604	TUNE FAILED		NA
2	WG1111330-2,3,250,250	TO15_SFS.qgm	R157386.qgd	WG1111330,ICAL14604	USE AS TUNE		NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R157387.qgd	WG,ICAL14605	SIM LCS		NA
2	WG1111330-2,3,250,250	TO15_SFS.qgm	R157388.qgd	WG1111330,ICAL14604	LL LCS		NA
1	WG1111330-4,3,250,250	TO15_SFS.qgm	R157389.qgd	WG1111330,ICAL14604	BLANK FAILED		NA
1	WG1111330-4,3,250,250	TO15_SFS.qgm	R157390.qgd	WG1111330,ICAL14604	BLANK		NA
1	L1814893-04,3,250,250	TO15_SFS.qgm	R157391.qgd	WG1111464,ICAL14605		SCA26	Y
2	L1815200-11,3,250,250	TO15_SFS.qgm	R157392.qgd	WG1111330,ICAL14604		9-CL	Y
3	L1815125-02,3,250,250	TO15_SFS.qgm	R157393.qgd	WG1111330,ICAL14604	RR, LOW IS	NY / 7- SIM	Y
4	L1815125-01,3,250,250	TO15_SFS.qgm	R157394.qgd	WG1111330,ICAL14604	ETOH OVERCAL	NY / 7- SIM	Y
6	L1815200-02,3,250,250	TO15_SFS.qgm	R157395.qgd	WG1111464,ICAL14605		9-CL	Y
7	L1815200-04,3,250,250	TO15_SFS.qgm	R157396.qgd	WG1111464,ICAL14605		9-CL	Y
8	L1815200-07,3,250,250	TO15_SFS.qgm	R157397.qgd	WG1111464,ICAL14605	RR, LOW IS	9-CL	Y
9	L1815200-10,3,250,250	TO15_SFS.qgm	R157398.qgd	WG1111464,ICAL14605		9-CL	Y
10	L1814893-01D,3,25,250	TO15_SFS.qgm	R157399.qgd	WG1111464,ICAL14605		SCA26	Y
10	WG1111464-5D,3,25,250	TO15_SFS.qgm	R157400.qgd	WG1111464,ICAL14605	TO15-SIM DUP	SCA26	Y
11	L1814893-02D,3,25,250	TO15_SFS.qgm	R157401.qgd	WG1111464,ICAL14605		SCA26	Y
12	L1814893-03D,3,14.29,250	TO15_SFS.qgm	R157402.qgd	WG1111464,ICAL14605	OVERDILUTED	SCA26	Y
13	L1814800-04,3,250,250	TO15_SFS.qgm	R157403.qgd	WG1111330,ICAL14604		NY + NAPH	Y
14	L1814800-03,3,250,250	TO15_SFS.qgm	R157404.qgd	WG1111330,ICAL14604		NY + NAPH	Y
15	L1814800-02D,3,125,250	TO15_SFS.qgm	R157405.qgd	WG1111330,ICAL14604		NY + NAPH	Y

Alpha Analytical Air Lab Instrument Run Log

15	WG1111330-5D,3,125,250	TO15_SFS.qgm	R157406.qgd	WG1111330,ICAL14604	RR, LOW IS	NY + NAPH	Y
16	L1814800-01D,3,25,250	TO15_SFS.qgm	R157407.qgd	WG1111330,ICAL14604	RR, LOW IS	NY + NAPH	Y
16	L1814800-01D,3,25,250	TO15_SFS.qgm	R157408.qgd	WG1111330,ICAL14604		NY + NAPH	Y
4	L1815125-01D,3,25,250	TO15_SFS.qgm	R157409.qgd	WG1111330,ICAL14604	ETOH ONLY	NY / 7- SIM	Y
12	L1814893-03D,3,35.73,250	TO15_SFS.qgm	R157410.qgd	WG1111464,ICAL14605		SCA26	Y
15	WG1111330-5D,3,125,250	TO15_SFS.qgm	R157411.qgd	WG1111330,ICAL14604	TO15-LL DUP	NY + NAPH	Y

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation re

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual
volume analyzed (mL),

Dilution Factor: See Form 1 report, or divide nominal volume by actual
volume analyzed

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airpiano 1

Internal Standard/Surrogate IDs: SS17-030 / SS17-031

Date: 05/02/18

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: RY / MB

Sequence File Name: 180502.S

SIM ICAL# 14483		PIANO ICAL #		Full Scan ICAL# 14479		TO12 ICAL# 11601		APH ICAL#14476	
AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #		Comment (s)	Product/s ublist	Leak Check Pass ?	
1	TA1050201	TO15_SFS	R159111	250ml		TUNE		N/A	
2	CAPH-10STD10.0	TO15_SFS	R159112	SS18-003B2 250 ml 10.0		APH CC		N/A	
3	CTO15-LLSTD10.0	TO15_SFS	R159113	SS18-007E 250 ml 10.0		APH/ LL LCS		N/A	
3	CTO15-SIMSTD5.0	TO15_SFS	R159114	SS18-007E 125 ml 5.0		SIM LCS		N/A	
1	BA1050201	TO15_SFS	R159115	250ml		BLANK		N/A	
1	L1813876-02,3,250,250	TO15_SFS	R159116	WG1111918,ICAL14483			4 CL BY SIM	Y	
2	L1813876-01,3,250,250	TO15_SFS	R159117	WG1111918,ICAL14483			4 CL BY SIM	Y	
3	L1813876-03,3,250,250	TO15_SFS	R159118	WG1111918,ICAL14483			4 CL BY SIM	Y	
4	L1813876-04,3,250,250	TO15_SFS	R159119	WG1111918,ICAL14483			4 CL BY SIM	Y	
5	L1815200-07,3,250,250	TO15_SFS	R159120	WG1111916,ICAL14483			6 CL BY SIM	Y	
6	L1815200-01,3,250,250	TO15_SFS	R159121	WG1111916,ICAL14483			6 CL BY SIM	Y	
7	L1815200-03,3,250,250	TO15_SFS	R159122	WG1111916,ICAL14483			6 CL BY SIM	Y	
8	L1815200-05,3,250,250	TO15_SFS	R159123	WG1111916,ICAL14483			6 CL BY SIM	Y	
9	L1815200-06,3,250,250	TO15_SFS	R159124	WG1111916,ICAL14483			6 CL BY SIM	Y	
10	L1815200-08,3,250,250	TO15_SFS	R159125	WG1111916,ICAL14483			6 CL BY SIM	Y	
11	L1815200-09,3,250,250	TO15_SFS	R159126	WG1111916,ICAL14483			6 CL BY SIM	Y	
12	L1815033-01,3,250,250	TO15_SFS	R159127	WG1111918,ICAL14483			9 CL BY SIM	Y	
13	L1815033-02,3,250,250	TO15_SFS	R159128	WG1111918,ICAL14483			9 CL BY SIM	Y	
13	L1815033-02DUP,3,250,250	TO15_SFS	R159129	WG1111918,ICAL14483		MCP-TO15-SIM DUP	9 CL BY SIM	Y	
14	L1815033-03,3,250,250	TO15_SFS	R159130	WG1111918,ICAL14483			9 CL BY SIM	Y	
15	L1815122-01D,3,125,250	TO15_SFS	R159131	WG1111916,ICAL14483			SCA 26 BY SIM	Y	
15	L1815122-01DDUP,3,125,250	TO15_SFS	R159132	WG1111916,ICAL14483		TO15-SIM DUP	SCA 26 BY SIM	Y	

[illegible]

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

APPENDIX C
DATA USABILITY SUMMARY REPORT

Data Validation Services

120 Cobble Creek Road P.O. Box 208

North Creek, NY 12853

Phone 518-251-4429

harry@frontiernet.net

April 9, 2018

Rob Kovacs
Roux Associates
209 Shafter St.
Islandia, NY 11747

RE: Data Usability Summary Report (DUSR) of Oceanside Plaza Site Data Packages
Alpha Analytical SDG No. L1806385

Dear Mr. Kovacs:

Review has been completed for the data package generated by Alpha Analytical that pertain to the analyses of air samples collected 02/22/18 at the Oceanside Plaza site. Eleven 6- L summa canister air samples were analyzed for seven site-specific volatile analytes by USEPA GC/MS method TO-15.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. Full validation has not been performed. However, the reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the 2006 USEPA Region II validation SOP HW-31, and in consideration of the specific requirements of the analytical methodology. The following items were reviewed:

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

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level of review.

In summary, sample processing was conducted in compliance with the analysis protocol. All sample reported results are usable as reported.

The laboratory sample identifications are attached to this text.

Volatile Analyses by EPA TO-15

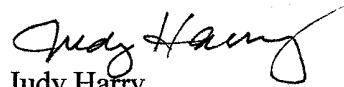
Holding times were met, internal standard responses are acceptable, and instrument tunes meet fragmentation requirements. LCSs show acceptable recoveries. Method and canister blanks show no contamination.

Laboratory field duplicate correlations of VS-MRE were acceptable for both events.

Initial and continuing calibration standard (ICV and CCV) linearity and calibration verification responses were compliant.

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

Very truly yours,


Judy Harry

Client and Laboratory Sample IDs

Project Name: OCEANSIDE PLAZA
Project Number: 1802:001Y000

Lab Number: L1806385
Report Date: 03/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1806385-01	VS-DCF	SOIL_VAPOR	OCEANSIDE, NY	02/22/18 18:33	02/23/18
L1806385-02	IA-DCF	AIR	OCEANSIDE, NY	02/22/18 18:34	02/23/18
L1806385-03	VS-MRE	SOIL_VAPOR	OCEANSIDE, NY	02/22/18 18:57	02/23/18
L1806385-04	IA-DCR	AIR	OCEANSIDE, NY	02/22/18 18:27	02/23/18
L1806385-05	VS-DCR	SOIL_VAPOR	OCEANSIDE, NY	02/22/18 18:31	02/23/18
L1806385-06	AMBIENT	AIR	OCEANSIDE, NY	02/22/18 18:22	02/23/18
L1806385-07	VS-FENCE	SOIL_VAPOR	OCEANSIDE, NY	02/22/18 18:06	02/23/18
L1806385-08	IA-WINE	AIR	OCEANSIDE, NY	02/22/18 18:51	02/23/18
L1806385-09	VS-VAC	SOIL_VAPOR	OCEANSIDE, NY	02/22/18 18:48	02/23/18
L1806385-10	VS-BOOK	SOIL_VAPOR	OCEANSIDE, NY	02/22/18 18:44	02/23/18
L1806385-11	IA-YOGURT	AIR	OCEANSIDE, NY	02/22/18 18:42	02/23/18

Data Validation Services

120 Cobble Creek Road P.O. Box 208

North Creek, NY 12853

Phone 518-251-4429

harry@frontiernet.net

June 1, 2018

Rob Kovacs
Roux Associates
209 Shafter St.
Islandia, NY 11747

RE: Data Usability Summary Report (DUSR) of Oceanside Plaza Site Data Packages
Alpha Analytical SDG No. L1815200

Dear Mr. Kovacs:

Review has been completed for the data package generated by Alpha Analytical that pertains to the analyses of air samples collected 04/27/18 at the Oceanside Plaza site. Eleven 6- L summa canister air samples were analyzed for seven site-specific volatile analytes by USEPA GC/MS method TO-15.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. Full validation has not been performed. However, the reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the 2006 USEPA Region II validation SOP HW-31, and in consideration of the specific requirements of the analytical methodology. The following items were reviewed:

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

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level of review.

In summary, sample processing was conducted in compliance with the analysis protocol. All sample reported results are usable as reported.

The client and laboratory sample identifications are attached to this text.

Volatile Analyses by EPA TO-15

Holding times were met, internal standard responses are acceptable, and instrument tunes meet fragmentation requirements. LCSs show acceptable recoveries. Method and canister blanks show no contamination.

Laboratory field duplicate evaluations were performed on non-project samples.

Initial and continuing calibration standard (ICV and CCV) linearity and calibration verification responses were compliant.

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

Very truly yours,


Judy Harry

Client and Laboratory Sample Identifications

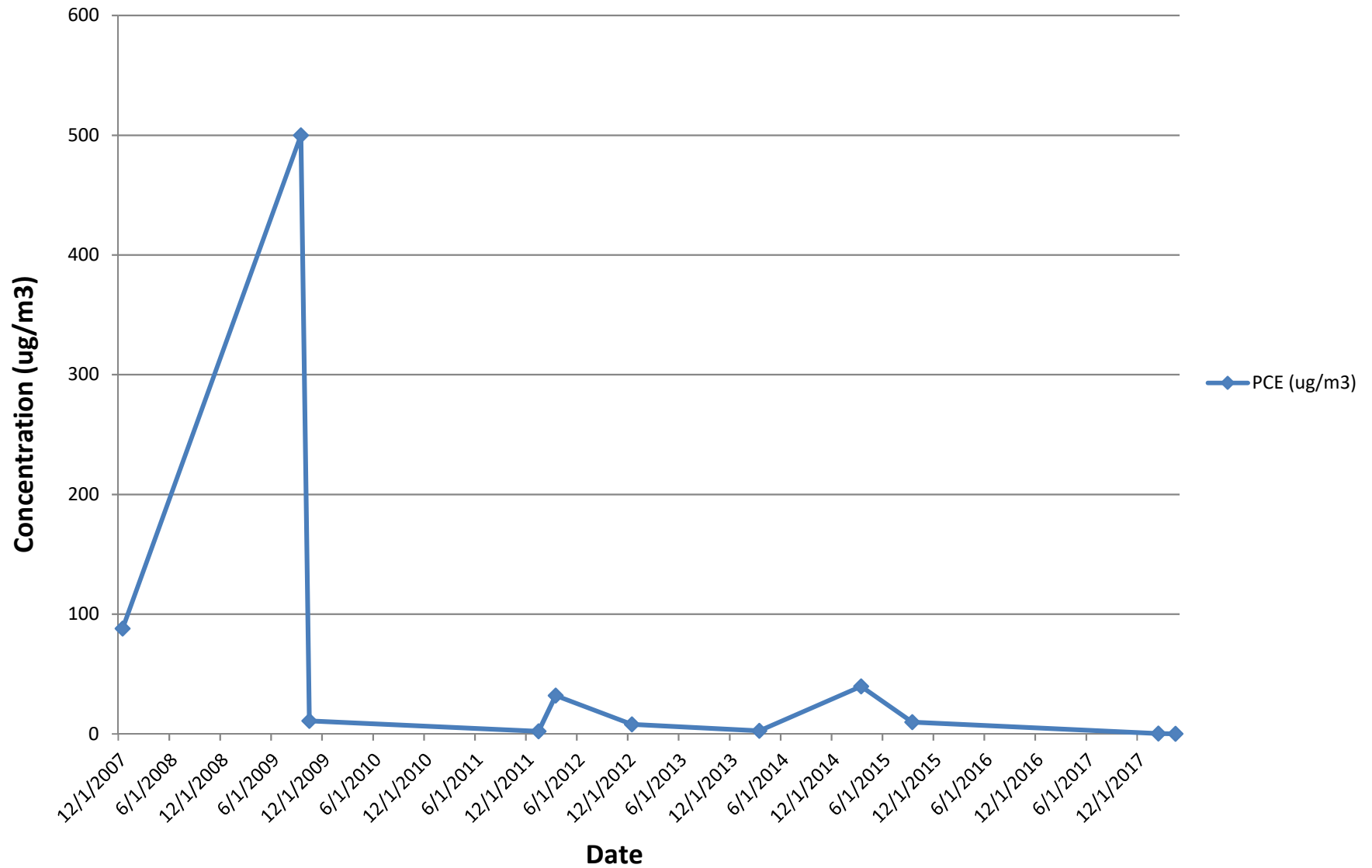
Project Name: OCEANSIDE PLAZA
Project Number: 1802.0001Y000

Lab Number: L1815200
Report Date: 05/03/18

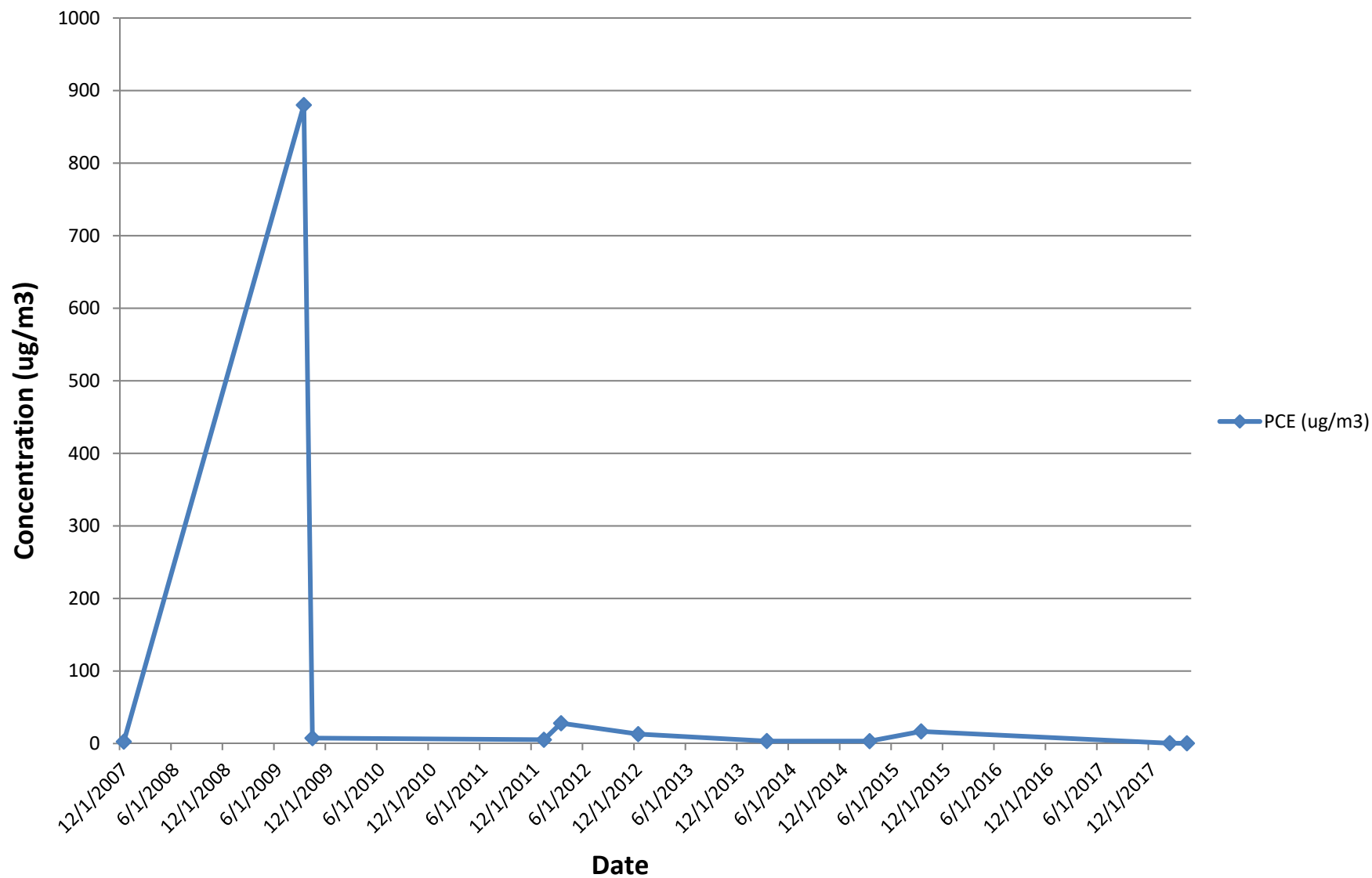
Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1815200-01	VS-DCF	SOIL_VAPOR	OCEANSIDE, NY	04/27/18 17:04	04/27/18
L1815200-02	IA-DCF	AIR	OCEANSIDE, NY	04/27/18 16:51	04/27/18
L1815200-03	VS-MRE	SOIL_VAPOR	OCEANSIDE, NY	04/27/18 16:55	04/27/18
L1815200-04	IA-DCR	AIR	OCEANSIDE, NY	04/27/18 17:07	04/27/18
L1815200-05	VS-DCR	SOIL_VAPOR	OCEANSIDE, NY	04/27/18 16:57	04/27/18
L1815200-06	VS-FENCE	SOIL_VAPOR	OCEANSIDE, NY	04/27/18 17:08	04/27/18
L1815200-07	IA-WINE	AIR	OCEANSIDE, NY	04/27/18 17:34	04/27/18
L1815200-08	VS-VAC	SOIL_VAPOR	OCEANSIDE, NY	04/27/18 17:36	04/27/18
L1815200-09	VS-BOOK	SOIL_VAPOR	OCEANSIDE, NY	04/27/18 17:21	04/27/18
L1815200-10	IA-YOGURT	AIR	OCEANSIDE, NY	04/27/18 17:19	04/27/18
L1815200-11	AMBIENT	AIR	OCEANSIDE, NY	04/27/18 17:43	04/27/18

APPENDIX D
SUB-SLAB/INDOOR AIR CONCENTRATION GRAPHS

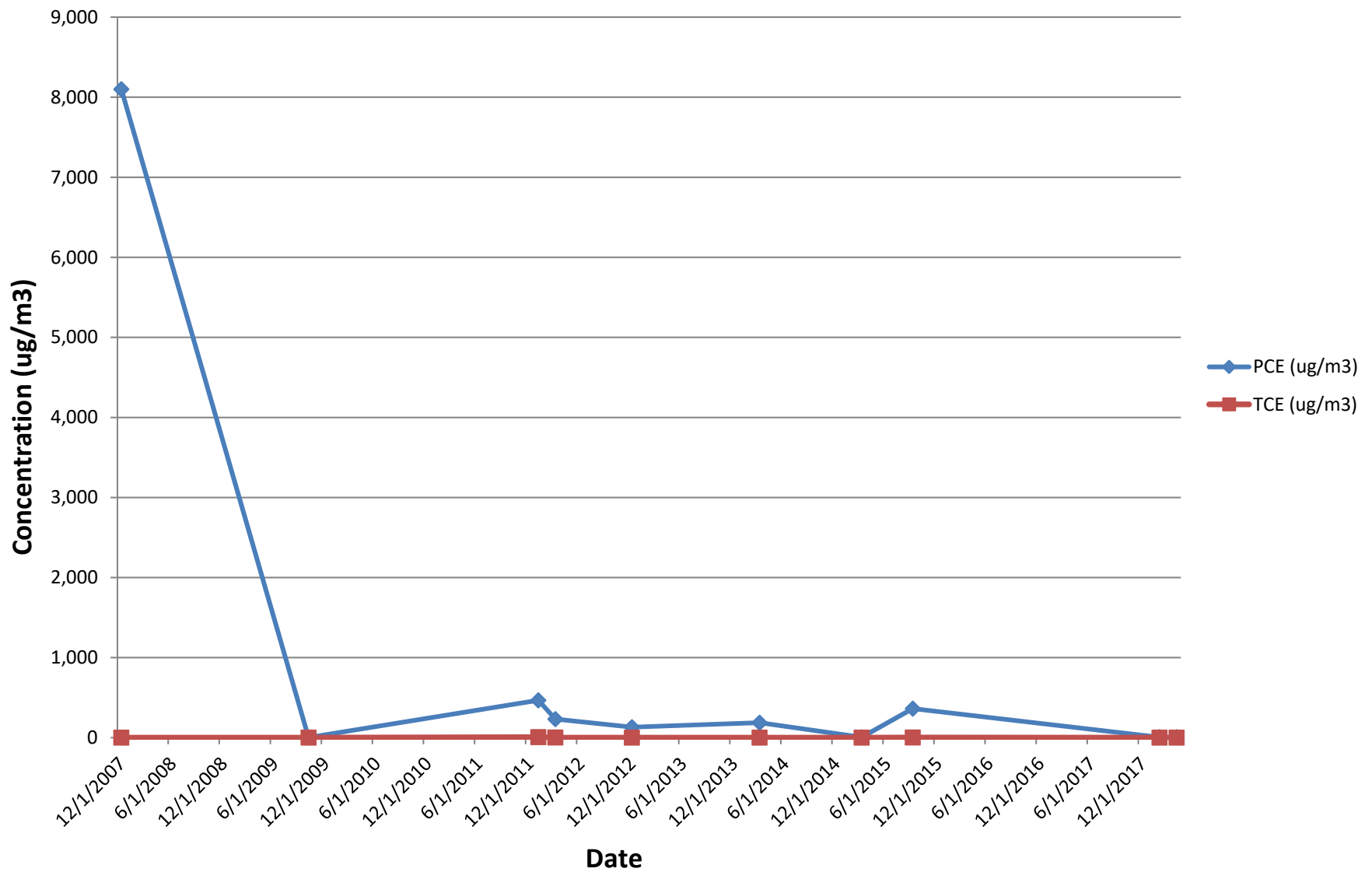
PCE Concentration in Indoor Air - Yogurt Store (Retail Unit 14)



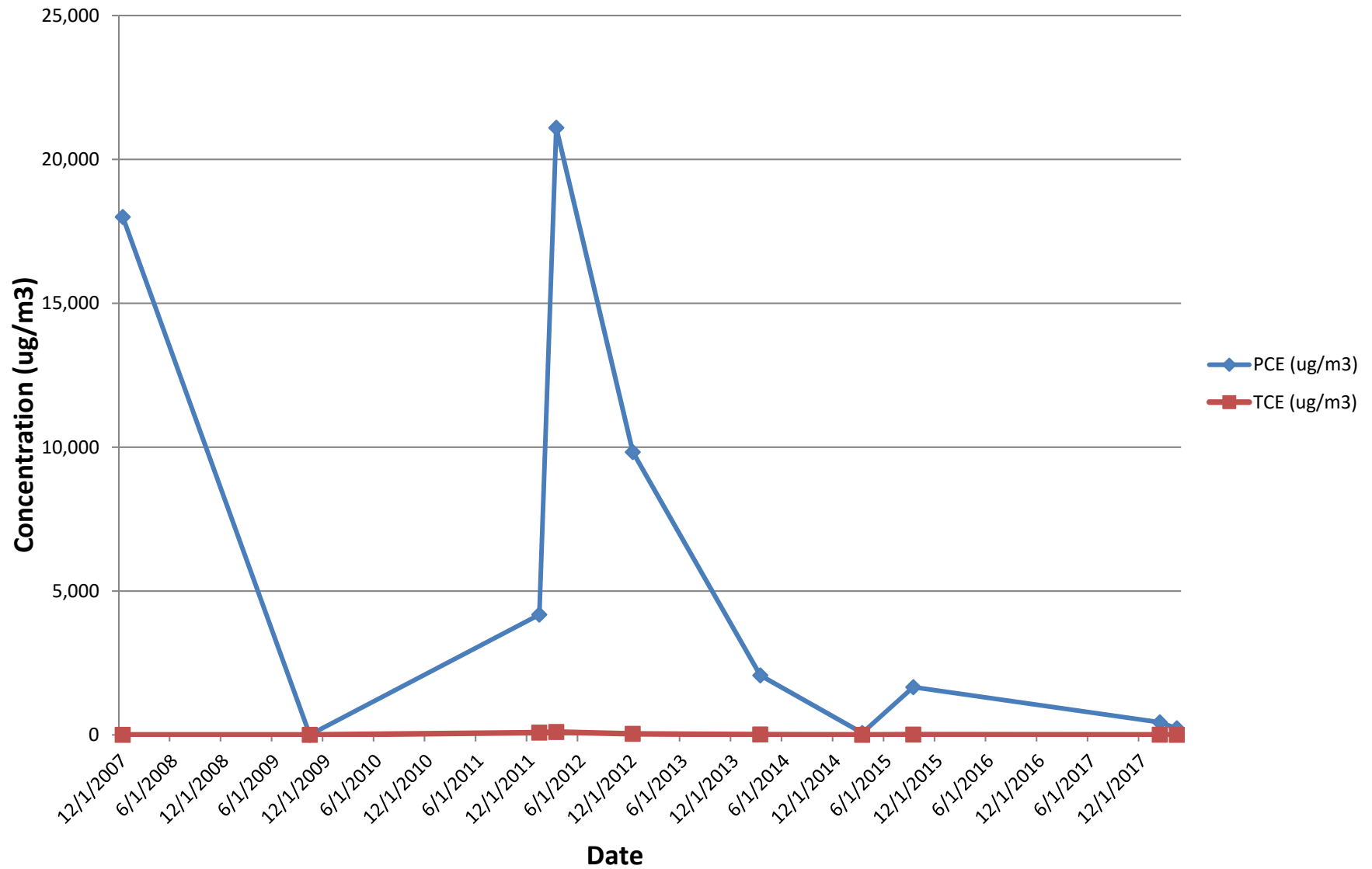
PCE (ug/m³)
PCE Concentration in Indoor Air - Wine Store
(Retail Unit 12)



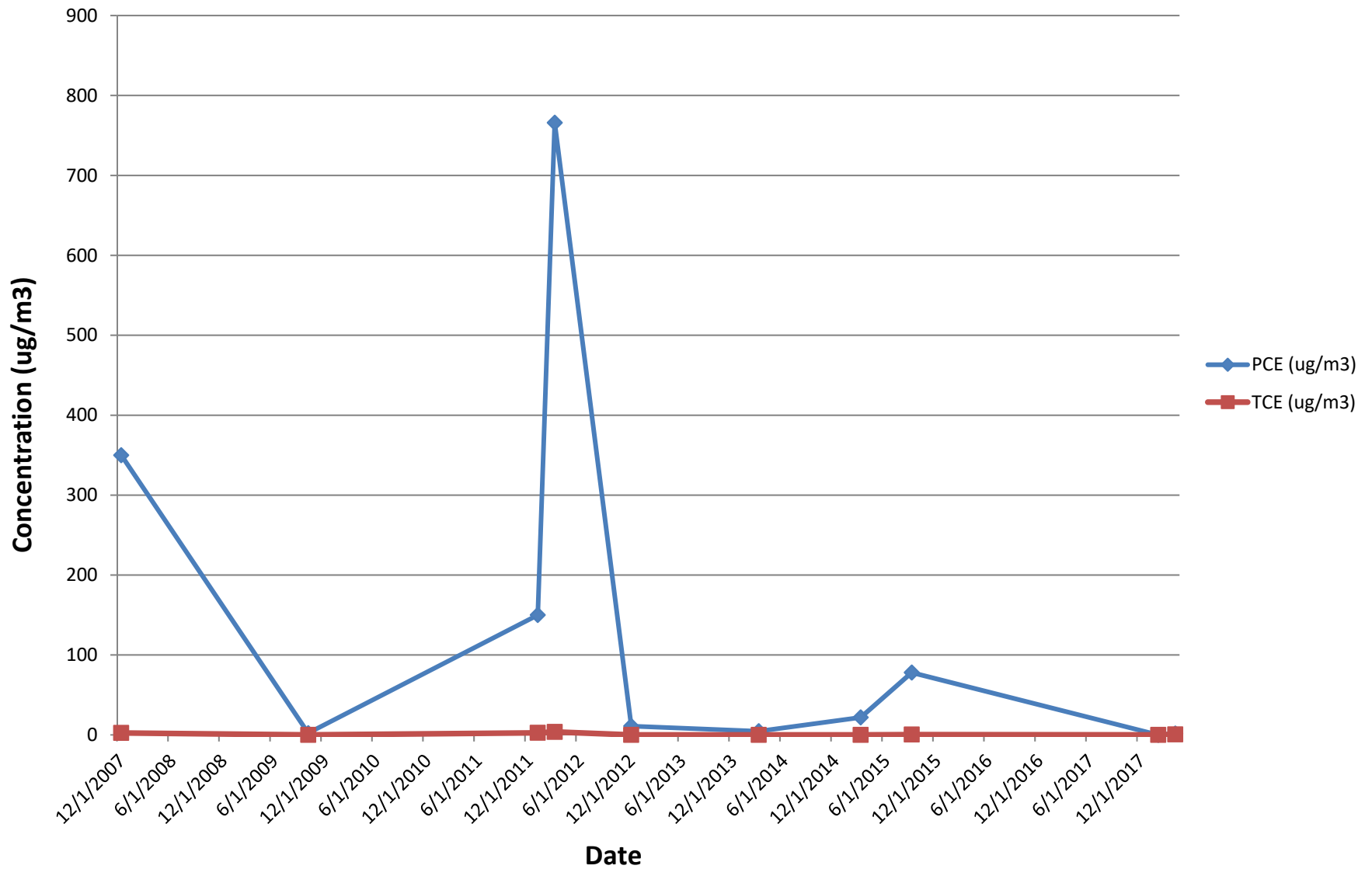
PCE and TCE Concentrations in Sub-Slab Vapor - Yogurt Store (Retail Unit 14)



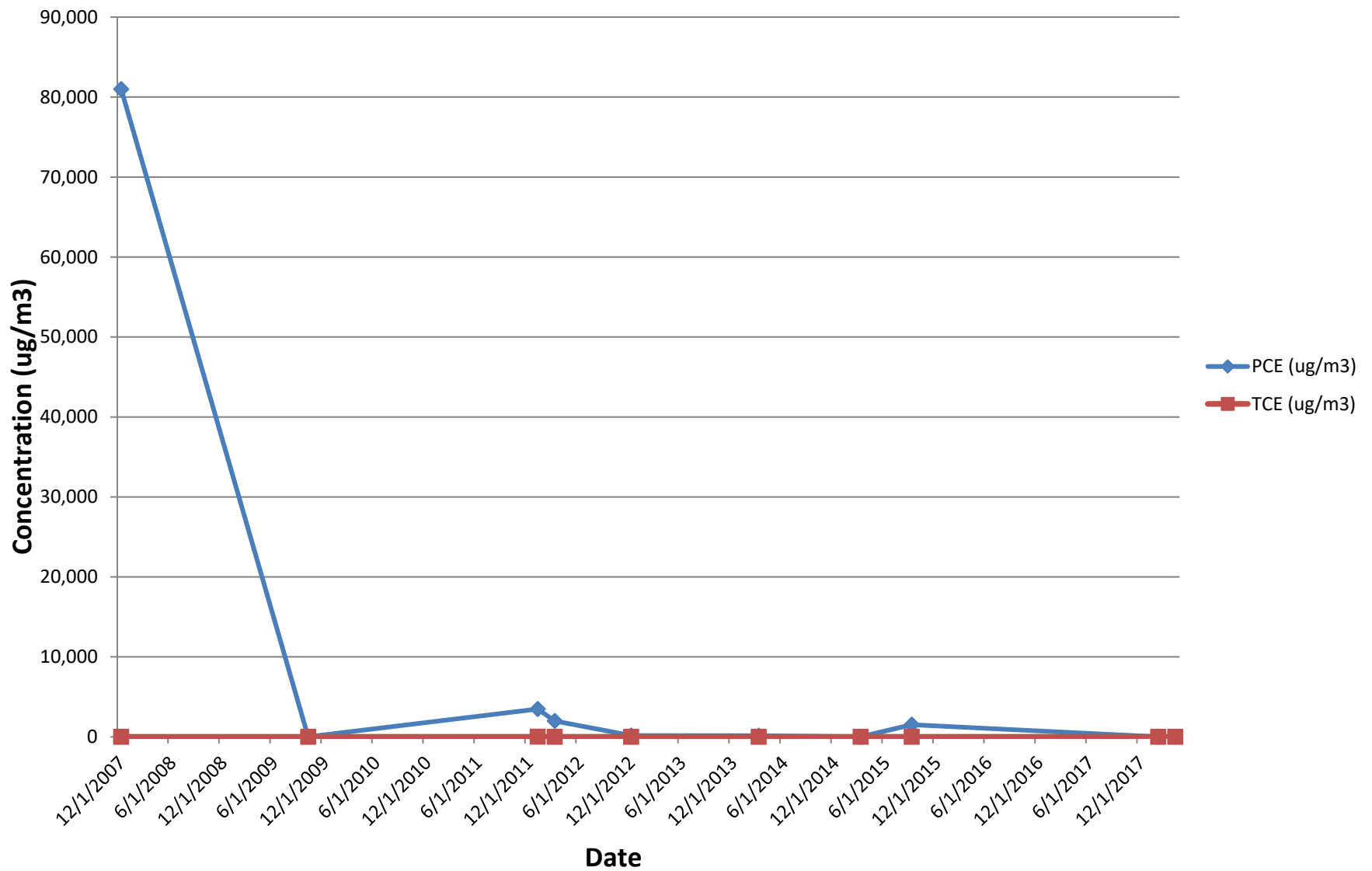
PCE and TCE Concentrations in Sub-Slab Vapor - Wine Store (Retail Unit 12)



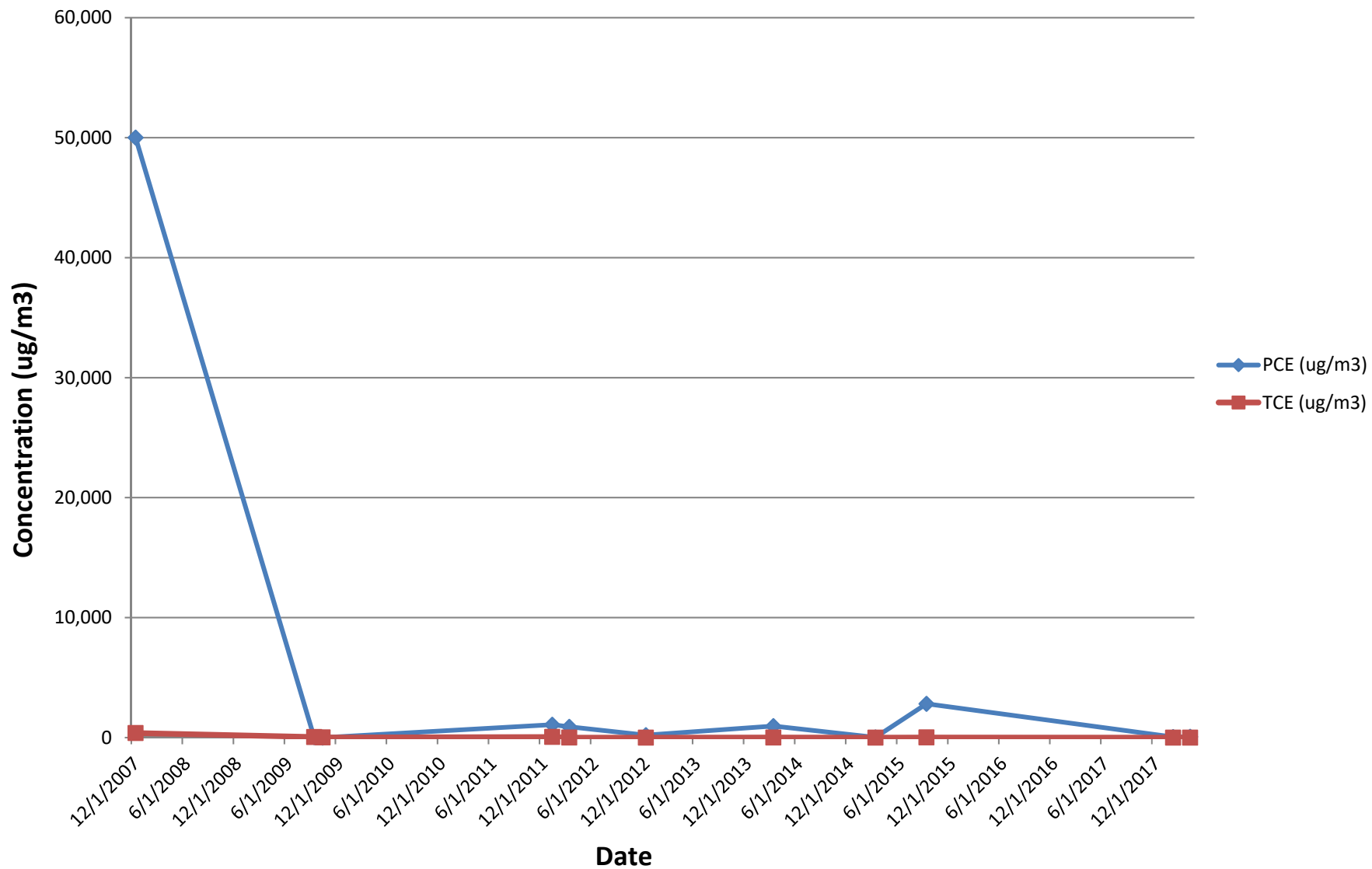
PCE and TCE Concentration in Sub-Slab Vapor - Front of Dry Cleaner Store (Retail Unit 13)



PCE and TCE Concentrations in Sub-Slab Vapor - Rear of Dry Cleaner Store (Retail Unit 13)



PCE and TCE Concentrations in Sub-Slab Vapor - Middle of Dry Cleaner Store (Retail Unit 13)



**APPENDIX E
SITE-INSPECTION FORM**

SITE INSPECTION FORM

Date: March 2, 2018

Inspector: Michael P. Raffoni

Weather Conditions: Overcast with Light Rain, 36°

Observations	Yes	No	Comments
1. Has the site usage changed since the previous inspection?		X	
2. Are any new structures present on-site?		X	
3. Has the usage of any retail spaces changed since the previous inspection?	X		Retail Space 13 is occupied by Ear Works Audiology
4. Have any structures been demolished since the previous inspection?		X	
5. Is there any evidence of recent excavation activities on-site? (i.e. disturbed earth, patched pavement, etc.)		X	
6. Are any modifications evident within the Environmental Easement designated area?		X	
7. Is there any contaminant related surface staining present?		X	
8. Are there any contaminant related odors present?		X	
9. Are the stormwater drains in need of repair?		X	
10. Are the groundwater monitoring wells in need of repair?		X	
11. Is the sub-slab depressurization system operational?		X	
12. Are the sub-slab depressurization system checklists up-to-date?	X		
13. Is the soil vapor/indoor air quality monitoring sampling events up-to-date?	X		
14. Has there been any changes to the neighboring properties?		X	